



**EDB Information Disclosure Requirements  
Information Templates  
for  
Schedules 1–10**

<b>Company Name</b>	Electricity Ashburton Limited
<b>Disclosure Date</b>	12/07/2016
<b>Disclosure Year (year ended)</b>	31/03/2016

Templates for Schedules 1–10 excluding 5f–5g  
Template Version 4.1. Prepared 24 March 2015

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Company Name	Electricity Ashburton Limited
For Year Ended	31/03/2016

**SCHEDULE 1: ANALYTICAL RATIOS**

This schedule calculates expenditure, revenue and service ratios from the information disclosed. The disclosed ratios may vary for reasons that are company specific and, as a result, must be interpreted with care. The Commerce Commission will publish a summary and analysis of information disclosed in accordance with the ID determination. This will include information disclosed in accordance with this and other schedules, and information disclosed under the other requirements of the determination. This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

7	<b>1(i): Expenditure metrics</b>				
8		Expenditure per GWh energy delivered to ICPs (\$/GWh)	Expenditure per average no. of ICPs (\$/ICP)	Expenditure per MW maximum coincident system demand (\$/MW)	Expenditure per MVA of capacity from EDB-owned distribution transformers (\$/MVA)
9	Operational expenditure	16,834	540	57,399	18,510
10	Network	4,783	154	16,308	5,259
11	Non-network	12,051	387	41,091	13,251
12					
13	Expenditure on assets	32,767	1,052	111,727	36,029
14	Network	31,664	1,017	107,964	34,816
15	Non-network	1,104	35	3,763	1,213
16					
17	<b>1(ii): Revenue metrics</b>				
18		Revenue per GWh energy delivered to ICPs (\$/GWh)	Revenue per average no. of ICPs (\$/ICP)		
19	Total consumer line charge revenue	67,795	2,177		
20	Standard consumer line charge revenue	67,795	2,177		
21	Non-standard consumer line charge revenue	-	-		
22					
23	<b>1(iii): Service intensity measures</b>				
24					
25	Demand density	58	Maximum coincident system demand per km of circuit length (for supply) (kW/km)		
26	Volume density	199	Total energy delivered to ICPs per km of circuit length (for supply) (MWh/km)		
27	Connection point density	6	Average number of ICPs per km of circuit length (for supply) (ICPs/km)		
28	Energy intensity	32,106	Total energy delivered to ICPs per average number of ICPs (kWh/ICP)		
29					
30	<b>1(iv): Composition of regulatory income</b>				
31				(\$000)	% of revenue
32	Operational expenditure	10,147	24.75%		
33	Pass-through and recoverable costs excluding financial incentives and wash-ups	7,648	18.66%		
34	Total depreciation	7,616	18.58%		
35	Total revaluations	1,324	3.23%		
36	Regulatory tax allowance	2,918	7.12%		
37	Regulatory profit/(loss) including financial incentives and wash-ups	13,992	34.13%		
38	<b>Total regulatory income</b>	<b>40,997</b>			
39					
40	<b>1(v): Reliability</b>				
41					
42	Interruption rate	14.05	Interruptions per 100 circuit km		

Company Name	<b>Electricity Ashburton Limited</b>
For Year Ended	<b>31/03/2016</b>

**SCHEDULE 2: REPORT ON RETURN ON INVESTMENT**

This schedule requires information on the Return on Investment (ROI) for the EDB relative to the Commerce Commission's estimates of post tax WACC and vanilla WACC. EDBs must calculate their ROI based on a monthly basis if required by clause 2.3.3 of the ID Determination or if they elect to. If an EDB makes this election, information supporting this calculation must be provided in 2(iii).

EDBs must provide explanatory comment on their ROI in Schedule 14 (Mandatory Explanatory Notes).

This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

	CY-2	CY-1	Current Year CY
	Mar-14	Mar-15	Mar-16
	%	%	%
<b>2(i): Return on Investment</b>			
<b>ROI – comparable to a post tax WACC</b>			
Reflecting all revenue earned	7.42%	5.78%	5.71%
Excluding revenue earned from financial incentives	7.42%	5.78%	5.71%
Excluding revenue earned from financial incentives and wash-ups	7.42%	5.78%	5.71%
<b>Mid-point estimate of post tax WACC</b>	5.43%	6.10%	5.37%
25th percentile estimate	4.71%	5.39%	4.66%
75th percentile estimate	6.14%	6.82%	6.09%
<b>ROI – comparable to a vanilla WACC</b>			
Reflecting all revenue earned	8.10%	6.56%	6.36%
Excluding revenue earned from financial incentives	8.10%	6.56%	6.36%
Excluding revenue earned from financial incentives and wash-ups	8.10%	6.56%	6.36%
<b>WACC rate used to set regulatory price path</b>	8.77%	8.77%	7.19%
<b>Mid-point estimate of vanilla WACC</b>	6.11%	6.89%	6.02%
25th percentile estimate	5.39%	6.17%	5.30%
75th percentile estimate	6.83%	7.60%	6.74%
<b>2(ii): Information Supporting the ROI</b>			
			(\$000)
Total opening RAB value	226,349		
plus Opening deferred tax	(7,930)		
<b>Opening RIV</b>		218,419	
<b>Line charge revenue</b>		40,865	
Expenses cash outflow	17,795		
add Assets commissioned	17,848		
less Asset disposals	647		
add Tax payments	1,443		
less Other regulated income	132		
<b>Mid-year net cash outflows</b>		36,306	
<b>Term credit spread differential allowance</b>		–	
Total closing RAB value	237,258		
less Adjustment resulting from asset allocation	(0)		
less Lost and found assets adjustment	–		
plus Closing deferred tax	(9,405)		
<b>Closing RIV</b>		227,853	
<b>ROI – comparable to a vanilla WACC</b>			6.36%
Leverage (%)			44%
Cost of debt assumption (%)			5.26%
Corporate tax rate (%)			28%
<b>ROI – comparable to a post tax WACC</b>			5.71%

Company Name **Electricity Ashburton Limited**  
 For Year Ended **31/03/2016**

**SCHEDULE 2: REPORT ON RETURN ON INVESTMENT**

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EDBs must provide explanatory comment on their ROI in Schedule 14 (Mandatory Explanatory Notes).

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sch ref

**2(iii): Information Supporting the Monthly ROI**

Opening RIV 218,419

	Line charge revenue	Expenses cash outflow	Assets commissioned	Asset disposals	Other regulated income	Monthly net cash outflows
April	3,016	1,356	13	52	(1)	1,318
May	3,119	1,489	87	52	(6)	1,530
June	3,129	1,675	492	54	(7)	2,120
July	3,365	1,436	19	52	15	1,387
August	3,705	1,418	1,429	52	(5)	2,800
September	3,655	1,463	3,780	59	(10)	5,194
October	3,654	1,438	945	52	(15)	2,346
November	3,585	1,464	3,618	52	35	4,995
December	3,784	1,508	1,096	52	33	2,519
January	3,337	1,378	2,875	52	79	4,122
February	3,130	1,383	3,494	52	(8)	4,833
March	3,387	1,787	-	66	21	1,700
<b>Total</b>	<b>40,865</b>	<b>17,795</b>	<b>17,848</b>	<b>647</b>	<b>132</b>	<b>34,864</b>

Tax payments 1,443

Term credit spread differential allowance -

Closing RIV 227,853

Monthly ROI – comparable to a vanilla WACC 6.42%

Monthly ROI – comparable to a post tax WACC 5.77%

**2(iv): Year-End ROI Rates for Comparison Purposes**

Year-end ROI – comparable to a vanilla WACC 6.15%

Year-end ROI – comparable to a post tax WACC 5.51%

*\* these year-end ROI values are comparable to the ROI reported in pre 2012 disclosures by EDBs and do not represent the Commission's current view on ROI.*

**2(v): Financial Incentives and Wash-Ups**

Net recoverable costs allowed under incremental rolling incentive scheme	-
Purchased assets – avoided transmission charge	
Energy efficiency and demand incentive allowance	
Quality incentive adjustment	
Other financial incentives	
<b>Financial incentives</b>	-

**Impact of financial incentives on ROI** -

Input methodology claw-back	
Recoverable customised price-quality path costs	
Catastrophic event allowance	
Capex wash-up adjustment	
Transmission asset wash-up adjustment	
2013–2015 NPV wash-up allowance	
Reconsideration event allowance	
Other wash-ups	

**Wash-up costs** -

**Impact of wash-up costs on ROI** -

Company Name **Electricity Ashburton Limited**  
 For Year Ended **31/03/2016**

### SCHEDULE 3: REPORT ON REGULATORY PROFIT

This schedule requires information on the calculation of regulatory profit for the EDB for the disclosure year. All EDBs must complete all sections and provide explanatory comment on their regulatory profit in Schedule 14 (Mandatory Explanatory Notes).

