



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

Company Name	Alpine Energy Limited
Disclosure Date	30 November 2023
Disclosure Year (year ended)	31 March 2016

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

Table of Contents

Schedule	Schedule name
1	<u>ANALYTICAL RATIOS</u>
2	<u>REPORT ON RETURN ON INVESTMENT</u>
3	<u>REPORT ON REGULATORY PROFIT</u>
4	<u>REPORT ON VALUE OF THE REGULATORY ASSET BASE (ROLLED FORWARD)</u>
5a	<u>REPORT ON REGULATORY TAX ALLOWANCE</u>
5b	<u>REPORT ON RELATED PARTY TRANSACTIONS</u>
5c	<u>REPORT ON TERM CREDIT SPREAD DIFFERENTIAL ALLOWANCE</u>
5d	<u>REPORT ON COST ALLOCATIONS</u>
5e	<u>REPORT ON ASSET ALLOCATIONS</u>
6a	<u>REPORT ON CAPITAL EXPENDITURE FOR THE DISCLOSURE YEAR</u>
6b	<u>REPORT ON OPERATIONAL EXPENDITURE FOR THE DISCLOSURE YEAR</u>
7	<u>COMPARISON OF FORECASTS TO ACTUAL EXPENDITURE</u>
8	<u>REPORT ON BILLED QUANTITIES AND LINE CHARGE REVENUES</u>
9a	<u>ASSET REGISTER</u>
9b	<u>ASSET AGE PROFILE</u>
9c	<u>REPORT ON OVERHEAD LINES AND UNDERGROUND CABLES</u>
9d	<u>REPORT ON EMBEDDED NETWORKS</u>
9e	<u>REPORT ON NETWORK DEMAND</u>
10	<u>REPORT ON NETWORK RELIABILITY</u>

Disclosure Template Instructions

These templates have been prepared for use by EDBs when making disclosures under clauses 2.3.1, 2.4.21, 2.4.22, 2.5.1, and 2.5.2 of the Electricity Distribution Information Disclosure Determination 2012.

Company Name and Dates

To prepare the templates for disclosure, the supplier's company name should be entered in cell C8, the date of the last day of the current (disclosure) year should be entered in cell C12, and the date on which the information is disclosed should be entered in cell C10 of the CoverSheet worksheet.

The cell C12 entry (current year) is used to calculate disclosure years in the column headings that show above some of the tables and in labels adjacent to some entry cells. It is also used to calculate the 'For year ended' date in the template title blocks (the title blocks are the light green shaded areas at the top of each template).

The cell C8 entry (company name) is used in the template title blocks.

Dates should be entered in day/month/year order (Example -"1 April 2013").

Data Entry Cells and Calculated Cells

Data entered into this workbook may be entered only into the data entry cells. Data entry cells are the bordered, unshaded areas (white cells) in each template. Under no circumstances should data be entered into the workbook outside a data entry cell.

In some cases, where the information for disclosure is able to be ascertained from disclosures elsewhere in the workbook, such information is disclosed in a calculated cell.

Validation Settings on Data Entry Cells

To maintain a consistency of format and to help guard against errors in data entry, some data entry cells test keyboard entries for validity and accept only a limited range of values. For example, entries may be limited to a list of category names, to values between 0% and 100%, or either a numeric entry or the text entry "N/A". Where this occurs, a validation message will appear when data is being entered. These checks are applied to keyboard entries only and not, for example, to entries made using Excel's copy and paste facility.

Conditional Formatting Settings on Data Entry Cells

Schedule 2 cells G79 and I79:L79 will change colour if the total cashflows do not equal the corresponding values in table 2(ii).

Schedule 4 cells P99:P105 and P107 will change colour if the RAB values do not equal the corresponding values in table 4(ii).

Schedule 9b columns AA to AE (2013 to 2017) contain conditional formatting. The data entry cells for future years are hidden (are changed from white to yellow).

Schedule 9b cells AG10 to AG60 will change colour if the total assets at year end for each asset class does not equal the corresponding values in column I in Schedule 9a.

Schedule 9c cell G30 will change colour if G30 (overhead circuit length by terrain) does not equal G18 (overhead circuit length by operating voltage).

Inserting Additional Rows and Columns

The templates for schedules 4, 5b, 5c, 5d, 5e, 6a, 8, 9d, and 9e may require additional rows to be inserted in tables marked 'include additional rows if needed' or similar. Column A schedule references should not be entered in additional rows, and should be deleted from additional rows that are created by copying and pasting rows that have schedule references.

Additional rows in schedules 5c, 6a, and 9e must not be inserted directly above the first row or below the last row of a table. This is to ensure that entries made in the new row are included in the totals.

Schedules 5d and 5e may require new cost or asset category rows to be inserted in allocation change tables 5d(iii) and 5e(ii). Accordingly, cell protection has been removed from rows 77 and 78 of the respective templates to allow blocks of rows to be copied. The four steps to add new cost category rows to table 5d(iii) are: Select Excel rows 69:77, copy, select Excel row 78, insert copied cells. Similarly, for table 5e(ii): Select Excel rows 70:78, copy, select Excel row 79, then insert copied cells.

The template for schedule 8 may require additional columns to be inserted between column P and U. To avoid interfering with the title block entries, these should be inserted to the left of column S. If inserting additional columns, the formulas for standard consumers total, non-standard consumers totals and total for all consumers will need to be copied into the cells of the added columns. The formulas can be found in the equivalent cells of the existing columns.

Disclosures by Sub-Network

If the supplier has sub-networks, schedules 8, 9a, 9b, 9c, 9e, and 10 must be completed for the network and for each sub-network. A copy of the schedule worksheet(s) must be made for each sub-network and named accordingly.

Schedule References

The references labelled 'sch ref' in the leftmost column of each template are consistent with the row references in the Electricity Distribution ID Determination 2012 (as issued on 24 March 2015). They provide a common reference between the rows in the determination and the template.

Description of Calculation References

Calculation cell formulas contain links to other cells within the same template or elsewhere in the workbook. Key cell references are described in a column to the right of each template. These descriptions are provided to assist data entry. Cell references refer to the row of the template and not the schedule reference.

