



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

<b>Company Name</b>	Alpine Energy Limited
<b>Disclosure Date</b>	30 November 2023
<b>Disclosure Year (year ended)</b>	31 March 2020

Templates for Schedules 1–10 excluding 5f–5g  
Template Version 4.1. Prepared 21 December 2017

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## 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 21 December 2017). 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 2020

**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					
9	<b>Operational expenditure</b>	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	Network	26,410	638	152,662	4,937
11	Non-network	9,227	223	53,339	1,725
12		17,182	415	99,323	3,212
13	<b>Expenditure on assets</b>	19,861	480	114,810	3,713
14	Network	18,592	449	107,470	3,476
15	Non-network	1,270	31	7,340	237
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	<b>Total consumer line charge revenue</b>	97,014	2,344		
20	Standard consumer line charge revenue	119,769	2,176		
21	Non-standard consumer line charge revenue	28,183	471,588		
22					
23	<b>1(iii): Service intensity measures</b>				
24					
25	Demand density	32			Maximum coincident system demand per km of circuit length (for supply) (kW/km)
26	Volume density	187			Total energy delivered to ICPs per km of circuit length (for supply) (MWh/km)
27	Connection point density	8			Average number of ICPs per km of circuit length (for supply) (ICPs/km)
28	Energy intensity	24,163			Total energy delivered to ICPs per average number of ICPs (kWh/ICP)
29					
30	<b>1(iv): Composition of regulatory income</b>				
31					
32					
33	Operational expenditure			(\$000)	% of revenue
34	Pass-through and recoverable costs excluding financial incentives and wash-ups			21,343	27.22%
35	Total depreciation			18,482	23.57%
36	Total revaluations			8,967	11.44%
37	Regulatory tax allowance			5,549	7.08%
38	Regulatory profit/(loss) including financial incentives and wash-ups			8,454	10.78%
39	<b>Total regulatory income</b>			26,705	34.06%
40				78,402	
41	<b>1(v): Reliability</b>				
42	Interruption rate			13.21	Interruptions per 100 circuit km

Company Name **Alpine Energy Limited**  
 For Year Ended **31 March 2020**

## 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 18	31 Mar 19	31 Mar 20
		%	%	%
7	<b>ROI – comparable to a post tax WACC</b>			
8				
9	Reflecting all revenue earned	6.64%	8.81%	12.61%
10	Excluding revenue earned from financial incentives	6.66%	8.75%	12.50%
11	Excluding revenue earned from financial incentives and wash-ups	4.32%	6.42%	9.97%
12				
13				
14	<b>Mid-point estimate of post tax WACC</b>	5.04%	4.75%	4.27%
15	25th percentile estimate	4.36%	4.07%	3.59%
16	75th percentile estimate	5.72%	5.43%	4.95%
17				
18				
19	<b>ROI – comparable to a vanilla WACC</b>			
20	Reflecting all revenue earned	7.23%	9.32%	13.04%
21	Excluding revenue earned from financial incentives	7.26%	9.26%	12.92%
22	Excluding revenue earned from financial incentives and wash-ups	4.91%	6.92%	10.40%
23				
24	<b>WACC rate used to set regulatory price path</b>	7.19%	7.19%	7.19%
25				
26	<b>Mid-point estimate of vanilla WACC</b>	5.60%	5.26%	4.69%
27	25th percentile estimate	4.92%	4.58%	4.01%
28	75th percentile estimate	6.29%	5.94%	5.37%
29				
30	<b>2(ii): Information Supporting the ROI</b>			
31				
32	Total opening RAB value	218,988		
33	plus Opening deferred tax	(11,456)		
34	<b>Opening RIV</b>		207,532	
35				
36	<b>Line charge revenue</b>		78,402	
37				
38	Expenses cash outflow	39,825		
39	add Assets commissioned	11,929		
40	less Asset disposals	4		
41	add Tax payments	5,965		
42	less Other regulated income	–		
43	<b>Mid-year net cash outflows</b>		57,715	
44				
45	<b>Term credit spread differential allowance</b>		–	
46				
47	Total closing RAB value	227,918		
48	less Adjustment resulting from asset allocation	–		
49	less Lost and found assets adjustment	424		
50	plus Closing deferred tax	(13,946)		
51	<b>Closing RIV</b>		213,548	
52				
53	<b>ROI – comparable to a vanilla WACC</b>			13.04%
54				
55	Leverage (%)			42%
56	Cost of debt assumption (%)			3.61%
57	Corporate tax rate (%)			28%
58				
59	<b>ROI – comparable to a post tax WACC</b>			12.61%
60				

Company Name **Alpine Energy Limited**  
 For Year Ended **31 March 2020**

**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**

Opening RIV N/A

	Line charge revenue	Expenses cash outflow	Assets commissioned	Asset disposals	Other regulated income	Monthly net cash outflows
April	-	-	-	-	-	-
May	-	-	-	-	-	-
June	-	-	-	-	-	-
July	-	-	-	-	-	-
August	-	-	-	-	-	-
September	-	-	-	-	-	-
October	-	-	-	-	-	-
November	-	-	-	-	-	-
December	-	-	-	-	-	-
January	-	-	-	-	-	-
February	-	-	-	-	-	-
March	-	-	-	-	-	-
<b>Total</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

Tax payments N/A

Term credit spread differential allowance N/A

Closing RIV N/A

Monthly ROI – comparable to a vanilla WACC N/A

Monthly ROI – comparable to a post tax WACC N/A

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

Year-end ROI – comparable to a vanilla WACC 9.11%

Year-end ROI – comparable to a post tax WACC 8.69%

*\* 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	312
Other financial incentives	-
<b>Financial incentives</b>	<b>312</b>