This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

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7 <b>3(i): Regulatory Profit</b>		(\$000)
8	<b>Income</b>	
9	Line charge revenue	40,865
10	plus Gains / (losses) on asset disposals	(634)
11	plus Other regulated income (other than gains / (losses) on asset disposals)	766
12		
13	<b>Total regulatory income</b>	<b>40,997</b>
14	<b>Expenses</b>	
15	less Operational expenditure	10,147
16		
17	less Pass-through and recoverable costs excluding financial incentives and wash-ups	7,648
18		
19	<b>Operating surplus / (deficit)</b>	<b>23,202</b>
20		
21	less Total depreciation	7,616
22		
23	plus Total revaluations	1,324
24		
25	<b>Regulatory profit / (loss) before tax</b>	<b>16,910</b>
26		
27	less Term credit spread differential allowance	-
28		
29	less Regulatory tax allowance	2,918
30		
31	<b>Regulatory profit/(loss) including financial incentives and wash-ups</b>	<b>13,992</b>
32		
33	<b>3(ii): Pass-through and Recoverable Costs excluding Financial Incentives and Wash-Ups</b>	(\$000)
34	<b>Pass through costs</b>	
35	Rates	172
36	Commerce Act levies	78
37	Industry levies	106
38	CPP specified pass through costs	-
39	<b>Recoverable costs excluding financial incentives and wash-ups</b>	
40	Electricity lines service charge payable to Transpower	4,502
41	Transpower new investment contract charges	1,269
42	System operator services	-
43	Distributed generation allowance	1,513
44	Extended reserves allowance	-
45	Other recoverable costs excluding financial incentives and wash-ups	8
46	<b>Pass-through and recoverable costs excluding financial incentives and wash-ups</b>	<b>7,648</b>
47		

Company Name **Electricity Ashburton Limited**  
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**SCHEDULE 3: REPORT ON REGULATORY PROFIT**

This schedule requires information on the calculation of regulatory profit for the EDB for the disclosure year. All EDBs must complete all sections and provide explanatory comment on their regulatory profit in Schedule 14 (Mandatory Explanatory Notes).

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sch ref

		(\$000)	
		CY-1	CY
		42094	42460
48	<b>3(iii): Incremental Rolling Incentive Scheme</b>		
49			
50			
51	Allowed controllable opex		
52	Actual controllable opex		
53			
54	Incremental change in year		
55			
		Previous years' incremental change	Previous years' incremental change adjusted for inflation
56			
57	CY-5            40633		
58	CY-4            40999		
59	CY-3            41364		
60	CY-2            41729		
61	CY-1            42094		
62	<b>Net incremental rolling incentive scheme</b>		-
63			
64	<b>Net recoverable costs allowed under incremental rolling incentive scheme</b>		-
65	<b>3(iv): Merger and Acquisition Expenditure</b>		
70			(\$000)
66	Merger and acquisition expenditure		-
67			
68	<i>Provide commentary on the benefits of merger and acquisition expenditure to the electricity distribution business, including required disclosures in accordance with section 2.7, in Schedule 14 (Mandatory Explanatory Notes)</i>		
69	<b>3(v): Other Disclosures</b>		
70			(\$000)
71	Self-insurance allowance		-

Company Name **Electricity Ashburton Limited**  
 For Year Ended **31/03/2016**

**SCHEDULE 4: REPORT ON VALUE OF THE REGULATORY ASSET BASE (ROLLED FORWARD)**

This schedule requires information on the calculation of the Regulatory Asset Base (RAB) value to the end of this disclosure year. This informs the ROI calculation in Schedule 2. EDBs must provide explanatory comment on the value of their RAB in Schedule 14 (Mandatory Explanatory Notes). This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

**4(i): Regulatory Asset Base Value (Rolled Forward)**

	for year ended				
	RAB 2012 (\$000)	RAB 2013 (\$000)	RAB 2014 (\$000)	RAB 2015 (\$000)	RAB 2016 (\$000)
Total opening RAB value	183,644	190,501	207,829	220,521	226,349
less Total depreciation	7,157	6,655	6,958	7,375	7,616
plus Total revaluations	2,849	1,621	3,159	184	1,324
plus Assets commissioned	12,490	23,974	19,136	13,834	17,848
less Asset disposals	1,325	1,610	1,614	815	647
plus Lost and found assets adjustment	-	-	-	-	-
plus Adjustment resulting from asset allocation	-	(2)	(1,031)	(0)	(0)
Total closing RAB value	190,501	207,829	220,521	226,349	237,258

**4(ii): Unallocated Regulatory Asset Base**

	Unallocated RAB *		RAB	
	(\$000)	(\$000)	(\$000)	(\$000)
Total opening RAB value		227,355		226,349
less Total depreciation		7,640		7,616
plus Total revaluations		1,330		1,324
plus Assets commissioned (other than below)	2,847		2,847	
Assets acquired from a regulated supplier				
Assets acquired from a related party	15,001		15,001	
Assets commissioned		17,848		17,848
less Asset disposals (other than below)	647		647	
Asset disposals to a regulated supplier	-		-	
Asset disposals to a related party	-		-	
Asset disposals		647		647
plus Lost and found assets adjustment		-		-
plus Adjustment resulting from asset allocation				(0)
Total closing RAB value		238,246		237,258

\* The 'unallocated RAB' is the total value of those assets used wholly or partially to provide electricity distribution services without any allowance being made for the allocation of costs to services provided by the supplier that are not electricity distribution services. The RAB value represents the value of these assets after applying this cost allocation. Neither value includes works under construction.

Company Name **Electricity Ashburton Limited**  
 For Year Ended **31/03/2016**

**SCHEDULE 4: REPORT ON VALUE OF THE REGULATORY ASSET BASE (ROLLED FORWARD)**

This schedule requires information on the calculation of the Regulatory Asset Base (RAB) value to the end of this disclosure year. This informs the ROI calculation in Schedule 2. EDBs must provide explanatory comment on the value of their RAB in Schedule 14 (Mandatory Explanatory Notes). This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

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**4(iii): Calculation of Revaluation Rate and Revaluation of Assets**

CPI <sub>t</sub>	1,200
CPI <sub>t-4</sub>	1,193
Revaluation rate (%)	0.59%

	Unallocated RAB *		RAB	
	(\$000)	(\$000)	(\$000)	(\$000)
Total opening RAB value	227,355		226,349	
less Opening value of fully depreciated, disposed and lost assets	742		742	
Total opening RAB value subject to revaluation	226,614		225,607	
<b>Total revaluations</b>		1,330		1,324

**4(iv): Roll Forward of Works Under Construction**

	Unallocated works under construction		Allocated works under construction	
<b>Works under construction—preceding disclosure year</b>		1,698		1,698
plus Capital expenditure	18,458		18,458	
less Assets commissioned	17,848		17,848	
plus Adjustment resulting from asset allocation				
<b>Works under construction - current disclosure year</b>		2,308		2,308