Worksheet Completion Sequence

Calculation cells may show an incorrect value until precedent cell entries have been completed. Data entry may be assisted by completing the schedules in the following order:

1. Coversheet
2. Schedules 5a–5e
3. Schedules 6a–6b
4. Schedule 8
5. Schedule 3
6. Schedule 4
7. Schedule 2
8. Schedule 7
9. Schedules 9a–9e
10. Schedule 10

Company Name	Alpine Energy Limited
For Year Ended	31 March 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	1(i): Expenditure metrics				
8					
9		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)
10	Operational expenditure	18,221	462	109,892	3,457
11	Network	8,200	208	49,456	1,556
12	Non-network	10,021	254	60,436	1,901
13	Expenditure on assets	26,029	661	156,983	4,939
14	Network	22,950	582	138,414	4,354
15	Non-network	3,079	78	18,570	584
16					
17	1(ii): Revenue metrics				
18					
19		Revenue per GWh energy delivered to ICPs (\$/GWh)	Revenue per average no. of ICPs (\$/ICP)		
20	Total consumer line charge revenue	64,292	1,632		
21	Standard consumer line charge revenue	74,183	1,469		
22	Non-standard consumer line charge revenue	29,236	434,500		
23					
24	1(iii): Service intensity measures				
25	Demand density	31			Maximum coincident system demand per km of circuit length (for supply) (kW/km)
26	Volume density	190			Total energy delivered to ICPs per km of circuit length (for supply) (MWh/km)
27	Connection point density	7			Average number of ICPs per km of circuit length (for supply) (ICPs/km)
28	Energy intensity	25,377			Total energy delivered to ICPs per average number of ICPs (kWh/ICP)
29					
30	1(iv): Composition of regulatory income				
31					
32				(\$000)	% of revenue
33	Operational expenditure			14,767	28.37%
34	Pass-through and recoverable costs excluding financial incentives and wash-ups			15,993	30.73%
35	Total depreciation			7,000	13.45%
36	Total revaluations			715	1.37%
37	Regulatory tax allowance			3,806	7.31%
38	Regulatory profit/(loss) including financial incentives and wash-ups			11,194	21.51%
39	Total regulatory income			52,044	
40					
41	1(v): Reliability				
42	Interruption rate			9.83	Interruptions per 100 circuit km

Company Name **Alpine Energy Limited**
 For Year Ended **31 March 2016**

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

2(i): Return on Investment		CY-2	CY-1	Current Year CY
		31 Mar 14	31 Mar 15	31 Mar 16
		%	%	%
7	ROI – comparable to a post tax WACC			
8				
9	Reflecting all revenue earned	3.30%	6.72%	5.94%
10	Excluding revenue earned from financial incentives	3.30%	6.72%	5.94%
11	Excluding revenue earned from financial incentives and wash-ups	3.30%	6.72%	3.79%
12				
13				
14	Mid-point estimate of post tax WACC	5.43%	6.10%	5.37%
15	25th percentile estimate	4.71%	5.39%	4.66%
16	75th percentile estimate	6.14%	6.82%	6.09%
17				
18				
19	ROI – comparable to a vanilla WACC			
20	Reflecting all revenue earned	3.99%	7.50%	6.59%
21	Excluding revenue earned from financial incentives	3.99%	7.50%	6.59%
22	Excluding revenue earned from financial incentives and wash-ups	3.99%	7.50%	4.44%
23				
24	WACC rate used to set regulatory price path	8.77%	8.77%	7.19%
25				
26	Mid-point estimate of vanilla WACC	6.11%	6.89%	6.02%
27	25th percentile estimate	5.39%	6.17%	5.30%
28	75th percentile estimate	6.83%	7.60%	6.74%
29				
30	2(ii): Information Supporting the ROI			
31				
32	Total opening RAB value	172,594		
33	plus Opening deferred tax	(3,737)		
34	Opening RIV		168,857	
35				
36	Line charge revenue		52,105	
37				
38	Expenses cash outflow	30,760		
39	add Assets commissioned	11,857		
40	less Asset disposals	87		
41	add Tax payments	1,940		
42	less Other regulated income	(61)		
43	Mid-year net cash outflows		44,531	
44				
45	Term credit spread differential allowance		–	
46				
47	Total closing RAB value	175,913		
48	less Adjustment resulting from asset allocation	(0)		
49	less Lost and found assets adjustment	(2,166)		
50	plus Closing deferred tax	(5,603)		
51	Closing RIV		172,477	
52				
53	ROI – comparable to a vanilla WACC			6.59%
54				
55	Leverage (%)			44%
56	Cost of debt assumption (%)			5.26%
57	Corporate tax rate (%)			28%
58				
59	ROI – comparable to a post tax WACC			5.94%
60			Original	4.92%

Company Name **Alpine Energy Limited**
 For Year Ended **31 March 2016**

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

2(iii): Information Supporting the Monthly ROI

Difference 1.02%

Opening RIV 168,857

	Line charge revenue	Expenses cash outflow	Assets commissioned	Asset disposals	Other regulated income	Monthly net cash outflows
April	4,246	2,541	351	-	(0)	2,892
May	4,157	2,433	1,205	-	8	3,631
June	3,795	3,255	601	-	-	3,856
July	4,191	2,755	334	-	-	3,089
August	4,384	2,170	1,025	-	5	3,189
September	4,580	2,606	515	87	-	3,034
October	3,983	2,583	644	-	-	3,227
November	4,038	2,488	869	-	14	3,344
December	5,086	2,732	7	-	0	2,739
January	5,042	2,174	1,531	-	63	3,643
February	3,980	2,512	759	-	-	3,271
March	4,626	2,512	4,016	-	(150)	6,677
Total	52,105	30,760	11,857	87	(61)	42,591

Tax payments 1,940

Term credit spread differential allowance -

Closing RIV 172,477

Monthly ROI – comparable to a vanilla WACC 6.61%

Monthly ROI – comparable to a post tax WACC 5.96%

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

Year-end ROI – comparable to a vanilla WACC 3.55%

Year-end ROI – comparable to a post tax WACC 2.90%

* 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	-
Financial incentives	-

Impact of financial incentives on ROI -

Input methodology claw-back	2,408
Recoverable customised price-quality path costs	-
Catastrophic event allowance	-
Capex wash-up adjustment	-
Transmission asset wash-up adjustment	-
2013–2015 NPV wash-up allowance	2,576
Reconsideration event allowance	-
Other wash-ups	-

Wash-up costs 4,984

Impact of wash-up costs on ROI 2.14%

Company Name **Alpine Energy Limited**
 For Year Ended **31 March 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.

sch ref

7	3(i): Regulatory Profit	(\$000)
8	Income	
9	Line charge revenue	52,105
10	plus Gains / (losses) on asset disposals	(82)
11	plus Other regulated income (other than gains / (losses) on asset disposals)	21
12		
13	Total regulatory income	52,044
14	Expenses	
15	less Operational expenditure	14,767
16		
17	less Pass-through and recoverable costs excluding financial incentives and wash-ups	15,993
18		
19	Operating surplus / (deficit)	21,284
20		
21	less Total depreciation	7,000
22		
23	plus Total revaluations	715
24		
25	Regulatory profit / (loss) before tax	15,000
26		
27	less Term credit spread differential allowance	-
28		
29	less Regulatory tax allowance	3,806
30		
31	Regulatory profit/(loss) including financial incentives and wash-ups	11,194
32		
33	3(ii): Pass-through and Recoverable Costs excluding Financial Incentives and Wash-Ups	(\$000)
34	Pass through costs	
35	Rates	63
36	Commerce Act levies	54
37	Industry levies	150
38	CPP specified pass through costs	N/A
39	Recoverable costs excluding financial incentives and wash-ups	
40	Electricity lines service charge payable to Transpower	14,019
41	Transpower new investment contract charges	1,707
42	System operator services	-
43	Distributed generation allowance	N/A
44	Extended reserves allowance	N/A
45	Other recoverable costs excluding financial incentives and wash-ups	N/A
46	Pass-through and recoverable costs excluding financial incentives and wash-ups	15,993
47		