Impact of financial incentives on ROI 0.11%

Input methodology claw-back	3,050
CPP application recoverable costs	-
Catastrophic event allowance	-
Capex wash-up adjustment	626
Transmission asset wash-up adjustment	-
2013–15 NPV wash-up allowance	3,263
Reconsideration event allowance	-
Other wash-ups	-
<b>Wash-up costs</b>	<b>6,939</b>

Impact of wash-up costs on ROI 2.53%

Company Name **Alpine Energy Limited**  
 For Year Ended **31 March 2020**

### 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	<b>3(i): Regulatory Profit</b>	(\$000)
8	<b>Income</b>	
9	Line charge revenue	78,402
10	plus Gains / (losses) on asset disposals	-
11	plus Other regulated income (other than gains / (losses) on asset disposals)	-
12		
13	<b>Total regulatory income</b>	<b>78,402</b>
14	<b>Expenses</b>	
15	less Operational expenditure	21,343
16		
17	less Pass-through and recoverable costs excluding financial incentives and wash-ups	18,482
18		
19	<b>Operating surplus / (deficit)</b>	<b>38,577</b>
20		
21	less Total depreciation	8,967
22		
23	plus Total revaluations	5,549
24		
25	<b>Regulatory profit / (loss) before tax</b>	<b>35,159</b>
26		
27	less Term credit spread differential allowance	-
28		
29	less Regulatory tax allowance	8,454
30		
31	<b>Regulatory profit/(loss) including financial incentives and wash-ups</b>	<b>26,705</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	109
36	Commerce Act levies	88
37	Industry levies	160
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	15,577
41	Transpower new investment contract charges	2,538
42	System operator services	10
43	Distributed generation allowance	-
44	Extended reserves allowance	-
45	Other recoverable costs excluding financial incentives and wash-ups	-
46	<b>Pass-through and recoverable costs excluding financial incentives and wash-ups</b>	<b>18,482</b>
47		



Company Name **Alpine Energy Limited**  
 For Year Ended **31 March 2020**

**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 19	31 Mar 20
48	<b>3(iii): Incremental Rolling Incentive Scheme</b>		
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			
		Previous years' incremental change	Previous years' incremental change adjusted for inflation
56			
57	CY-5            31 Mar 15	N/A	N/A
58	CY-4            31 Mar 16	N/A	N/A
59	CY-3            31 Mar 17	N/A	N/A
60	CY-2            31 Mar 18	N/A	N/A
61	CY-1            31 Mar 19	N/A	N/A
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>		
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	<b>3(v): Other Disclosures</b>		
70			(\$000)
71	Self-insurance allowance		N/A

Company Name **Alpine Energy Limited**  
 For Year Ended **31 March 2020**

**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 16 (\$000)	RAB 31 Mar 17 (\$000)	RAB 31 Mar 18 (\$000)	RAB 31 Mar 19 (\$000)	RAB 31 Mar 20 (\$000)
	Total opening RAB value	172,594	175,913	190,264	214,359	218,988
	less Total depreciation	7,000	7,463	9,046	9,135	8,967
	plus Total revaluations	715	3,805	2,093	3,180	5,549
	plus Assets commissioned	11,857	18,589	31,047	17,450	11,929
	less Asset disposals	87	306	-	-	4
	plus Lost and found assets adjustment	(2,166)	(274)	-	-	424
	plus Adjustment resulting from asset allocation	(0)	1	-	(6,867)	-
	<b>Total closing RAB value</b>	<b>175,913</b>	<b>190,264</b>	<b>214,359</b>	<b>218,988</b>	<b>227,918</b>

4(ii): Unallocated Regulatory Asset Base		Unallocated RAB *		RAB	
		(\$000)	(\$000)	(\$000)	(\$000)
	Total opening RAB value		225,879		218,988
	less Total depreciation		10,357		8,967
	plus Total revaluations		5,724		5,549.3
	plus Assets commissioned (other than below)	4,654		4,654	
	Assets acquired from a regulated supplier	-		-	
	Assets acquired from a related party	7,276		7,276	
	<b>Assets commissioned</b>		11,930		11,929
	less Asset disposals (other than below)	4		4	
	Asset disposals to a regulated supplier	-		-	
	Asset disposals to a related party	-		-	
	<b>Asset disposals</b>		4		4
	plus Lost and found assets adjustment		424		424
	plus Adjustment resulting from asset allocation				-
	<b>Total closing RAB value</b>		<b>233,596</b>		<b>227,918</b>

\* 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 2020**

**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

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

CPI <sub>t</sub>	1,052
CPI <sub>t-4</sub>	1,026
Revaluation rate (%)	2.53%

	Unallocated RAB *		RAB	
	(\$000)	(\$000)	(\$000)	(\$000)
Total opening RAB value	225,879		218,988	
less Opening value of fully depreciated, disposed and lost assets	4		4	
Total opening RAB value subject to revaluation	225,875		218,984	
<b>Total revaluations</b>		5,724		5,549

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

	Unallocated works under construction		Allocated works under construction	
<b>Works under construction—preceding disclosure year</b>		1,531		1,531
plus Capital expenditure	13,236		13,234	
less Assets commissioned	11,930		11,929	
plus Adjustment resulting from asset allocation			-	
<b>Works under construction - current disclosure year</b>		2,837		2,836
Highest rate of capitalised finance applied				-



Company Name **Alpine Energy Limited**  
 For Year Ended **31 March 2020**

**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)
79 Depreciation - standard	7,438		7,438	
80 Depreciation - no standard life assets	2,919		1,529	
81 Depreciation - modified life assets	-		-	
82 Depreciation - alternative depreciation in accordance with CPP	-		-	
83 <b>Total depreciation</b>		10,357		8,967