Highest rate of capitalised finance applied

Company Name **Electricity Ashburton Limited**  
 For Year Ended **31/03/2016**

**SCHEDULE 4: REPORT ON VALUE OF THE REGULATORY ASSET BASE (ROLLED FORWARD)**

This schedule requires information on the calculation of the Regulatory Asset Base (RAB) value to the end of this disclosure year. This informs the ROI calculation in Schedule 2. EDBs must provide explanatory comment on the value of their RAB in Schedule 14 (Mandatory Explanatory Notes). This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

76 **4(v): Regulatory Depreciation**

	Unallocated RAB *		RAB	
	(\$000)	(\$000)	(\$000)	(\$000)
77 Depreciation - standard	6,838		6,814	
78 Depreciation - no standard life assets	803		802	
79 Depreciation - modified life assets	-		-	
80 Depreciation - alternative depreciation in accordance with CPP	-		-	
81 <b>Total depreciation</b>		7,640		7,616

85 **4(vi): Disclosure of Changes to Depreciation Profiles**

(\$000 unless otherwise specified)

Asset or assets with changes to depreciation*	Reason for non-standard depreciation (text entry)	Depreciation charge for the period (RAB)	Closing RAB value under 'non-standard' depreciation	Closing RAB value under 'standard' depreciation

\* include additional rows if needed

96 **4(vii): Disclosure by Asset Category**

(\$000 unless otherwise specified)

	Subtransmission lines	Subtransmission cables	Zone substations	Distribution and LV lines	Distribution and LV cables	Distribution substations and transformers	Distribution switchgear	Other network assets	Non-network assets	Total
98 <b>Total opening RAB value</b>	12,452	899	17,210	46,184	51,614	37,801	43,979	1,206	15,005	226,349
99 less Total depreciation	409	27	555	1,639	1,256	1,577	1,205	66	880	7,616
100 plus Total revaluations	73	5	101	270	302	281	196	7	88	1,324
101 plus Assets commissioned	714	-	1,241	1,948	3,612	7,488	1,986	84	777	17,848
102 less Asset disposals	0	1	-	137	68	106	317	-	18	647
103 plus Lost and found assets adjustment	-	-	-	-	-	-	-	-	-	-
104 plus Adjustment resulting from asset allocation	-	-	-	-	-	-	-	-	-	-
105 plus Asset category transfers	-	-	-	-	-	10,256	(10,256)	-	-	-
106 <b>Total closing RAB value</b>	12,830	875	17,996	46,626	54,205	54,143	34,382	1,230	14,971	237,258
107 <b>Asset Life</b>										
108 Weighted average remaining asset life	34.5	36.1	32.4	31.9	44.8	35.1	30.7	12.1	23.4	(years)
109 Weighted average expected total asset life	45.4	54.8	45.8	46.2	55.0	42.5	38.6	14.2	25.2	(years)

Company Name **Electricity Ashburton Limited**  
 For Year Ended **31/03/2016**

### SCHEDULE 5a: REPORT ON REGULATORY TAX ALLOWANCE

This schedule requires information on the calculation of the regulatory tax allowance. This information is used to calculate regulatory profit/loss in Schedule 3 (regulatory profit). EDBs must provide explanatory commentary on the information disclosed in this schedule, in Schedule 14 (Mandatory Explanatory Notes).

This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section

sch ref

		(\$000)	
7	<b>5a(i): Regulatory Tax Allowance</b>		
8	<b>Regulatory profit / (loss) before tax</b>		16,910
9			
10	<i>plus</i> Income not included in regulatory profit / (loss) before tax but taxable	188	*
11	Expenditure or loss in regulatory profit / (loss) before tax but not deductible	634	*
12	Amortisation of initial differences in asset values	2,193	
13	Amortisation of revaluations	494	
14			3,508
15			
16	<i>less</i> Total revaluations	1,324	
17	Income included in regulatory profit / (loss) before tax but not taxable	-	*
18	Discretionary discounts and customer rebates	3,473	
19	Expenditure or loss deductible but not in regulatory profit / (loss) before tax	273	*
20	Notional deductible interest	4,927	
21			9,997
22			
23	<b>Regulatory taxable income</b>		10,421
24			
25	<i>less</i> Utilised tax losses		
26	Regulatory net taxable income		10,421
27			
28	Corporate tax rate (%)	28%	
29	<b>Regulatory tax allowance</b>		2,918

\* Workings to be provided in Schedule 14

### 5a(ii): Disclosure of Permanent Differences

In Schedule 14, Box 5, provide descriptions and workings of items recorded in the asterisked categories in Schedule 5a(i).

### 5a(iii): Amortisation of Initial Difference in Asset Values

(\$000)

36	Opening unamortised initial differences in asset values	68,042	
37	<i>less</i> Amortisation of initial differences in asset values	2,193	
38	<i>plus</i> Adjustment for unamortised initial differences in assets acquired	-	
39	<i>less</i> Adjustment for unamortised initial differences in assets disposed	269	
40	Closing unamortised initial differences in asset values		65,581
41			
42	Opening weighted average remaining useful life of relevant assets (years)		31
43			

Company Name **Electricity Ashburton Limited**  
 For Year Ended **31/03/2016**

**SCHEDULE 5a: REPORT ON REGULATORY TAX ALLOWANCE**

This schedule requires information on the calculation of the regulatory tax allowance. This information is used to calculate regulatory profit/loss in Schedule 3 (regulatory profit). EDBs must provide explanatory commentary on the information disclosed in this schedule, in Schedule 14 (Mandatory Explanatory Notes).

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sch ref

44	<b>5a(iv): Amortisation of Revaluations</b>		<b>(\$000)</b>
45			
46	Opening sum of RAB values without revaluations	213,873	
47			
48	Adjusted depreciation	7,122	
49	Total depreciation	7,616	
50	Amortisation of revaluations		494
51			
52	<b>5a(v): Reconciliation of Tax Losses</b>		<b>(\$000)</b>
53			
54	Opening tax losses	-	
55	plus Current period tax losses	-	
56	less Utilised tax losses	-	
57	Closing tax losses		-
58	<b>5a(vi): Calculation of Deferred Tax Balance</b>		<b>(\$000)</b>
59			
60	Opening deferred tax	(7,930)	
61			
62	plus Tax effect of adjusted depreciation	1,994	
63			
64	less Tax effect of tax depreciation	2,919	
65			
66	plus Tax effect of other temporary differences*	48	
67			
68	less Tax effect of amortisation of initial differences in asset values	614	
69			
70	plus Deferred tax balance relating to assets acquired in the disclosure year	-	
71			
72	less Deferred tax balance relating to assets disposed in the disclosure year	(16)	
73			
74	plus Deferred tax cost allocation adjustment	0	
75			
76	Closing deferred tax		(9,405)
77			
78	<b>5a(vii): Disclosure of Temporary Differences</b>		
79	<i>In Schedule 14, Box 6, provide descriptions and workings of items recorded in the asterisked category in Schedule 5a(vi) (Tax effect of other temporary differences).</i>		
80			
81	<b>5a(viii): Regulatory Tax Asset Base Roll-Forward</b>		
82			<b>(\$000)</b>
83	Opening sum of regulatory tax asset values	117,226	
84	less Tax depreciation	10,424	
85	plus Regulatory tax asset value of assets commissioned	17,848	
86	less Regulatory tax asset value of asset disposals	272	
87	plus Lost and found assets adjustment	-	
88	plus Adjustment resulting from asset allocation	-	
89	plus Other adjustments to the RAB tax value	-	
90	Closing sum of regulatory tax asset values		124,378

Company Name **Electricity Ashburton Limited**  
 For Year Ended **31/03/2016**

**SCHEDULE 5b: REPORT ON RELATED PARTY TRANSACTIONS**

This schedule provides information on the valuation of related party transactions, in accordance with section 2.3.6 and 2.3.7 of the ID determination.  
 This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

