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 2018

Templates for Schedules 1–10 excluding 5f–5g

Template Version 4.1. Prepared 24 March 2015

Table of Contents

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 2018**

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**

sch ref		Expenditure per GWh energy delivered to ICPs ($/GWh)	Expenditure per average no. of ICPs ($/ICP)	Expenditure per MW maximum coincident system demand ($/MW)	Expenditure per km circuit length ($/km)	Expenditure per MVA of capacity from EDB-owned distribution transformers ($/MVA)
8						
9	**Operational expenditure**	22,112	521	117,523	4,004	30,178
10	Network	6,954	164	36,958	1,259	9,490
11	Non-network	15,158	357	80,564	2,745	20,688
12						
13	**Expenditure on assets**	40,645	957	216,023	7,361	55,471
14	Network	24,845	585	132,047	4,499	33,907
15	Non-network	15,800	372	83,977	2,861	21,564
16						

17 **1(ii): Revenue metrics**

sch ref		Revenue per GWh energy delivered to ICPs ($/GWh)	Revenue per average no. of ICPs ($/ICP)
18			
19	**Total consumer line charge revenue**	77,883	1,834
20	Standard consumer line charge revenue	89,878	1,652
21	Non-standard consumer line charge revenue	35,259	501,134
22			

23 **1(iii): Service intensity measures**

sch ref			
24			
25	Demand density	34	*Maximum coincident system demand per km of circuit length (for supply) (kW/km)*
26	Volume density	181	*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	23,550	*Total energy delivered to ICPs per average number of ICPs (kWh/ICP)*
29			

30 **1(iv): Composition of regulatory income**

sch ref		($000)	% of revenue
31			
32	Operational expenditure	17,171	28.32%
33	Pass-through and recoverable costs excluding financial incentives and wash-ups	18,135	29.91%
34	Total depreciation	9,046	14.92%
35	Total revaluations	2,093	3.45%
36	Regulatory tax allowance	4,470	7.37%
37	Regulatory profit/(loss) including financial incentives and wash-ups	13,905	22.93%
38	**Total regulatory income**	60,634	
39			

40 **1(v): Reliability**

sch ref			
41			
42	Interruption rate	8.00	*Interruptions per 100 circuit km*

Company Name	**Alpine Energy Limited**
For Year Ended	**31 March 2018**

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				
7	**2(i): Return on Investment**	**CY-2**	**CY-1**	**Current Year CY**
8		**31 Mar 16**	**31 Mar 17**	**31 Mar 18**
9	**ROI – comparable to a post tax WACC**	**%**	**%**	**%**
10	Reflecting all revenue earned	5.94%	8.10%	6.64%
11	Excluding revenue earned from financial incentives	5.94%	8.10%	6.66%
12	Excluding revenue earned from financial incentives and wash-ups	3.79%	5.65%	4.32%
13				
14	**Mid-point estimate of post tax WACC**	5.37%	4.77%	5.04%
15	25th percentile estimate	4.66%	4.05%	4.36%
16	75th percentile estimate	6.09%	5.48%	5.72%
17				
18				
19	**ROI – comparable to a vanilla WACC**			
20	Reflecting all revenue earned	6.59%	8.65%	7.23%
21	Excluding revenue earned from financial incentives	6.59%	8.65%	7.26%
22	Excluding revenue earned from financial incentives and wash-ups	4.44%	6.19%	4.91%
23				
24	**WACC rate used to set regulatory price path**	7.19%	7.19%	7.19%
25				
26	**Mid-point estimate of vanilla WACC**	6.02%	5.31%	5.60%
27	25th percentile estimate	5.30%	4.59%	4.92%
28	75th percentile estimate	6.74%	6.03%	6.29%
29				
30	**2(ii): Information Supporting the ROI**		**($000)**	
31				
32	Total opening RAB value	190,264		
33	*plus* Opening deferred tax	(7,529)		
34	**Opening RIV**		182,735	
35				
36	**Line charge revenue**		60,481	
37				
38	Expenses cash outflow	35,306		
39	*add* Assets commissioned	31,047		
40	*less* Asset disposals	–		
41	*add* Tax payments	2,564		
42	*less* Other regulated income	153		
43	**Mid-year net cash outflows**		68,764	
44				
45	**Term credit spread differential allowance**		–	
46				
47	Total closing RAB value	214,359		
48	*less* Adjustment resulting from asset allocation	–		
49	*less* Lost and found assets adjustment	–		
50	*plus* Closing deferred tax	(9,435)		
51	**Closing RIV**		204,924	
52				
53	**ROI – comparable to a vanilla WACC**			7.23%
54				
55	Leverage (%)			44%
56	Cost of debt assumption (%)			4.80%
57	Corporate tax rate (%)			28%
58				
59	**ROI – comparable to a post tax WACC**			6.64%
60				