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)	Closing RAB value		
		Depreciation charge for the period (RAB)	under 'non-standard' depreciation	Closing RAB value under 'standard' depreciation
87 None	Not Applicable	Not Applicable	Not Applicable	Not Applicable
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
99 <b>Total opening RAB value</b>	13,291	4,778	51,651	46,807	49,836	21,709	11,750	6,957	12,208	218,988
100 less Total depreciation	611	80	1,758	1,720	1,552	1,034	278	404	1,529	8,967
101 plus Total revaluations	337	121	1,309	1,186	1,263	550	298	176	309	5,549
102 plus Assets commissioned	396	-	-	4,926	1,359	1,371	1,791	926	1,160	11,929
103 less Asset disposals	-	-	-	-	-	-	-	-	4	4
104 plus Lost and found assets adjustment	-	-	239	59	-	-	125	-	-	424
105 plus Adjustment resulting from asset allocation	-	-	-	-	-	-	-	-	-	-
106 plus Asset category transfers	(243)	-	1,122	(1,036)	139	-	52	-	(34)	0
107 <b>Total closing RAB value</b>	13,170	4,819	52,564	50,223	51,045	22,596	13,737	7,655	12,111	227,918
109 <b>Asset Life</b>										
110 Weighted average remaining asset life	35	40	35	33	39	27	36	30	27	(years)
111 Weighted average expected total asset life	51	45	44	53	56	45	41	38	29	(years)



Company Name **Alpine Energy Limited**  
 For Year Ended **31 March 2020**

**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	<b>5a(i): Regulatory Tax Allowance</b>		
8	<b>Regulatory profit / (loss) before tax</b>		35,159
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	175	*
12	Amortisation of initial differences in asset values	2,722	
13	Amortisation of revaluations	777	
14			3,675
15			
16	<i>less</i> Total revaluations	5,549	
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	3,091	
21			8,641
22			
23	<b>Regulatory taxable income</b>		30,193
24			
25	<i>less</i> Utilised tax losses	-	
26	Regulatory net taxable income		30,193
27			
28	Corporate tax rate (%)	28%	
29	<b>Regulatory tax allowance</b>		8,454

\* 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	42,707	
37	<i>less</i> Amortisation of initial differences in asset values	2,722	
38	<i>plus</i> Adjustment for unamortised initial differences in assets acquired	-	
39	<i>less</i> Adjustment for unamortised initial differences in assets disposed	65	
40	Closing unamortised initial differences in asset values		39,919
41			
42	Opening weighted average remaining useful life of relevant assets (years)		15.7

Company Name **Alpine Energy Limited**  
 For Year Ended **31 March 2020**

**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 7.0

sch ref

44	<b>5a(iv): Amortisation of Revaluations</b>		<b>(\$000)</b>
45			
46	Opening sum of RAB values without revaluations	203,963	
47			
48	Adjusted depreciation	8,190	
49	Total depreciation	8,967	
50	Amortisation of revaluations		777
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	(11,456)	
61			
62	plus Tax effect of adjusted depreciation	2,293	
63			
64	less Tax effect of tax depreciation	4,038	
65			
66	plus Tax effect of other temporary differences*	18	
67			
68	less Tax effect of amortisation of initial differences in asset values	762	
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		(13,946)
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	120,257	
84	less Tax depreciation	14,423	
85	plus Regulatory tax asset value of assets commissioned	11,929	
86	less Regulatory tax asset value of asset disposals	65	
87	plus Lost and found assets adjustment	424	
88	plus Adjustment resulting from asset allocation	-	
89	plus Other adjustments to the RAB tax value	-	
90	Closing sum of regulatory tax asset values		118,123

Company Name	<b>Alpine Energy Limited</b>
For Year Ended	<b>31 March 2020</b>

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

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

*sch ref*

7	<b>5b(i): Summary—Related Party Transactions</b>	<b>(\$000)</b>	<b>(\$000)</b>
8	<b>Total regulatory income</b>		
9			
10	<b>Market value of asset disposals</b>		
11			
12	Service interruptions and emergencies	2,415	
13	Vegetation management	820	
14	Routine and corrective maintenance and inspection	2,680	
15	Asset replacement and renewal (opex)	295	
16	<b>Network opex</b>		<b>6,210</b>
17	Business support	–	
18	System operations and network support	135	
19	<b>Operational expenditure</b>		<b>6,345</b>
20	Consumer connection	2,940	
21	System growth	277	
22	Asset replacement and renewal (capex)	6,778	
23	Asset relocations	238	
24	Quality of supply	–	
25	Legislative and regulatory	–	
26	Other reliability, safety and environment	328	
27	<b>Expenditure on non-network assets</b>		<b>–</b>
28	<b>Expenditure on assets</b>		<b>10,561</b>
29	Cost of financing		
30	Value of capital contributions		
31	Value of vested assets		
32	<b>Capital Expenditure</b>		<b>10,561</b>
33	<b>Total expenditure</b>		<b>16,906</b>
34			
35	<b>Other related party transactions</b>		<b>70</b>

36	<b>5b(iii): Total Opex and Capex Related Party Transactions</b>		
37	<b>Name of related party</b>	<b>Nature of opex or capex service provided</b>	<b>Total value of transactions (\$000)</b>
38	Netcon - Capex	Consumer connection	2,940
39	Netcon - Capex	Asset replacement and renewal (capex)	6,778
40	Netcon - Capex	System growth	277
41	Netcon - Capex	Asset relocations	238
42	Netcon - Capex	Quality of supply	–
43	Netcon - Capex	Legislative and regulatory	–
44	Netcon - Capex	Other reliability, safety and environment	328
45	Netcon - Opex	Expenditure on non-network assets	–
46	Netcon - Opex	Service interruptions and emergencies	2,415
47	Netcon - Opex	Vegetation management	820
48	Netcon - Opex	Routine and corrective maintenance and inspection	2,680
49	Netcon - Opex	Asset replacement and renewal (opex)	295
50	Netcon - Opex	System operations and network support	135
51			
52			
53	<b>Total value of related party transactions</b>		<b>16,906</b>