**7 5b(i): Summary—Related Party Transactions**

	(\$000)
8 Total regulatory income	
9 Operational expenditure	2,867
10 Capital expenditure	18,458
11 Market value of asset disposals	
12 Other related party transactions	

**13 5b(ii): Entities Involved in Related Party Transactions**

Name of related party	Related party relationship
14 Ashburton District Council	Significant Shareholder
15 Ashburton Contracting Limited	A subsidiary of Ashburton District Council
16 EA Networks Contracting	Contracting arm of EA Networks
17 EA Networks Fibre	Fibre Arm of EA Networks
18	
19	

\* include additional rows if needed

**21 5b(iii): Related Party Transactions**

Name of related party	Related party transaction type	Description of transaction	Value of transaction (\$000)	Basis for determining value
22 Ashburton District Council	Opex	Rates	229	ID clause 2.3.6(1)(a)
23 Ashburton District Council	Opex	Sundry Items	23	ID clause 2.3.6(1)(a)
24	[Select one]			[Select one]
25 EA Network Fibre	Opex	Communication network - use of system rental	753	ID clause 2.3.6(1)(f)
26	[Select one]			[Select one]
27 EA Networks Contracting	Opex	Maintenance of Distribution System	919	ID clause 2.3.6(1)(b)
28 EA Networks Contracting	Opex	Non-network Maintenance	127	ID clause 2.3.6(1)(a)
29 EA Networks Contracting	Opex	Fault Maintenance	609	ID clause 2.3.6(1)(b)
30 EA Networks Contracting	Capex	Construction of RAB Assets	17,577	IM clause 2.2.11(5)(b)(i)
31 EA Networks Contracting	Opex	Tree Management	180	ID clause 2.3.6(1)(b)
32	[Select one]			[Select one]
33 Ashburton Contracting Limited	Opex	Maintenance of Distribution System	20	ID clause 2.3.6(1)(c)(i)
34 Ashburton Contracting Limited	Opex	Non-network Maintenance	7	ID clause 2.3.6(1)(c)(i)
35 Ashburton Contracting Limited	Capex	Construction of RAB Assets	881	IM clause 2.2.11(5)(g)
36	[Select one]			[Select one]
37				

\* include additional rows if needed

Company Name **Electricity Ashburton Limited**  
 For Year Ended **31/03/2016**

**SCHEDULE 5c: REPORT ON TERM CREDIT SPREAD DIFFERENTIAL ALLOWANCE**

This schedule is only to be completed if, as at the date of the most recently published financial statements, the weighted average original tenor of the debt portfolio (both qualifying debt and non-qualifying debt) is greater than five years.  
 This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

**5c(i): Qualifying Debt (may be Commission only)**

Issuing party	Issue date	Pricing date	Original tenor (in years)	Coupon rate (%)	Book value at issue date (NZD)	Book value at date of financial statements (NZD)	Term Credit Spread Difference	Cost of executing an interest rate swap	Debt issue cost readjustment
* include additional rows if needed						-	-	-	-

**5c(ii): Attribution of Term Credit Spread Differential**

<b>Gross term credit spread differential</b>				-
Total book value of interest bearing debt				
Leverage			44%	
Average opening and closing RAB values				
<b>Attribution Rate (%)</b>				-
<b>Term credit spread differential allowance</b>				-

Company Name **Electricity Ashburton Limited**  
 For Year Ended **31/03/2016**

**SCHEDULE 5d: REPORT ON COST ALLOCATIONS**

This schedule provides information on the allocation of operational costs. EDBs must provide explanatory comment on their cost allocation in Schedule 14 (Mandatory Explanatory Notes), including on the impact of any reclassifications. This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

		Value allocated (\$000s)				
		Arm's length deduction	Electricity distribution services	Non-electricity distribution services	Total	OVABAA allocation increase (\$000s)
7	<b>5d(i): Operating Cost Allocations</b>					
8						
9						
10	<b>Service interruptions and emergencies</b>					
11	Directly attributable		895			
12	Not directly attributable	-	-	-	-	-
13	<b>Total attributable to regulated service</b>		895			
14	<b>Vegetation management</b>					
15	Directly attributable		438			
16	Not directly attributable	-	-	-	-	-
17	<b>Total attributable to regulated service</b>		438			
18	<b>Routine and corrective maintenance and inspection</b>					
19	Directly attributable		619			
20	Not directly attributable	-	-	-	-	-
21	<b>Total attributable to regulated service</b>		619			
22	<b>Asset replacement and renewal</b>					
23	Directly attributable		931			
24	Not directly attributable	-	-	-	-	-
25	<b>Total attributable to regulated service</b>		931			
26	<b>System operations and network support</b>					
27	Directly attributable		3,505			
28	Not directly attributable	-	-	-	-	-
29	<b>Total attributable to regulated service</b>		3,505			
30	<b>Business support</b>					
31	Directly attributable		3,759			
32	Not directly attributable	-	-	-	-	-
33	<b>Total attributable to regulated service</b>		3,759			
34						
35	<b>Operating costs directly attributable</b>		10,147			
36	<b>Operating costs not directly attributable</b>	-	-	-	-	-
37	<b>Operational expenditure</b>		10,147			
38						

Company Name **Electricity Ashburton Limited**  
 For Year Ended **31/03/2016**

**SCHEDULE 5d: REPORT ON COST ALLOCATIONS**

This schedule provides information on the allocation of operational costs. EDBs must provide explanatory comment on their cost allocation in Schedule 14 (Mandatory Explanatory Notes), including on the impact of any reclassifications. This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

39 **5d(ii): Other Cost Allocations**

	(\$000)
40 <b>Pass through and recoverable costs</b>	
41 <b>Pass through costs</b>	
42     Directly attributable	356
43     Not directly attributable	-
44 <b>Total attributable to regulated service</b>	356
45 <b>Recoverable costs</b>	
46     Directly attributable	7,292
47     Not directly attributable	-
48 <b>Total attributable to regulated service</b>	7,292

50 **5d(iii): Changes in Cost Allocations\* †**

		(\$000)	
		CY-1	Current Year (CY)
51 <b>Change in cost allocation 1</b>			
52 Cost category			
53 Original allocator or line items			
54 New allocator or line items			
55		-	-
56 Rationale for change			

		(\$000)	
		CY-1	Current Year (CY)
60 <b>Change in cost allocation 2</b>			
61 Cost category			
62 Original allocator or line items			
63 New allocator or line items			
64		-	-
65 Rationale for change			

		(\$000)	
		CY-1	Current Year (CY)
69 <b>Change in cost allocation 3</b>			
70 Cost category			
71 Original allocator or line items			
72 New allocator or line items			
73		-	-
74 Rationale for change			

78 \* a change in cost allocation must be completed for each cost allocator change that has occurred in the disclosure year. A movement in an allocator metric is not a change in allocator or component.  
 79 † include additional rows if needed

Company Name **Electricity Ashburton Limited**  
 For Year Ended **31/03/2016**

**SCHEDULE 5e: REPORT ON ASSET ALLOCATIONS**

This schedule requires information on the allocation of asset values. This information supports the calculation of the RAB value in Schedule 4. EDBs must provide explanatory comment on their cost allocation in Schedule 14 (Mandatory Explanatory Notes), including on the impact of any changes in asset allocations. This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