Company Name **Alpine Energy Limited**
 For Year Ended **31 March 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.

sch ref

		(\$000)	
		CY-1	CY
		31 Mar 15	31 Mar 16
48	3(iii): Incremental Rolling Incentive Scheme		
49			
50			
51	Allowed controllable opex	N/A	N/A
52	Actual controllable opex	N/A	N/A
53			
54	Incremental change in year		N/A
55			
56		Previous years' incremental change	Previous years' incremental change adjusted for inflation
57	CY-5 31 Mar 11	N/A	N/A
58	CY-4 31 Mar 12	N/A	N/A
59	CY-3 31 Mar 13	N/A	N/A
60	CY-2 31 Mar 14	N/A	N/A
61	CY-1 31 Mar 15	N/A	N/A
62	Net incremental rolling incentive scheme		-
63			
64	Net recoverable costs allowed under incremental rolling incentive scheme		-
65	3(iv): Merger and Acquisition Expenditure		
66			(\$000)
67	Merger and acquisition expenditure		N/A
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	3(v): Other Disclosures		
70			(\$000)
71	Self-insurance allowance		N/A

Company Name **Alpine Energy Limited**
 For Year Ended **31 March 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 31 Mar 12 (\$000)	RAB 31 Mar 13 (\$000)	RAB 31 Mar 14 (\$000)	RAB 31 Mar 15 (\$000)	RAB 31 Mar 16 (\$000)
7	Total opening RAB value	130,854	131,651	153,233	159,366	172,594
11	less Total depreciation	8,949	8,059	7,197	6,204	7,000
14	plus Total revaluations	2,052	1,126	2,347	134	715
16	plus Assets commissioned	7,907	29,132	11,152	18,705	11,857
18	less Asset disposals	213	617	168	225	87
20	plus Lost and found assets adjustment	-	-	-	817	(2,166)
22	plus Adjustment resulting from asset allocation	-	-	-	1	(0)
24	Total closing RAB value	131,651	153,233	159,366	172,594	175,913

4(ii): Unallocated Regulatory Asset Base		Unallocated RAB *		RAB	
		(\$000)	(\$000)	(\$000)	(\$000)
29	Total opening RAB value		172,594		172,594
30	less Total depreciation		7,000		7,000
33	plus Total revaluations		715		715
34	plus				
35	Assets commissioned (other than below)	721		721	
36	Assets acquired from a regulated supplier	-		-	
37	Assets acquired from a related party	11,136		11,136	
38	Assets commissioned		11,857		11,857
39	less				
40	Asset disposals (other than below)	87		87	
41	Asset disposals to a regulated supplier	-		-	
42	Asset disposals to a related party	-		-	
43	Asset disposals		87		87
45	plus Lost and found assets adjustment		(2,166)		(2,166)
47	plus Adjustment resulting from asset allocation				(0)
49	Total closing RAB value		175,914		175,913

* 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 **Alpine Energy Limited**
 For Year Ended **31 March 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

51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75

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

CPI _t	1,198
CPI _{t-4}	1,193
Revaluation rate (%)	0,42%

	Unallocated RAB *		RAB	
	(\$000)	(\$000)	(\$000)	(\$000)
Total opening RAB value	172,594		172,594	
less Opening value of fully depreciated, disposed and lost assets	2,254		2,254	
Total opening RAB value subject to revaluation	170,341		170,340	
Total revaluations		715		715

4(iv): Roll Forward of Works Under Construction

	Unallocated works under construction		Allocated works under construction	
Works under construction—preceding disclosure year		2,428		2,428
plus Capital expenditure	15,264		15,264	
less Assets commissioned	11,857		11,857	
plus Adjustment resulting from asset allocation		-		-
Works under construction - current disclosure year		5,834		5,834
Highest rate of capitalised finance applied				-

Company Name **Alpine Energy Limited**
 For Year Ended **31 March 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	6,305		6,305	
78 Depreciation - no standard life assets	695		695	
79 Depreciation - modified life assets	-		-	
80 Depreciation - alternative depreciation in accordance with CPP	-		-	
81 Total depreciation		7,000		7,000

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
87 N/A	NA			
88				
89				
90				
91				
92				
93				
94				

* 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 Total opening RAB value	12,015	670	32,870	41,853	45,874	22,691	4,859	6,678	5,084	172,594
99 less Total depreciation	525	22	1,128	1,860	1,345	883	207	334	695	7,000
100 plus Total revaluations	51	3	138	179	193	95	20	19	17	715
101 plus Assets commissioned	429	28	3,392	1,763	2,388	869	1,617	712	659	11,857
102 less Asset disposals	0	-	-	0	0	87	-	-	-	87
103 plus Lost and found assets adjustment	-	-	-	-	-	-	-	(2,166)	-	(2,166)
104 plus Adjustment resulting from asset allocation	-	-	-	-	-	-	-	-	-	-
105 plus Asset category transfers	-	-	-	-	-	-	-	-	-	-
106 Total closing RAB value	11,970	678	35,272	41,935	47,110	22,685	6,290	4,909	5,065	175,913
107										
108 Asset Life										
109 Weighted average remaining asset life	35	32	36	30	40	27	37	22	11	(years)
110 Weighted average expected total asset life	51	45	44	53	55	45	43	35	15	(years)
111										



Company Name **Alpine Energy Limited**
 For Year Ended **31 March 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 100.

sch ref

		(\$000)	
7	5a(i): Regulatory Tax Allowance		
8	Regulatory profit / (loss) before tax		15,000
9			
10	<i>plus</i> Income not included in regulatory profit / (loss) before tax but taxable	-	*
11	Expenditure or loss in regulatory profit / (loss) before tax but not deductible	26	*
12	Amortisation of initial differences in asset values	2,711	
13	Amortisation of revaluations	380	
14			3,117
15			
16	<i>less</i> Total revaluations	715	
17	Income included in regulatory profit / (loss) before tax but not taxable	-	*
18	Discretionary discounts and customer rebates	-	*
19	Expenditure or loss deductible but not in regulatory profit / (loss) before tax	-	*
20	Notional deductible interest	3,809	
21			4,525
22			
23	Regulatory taxable income		13,593
24			
25	<i>less</i> Utilised tax losses	-	
26	Regulatory net taxable income		13,593
27			
28	Corporate tax rate (%)	28%	
29	Regulatory tax allowance		3,806

* 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	53,376	
37	<i>less</i> Amortisation of initial differences in asset values	2,711	
38	<i>plus</i> Adjustment for unamortised initial differences in assets acquired	-	
39	<i>less</i> Adjustment for unamortised initial differences in assets disposed	-	
40	Closing unamortised initial differences in asset values		50,665
41			
42	Opening weighted average remaining useful life of relevant assets (years)		19.7