\* include additional rows if needed

Company Name **Alpine Energy Limited**  
 For Year Ended **31 March 2020**

**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

7  
8  
9

**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	Debt issue cost readjustment
None	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
* 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								
Average opening and closing RAB values								
Attribution Rate (%)								
Term credit spread differential allowance								



Company Name **Alpine Energy Limited**  
 For Year Ended **31 March 2020**

**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		2,562			
12	Not directly attributable	-	-	-	-	Not Applicable
13	<b>Total attributable to regulated service</b>		2,562			
14	<b>Vegetation management</b>					
15	Directly attributable		1,036			
16	Not directly attributable	-	-	-	-	Not Applicable
17	<b>Total attributable to regulated service</b>		1,036			
18	<b>Routine and corrective maintenance and inspection</b>					
19	Directly attributable		3,426			
20	Not directly attributable	-	-	-	-	Not Applicable
21	<b>Total attributable to regulated service</b>		3,426			
22	<b>Asset replacement and renewal</b>					
23	Directly attributable		432			
24	Not directly attributable	-	-	-	-	Not Applicable
25	<b>Total attributable to regulated service</b>		432			
26	<b>System operations and network support</b>					
27	Directly attributable		8,118			
28	Not directly attributable	-	-	-	-	Not Applicable
29	<b>Total attributable to regulated service</b>		8,118			
30	<b>Business support</b>					
31	Directly attributable		-			
32	Not directly attributable	-	5,768	322	6,090	Not Applicable
33	<b>Total attributable to regulated service</b>		5,768			
34						
35	<b>Operating costs directly attributable</b>		15,575			
36	<b>Operating costs not directly attributable</b>	-	5,768	322	6,090	-
37	<b>Operational expenditure</b>		21,343			
38						

Company Name **Alpine Energy Limited**  
 For Year Ended **31 March 2020**

**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)
<b>40 Pass through and recoverable costs</b>	
<b>41 Pass through costs</b>	
42 Directly attributable	357
43 Not directly attributable	-
<b>44 Total attributable to regulated service</b>	<b>357</b>
<b>45 Recoverable costs</b>	
46 Directly attributable	18,125
47 Not directly attributable	-
<b>48 Total attributable to regulated service</b>	<b>18,125</b>

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

		(\$000)	
		CY-1	Current Year (CY)
<b>52 Change in cost allocation 1</b>			
53 Cost category	Business Support		
54 Original allocator or line items	Revenue	6,717	5,373
55 New allocator or line items	Employee Time	7,211	5,768
		(494)	(395)
56 Rationale for change	Costs are allocated based of time spent on regulated activities. In 2019, business support costs were allocated based on revenue. All other non-regulated expenditure has been excluded from the regulated expenditure at the point of allocating costs.		

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

		(\$000)	
		CY-1	Current Year (CY)
<b>70 Change in cost allocation 3</b>			
71 Cost category			
72 Original allocator or line items			
73 New allocator or line items		-	-
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 **Alpine Energy Limited**  
 For Year Ended **31 March 2020**

**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)
		<b>Electricity distribution services</b>
<b>Subtransmission lines</b>		
Directly attributable		13,170
Not directly attributable		-
<b>Total attributable to regulated service</b>		13,170
<b>Subtransmission cables</b>		
Directly attributable		4,819
Not directly attributable		-
<b>Total attributable to regulated service</b>		4,819
<b>Zone substations</b>		
Directly attributable		52,564
Not directly attributable		-
<b>Total attributable to regulated service</b>		52,564
<b>Distribution and LV lines</b>		
Directly attributable		50,223
Not directly attributable		-
<b>Total attributable to regulated service</b>		50,223
<b>Distribution and LV cables</b>		
Directly attributable		51,045
Not directly attributable		-
<b>Total attributable to regulated service</b>		51,045
<b>Distribution substations and transformers</b>		
Directly attributable		22,596
Not directly attributable		-
<b>Total attributable to regulated service</b>		22,596
<b>Distribution switchgear</b>		
Directly attributable		13,737
Not directly attributable		-
<b>Total attributable to regulated service</b>		13,737
<b>Other network assets</b>		
Directly attributable		7,655
Not directly attributable		-
<b>Total attributable to regulated service</b>		7,655
<b>Non-network assets</b>		
Directly attributable		6,028
Not directly attributable		6,082
<b>Total attributable to regulated service</b>		12,111
<b>Regulated service asset value directly attributable</b>		221,836
<b>Regulated service asset value not directly attributable</b>		6,082
<b>Total closing RAB value</b>		227,918

**5e(ii): Changes in Asset Allocations\* †**

		(\$000)	
		CY-1	Current Year (CY)
<b>Change in asset value allocation 1</b>			
Asset category	NA	-	-
Original allocator or line items	NA	-	-
New allocator or line items	NA	-	-
<b>Difference</b>		-	-
Rationale for change	Not required		
<b>Change in asset value allocation 2</b>			
Asset category	NA	-	-
Original allocator or line items	NA	-	-
New allocator or line items	NA	-	-
<b>Difference</b>		-	-
Rationale for change	Not required		
<b>Change in asset value allocation 3</b>			
Asset category	NA	-	-
Original allocator or line items	NA	-	-
New allocator or line items	NA	-	-
<b>Difference</b>		-	-
Rationale for change	Not required		

\* 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 component  
 † include additional rows if needed