5e(i): Regulated Service Asset Values		Value allocated (\$000s)
		Electricity distribution services
<b>Subtransmission lines</b>		
Directly attributable		12,830
Not directly attributable		
<b>Total attributable to regulated service</b>		12,830
<b>Subtransmission cables</b>		
Directly attributable		875
Not directly attributable		
<b>Total attributable to regulated service</b>		875
<b>Zone substations</b>		
Directly attributable		17,996
Not directly attributable		
<b>Total attributable to regulated service</b>		17,996
<b>Distribution and LV lines</b>		
Directly attributable		46,626
Not directly attributable		
<b>Total attributable to regulated service</b>		46,626
<b>Distribution and LV cables</b>		
Directly attributable		54,205
Not directly attributable		
<b>Total attributable to regulated service</b>		54,205
<b>Distribution substations and transformers</b>		
Directly attributable		54,143
Not directly attributable		
<b>Total attributable to regulated service</b>		54,143
<b>Distribution switchgear</b>		
Directly attributable		34,382
Not directly attributable		
<b>Total attributable to regulated service</b>		34,382
<b>Other network assets</b>		
Directly attributable		1,230
Not directly attributable		-
<b>Total attributable to regulated service</b>		1,230
<b>Non-network assets</b>		
Directly attributable		14,971
Not directly attributable		-
<b>Total attributable to regulated service</b>		14,971
<b>Regulated service asset value directly attributable</b>		237,258
<b>Regulated service asset value not directly attributable</b>		-
<b>Total closing RAB value</b>		237,258

5e(ii): Changes in Asset Allocations* †		(\$000)	
		CY-1	Current Year (CY)
<b>Change in asset value allocation 1</b>			
Asset category			
Original allocator or line items			
New allocator or line items			
		-	-
Rationale for change			
<b>Change in asset value allocation 2</b>			
Asset category			
Original allocator or line items			
New allocator or line items			
		-	-
Rationale for change			
<b>Change in asset value allocation 3</b>			
Asset category			
Original allocator or line items			
New allocator or line items			
		-	-
Rationale for change			

\* a change in asset allocation must be completed for each allocator or component change that has occurred in the disclosure year. A movement in an allocator metric is not a change in allocator or compone  
 † include additional rows if needed

Company Name **Electricity Ashburton Limited**  
 For Year Ended **31/03/2016**

**SCHEDULE 6a: REPORT ON CAPITAL EXPENDITURE FOR THE DISCLOSURE YEAR**

This schedule requires a breakdown of capital expenditure on assets incurred in the disclosure year, including any assets in respect of which capital contributions are received, but excluding assets that are vested assets. Information on expenditure on assets must be provided on an accounting accruals basis and must exclude finance costs. EDBs must provide explanatory comment on their expenditure on assets in Schedule 14 (Explanatory Notes to Templates). This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

		(\$000)	(\$000)
7	<b>6a(i): Expenditure on Assets</b>		
8	Consumer connection		3,107
9	System growth		4,841
10	Asset replacement and renewal		8,368
11	Asset relocations		-
12	Reliability, safety and environment:		
13	Quality of supply	2,474	
14	Legislative and regulatory	-	
15	Other reliability, safety and environment	296	
16	<b>Total reliability, safety and environment</b>		2,770
17	<b>Expenditure on network assets</b>		19,086
18	Expenditure on non-network assets		665
19			
20	<b>Expenditure on assets</b>		19,751
21	plus Cost of financing		
22	less Value of capital contributions		1,293
23	plus Value of vested assets		
24			
25	<b>Capital expenditure</b>		18,458
26	<b>6a(ii): Subcomponents of Expenditure on Assets (where known)</b>		(\$000)
27	Energy efficiency and demand side management, reduction of energy losses		
28	Overhead to underground conversion		2,496
29	Research and development		
30	<b>6a(iii): Consumer Connection</b>		
31	<i>Consumer types defined by EDB*</i>	(\$000)	(\$000)
32	Customer connection -Urban	619	
33	Customer connection -Rural LV	159	
34	Customer connection -Rural Transformer	2,115	
35	Customer connection -Other	215	
36	[EDB consumer type]	-	
37	<i>* include additional rows if needed</i>		
38	<b>Consumer connection expenditure</b>		3,107
39			
40	less Capital contributions funding consumer connection expenditure	780	
41	<b>Consumer connection less capital contributions</b>		2,327
42	<b>6a(iv): System Growth and Asset Replacement and Renewal</b>		
43			
44			
45	Subtransmission	-	552
46	Zone substations	724	536
47	Distribution and LV lines	412	860
48	Distribution and LV cables	574	2,887
49	Distribution substations and transformers	2,844	3,390
50	Distribution switchgear	283	143
51	Other network assets	5	-
52	<b>System growth and asset replacement and renewal expenditure</b>	4,841	8,368
53	less Capital contributions funding system growth and asset replacement and renewal	16	497
54	<b>System growth and asset replacement and renewal less capital contributions</b>	4,825	7,871
55			
56	<b>6a(v): Asset Relocations</b>		
57	<i>Project or programme*</i>	(\$000)	(\$000)
58	[Description of material project or programme]		
59	[Description of material project or programme]		
60	[Description of material project or programme]		
61	[Description of material project or programme]		
62	[Description of material project or programme]		
63	<i>* include additional rows if needed</i>		
64	All other projects or programmes - asset relocations		
65	<b>Asset relocations expenditure</b>		-
66	less Capital contributions funding asset relocations		
67	<b>Asset relocations less capital contributions</b>		-

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**SCHEDULE 6a: REPORT ON CAPITAL EXPENDITURE FOR THE DISCLOSURE YEAR**

This schedule requires a breakdown of capital expenditure on assets incurred in the disclosure year, including any assets in respect of which capital contributions are received, but excluding assets that are vested assets. Information on expenditure on assets must be provided on an accounting accruals basis and must exclude finance costs. EDBs must provide explanatory comment on their expenditure on assets in Schedule 14 (Explanatory Notes to Templates). This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

68				
69	<b>6a(vi): Quality of Supply</b>			
70	<i>Project or programme*</i>		(\$000)	(\$000)
73	Ashburton Hospital Replace Lucy Switch		35	
	Methven 10MVA 11/22kV Transformer		402	
	TIN New 66kV Zone Substation - Civil Works		593	
	TIN New 66kV Zone Substation - Structural/Electrical		-	
	PDS ZONE Substation - T1/T2 Firewall		-	
	RMU Control Cubicles - Manufacture		32	
	Rakaia 22 Security. Railway Tec East to Mackie Street		208	
	RMUs For Existing Overhead Networks		685	
	SCADA Control and Status of Pole-top Devices		-	
	SF6 Load Break Switch - Control Cubicle		32	
	Advanced Feeder Automation		-	
	Data Radio Links Deployment		18	
	Rawles Crossing Road - Timaru Track, New 22kV OH Line, Section 3		169	
	Protection Relay Upgrade - Stage 2 (transformer)		136	
75	all other projects		164	
76	<i>* include additional rows if needed</i>			
77	All other projects programmes - quality of supply			
78	<b>Quality of supply expenditure</b>			2,474
79	less Capital contributions funding quality of supply			
80	<b>Quality of supply less capital contributions</b>			2,474
81	<b>6a(vii): Legislative and Regulatory</b>			
82	<i>Project or programme*</i>		(\$000)	(\$000)
83	[Description of material project or programme]			
84	[Description of material project or programme]			
85	[Description of material project or programme]			
86	[Description of material project or programme]			
87	[Description of material project or programme]			
88	<i>* include additional rows if needed</i>			
89	All other projects or programmes - legislative and regulatory			
90	<b>Legislative and regulatory expenditure</b>			-
91	less Capital contributions funding legislative and regulatory			
92	<b>Legislative and regulatory less capital contributions</b>			-
93	<b>6a(viii): Other Reliability, Safety and Environment</b>			
94	<i>Project or programme*</i>		(\$000)	(\$000)
95	Install RMU		140	
96	AMP - Substation Security Access Control		95	
97	Investigation of capacitive effects of network assets		10	
98	Unscheduled Other Reliability, Safety and Environment		50	
99				
100	<i>* include additional rows if needed</i>			
101	All other projects or programmes - other reliability, safety and environment			
102	<b>Other reliability, safety and environment expenditure</b>			296
103	less Capital contributions funding other reliability, safety and environment			
104	<b>Other reliability, safety and environment less capital contributions</b>			296
105				
106	<b>6a(ix): Non-Network Assets</b>			
107	<b>Routine expenditure</b>			
108	<i>Project or programme*</i>		(\$000)	(\$000)
109	Non-Network - Routine Plant		137	
110	Non-Network - Routine Info Tec		125	
111	Replacement Vehicles		124	
113				
114	<i>* include additional rows if needed</i>			
115	All other projects or programmes - routine expenditure			
116	<b>Routine expenditure</b>			385
117	<b>Atypical expenditure</b>			
118	<i>Project or programme*</i>		(\$000)	(\$000)
119	Office Building Alterations/Improvements		6	
	Primary Test system for MV and HV Equipment		74	
	Mobility/LTE Trail		1	
	Methven (MVN) Control Room		0	