Company Name **Alpine Energy Limited**
 For Year Ended **31 March 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 70

sch ref

44	5a(iv): Amortisation of Revaluations		(\$000)
45			
46	Opening sum of RAB values without revaluations	163,486	
47			
48	Adjusted depreciation	6,620	
49	Total depreciation	7,000	
50	Amortisation of revaluations		380
51			
52	5a(v): Reconciliation of Tax Losses		(\$000)
53			
54	Opening tax losses	-	
55	plus Current period tax losses	-	
56	less Utilised tax losses	-	
57	Closing tax losses		-
58	5a(vi): Calculation of Deferred Tax Balance		(\$000)
59			
60	Opening deferred tax	(3,737)	
61			
62	plus Tax effect of adjusted depreciation	1,854	
63			
64	less Tax effect of tax depreciation	2,986	
65			
66	plus Tax effect of other temporary differences*	25	
67			
68	less Tax effect of amortisation of initial differences in asset values	759	
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	-	
73			
74	plus Deferred tax cost allocation adjustment	-	
75			
76	Closing deferred tax		(5,603)
77			
78	5a(vii): Disclosure of Temporary Differences		
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	5a(viii): Regulatory Tax Asset Base Roll-Forward		
82			(\$000)
83	Opening sum of regulatory tax asset values	98,416	
84	less Tax depreciation	10,663	
85	plus Regulatory tax asset value of assets commissioned	11,857	
86	less Regulatory tax asset value of asset disposals	87	
87	plus Lost and found assets adjustment	(2,166)	
88	plus Adjustment resulting from asset allocation	(0)	
89	plus Other adjustments to the RAB tax value	-	
90	Closing sum of regulatory tax asset values		97,357

Company Name **Alpine Energy Limited**
 For Year Ended **31 March 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

5b(i): Summary—Related Party Transactions

(\$000)

Total regulatory income	N/A
Operational expenditure	6,456
Capital expenditure	12,267
Market value of asset disposals	N/A
Other related party transactions	N/A

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

Name of related party	Related party relationship
Netcon Ltd	Wholly owned subsidiary and contractor
Infratec	Wholly owned subsidiary and contractor

* include additional rows if needed

5b(iii): Related Party Transactions

Name of related party	Related party transaction type	Description of transaction	Value of transaction (\$000)	Basis for determining value
Netcon Ltd	Opex	Maintenance of Assets	6,317	ID clause 2.3.6(1)(b)
Netcon Ltd	Capex	Subtransmission assets	302	IM clause 2.2.11(5)(h)
Netcon Ltd	Capex	Zone Substations	6,688	IM clause 2.2.11(5)(h)
Netcon Ltd	Capex	Distribution and LV Lines	1,393	IM clause 2.2.11(5)(h)
Netcon Ltd	Capex	Distribution and LV Cables	3,495	IM clause 2.2.11(5)(h)
Netcon Ltd	Capex	Distribution Substations and Transformers	81	IM clause 2.2.11(5)(h)
Netcon Ltd	Capex	Distribution Switchgear	307	IM clause 2.2.11(5)(h)
Infratec Ltd	Opex	Maintenance of Assets	140	ID clause 2.3.6(1)(b)

* include additional rows if needed

Company Name **Alpine Energy Limited**
 For Year Ended **31 March 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
N/A									
* include additional rows if needed						-	-	-	-

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

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

Company Name **Alpine Energy Limited**
 For Year Ended **31 March 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	5d(i): Operating Cost Allocations					
8						
9						
10	Service interruptions and emergencies					
11	Directly attributable		1,528			
12	Not directly attributable	-	-	-	-	N/A
13	Total attributable to regulated service		1,528			
14	Vegetation management					
15	Directly attributable		716			
16	Not directly attributable	-	-	-	-	N/A
17	Total attributable to regulated service		716			
18	Routine and corrective maintenance and inspection					
19	Directly attributable		4,212			
20	Not directly attributable	-	-	-	-	N/A
21	Total attributable to regulated service		4,212			
22	Asset replacement and renewal					
23	Directly attributable		190			
24	Not directly attributable	-	-	-	-	N/A
25	Total attributable to regulated service		190			
26	System operations and network support					
27	Directly attributable		2,877			
28	Not directly attributable	-	-	-	-	N/A
29	Total attributable to regulated service		2,877			
30	Business support					
31	Directly attributable		5,245			
32	Not directly attributable	-	-	-	-	N/A
33	Total attributable to regulated service		5,245			
34						
35	Operating costs directly attributable		14,767			
36	Operating costs not directly attributable	-	-	-	-	-
37	Operational expenditure		14,767			
38						

Company Name **Alpine Energy Limited**
 For Year Ended **31 March 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 Pass through and recoverable costs	
41 Pass through costs	
42 Directly attributable	267
43 Not directly attributable	-
44 Total attributable to regulated service	267
45 Recoverable costs	
46 Directly attributable	15,726
47 Not directly attributable	-
48 Total attributable to regulated service	15,726

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

		(\$000)	
		CY-1	Current Year (CY)
52 Change in cost allocation 1			
53 Cost category	N/A	Original allocation	
54 Original allocator or line items		New allocation	
55 New allocator or line items		Difference	-
56			-
57 Rationale for change			

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

		(\$000)	
		CY-1	Current Year (CY)
70 Change in cost allocation 3			
71 Cost category	N/A	Original allocation	
72 Original allocator or line items		New allocation	
73 New allocator or line items		Difference	-
74			-
75 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 **Alpine Energy Limited**
 For Year Ended **31 March 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
Subtransmission lines		
Directly attributable		11,970
Not directly attributable		-
Total attributable to regulated service		11,970
Subtransmission cables		
Directly attributable		678
Not directly attributable		-
Total attributable to regulated service		678
Zone substations		
Directly attributable		35,272
Not directly attributable		-
Total attributable to regulated service		35,272
Distribution and LV lines		
Directly attributable		41,935
Not directly attributable		-
Total attributable to regulated service		41,935
Distribution and LV cables		
Directly attributable		47,110
Not directly attributable		-
Total attributable to regulated service		47,110
Distribution substations and transformers		
Directly attributable		22,685
Not directly attributable		-
Total attributable to regulated service		22,685
Distribution switchgear		
Directly attributable		6,290
Not directly attributable		-
Total attributable to regulated service		6,290
Other network assets		
Directly attributable		4,909
Not directly attributable		-
Total attributable to regulated service		4,909
Non-network assets		
Directly attributable		5,065
Not directly attributable		-
Total attributable to regulated service		5,065
Regulated service asset value directly attributable		175,913
Regulated service asset value not directly attributable		-
Total closing RAB value		175,913