Company Name **Alpine Energy Limited**  
 For Year Ended **31 March 2020**

**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

7	<b>6a(i): Expenditure on Assets</b>		<b>(\$000)</b>	<b>(\$000)</b>
8	Consumer connection			4,626
9	System growth			343
10	Asset replacement and renewal			8,817
11	Asset relocations			256
12	Reliability, safety and environment:			
13	Quality of supply		–	
14	Legislative and regulatory		–	
15	Other reliability, safety and environment		984	
16	<b>Total reliability, safety and environment</b>			<b>984</b>
17	<b>Expenditure on network assets</b>			<b>15,025</b>
18	Expenditure on non-network assets			1,026
19				
20	<b>Expenditure on assets</b>			<b>16,051</b>
21	plus Cost of financing			–
22	less Value of capital contributions			2,817
23	plus Value of vested assets			–
24				
25	<b>Capital expenditure</b>			<b>13,234</b>
26	<b>6a(ii): Subcomponents of Expenditure on Assets (where known)</b>			<b>(\$000)</b>
27	Energy efficiency and demand side management, reduction of energy losses			–
28	Overhead to underground conversion			245
29	Research and development			–
30	<b>6a(iii): Consumer Connection</b>			
31	<i>Consumer types defined by EDB*</i>		<b>(\$000)</b>	<b>(\$000)</b>
32	Commercial		2,165	
33	HV alterations		558	
34	Irrigation		331	
35	LV alterations		21	
36	Residential		510	
37	Subdivision		1,042	
38	<i>* include additional rows if needed</i>			
39	<b>Consumer connection expenditure</b>			<b>4,626</b>
40	less Capital contributions funding consumer connection expenditure		2,640	
41	<b>Consumer connection less capital contributions</b>			<b>1,985</b>
42	<b>6a(iv): System Growth and Asset Replacement and Renewal</b>			
43			<b>System Growth</b>	<b>Asset Replacement and Renewal</b>
44			<b>(\$000)</b>	<b>(\$000)</b>
45	Subtransmission		–	651
46	Zone substations		124	1,264
47	Distribution and LV lines		31	4,539
48	Distribution and LV cables		161	304
49	Distribution substations and transformers		–	1,021
50	Distribution switchgear		27	318
51	Other network assets		–	720
52	<b>System growth and asset replacement and renewal expenditure</b>		<b>343</b>	<b>8,817</b>
53	less Capital contributions funding system growth and asset replacement and renewal		–	140
54	<b>System growth and asset replacement and renewal less capital contributions</b>		<b>343</b>	<b>8,676</b>
55				
56	<b>6a(v): Asset Relocations</b>			
57	<i>Project or programme*</i>		<b>(\$000)</b>	<b>(\$000)</b>
58	Forth Street 11 kV OHUG		21	
59	Orton Rangl Mouth Rd AStay relocation		4	
60	Replace Douglas St transformer.		29	
61	TIM Dawson Street OHUG		128	
62	U/G cables to remove O/H		73	
63	<i>* include additional rows if needed</i>			
64	All other projects or programmes - asset relocations		0	
65	<b>Asset relocations expenditure</b>			<b>256</b>
66	less Capital contributions funding asset relocations		4	
67	<b>Asset relocations less capital contributions</b>			<b>252</b>

Company Name **Alpine Energy Limited**  
 For Year Ended **31 March 2020**

**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	Project or programme*	(\$000)	(\$000)	
71		-		
72		-		
73		-		
74		-		
75		-		
76	* include additional rows if needed			
77	All other projects programmes - quality of supply	-		
78	<b>Quality of supply expenditure</b>		-	
79	less Capital contributions funding quality of supply	-		
80	<b>Quality of supply less capital contributions</b>		-	
81	<b>6a(vii): Legislative and Regulatory</b>			
82	Project or programme*	(\$000)	(\$000)	
83		-		
84		-		
85		-		
86		-		
87		-		
88	* include additional rows if needed			
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	Project or programme*	(\$000)	(\$000)	
95	Reclosers	173		
96	Automation	271		
97	Ablay Locks	66		
98	Communications	474		
99				
100	* include additional rows if needed			
101	All other projects or programmes - other reliability, safety and environment	-		
102	<b>Other reliability, safety and environment expenditure</b>		984	
103	less Capital contributions funding other reliability, safety and environment	33		
104	<b>Other reliability, safety and environment less capital contributions</b>		951	
105				
106	<b>6a(ix): Non-Network Assets</b>			
107	<b>Routine expenditure</b>			
108	Project or programme*	(\$000)	(\$000)	
109	Plant and Equipment	28		
110	Software and IT	678		
111	System Operations & Network Support	55		
112	Land and Building	157		
113	Vehicles	107		
114	* include additional rows if needed			
115	All other projects or programmes - routine expenditure	-		
116	<b>Routine expenditure</b>		1,025	
117	<b>Atypical expenditure</b>			
118	Project or programme*	(\$000)	(\$000)	
119	Painting	1		
120		-		
121		-		
122		-		
123		-		
124	* include additional rows if needed			
125	All other projects or programmes - atypical expenditure	-		
126	<b>Atypical expenditure</b>		1	
127				
128	<b>Expenditure on non-network assets</b>		1,026	

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 For Year Ended **31 March 2020**

**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	2,562	
9	Vegetation management	1,036	
10	Routine and corrective maintenance and inspection	3,426	
11	Asset replacement and renewal	432	
12	<b>Network opex</b>		7,457
13	System operations and network support	8,118	
14	Business support	5,768	
15	<b>Non-network opex</b>		13,886
16			
17	<b>Operational expenditure</b>		21,343
18	<b>6b(ii): Subcomponents of Operational Expenditure (where known)</b>		
19	Energy efficiency and demand side management, reduction of energy losses		-
20	Direct billing*		-
21	Research and development		3
22	Insurance		259
23	* Direct billing expenditure by suppliers that directly bill the majority of their consumers		