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 For Year Ended **31/03/2016**

**SCHEDULE 6a: REPORT ON CAPITAL EXPENDITURE FOR THE DISCLOSURE YEAR**

This schedule requires a breakdown of capital expenditure on assets incurred in the disclosure year, including any assets in respect of which capital contributions are received, but excluding assets that are vested assets. Information on expenditure on assets must be provided on an accounting accruals basis and must exclude finance costs. EDBs must provide explanatory comment on their expenditure on assets in Schedule 14 (Explanatory Notes to Templates). This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref			
	Infrared Thermal Camera		45
	Survey GPS Unit		0
	Electricity Billing Engine and CRM System		1
	Business Intelligence System		99
	Unplanned software investment		45
122	Solar research		9
123	[Description of material project or programme]		-
124	<i>* include additional rows if needed</i>		
125	All other projects or programmes - atypical expenditure		
126	<b>Atypical expenditure</b>		<b>280</b>
127			
128	<b>Expenditure on non-network assets</b>		<b>665</b>

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 For Year Ended **31/03/2016**

**SCHEDULE 6b: REPORT ON OPERATIONAL EXPENDITURE FOR THE DISCLOSURE YEAR**

This schedule requires a breakdown of operational expenditure incurred in the disclosure year.

EDBs must provide explanatory comment on their operational expenditure in Schedule 14 (Explanatory notes to templates). This includes explanatory comment on any atypical operational expenditure and assets replaced or renewed as part of asset replacement and renewal operational expenditure, and additional information on insurance.

This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

		(\$000)	(\$000)
7	<b>6b(i): Operational Expenditure</b>		
8	Service interruptions and emergencies	895	
9	Vegetation management	438	
10	Routine and corrective maintenance and inspection	619	
11	Asset replacement and renewal	931	
12	<b>Network opex</b>		2,883
13	System operations and network support	3,505	
14	Business support	3,759	
15	<b>Non-network opex</b>		7,264
16			
17	<b>Operational expenditure</b>		10,147
18	<b>6b(ii): Subcomponents of Operational Expenditure (where known)</b>		
19	Energy efficiency and demand side management, reduction of energy losses		23
20	Direct billing*		-
21	Research and development		-
22	Insurance		155
23	* Direct billing expenditure by suppliers that directly bill the majority of their consumers		

Company Name **Electricity Ashburton Limited**  
For Year Ended **31/03/2016**

## SCHEDULE 7: COMPARISON OF FORECASTS TO ACTUAL EXPENDITURE

This schedule compares actual revenue and expenditure to the previous forecasts that were made for the disclosure year. Accordingly, this schedule requires the forecast revenue and expenditure information from previous disclosures to be inserted.

EDBs must provide explanatory comment on the variance between actual and target revenue and forecast expenditure in Schedule 14 (Mandatory Explanatory Notes). This information is part of the audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8. For the purpose of this audit, target revenue and forecast expenditures only need to be verified back to previous disclosures.

sch ref

	Target (\$000) <sup>1</sup>	Actual (\$000)	% variance
<b>7(i): Revenue</b>			
Line charge revenue	41,963	40,865	(3%)
<b>7(ii): Expenditure on Assets</b>	<b>Forecast (\$000) <sup>2</sup></b>	<b>Actual (\$000)</b>	<b>% variance</b>
Consumer connection	4,268	3,107	(27%)
System growth	3,245	4,841	49%
Asset replacement and renewal	8,150	8,368	3%
Asset relocations	54	–	(100%)
Reliability, safety and environment:			
Quality of supply	2,584	2,474	(4%)
Legislative and regulatory		–	–
Other reliability, safety and environment	85	296	249%
<b>Total reliability, safety and environment</b>	<b>2,669</b>	<b>2,770</b>	<b>4%</b>
<b>Expenditure on network assets</b>	<b>18,386</b>	<b>19,086</b>	<b>4%</b>
Expenditure on non-network assets	1,559	665	(57%)
Expenditure on assets	19,945	19,751	(1%)
<b>7(iii): Operational Expenditure</b>			
Service interruptions and emergencies	845	895	6%
Vegetation management	448	438	(2%)
Routine and corrective maintenance and inspection	600	619	3%
Asset replacement and renewal	772	931	21%
<b>Network opex</b>	<b>2,665</b>	<b>2,883</b>	<b>8%</b>
System operations and network support	3,550	3,505	(1%)
Business support	4,005	3,759	(6%)
<b>Non-network opex</b>	<b>7,555</b>	<b>7,264</b>	<b>(4%)</b>
<b>Operational expenditure</b>	<b>10,220</b>	<b>10,147</b>	<b>(1%)</b>
<b>7(iv): Subcomponents of Expenditure on Assets (where known)</b>			
Energy efficiency and demand side management, reduction of energy losses		–	–
Overhead to underground conversion	4,487	2,496	(44%)
Research and development		–	–
<b>7(v): Subcomponents of Operational Expenditure (where known)</b>			
Energy efficiency and demand side management, reduction of energy losses	13	23	81%
Direct billing		–	–
Research and development		–	–
Insurance	169	155	(8%)

<sup>1</sup> From the nominal dollar target revenue for the disclosure year disclosed under clause 2.4.3(3) of this determination

<sup>2</sup> From the CY+1 nominal dollar expenditure forecasts disclosed in accordance with clause 2.6.6 for the forecast period starting at the beginning of the disclosure year (the second to last disclosure of Schedules 11a and 11b)

**SCHEDULE 8: REPORT ON BILLED QUANTITIES AND LINE CHARGE REVENUES**

This schedule requires the billed quantities and associated line charge revenues for each price category code used by the EDB in its pricing schedules. Information is also required on the number of ICPs that are included in each consumer group or price category code, and the energy delivered to these ICPs.