5e(ii): Changes in Asset Allocations* †		(\$000)	
		CY-1	Current Year (CY)
Change in asset value allocation 1			
Asset category	N/A		
Original allocator or line items	N/A		
New allocator or line items	N/A		
Rationale for change			
Change in asset value allocation 2			
Asset category	N/A		
Original allocator or line items	N/A		
New allocator or line items	N/A		
Rationale for change			
Change in asset value allocation 3			
Asset category	N/A		
Original allocator or line items	N/A		
New allocator or line items	N/A		
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 **Alpine Energy Limited**
For Year Ended **31 March 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	6a(i): Expenditure on Assets		
8	Consumer connection		8,031
9	System growth		3,079
10	Asset replacement and renewal		4,131
11	Asset relocations		108
12	Reliability, safety and environment:		
13	Quality of supply	613	
14	Legislative and regulatory	211	
15	Other reliability, safety and environment	2,426	
16	Total reliability, safety and environment		3,250
17	Expenditure on network assets		18,600
18	Expenditure on non-network assets		2,495
19			
20	Expenditure on assets		21,095
21	plus Cost of financing		-
22	less Value of capital contributions		5,831
23	plus Value of vested assets		-
24			
25	Capital expenditure		15,264
26	6a(ii): Subcomponents of Expenditure on Assets (where known)		(\$000)
27	Energy efficiency and demand side management, reduction of energy losses		-
28	Overhead to underground conversion		311
29	Research and development		2
30	6a(iii): Consumer Connection		
31	<i>Consumer types defined by EDB*</i>	(\$000)	(\$000)
32	Residential	571	
33	Commercial	2,361	
34	Irrigation	2,041	
35	Subdivision	1,052	
36	LV alterations	104	
37	HV alterations	1,902	
38	<i>* include additional rows if needed</i>		
39	Consumer connection expenditure		8,031
40	less Capital contributions funding consumer connection expenditure	2,561	
41	Consumer connection less capital contributions		5,470
42	6a(iv): System Growth and Asset Replacement and Renewal		
43		System Growth	Asset Replacement and Renewal
44		(\$000)	(\$000)
45	Subtransmission	52	25
46	Zone substations	293	1,204
47	Distribution and LV lines	939	1,803
48	Distribution and LV cables	938	345
49	Distribution substations and transformers	142	197
50	Distribution switchgear	664	472
51	Other network assets	51	85
52	System growth and asset replacement and renewal expenditure	3,079	4,131
53	less Capital contributions funding system growth and asset replacement and renewal	982	1,317
54	System growth and asset replacement and renewal less capital contributions	2,097	2,814
55			
56	6a(v): Asset Relocations		
57	<i>Project or programme*</i>	(\$000)	(\$000)
58	ABY - Motukaika Rd - Cave Fdr upgrade	0	
	BPD- Waihao River crossing	6	
	Network - ABS relocations (T537, ABS 1556)	41	
	Network - Comms & RTU	14	
	Network - New Connections & Subdivisions	0	
	Network - New Connections & Subdivisionsions	2	
	Network - New Subdivisions & extensions for new services	5	
	NWK -New connections & Subdivisions	1	
59	NWK-Overhead Line Refurbishment & Renewal	7	
60	PAR - Sub transmission lines reconductor to Iodine	26	
61	Preliminary until CAPEX confirmed	0	
62	SCADA pole top equipment automation (e.g. reclosers)	6	

Company Name **Alpine Energy Limited**
 For Year Ended **31 March 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

63	<i>* include additional rows if needed</i>		
64	All other projects or programmes - asset relocations	-	
65	Asset relocations expenditure		108
66	<i>less</i> Capital contributions funding asset relocations	34	
67	Asset relocations less capital contributions		73

Company Name **Alpine Energy Limited**
 For Year Ended **31 March 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)
68			
69	6a(vi): Quality of Supply		
70	<i>Project or programme*</i>		
71	ABY - Install CB for F321	82	
	BPD - Waihuna feeder & regulator	184	
	Network - Distribution Sub refurbishment	43	
	Network - Mobile sub/gen site preparations	212	
	Network - New ABS's	(0)	
	Network - New Connections & Subdivisions	1	
	Network - New Connections & Subdivisionsions	6	
	Network - Reclosers New	21	
	replacements	12	
	Network - Underground Cable Upgrades (G)	10	
72	Network - Various O/H new builds & upgrades	31	
73	NWK-Mobile sub/gen preparations	7	
74	NWK-Overhead Line Refurbishment & Renewal	1	
75	NWK-SCADA & pole top equipment auto	4	
76	<i>* include additional rows if needed</i>		
77	All other projects programmes - quality of supply	-	
78	Quality of supply expenditure		613
79	less Capital contributions funding quality of supply	196	
80	Quality of supply less capital contributions		418
81	6a(vii): Legislative and Regulatory		
82	<i>Project or programme*</i>		
83	33 kV CB & recloser replacement (one per year)	190	
84	Extensions for new services	20	
85	50 Lots	1	
86	Ripple Relays	0	
87			
88	<i>* include additional rows if needed</i>		
89	All other projects or programmes - legislative and regulatory	-	
90	Legislative and regulatory expenditure		211
91	less Capital contributions funding legislative and regulatory	67	
92	Legislative and regulatory less capital contributions		144
93	6a(viii): Other Reliability, Safety and Environment		
94	<i>Project or programme*</i>		
95	Network - ABS replacements	26	
	Network - Comms & RTU	120	
	Network - Distribution Sub refurbishment	50	
	Network - Earthing	71	
	Network - Mobile sub/gen site preparations	123	
	Network - New & Refurbishment of equipment	7	
	Network - New ABS's	19	
	Network - New Connections & Subdivisions	66	
	Network - New Connections & Subdivisionsions	8	
	Network - New RMU's	5	
	Network - O/H to U/G conversions	51	
	Network - Reclosers New	96	
	Network - Reclosers Replacements	2	
	Network - Replacement RMU's	72	
	Network - SCADA & pole top equipment automation (e.g. reclosers)	260	
	Network - SCADA pole top equipment automation	39	
	Network - Transformers distribution for subdivisions, extensions & replacements	6	
	Network - Underground Cable Upgrades (G)	17	
	Network - Underground Cable Upgrades (R)	0	
	Network - Various O/H new builds & upgrades	10	
	Network - Various O/H refurbishment & renewal	1	
	Network - Zone Substation Protection replacement	14	
	Network -33/22 kV CB & recloser replacement	33	
	NWK- Reclosers New	2	
	NWK-Overhead Line Refurbishment & Renewal	991	
	NWK-SCADA & pole top equipment auto	5	
	NWK-Variou O/H refurb & renewal	18	
	Network - 11kV & 33kV Overhead lines in urban areas	6	

Company Name **Alpine Energy Limited**
 For Year Ended **31 March 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				
	Network - New Connections & Subdivisions		4	
	Network - New Connections & Subdivisions		12	
	Network - O/H to U/G conversions		284	
96	Network - Underground Cable Upgrades		(0)	
97	Nwk-OH/UG conversions		3	
98	NWK-Overhead Line Refurbishment & Renewal		1	
99	11 kV and 33 kV Overhead Lines in urban areas conversion to underground for Network reasons		2	
100	<i>* include additional rows if needed</i>			
101	All other projects or programmes - other reliability, safety and environment		-	
102	Other reliability, safety and environment expenditure			2,426
103	less Capital contributions funding other reliability, safety and environment		674	
104	Other reliability, safety and environment less capital contributions			1,752
105				
106	6a(ix): Non-Network Assets			
107	Routine expenditure			
108	<i>Project or programme*</i>		(\$000)	(\$000)
109	Vehicles		9	
110	Property		290	
111	Software		370	
112	Non network plant		84	
113				
114	<i>* include additional rows if needed</i>			
115	All other projects or programmes - routine expenditure			
116	Routine expenditure			753
117	Atypical expenditure			
118	<i>Project or programme*</i>		(\$000)	(\$000)
119	GIS upgrade		882	
120	AXOS billing system for delivery charges		235	
121	Asset Management System		571	
122	SharePoint		54	
123				
124	<i>* include additional rows if needed</i>			
125	All other projects or programmes - atypical expenditure		-	
126	Atypical expenditure			1,742
127				
128	Expenditure on non-network assets			2,495