Company Name **Alpine Energy Limited**  
For Year Ended **31 March 2020**

## 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) <sup>1</sup>	Actual (\$000)	% variance
7	Line charge revenue	83,056	78,402	(6%)
9	<b>7(ii): Expenditure on Assets</b>	<b>Forecast (\$000) <sup>2</sup></b>	<b>Actual (\$000)</b>	<b>% variance</b>
10	Consumer connection	2,000	4,626	131%
11	System growth	1,072	343	(68%)
12	Asset replacement and renewal	8,045	8,817	10%
13	Asset relocations	350	256	(27%)
14	Reliability, safety and environment:			
15	Quality of supply	626	–	(100%)
16	Legislative and regulatory	–	–	–
17	Other reliability, safety and environment	765	984	29%
18	<b>Total reliability, safety and environment</b>	<b>1,391</b>	<b>984</b>	<b>(29%)</b>
19	<b>Expenditure on network assets</b>	<b>12,858</b>	<b>15,025</b>	<b>17%</b>
20	Expenditure on non-network assets	2,842	1,026	(64%)
21	Expenditure on assets	15,700	16,051	2%
22	<b>7(iii): Operational Expenditure</b>			
23	Service interruptions and emergencies	1,750	2,562	46%
24	Vegetation management	800	1,036	30%
25	Routine and corrective maintenance and inspection	2,700	3,426	27%
26	Asset replacement and renewal	700	432	(38%)
27	<b>Network opex</b>	<b>5,950</b>	<b>7,457</b>	<b>25%</b>
28	System operations and network support	4,629	8,118	75%
29	Business support	9,183	5,768	(37%)
30	<b>Non-network opex</b>	<b>13,812</b>	<b>13,886</b>	<b>1%</b>
31	<b>Operational expenditure</b>	<b>19,762</b>	<b>21,343</b>	<b>8%</b>
32	<b>7(iv): Subcomponents of Expenditure on Assets (where known)</b>			
33	Energy efficiency and demand side management, reduction of energy losses	–	–	–
34	Overhead to underground conversion	–	245	–
35	Research and development	–	–	–
36				
37	<b>7(v): Subcomponents of Operational Expenditure (where known)</b>			
38	Energy efficiency and demand side management, reduction of energy losses	–	–	–
39	Direct billing	–	–	–
40	Research and development	–	3	–
41	Insurance	249	259	4%

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 2020
Network / Sub-Network Name	Not Applicable

**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**

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	1,897	11,536
LOWLCA	Low Charge	Standard	10,220	58,733
LOWUHCA	Low Uncontrolled	Standard	17	96
LOWULCA	Low Uncontrolled	Standard	38	213
015HCA	015	Standard	6,003	55,800
015LCA	015	Standard	12,050	102,316
015UHCA	015 Uncontrolled	Standard	35	432
015ULCA	015 Uncontrolled	Standard	41	369
360HCA	360	Standard	523	12,056
360LCA	360	Standard	740	22,411
360UHCA	360 Uncontrolled	Standard	14	641
360ULCA	360 Uncontrolled	Standard	16	370
ASSHCA	Assessed	Standard	1,295	138,125
ASSLCA	Assessed	Standard	399	37,748
TOU400HCA	TOU 400V	Standard	38	24,150
TOU400LCA	TOU 400V	Standard	102	101,425
TOU11HCA	TOU 11kV	Standard	6	26,654
TOU11LCA	TOU 11kV	Standard	4	14,290
Individual Direct Billed	IND	Non-standard	12	200,794
<i>Add extra rows for additional consumer groups or price category codes as necessary</i>				
Standard consumer totals			33,434	607,364
Non-standard consumer totals			12	200,794
Total for all consumers			33,446	808,158

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
	Number of ICP's	MWH	MWH	MW	Number of ICP's	MWH	MWH	MW
	1,897	8,076	3,461	-	-	8,076	3,461	-
	10,220	41,113	17,620	-	-	41,113	17,620	-
	17	67	29	-	-	67	29	-
	38	149	64	-	-	149	64	-
	6,003	39,060	16,740	-	-	39,060	16,740	-
	12,050	71,621	30,695	-	-	71,621	30,695	-
	35	303	130	-	35	303	130	-
	41	258	111	-	41	258	111	-
	523	8,439	3,617	-	-	8,439	3,617	-
	740	15,687	6,723	-	-	15,687	6,723	-
	14	448	192	-	14	448	192	-
	16	259	111	-	16	259	111	-
	1,295	96,562	41,563	111	-	96,562	41,563	111
	399	26,273	11,475	39	-	26,273	11,475	39
	38	16,835	7,315	8	-	16,835	7,315	8
	102	70,037	31,388	23	-	70,037	31,388	23
	6	19,194	7,461	7	-	19,194	7,461	7
	4	9,940	4,349	4	-	9,940	4,349	4
	12	-	-	-	-	9,947	4,074	-
	33,434	424,322	-	-	105	424,322	183,042	191
	12	-	-	-	-	9,947	4,074	-
	33,446	424,322	-	-	105	434,269	187,115	191

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



Company Name	Alpine Energy Limited
For Year Ended	31 March 2020
Network / Sub-Network Name	Not Applicable

**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	\$756	-
LOWLCA	Low Charge	Standard	\$4,204	-
LOWUHCA	Low Uncontrolled	Standard	\$10	-
LOWULCA	Low Uncontrolled	Standard	\$16	-
015HCA	015	Standard	\$8,812	-
015LCA	015	Standard	\$18,539	-
015UHCA	015 Uncontrolled	Standard	\$34	-
015ULCA	015 Uncontrolled	Standard	\$39	-
360HCA	360	Standard	\$2,115	-
360LCA	360	Standard	\$3,000	-
360UHCA	360 Uncontrolled	Standard	\$68	-
360ULCA	360 Uncontrolled	Standard	\$47	-
ASSHCA	Assessed	Standard	\$18,903	-
ASSLCA	Assessed	Standard	\$5,211	-
TOU400HCA	TOU 400V	Standard	\$2,126	-
TOU400LCA	TOU 400V	Standard	\$5,978	-
TOU11HCA	TOU 11kV	Standard	\$1,855	-
TOU11LCA	TOU 11kV	Standard	\$1,031	-
Individual Direct Billed	IND	Non-standard	\$5,659	-
Standard consumer totals			\$72,743	-
Non-standard consumer totals			\$5,659	-
Total for all consumers			\$78,402	-