**8(i): Billed Quantities by Price Component**

					Billed quantities by price component																		
Consumer group name or price category code	Consumer type or types (eg, residential, commercial etc.)	non-standard consumer group (specify)	Average no. of ICPs in disclosure year	delivered to ICPs in disclosure year (MWh)	Price component	Unit charging basis (eg, days, kW of demand, kVA of capacity, etc.)	General Supply	Uncontrolled Energy	Controlled Off-Peak Energy	Night Boost 10	Under Verandah	Floodlight	Generation Credit	Connected kW	Connected kW	Industrial MD	Industrial Peak MD	Industrial Anytime MD	Large User Fixed	Large User MD	Large User Connected kW	Streetlighting	
							per day	per kWh	per kWh	per kWh	per day	per day	per kWh	per kW day	per kW	per kVA per month	per kVA per month	per kVA per month	per month	per kVA per month	per kW day	per fitting per day	
General Supply - 20 kVA	General	Standard	14,685	124,135			14,818	89,201,216	29,457,615	849,566	42	4	77,002	-	-	-	-	-	-	-	-	-	-
General Supply - 50 kVA	General	Standard	1,535	37,434			1,542	34,247,152	2,264,549	94,195	8	3	1,200	-	-	-	-	-	-	-	-	-	-
General Supply - 100 kVA	General	Standard	642	56,222			644	55,195,687	815,858	8,761	2	3	-	-	-	-	-	-	-	-	-	-	-
General Supply - 150 kVA	General	Standard	245	39,446			242	38,947,115	449,118	-	1	-	4,543	-	-	-	-	-	-	-	-	-	-
General Supply - less than 5 kVA	General	Standard	45	-			44	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Irrigation	Irrigation	Standard	1,563	232,767			-	-	-	-	-	-	-	133,160	14,521	-	-	-	-	-	-	-	-
Industrial 400V Supply - kVA	Industrial	Standard	40	51,595			-	-	-	-	-	1	-	-	-	12,146	-	-	-	-	-	-	-
Direct Supply - Day Demand	Industrial	Standard	1	1,481			-	-	-	-	-	-	-	-	-	290	-	-	-	-	-	-	-
Direct Supply - Peak Demand	Industrial	Standard	3	1,628			-	-	-	-	-	-	-	-	-	-	472	753	-	-	-	-	-
CMP	Large User	Standard	1	35,108			-	-	-	-	-	-	-	-	-	-	-	-	1	6,239	-	-	-
Silver Fern Farms	Large User	Standard	1	9,667			-	-	-	-	-	-	-	-	-	-	-	-	1	2,419	-	-	-
Mt Hutt Ski Area	Large User	Standard	1	2,265			-	-	-	-	-	-	-	-	-	-	-	-	1	910	-	-	-
Highbank Pumps	Large User	Standard	1	9,380			-	-	-	-	-	-	-	-	-	-	-	-	-	-	9,626	-	-
Highbank Generation	Generation	Standard	1	-			-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
Montalto Generation	Generation	Standard	1	-			-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
Cleardale Generation	Generation	Standard	1	-			-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
Lavington Generation	Generation	Standard	0	-			-	-	-	-	-	-	-	-	-	-	-	-	0	-	-	-	-
Street Lighting	Street Lighting	Standard	8	1,639			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3,160
<b>Standard consumer totals</b>			18,774	602,769			17,291	217,591,171	32,987,140	952,522	53	10	82,746	133,160	14,521	12,436	472	753	6	9,567	9,626	-	3,160
<b>Non-standard consumer totals</b>			-	-			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total for all consumers</b>			18,774	602,769			17,291	217,591,171	32,987,140	952,522	53	10	82,746	133,160	14,521	12,436	472	753	6	9,567	9,626	-	3,160



Company Name	<b>Electricity Ashburton Limited</b>
For Year Ended	<b>31/03/2016</b>
Network / Sub-network Name	<b>Total Network</b>

**SCHEDULE 9a: ASSET REGISTER**

This schedule requires a summary of the quantity of assets that make up the network, by asset category and asset class. All units relating to cable and line assets, that are expressed in km, refer to circuit lengths.

sch ref

sch ref	Voltage	Asset category	Asset class	Units	Items at start of	Items at end of	Net change	Data accuracy
					year (quantity)	year (quantity)		(1-4)
8	All	Overhead Line	Concrete poles / steel structure	No.	2,670	2,539	(131)	4
9	All	Overhead Line	Wood poles	No.	26,716	26,485	(231)	4
10	All	Overhead Line	Other pole types	No.	-	-	-	N/A
11	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	390	390	0	4
12	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km	-	-	-	N/A
13	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km	7	7	0	4
14	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km	-	-	-	N/A
15	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressurised)	km	-	-	-	N/A
16	HV	Subtransmission Cable	Subtransmission UG up to 66kV (PILC)	km	-	-	-	N/A
17	HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	km	-	-	-	N/A
18	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Oil pressurised)	km	-	-	-	N/A
19	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Gas Pressurised)	km	-	-	-	N/A
20	HV	Subtransmission Cable	Subtransmission UG 110kV+ (PILC)	km	-	-	-	N/A
21	HV	Subtransmission Cable	Subtransmission submarine cable	km	-	-	-	N/A
22	HV	Zone substation Buildings	Zone substations up to 66kV	No.	24	21	(3)	3
23	HV	Zone substation Buildings	Zone substations 110kV+	No.	-	-	-	N/A
24	HV	Zone substation switchgear	50/66/110kV CB (Indoor)	No.	-	-	-	N/A
25	HV	Zone substation switchgear	50/66/110kV CB (Outdoor)	No.	48	48	-	3
26	HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No.	129	131	2	3
27	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.	29	22	(7)	3
28	HV	Zone substation switchgear	33kV RMU	No.	-	-	-	N/A
29	HV	Zone substation switchgear	22/33kV CB (Indoor)	No.	-	-	-	N/A
30	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.	36	37	1	3
31	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.	169	165	(4)	3
32	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.	-	-	-	N/A
33	HV	Zone Substation Transformer	Zone Substation Transformers	No.	28	28	-	3
34	HV	Distribution Line	Distribution OH Open Wire Conductor	km	1,994	1,979	(15)	3
35	HV	Distribution Line	Distribution OH Aerial Cable Conductor	km	-	-	-	N/A
36	HV	Distribution Line	SWER conductor	km	-	-	-	N/A
37	HV	Distribution Cable	Distribution UG XLPE or PVC	km	196	215	19	3
38	HV	Distribution Cable	Distribution UG PILC	km	4	4	(0)	3
39	HV	Distribution Cable	Distribution Submarine Cable	km	-	-	-	N/A
40	HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers	No.	28	25	(3)	3
41	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.	-	-	-	N/A
42	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	7,737	7,655	(82)	2
43	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	174	190	16	2
44	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.	398	412	14	3
45	HV	Distribution Transformer	Pole Mounted Transformer	No.	4,747	4,722	(25)	3
46	HV	Distribution Transformer	Ground Mounted Transformer	No.	2,101	2,446	345	3
47	HV	Distribution Transformer	Voltage regulators	No.	3	3	-	3
48	HV	Distribution Substations	Ground Mounted Substation Housing	No.	365	368	3	2
49	LV	LV Line	LV OH Conductor	km	101	98	(3)	2
50	LV	LV Cable	LV UG Cable	km	320	331	11	3
51	LV	LV Street lighting	LV OH/UG Streetlight circuit	km	272	276	4	3
52	LV	Connections	OH/UG consumer service connections	No.	19,027	19,253	226	3
53	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.	145	153	8	1
54	All	SCADA and communications	SCADA and communications equipment operating as a single system	Lot	1	1	-	2
55	All	Capacitor Banks	Capacitors including controls	No.	-	-	-	N/A
56	All	Load Control	Centralised plant	Lot	3	3	-	3
57	All	Load Control	Relays	No.	343	354	11	1
58	All	Civils	Cable Tunnels	km	-	-	-	N/A



Company Name	Electricity Ashburton Limited
For Year Ended	31/03/2016
Network / Sub-network Name	Total Network

**SCHEDULE 9c: REPORT ON OVERHEAD LINES AND UNDERGROUND CABLES**

This schedule requires a summary of the key characteristics of the overhead line and underground cable network. All units relating to cable and line assets, that are expressed in km, refer to circuit lengths.

sch ref

9			
10	<b>Circuit length by operating voltage (at year end)</b>	<b>Overhead (km)</b>	<b>Underground (km)</b>
11	> 66kV	–	–
12	50kV & 66kV	285	2
13	33kV	105	5
14	SWER (all SWER voltages)	–	–
15	22kV (other than SWER)	1,207	62
16	6.6kV to 11kV (inclusive—other than SWER)	773	157
17	Low voltage (< 1kV)	98	331
18	<b>Total circuit length (for supply)</b>	<b>2,468</b>	<b>557</b>
19			<b>Total circuit length (km)</b>
20	Dedicated street lighting circuit length (km)	32	276
21	Circuit in sensitive areas (conservation areas, iwi territory etc) (km)		–
22			
23	<b>Overhead circuit length by terrain (at year end)</b>	<b>Circuit length (km)</b>	<b>(% of total overhead length)</b>
24	Urban	115	5%
25	Rural	2,298	93%
26	Remote only	55	2%
27	Rugged only	–	–
28	Remote and rugged	–	–
29	Unallocated overhead lines	–	–
30	<b>Total overhead length</b>	<b>2,468</b>	<b>100%</b>
31			
32		<b>Circuit length (km)</b>	<b>(% of total circuit length)</b>
33	Length of circuit within 10km of coastline or geothermal areas (where known)	467	15%
34		<b>Circuit length (km)</b>	<b>(% of total overhead length)</b>
35	Overhead circuit requiring vegetation management	2,468	100%