Company Name **Alpine Energy Limited**
 For Year Ended **31 March 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	6b(i): Operational Expenditure		
8	Service interruptions and emergencies	1,528	
9	Vegetation management	716	
10	Routine and corrective maintenance and inspection	4,212	
11	Asset replacement and renewal	190	
12	Network opex		6,646
13	System operations and network support	2,877	
14	Business support	5,245	
15	Non-network opex		8,121
16			
17	Operational expenditure		14,767
18	6b(ii): Subcomponents of Operational Expenditure (where known)		
19	Energy efficiency and demand side management, reduction of energy losses		-
20	Direct billing*		-
21	Research and development		-
22	Insurance		204
23	* Direct billing expenditure by suppliers that directly bill the majority of their consumers		

Company Name **Alpine Energy Limited**
For Year Ended **31 March 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

7(i): Revenue		Target (\$000) ¹	Actual (\$000)	% variance
7				
8	Line charge revenue	50,969	52,105	2%
7(ii): Expenditure on Assets		Forecast (\$000) ²	Actual (\$000)	% variance
9				
10	Consumer connection	2,850	8,031	182%
11	System growth	1,660	3,079	86%
12	Asset replacement and renewal	4,163	4,131	(1%)
13	Asset relocations	495	108	(78%)
14	Reliability, safety and environment:			
15	Quality of supply	860	613	(29%)
16	Legislative and regulatory	–	211	–
17	Other reliability, safety and environment	450	2,426	439%
18	Total reliability, safety and environment	1,310	3,250	148%
19	Expenditure on network assets	10,478	18,600	78%
20	Expenditure on non-network assets	3,767	2,495	(34%)
21	Expenditure on assets	14,245	21,095	48%
7(iii): Operational Expenditure				
22				
23	Service interruptions and emergencies	1,450	1,528	5%
24	Vegetation management	500	716	43%
25	Routine and corrective maintenance and inspection	2,801	4,212	50%
26	Asset replacement and renewal	598	190	(68%)
27	Network opex	5,348	6,646	24%
28	System operations and network support	4,552	2,877	(37%)
29	Business support	8,910	5,245	(41%)
30	Non-network opex	13,462	8,121	(40%)
31	Operational expenditure	18,810	14,767	(21%)
7(iv): Subcomponents of Expenditure on Assets (where known)				
32				
33	Energy efficiency and demand side management, reduction of energy losses	–	–	–
34	Overhead to underground conversion	470	311	(34%)
35	Research and development	–	2	–
36				
7(v): Subcomponents of Operational Expenditure (where known)				
37				
38	Energy efficiency and demand side management, reduction of energy losses	–	–	–
39	Direct billing	–	–	–
40	Research and development	–	–	–
41	Insurance	95	204	115%

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

2 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)

Company Name **Alpine Energy Limited**
 For Year Ended **31 March 2016**
 Network / Sub-Network Name

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.

sch ref

8(i): Billed Quantities by Price Component

8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30

Consumer group name or price category code	Consumer type or types (eg, residential, commercial etc.)	Standard or non-standard consumer group (specify)	Average no. of ICPs in disclosure year	Energy delivered to ICPs in disclosure year (MWh)	
LOWHCA	Low Charge	Standard	1,410	7,995	
LOWLCA	Low Charge	Standard	7,994	45,327	
LOWUHCA	Low Uncontrolled	Standard	9	51	
LOWULCA	Low Uncontrolled	Standard	22	125	
015HCA	015	Standard	5,941	73,792	
015LCA	015	Standard	13,533	169,658	
015UHCA	015 Uncontrolled	Standard	33	36	
015ULCA	015 Uncontrolled	Standard	46	3	
360HCA	360	Standard	470	13,380	
360LCA	360	Standard	701	19,956	
360UHCA	360 Uncontrolled	Standard	15	427	
360ULCA	360 Uncontrolled	Standard	10	285	
ASSHCA	Assessed	Standard	1,221	118,285	
ASSLCA	Assessed	Standard	366	31,174	
TOU400HCA	TOU 400V	Standard	37	21,167	
TOU400LCA	TOU 400V	Standard	106	96,700	
TOU11HCA	TOU 11kV	Standard	6	21,402	
TOU11LCA	TOU 11kV	Standard	4	12,339	
IND	IND	Non-standard	12	178,343	
Standard consumer totals				31,924	632,100
Non-standard consumer totals				12	178,343
Total for all consumers				31,936	810,443

Add extra rows for additional consumer groups or price category codes as necessary

Unit charging basis (eg, days, kW of demand, kVA of capacity, etc.)

Billed quantities by price component

Price component	Distribution fixed	Distribution variable day	Distribution variable night	Distribution demand	Transmission Fixed	Transmission Variable day	Transmission Variable night	Transmission demand
	No. of ICPs	MWh	MWh	MW	No. of ICPs	MWh	MWh	MW
	1,410	5,779	2,216	-	-	5,779	2,216	-
	7,994	32,766	12,561	-	-	32,766	12,561	-
	9	37	14	-	-	37	14	-
	22	90	35	-	-	90	35	-
	5,941	53,343	20,449	-	-	53,343	20,449	-
	13,533	122,642	47,016	-	-	122,642	47,016	-
	33	26	10	-	33	26	10	-
	46	2	1	-	46	2	1	-
	470	9,672	3,708	-	-	9,672	3,708	-
	701	14,426	5,530	-	-	14,426	5,530	-
	15	309	118	-	15	309	118	-
	10	206	79	-	10	206	79	-
	1,221	85,505	32,779	99	-	85,505	32,779	99
	366	22,535	8,639	34	-	22,535	8,639	34
	37	14,929	6,238	8	-	14,929	6,238	8
	106	66,577	30,123	23	-	66,577	30,123	23
	6	15,582	5,820	6	-	15,582	5,820	6
	4	8,649	3,691	4	-	8,649	3,691	4
	12	-	-	3	11	13,845	3,930	9
	31,924	453,074	179,026	174	104	453,074	179,026	174
	12	-	-	3	11	13,845	3,930	9
	31,936	453,074	179,026	177	115	466,919	182,956	184

Add extra columns for additional billed quantities by price component as necessary

Company Name **Alpine Energy Limited**
 For Year Ended **31 March 2016**
 Network / Sub-Network Name

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(ii): Line Charge Revenues (\$000) by Price Component