Total distribution line charge revenue	Total transmission line charge revenue (if available)	Rate (eg, \$ per day, \$ per kWh, etc.)
\$545	\$211	
\$3,056	\$1,148	
\$5	\$5	
\$9	\$7	
\$7,430	\$1,382	
\$15,710	\$2,829	
\$19	\$16	
\$19	\$20	
\$1,861	\$254	
\$2,413	\$587	
\$53	\$15	
\$38	\$9	
\$14,689	\$4,215	
\$3,679	\$1,533	
\$1,472	\$654	
\$3,638	\$2,339	
\$1,196	\$659	
\$610	\$421	
\$3,689	\$1,970	
Standard consumer totals		\$56,442 \$16,302
Non-standard consumer totals		\$3,689 \$1,970
Total for all consumers		\$60,131 \$18,272

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)
\$106	\$378	\$61	-	-	\$182	\$30	-
\$575	\$2,136	\$345	-	-	\$987	\$161	-
\$1	\$3	\$1	-	-	\$4	\$1	-
\$2	\$6	\$1	-	-	\$6	\$1	-
\$3,042	\$3,772	\$616	-	-	\$1,188	\$194	-
\$5,622	\$8,671	\$1,417	-	-	\$2,433	\$396	-
\$17	\$2	\$0	-	\$8	\$7	\$1	-
\$19	\$0	\$0	-	\$10	\$9	\$1	-
\$1,119	\$638	\$104	-	-	\$218	\$36	-
\$1,167	\$1,071	\$175	-	-	\$505	\$82	-
\$30	\$19	\$3	-	\$3	\$10	\$2	-
\$24	\$12	\$2	-	\$4	\$5	\$1	-
\$918	\$6,327	\$1,045	\$6,398	-	\$2,170	\$357	\$1,688
\$192	\$1,762	\$298	\$1,426	-	\$808	\$135	\$590
\$19	\$332	\$62	\$1,060	-	\$149	\$28	\$476
\$41	\$1,135	\$219	\$2,244	-	\$696	\$134	\$1,509
\$2	\$528	\$88	\$579	-	\$296	\$50	\$313
\$2	\$193	\$36	\$380	-	\$138	\$26	\$256
\$3,689	-	-	-	\$1,970	-	-	-
Standard consumer totals				\$24	\$9,810	\$1,635	\$4,832
Non-standard consumer totals				\$1,970	-	-	-
Total for all consumers				\$1,994	\$9,810	\$1,635	\$4,832

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 2020
Network / Sub-network Name	Not Applicable

**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.	24,783	24,895	112	3
9	All	Overhead Line	Wood poles	No.	20,933	20,448	(485)	3
10	All	Overhead Line	Other pole types	No.	387	301	(86)	3
11	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	249	249	(0)	3
12	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km	0	0	-	4
13	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km	31	31	0	4
14	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km			-	[Select one]
15	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressurised)	km			-	[Select one]
16	HV	Subtransmission Cable	Subtransmission UG up to 66kV (PILC)	km			-	[Select one]
17	HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	km			-	[Select one]
18	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Oil pressurised)	km			-	[Select one]
19	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Gas Pressurised)	km			-	[Select one]
20	HV	Subtransmission Cable	Subtransmission UG 110kV+ (PILC)	km			-	[Select one]
21	HV	Subtransmission Cable	Subtransmission submarine cable	km			-	[Select one]
22	HV	Zone substation Buildings	Zone substations up to 66kV	No.	17	21	4	4
23	HV	Zone substation Buildings	Zone substations 110kV+	No.	2	2	-	4
24	HV	Zone substation switchgear	50/66/110kV CB (Indoor)	No.			-	[Select one]
25	HV	Zone substation switchgear	50/66/110kV CB (Outdoor)	No.	2	2	-	4
26	HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No.	6	6	-	4
27	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.	112	117	5	4
28	HV	Zone substation switchgear	33kV RMU	No.	-	1	1	4
29	HV	Zone substation switchgear	22/33kV CB (Indoor)	No.	7	7	-	4
30	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.	27	26	(1)	4
31	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.	171	169	(2)	4
32	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.	6	5	(1)	4
33	HV	Zone Substation Transformer	Zone Substation Transformers	No.	29	26	(3)	4
34	HV	Distribution Line	Distribution OH Open Wire Conductor	km	2,911	2,900	(11)	3
35	HV	Distribution Line	Distribution OH Aerial Cable Conductor	km			-	[Select one]
36	HV	Distribution Line	SWER conductor	km	7	7	-	4
37	HV	Distribution Cable	Distribution UG XLPE or PVC	km	268	282	14	2
38	HV	Distribution Cable	Distribution UG PILC	km	144	144	(0)	2
39	HV	Distribution Cable	Distribution Submarine Cable	km			-	[Select one]
40	HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers	No.	47	61	14	4
41	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.			-	[Select one]
42	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	6,859	6,847	(12)	2
43	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	13	23	10	3
44	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.	415	421	6	3
45	HV	Distribution Transformer	Pole Mounted Transformer	No.	4,962	4,957	(5)	2
46	HV	Distribution Transformer	Ground Mounted Transformer	No.	997	1,041	44	2
47	HV	Distribution Transformer	Voltage regulators	No.	63	68	5	4
48	HV	Distribution Substations	Ground Mounted Substation Housing	No.			-	[Select one]
49	LV	LV Line	LV OH Conductor	km	362	358	(4)	3
50	LV	LV Cable	LV UG Cable	km	344	351	7	3
51	LV	LV Street lighting	LV OH/UG Streetlight circuit	km			-	[Select one]
52	LV	Connections	OH/UG consumer service connections	No.	33,247	33,534	287	4
53	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.	443	451	8	3
54	All	SCADA and communications	SCADA and communications equipment operating as a single system	Lot	231	276	45	3
55	All	Capacitor Banks	Capacitors including controls	No.	20	9	(11)	4
56	All	Load Control	Centralised plant	Lot	7	7	-	4
57	All	Load Control	Relays	No.	20,200		(20,200)	2
58	All	Civils	Cable Tunnels	km			-	[Select one]