Company Name **Electricity Ashburton Limited**  
 For Year Ended **31/03/2016**

**SCHEDULE 9d: REPORT ON EMBEDDED NETWORKS**

This schedule requires information concerning embedded networks owned by an EDB that are embedded in another EDB's network or in another embedded network.

sch ref

	Location *	Number of ICPs served	Line charge revenue (\$000)
8			
9	Upper Rakaia on Orion Network	13	17
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			

\* Extend embedded distribution networks table as necessary to disclose each embedded network owned by the EDB which is embedded in another EDB's network or in another embedded network

Company Name	Electricity Ashburton Limited
For Year Ended	31/03/2016
Network / Sub-network Name	Total Network

**SCHEDULE 9e: REPORT ON NETWORK DEMAND**

This schedule requires a summary of the key measures of network utilisation for the disclosure year (number of new connections including distributed generation, peak demand and electricity volumes conveyed).

sch ref

8	<b>9e(i): Consumer Connections</b>		
9	Number of ICPs connected in year by consumer type		
10			
11	Consumer types defined by EDB*		<b>Number of connections (ICPs)</b>
12	General		262
13	Irrigation		50
14	Industrial		(2)
15	Large Generation		1
16	* include additional rows if needed		
17	<b>Connections total</b>		<b>311</b>
18			
19	<b>Distributed generation</b>		
20	Number of connections made in year	16	connections
21	Capacity of distributed generation installed in year	0.59	MVA
22	<b>9e(ii): System Demand</b>		
23			
24			<b>Demand at time of maximum coincident demand (MW)</b>
25	<b>Maximum coincident system demand</b>		
26	GXP demand	176	
27	plus Distributed generation output at HV and above	1	
28	<b>Maximum coincident system demand</b>	<b>177</b>	
29	less Net transfers to (from) other EDBs at HV and above	(0)	
30	<b>Demand on system for supply to consumers' connection points</b>	<b>177</b>	
31	<b>Electricity volumes carried</b>		<b>Energy (GWh)</b>
32	Electricity supplied from GXPs	569	
33	less Electricity exports to GXPs	1	
34	plus Electricity supplied from distributed generation	108	
35	less Net electricity supplied to (from) other EDBs	(0)	
36	<b>Electricity entering system for supply to consumers' connection points</b>	<b>676</b>	
37	less Total energy delivered to ICPs	603	
38	<b>Electricity losses (loss ratio)</b>	<b>74</b>	<b>10.9%</b>
39			
40	<b>Load factor</b>	<b>0.44</b>	
41	<b>9e(iii): Transformer Capacity</b>		
42			<b>(MVA)</b>
43	Distribution transformer capacity (EDB owned)	548	
44	Distribution transformer capacity (Non-EDB owned, estimated)	13	
45	<b>Total distribution transformer capacity</b>	<b>561</b>	
46			
47	<b>Zone substation transformer capacity</b>	<b>335</b>	

Company Name	Electricity Ashburton Limited
For Year Ended	31/03/2016
Network / Sub-network Name	Total Network

### SCHEDULE 10: REPORT ON NETWORK RELIABILITY

This schedule requires a summary of the key measures of network reliability (interruptions, SAIDI, SAIFI and fault rate) for the disclosure year. EDBs must provide explanatory comment on their network reliability for the disclosure year in Schedule 14 (Explanatory notes to templates). The SAIFI and SAIDI information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

8	<b>10(i): Interruptions</b>		
9	<b>Interruptions by class</b>	<b>Number of interruptions</b>	
10	Class A (planned interruptions by Transpower)	-	
11	Class B (planned interruptions on the network)	170	
12	Class C (unplanned interruptions on the network)	253	
13	Class D (unplanned interruptions by Transpower)	-	
14	Class E (unplanned interruptions of EDB owned generation)	-	
15	Class F (unplanned interruptions of generation owned by others)	2	
16	Class G (unplanned interruptions caused by another disclosing entity)	-	
17	Class H (planned interruptions caused by another disclosing entity)	-	
18	Class I (interruptions caused by parties not included above)	-	
19	<b>Total</b>	<b>425</b>	
20			
21	<b>Interruption restoration</b>	<b>≤3Hrs</b>	<b>&gt;3hrs</b>
22	Class C interruptions restored within	194	59
23			
24	<b>SAIFI and SAIDI by class</b>	<b>SAIFI</b>	<b>SAIDI</b>
25	Class A (planned interruptions by Transpower)	-	-
26	Class B (planned interruptions on the network)	0.27	78
27	Class C (unplanned interruptions on the network)	1.09	167
28	Class D (unplanned interruptions by Transpower)	-	-
29	Class E (unplanned interruptions of EDB owned generation)	-	-
30	Class F (unplanned interruptions of generation owned by others)	0.03	2
31	Class G (unplanned interruptions caused by another disclosing entity)	-	-
32	Class H (planned interruptions caused by another disclosing entity)	-	-
33	Class I (interruptions caused by parties not included above)	-	-
34	<b>Total</b>	<b>1.39</b>	<b>248</b>
35			
36	<b>Normalised SAIFI and SAIDI</b>	<b>Normalised SAIFI</b>	<b>Normalised SAIDI</b>
37	Classes B & C (interruptions on the network)	1.36	189
38	<sup>1</sup> Classes B & C (Assessed values for Default Price-Quality Path Determination)	1.23	126
	<sup>‡</sup> Assessed value are applicable to reliability limits		
39	<b>Quality path normalised reliability limit</b>	<b>SAIFI reliability limit</b>	<b>SAIDI reliability limit</b>
40	SAIFI and SAIDI limits applicable to disclosure year*	1.61	151
41	* not applicable to exempt EDBs		

Company Name	Electricity Ashburton Limited
For Year Ended	31/03/2016
Network / Sub-network Name	Total Network

**SCHEDULE 10: REPORT ON NETWORK RELIABILITY**

This schedule requires a summary of the key measures of network reliability (interruptions, SAIDI, SAIFI and fault rate) for the disclosure year. EDBs must provide explanatory comment on their network reliability for the disclosure year in Schedule 14 (Explanatory notes to templates). The SAIFI and SAIDI information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

**10(ii): Class C Interruptions and Duration by Cause**

Cause	SAIFI	SAIDI
Lightning	0.03	2
Vegetation	0.07	9
Adverse weather	0.05	19
Adverse environment	0.01	1
Third party interference	0.16	12
Wildlife	–	–
Human error	0.12	2
Defective equipment	0.50	102
Cause unknown	0.15	20

**10(iii): Class B Interruptions and Duration by Main Equipment Involved**

Main equipment involved	SAIFI	SAIDI
Subtransmission lines	0.04	14
Subtransmission cables	–	–
Subtransmission other	–	–
Distribution lines (excluding LV)	0.18	48
Distribution cables (excluding LV)	0.05	16
Distribution other (excluding LV)	–	–

**10(iv): Class C Interruptions and Duration by Main Equipment Involved**

Main equipment involved	SAIFI	SAIDI
Subtransmission lines	0.09	7
Subtransmission cables	0.07	1
Subtransmission other	–	–
Distribution lines (excluding LV)	0.91	157
Distribution cables (excluding LV)	0.01	1
Distribution other (excluding LV)	0.01	0

**10(v): Fault Rate**

Main equipment involved	Number of Faults	Circuit length (km)	Fault rate (faults per 100km)
Subtransmission lines	8	390	2.05
Subtransmission cables	1	7	15.15
Subtransmission other	–	–	–
Distribution lines (excluding LV)	307	1,979	15.51
Distribution cables (excluding LV)	6	219	2.74
Distribution other (excluding LV)	4	–	–
<b>Total</b>	<b>326</b>		