Line charge revenues (\$000) by price component

Consumer group name or price category code	Consumer type or types (eg, residential, commercial etc.)	Standard or non-standard consumer group (specify)	Total line charge revenue in disclosure year	Notional revenue foregone from posted discounts (if applicable)
LOWHCA	Low Charge	Standard	\$683	
LOWLCA	Low Charge	Standard	\$3,593	
LOWUHCA	Low Uncontrolled	Standard	\$6	
LOWULCA	Low Uncontrolled	Standard	\$13	
015HCA	015	Standard	\$5,366	
015LCA	015	Standard	\$11,500	
015UHCA	015 Uncontrolled	Standard	\$21	
015ULCA	015 Uncontrolled	Standard	\$24	
360HCA	360	Standard	\$1,270	
360LCA	360	Standard	\$1,727	
360UHCA	360 Uncontrolled	Standard	\$44	
360ULCA	360 Uncontrolled	Standard	\$27	
ASSHCA	Assessed	Standard	\$11,458	
ASSLCA	Assessed	Standard	\$3,331	
TOU400HCA	TOU 400V	Standard	\$1,539	
TOU400LCA	TOU 400V	Standard	\$4,484	
TOU11HCA	TOU 11kV	Standard	\$1,110	
TOU11LCA	TOU 11kV	Standard	\$696	
IND	IND	Non-standard	\$5,214	
Standard consumer totals			\$46,891	-
Non-standard consumer totals			\$5,214	-
Total for all consumers			\$52,105	-

Total distribution line charge revenue	Total transmission line charge revenue (if available)	Rate (eg, \$ per day, \$ per kWh, etc.)
\$583	\$99	
\$3,029	\$564	
\$4	\$2	
\$8	\$5	
\$4,448	\$918	
\$9,389	\$2,111	
\$13	\$8	
\$14	\$11	
\$1,104	\$166	
\$1,479	\$248	
\$35	\$9	
\$21	\$6	
\$6,670	\$4,787	
\$1,838	\$1,493	
\$964	\$575	
\$2,820	\$1,664	
\$673	\$437	
\$400	\$296	
\$3,480	\$1,734	
\$33,492	\$13,399	
\$3,480	\$1,734	
\$36,972	\$15,133	

Price component	Distribution fixed	Distribution variable day	Distribution variable night	Distribution demand	Transmission Fixed	Transmission Variable day	Transmission Variable night	Transmission demand
	\$/annum	\$/MWh	\$/MWh	\$(/MWh*annum)	\$/annum	\$/MWh	\$/MWh	\$(/MWh*annum)
\$76	\$414	\$93	-	-	-	\$92	\$7	-
\$432	\$2,146	\$451	-	-	-	\$523	\$41	-
\$0	\$3	\$1	-	-	-	\$2	\$0	-
\$1	\$6	\$1	-	-	-	\$4	\$1	-
\$2,093	\$2,140	\$215	-	-	-	\$851	\$67	-
\$3,974	\$4,920	\$495	-	-	-	\$1,957	\$154	-
\$12	\$1	\$0	-	-	\$8	\$0	\$0	-
\$14	\$0	\$0	-	-	\$11	\$0	\$0	-
\$677	\$388	\$39	-	-	-	\$154	\$12	-
\$842	\$579	\$58	-	-	-	\$230	\$18	-
\$22	\$12	\$1	-	-	\$3	\$5	\$0	-
\$12	\$8	\$1	-	-	\$2	\$3	\$0	-
\$278	\$3,431	\$345	\$2,617	-	-	\$1,364	\$107	\$3,316
\$68	\$904	\$91	\$775	-	-	\$360	\$28	\$1,105
\$5	\$258	\$19	\$682	-	-	\$39	\$10	\$526
\$14	\$1,151	\$91	\$1,564	-	-	\$174	\$48	\$1,443
\$1	\$269	\$17	\$385	-	-	\$41	\$9	\$387
\$1	\$150	\$11	\$239	-	-	\$23	\$6	\$268
\$3,450	-	-	\$29	\$1,086	\$26	\$6	\$617	
\$8,521	\$16,780	\$1,929	\$6,262	\$24	\$5,822	\$509	\$7,044	
\$3,450	-	-	\$29	\$1,086	\$26	\$6	\$617	
\$11,971	\$16,780	\$1,929	\$6,291	\$1,110	\$5,848	\$515	\$7,661	

Add extra columns for additional line charge revenues by price component as necessary

8(iii): Number of ICPs directly billed

Number of directly billed ICPs at year end

Check

Company Name	Alpine Energy Limited
For Year Ended	31 March 2016
Network / Sub-network Name	

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.	27,191	27,192	1	2
9	All	Overhead Line	Wood poles	No.	21,629	21,629	-	2
10	All	Overhead Line	Other pole types	No.	706	706	-	2
11	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	385	385	-	1
12	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km	-	-	-	3
13	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km	28	28	-	3
14	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km	-	-	-	4
15	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressurised)	km	-	-	-	4
16	HV	Subtransmission Cable	Subtransmission UG up to 66kV (PILC)	km	-	-	-	4
17	HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	km	-	-	-	4
18	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Oil pressurised)	km	-	-	-	4
19	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Gas Pressurised)	km	-	-	-	4
20	HV	Subtransmission Cable	Subtransmission UG 110kV+ (PILC)	km	-	-	-	4
21	HV	Subtransmission Cable	Subtransmission submarine cable	km	-	-	-	4
22	HV	Zone substation Buildings	Zone substations up to 66kV	No.	-	-	-	4
23	HV	Zone substation Buildings	Zone substations 110kV+	No.	-	-	-	4
24	HV	Zone substation switchgear	50/66/110kV CB (Indoor)	No.	-	-	-	4
25	HV	Zone substation switchgear	50/66/110kV CB (Outdoor)	No.	1	1	-	4
26	HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No.	32	32	-	2
27	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.	43	43	-	2
28	HV	Zone substation switchgear	33kV RMU	No.	-	-	-	4
29	HV	Zone substation switchgear	22/33kV CB (Indoor)	No.	-	-	-	2
30	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.	36	37	1	1
31	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.	208	208	-	1
32	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.	-	-	-	1
33	HV	Zone Substation Transformer	Zone Substation Transformers	No.	20	22	2	2
34	HV	Distribution Line	Distribution OH Open Wire Conductor	km	2,914	2,914	0	2
35	HV	Distribution Line	Distribution OH Aerial Cable Conductor	km	0	0	-	2
36	HV	Distribution Line	SWER conductor	km	7	7	-	3
37	HV	Distribution Cable	Distribution UG XLPE or PVC	km	137	137	1	2
38	HV	Distribution Cable	Distribution UG PILC	km	130	130	-	2
39	HV	Distribution Cable	Distribution Submarine Cable	km	-	-	-	4
40	HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers	No.	231	231	-	2
41	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.	48	48	-	2
42	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	6,710	6,714	4	2
43	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	86	86	-	2
44	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.	502	502	-	2
45	HV	Distribution Transformer	Pole Mounted Transformer	No.	4,870	4,879	9	2
46	HV	Distribution Transformer	Ground Mounted Transformer	No.	910	912	2	2
47	HV	Distribution Transformer	Voltage regulators	No.	-	-	-	2
48	HV	Distribution Substations	Ground Mounted Substation Housing	No.	879	879	-	1
49	LV	LV Line	LV OH Conductor	km	373	373	-	1
50	LV	LV Cable	LV UG Cable	km	326	327	0	2
51	LV	LV Street lighting	LV OH/UG Streetlight circuit	km	-	-	-	4
52	LV	Connections	OH/UG consumer service connections	No.	32,213	32,242	29	4
53	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.	-	-	-	1
54	All	SCADA and communications	SCADA and communications equipment operating as a single system	Lot	1	1	-	1
55	All	Capacitor Banks	Capacitors including controls	No.	16	16	-	2
56	All	Load Control	Centralised plant	Lot	6	6	-	4
57	All	Load Control	Relays	No.	9,785	9,903	118	2
58	All	Civils	Cable Tunnels	km	1	1	-	2