Company Name	Alpine Energy Limited
For Year Ended	31 March 2020
Network / Sub-network Name	Not Applicable

**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	0	0
12	50kV & 66kV	–	–
13	33kV	249	31
14	SWER (all SWER voltages)	–	7
15	22kV (other than SWER)	145	12
16	6.6kV to 11kV (inclusive—other than SWER)	2,755	415
17	Low voltage (< 1kV)	357	351
18	<b>Total circuit length (for supply)</b>	<b>3,506</b>	<b>817</b>
19			
20	Dedicated street lighting circuit length (km)	–	–
21	Circuit in sensitive areas (conservation areas, iwi territory etc) (km)		36
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	307	9%
25	Rural	3,103	89%
26	Remote only	–	–
27	Rugged only	96	3%
28	Remote and rugged	–	–
29	Unallocated overhead lines	–	–
30	<b>Total overhead length</b>	<b>3,506</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)	1,757	41%
34		<b>Circuit length (km)</b>	<b>(% of total overhead length)</b>
35	Overhead circuit requiring vegetation management	624	18%

Company Name **Alpine Energy Limited**  
 For Year Ended **31 March 2020**

**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	None		
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 2020
Network / Sub-network Name	Not Applicable

**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

Consumer types defined by EDB*	Number of connections (ICPs)
Low Charge	14
Low Uncontrolled	-
015	295
015 Uncontrolled	-
360	23
360 Uncontrolled	1
Assessed	18
TOU 400V	-
TOU 11kV	-
IND	-
<b>Connections total</b>	<b>351</b>

\* include additional rows if needed

**Distributed generation**

Number of connections made in year	57	connections
Capacity of distributed generation installed in year	0.33	MVA

**22 9e(ii): System Demand**

	Demand at time of maximum coincident demand (MW)
<b>Maximum coincident system demand</b>	
GXP demand	140
plus Distributed generation output at HV and above	-
<b>Maximum coincident system demand</b>	<b>140</b>
less Net transfers to (from) other EDBs at HV and above	-
<b>Demand on system for supply to consumers' connection points</b>	<b>140</b>

**Electricity volumes carried**

	Energy (GWh)
Electricity supplied from GXPs	827
less Electricity exports to GXPs	15
plus Electricity supplied from distributed generation	28
less Net electricity supplied to (from) other EDBs	-
<b>Electricity entering system for supply to consumers' connection points</b>	<b>841</b>
less Total energy delivered to ICPs	808
<b>Electricity losses (loss ratio)</b>	<b>33</b> 3.9%
<b>Load factor</b>	<b>0.69</b>

**41 9e(iii): Transformer Capacity**

	(MVA)
Distribution transformer capacity (EDB owned)	584
Distribution transformer capacity (Non-EDB owned, estimated)	20
<b>Total distribution transformer capacity</b>	<b>604</b>
<b>Zone substation transformer capacity</b>	<b>378</b>

Company Name	Alpine Energy Limited
For Year Ended	31 March 2020
Network / Sub-network Name	Not Applicable

**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)	-
11 Class B (planned interruptions on the network)	303
12 Class C (unplanned interruptions on the network)	268
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)	-
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>571</b>

21 **Interruption restoration**

	≤3Hrs	>3hrs
22 Class C interruptions restored within	190	78

24 **SAIFI and SAIDI by class**

	SAIFI	SAIDI
25 Class A (planned interruptions by Transpower)	-	-
26 Class B (planned interruptions on the network)	0.1873	55.34
27 Class C (unplanned interruptions on the network)	0.7416	98.86
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)	-	-
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>0.9288</b>	<b>154.20</b>

36 **Normalised SAIFI and SAIDI**

	Normalised SAIFI	Normalised SAIDI
37 Classes B & C (interruptions on the network)	0.9300	154.20

Company Name	Alpine Energy Limited
For Year Ended	31 March 2020
Network / Sub-network Name	Not Applicable

**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	0.0666	14.50
Vegetation	0.0708	7.52
Adverse weather	0.1542	28.07
Adverse environment	0.0029	5.35
Third party interference	0.1231	19.30
Wildlife	0.0395	4.56
Human error	0.0867	0.79
Defective equipment	0.1024	9.68
Cause unknown	0.0886	9.08

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

Main equipment involved	SAIFI	SAIDI
Subtransmission lines	0.0184	6.31
Subtransmission cables	0.0001	0.02
Subtransmission other	0.0001	0.00
Distribution lines (excluding LV)	0.1338	39.30
Distribution cables (excluding LV)	0.0103	2.51
Distribution other (excluding LV)	0.0247	7.19

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

Main equipment involved	SAIFI	SAIDI
Subtransmission lines	0.0217	6.71
Subtransmission cables	-	-
Subtransmission other	0.0453	0.67
Distribution lines (excluding LV)	0.6323	86.03
Distribution cables (excluding LV)	0.0292	3.49
Distribution other (excluding LV)	0.0131	1.95

**10(v): Fault Rate**

Main equipment involved	Number of Faults	Circuit length (km)	Fault rate (faults per 100km)
Subtransmission lines	5	249	2.01
Subtransmission cables	-	31	-
Subtransmission other	1		
Distribution lines (excluding LV)	194	2,907	6.67
Distribution cables (excluding LV)	5	426	1.17
Distribution other (excluding LV)	63		
<b>Total</b>	<b>268</b>		