Company Name	Alpine Energy Limited
For Year Ended	31 March 2016
Network / Sub-network Name	

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	Circuit length by operating voltage (at year end)	Overhead (km)	Underground (km)
11	> 66kV	–	–
12	50kV & 66kV	–	–
13	33kV	241	27
14	SWER (all SWER voltages)	–	7
15	22kV (other than SWER)	144	1
16	6.6kV to 11kV (inclusive—other than SWER)	2,914	267
17	Low voltage (< 1kV)	373	297
18	Total circuit length (for supply)	3,672	599
19			
20	Dedicated street lighting circuit length (km)	–	–
21	Circuit in sensitive areas (conservation areas, iwi territory etc) (km)		38
22			
23	Overhead circuit length by terrain (at year end)	Circuit length (km)	(% of total overhead length)
24	Urban	331	9%
25	Rural	3,268	89%
26	Remote only	–	–
27	Rugged only	73	2%
28	Remote and rugged	–	–
29	Unallocated overhead lines	–	–
30	Total overhead length	3,672	100%
31			
32		Circuit length (km)	(% of total circuit length)
33	Length of circuit within 10km of coastline or geothermal areas (where known)	1,677	39%
34		Circuit length (km)	(% of total overhead length)
35	Overhead circuit requiring vegetation management	2,090	57%

Company Name **Alpine Energy Limited**
 For Year Ended **31 March 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	N/A	N/A	N/A
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	Alpine Energy Limited
For Year Ended	31 March 2016
Network / Sub-network Name	

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	9e(i): Consumer Connections		
9	Number of ICPs connected in year by consumer type		
10	Consumer types defined by EDB*	Number of connections (ICPs)	
11	Low Charge	-	
	Low Uncontrolled	-	
	015	261	
	015 Uncontrolled	-	
	360	44	
	360 Uncontrolled	-	
12	Assessed	61	
13	TOU 400V	4	
14	TOU 11kV	-	
15	IND	4	
16	* include additional rows if needed		
17	Connections total	374	
18			
19	Distributed generation		
20	Number of connections made in year	72	connections
21	Capacity of distributed generation installed in year	0.35	MVA
22	9e(ii): System Demand		
23			
24		Demand at time of maximum coincident demand (MW)	
25	Maximum coincident system demand		
26	GXP demand	128	
27	plus Distributed generation output at HV and above	7	
28	Maximum coincident system demand	134	
29	less Net transfers to (from) other EDBs at HV and above	-	
30	Demand on system for supply to consumers' connection points	134	
31	Electricity volumes carried	Energy (GWh)	
32	Electricity supplied from GXPs	818	
33	less Electricity exports to GXPs	6	
34	plus Electricity supplied from distributed generation	13	
35	less Net electricity supplied to (from) other EDBs	-	
36	Electricity entering system for supply to consumers' connection points	825	
37	less Total energy delivered to ICPs	810	
38	Electricity losses (loss ratio)	15	1.8%
39			
40	Load factor	0.70	
41	9e(iii): Transformer Capacity		
42		(MVA)	
43	Distribution transformer capacity (EDB owned)	439	
44	Distribution transformer capacity (Non-EDB owned, estimated)	86	
45	Total distribution transformer capacity	525	
46			
47	Zone substation transformer capacity	311	

Company Name	Alpine Energy Limited
For Year Ended	31 March 2016
Network / Sub-network Name	

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	10(i): Interruptions		
9	Interruptions by class	Number of interruptions	
10	Class A (planned interruptions by Transpower)	1	
11	Class B (planned interruptions on the network)	225	
12	Class C (unplanned interruptions on the network)	191	
13	Class D (unplanned interruptions by Transpower)	3	
14	Class E (unplanned interruptions of EDB owned generation)	-	
15	Class F (unplanned interruptions of generation owned by others)	-	
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	Total	420	
20			
21	Interruption restoration	≤3Hrs	>3hrs
22	Class C interruptions restored within	105	86
23			
24	SAIFI and SAIDI by class	SAIFI	SAIDI
25	Class A (planned interruptions by Transpower)	0.0263	3.59
26	Class B (planned interruptions on the network)	0.2086	57.51
27	Class C (unplanned interruptions on the network)	2.6221	357.22
28	Class D (unplanned interruptions by Transpower)	0.1159	34.45
29	Class E (unplanned interruptions of EDB owned generation)	-	-
30	Class F (unplanned interruptions of generation owned by others)	-	-
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	Total	2.9729	452.77
35			
36	Normalised SAIFI and SAIDI	Normalised SAIFI	Normalised SAIDI
37	Classes B & C (interruptions on the network)	1.3300	217.70
38			
39	Quality path normalised reliability limit	SAIFI reliability limit	SAIDI reliability limit
40	SAIFI and SAIDI limits applicable to disclosure year*	1.5070	154.16
41	* not applicable to exempt EDBs		

Company Name	Alpine Energy Limited
For Year Ended	31 March 2016
Network / Sub-network Name	

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	0.0082	0.22
Vegetation	0.0953	9.32
Adverse weather	0.8272	273.99
Adverse environment	–	–
Third party interference	0.1235	7.54
Wildlife	0.0485	8.10
Human error	0.0798	9.31
Defective equipment	1.3733	42.41
Cause unknown	0.0663	6.33

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

Main equipment involved	SAIFI	SAIDI
Subtransmission lines	0.0004	0.06
Subtransmission cables	–	–
Subtransmission other	–	–
Distribution lines (excluding LV)	0.2079	57.27
Distribution cables (excluding LV)	–	–
Distribution other (excluding LV)	0.0009	0.18

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

Main equipment involved	SAIFI	SAIDI
Subtransmission lines	1.1826	39.76
Subtransmission cables	–	–
Subtransmission other	0.0041	0.45
Distribution lines (excluding LV)	1.3011	307.60
Distribution cables (excluding LV)	0.0220	4.00
Distribution other (excluding LV)	0.1123	5.40

10(v): Fault Rate

Main equipment involved	Number of Faults	Circuit length (km)	Fault rate (faults per 100km)
Subtransmission lines	13	241	5.39
Subtransmission cables	–	27	–
Subtransmission other	–	–	–
Distribution lines (excluding LV)	174	3,058	5.69
Distribution cables (excluding LV)	4	268	1.49
Distribution other (excluding LV)	–	–	–
Total	191		