Company Name	**Alpine Energy Limited**
For Year Ended	**31 March 2018**

SCHEDULE 2: REPORT ON RETURN ON INVESTMENT

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

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	–	–	–	–	–	–
Total	–	–	–	–	–	–

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	3.94%
Year-end ROI – comparable to a post tax WACC	3.35%

** 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	(76)	
Other financial incentives	–	
Financial incentives		(76)
Impact of financial incentives on ROI		–0.03%
Input methodology claw-back	2,710	
Recoverable customised price-quality path costs	–	
Catastrophic event allowance	–	
Capex wash-up adjustment	557	
Transmission asset wash-up adjustment	–	
2013–2015 NPV wash-up allowance	2,899	
Reconsideration event allowance	–	
Other wash-ups	–	
Wash-up costs		6,166
Impact of wash-up costs on ROI		2.35%

Company Name	**Alpine Energy Limited**
For Year Ended	**31 March 2018**

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

sch ref

sch ref				($000)
7		**3(i): Regulatory Profit**		($000)
8		**Income**		
9		Line charge revenue		60,481
10	*plus*	Gains / (losses) on asset disposals		–
11	*plus*	Other regulated income (other than gains / (losses) on asset disposals)		153
12				
13		**Total regulatory income**		60,634
14		**Expenses**		
15	*less*	Operational expenditure		17,171
16				
17	*less*	Pass-through and recoverable costs excluding financial incentives and wash-ups		18,135
18				
19		**Operating surplus / (deficit)**		25,328
20				
21	*less*	Total depreciation		9,046
22				
23	*plus*	Total revaluations		2,093
24				
25		**Regulatory profit / (loss) before tax**		18,375
26				
27	*less*	Term credit spread differential allowance		–
28				
29	*less*	Regulatory tax allowance		4,470
30				
31		**Regulatory profit/(loss) including financial incentives and wash-ups**		13,905
32				
33		**3(ii): Pass-through and Recoverable Costs excluding Financial Incentives and Wash-**	($000)	
34		**Pass through costs**		
35		Rates	76	
36		Commerce Act levies	53	
37		Industry levies	155	
38		CPP specified pass through costs	NA	
39		**Recoverable costs excluding financial incentives and wash-ups**		
40		Electricity lines service charge payable to Transpower	16,332	
41		Transpower new investment contract charges	1,518	
42		System operator services	–	
43		Distributed generation allowance	NA	
44		Extended reserves allowance	NA	
45		Other recoverable costs excluding financial incentives and wash-ups	NA	
46		**Pass-through and recoverable costs excluding financial incentives and wash-ups**		18,135
47				

Company Name	**Alpine Energy Limited**
For Year Ended	**31 March 2018**

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

sch ref				
48	**3(iii): Incremental Rolling Incentive Scheme**		**($000)**	
49			**CY-1**	**CY**
50			**31 Mar 17**	**31 Mar 18**
51	Allowed controllable opex		NA	NA
52	Actual controllable opex		NA	NA
53				
54	Incremental change in year			NA
55				
56			**Previous years' incremental change**	**Previous years' incremental change adjusted for inflation**
57	CY-5	31 Mar 13	NA	NA
58	CY-4	31 Mar 14	NA	NA
59	CY-3	31 Mar 15	NA	NA
60	CY-2	31 Mar 16	NA	NA
61	CY-1	31 Mar 17	NA	NA
62	**Net incremental rolling incentive scheme**			–
63				
64	**Net recoverable costs allowed under incremental rolling incentive scheme**			–
65	**3(iv): Merger and Acquisition Expenditure**			
70				**($000)**
66	Merger and acquisition expenditure			NA
67				
68	*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)*			
69	**3(v): Other Disclosures**			
70				**($000)**
71	Self-insurance allowance			NA

Company Name	Alpine Energy Limited
For Year Ended	31 March 2018

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							
7	**4(i): Regulatory Asset Base Value (Rolled Forward)**		**RAB**	**RAB**	**RAB**	**RAB**	**RAB**
8		for year ended	**31 Mar 14**	**31 Mar 15**	**31 Mar 16**	**31 Mar 17**	**31 Mar 18**
9			**($000)**	**($000)**	**($000)**	**($000)**	**($000)**
10	**Total opening RAB value**		153,233	159,366	172,594	175,913	190,264
11							
12	*less* **Total depreciation**		7,197	6,204	7,000	7,463	9,046
13							
14	*plus* **Total revaluations**		2,347	134	715	3,805	2,093
15							
16	*plus* **Assets commissioned**		11,152	18,705	11,857	18,589	31,047
17							
18	*less* **Asset disposals**		168	225	87	306	–
19							
20	*plus* **Lost and found assets adjustment**		–	817	(2,166)	(274)	–
21							
22	*plus* **Adjustment resulting from asset allocation**		–	1.0	(0)	1	–
23							
24	**Total closing RAB value**		159,366	172,594	175,913	190,264	214,359
25							

26	**4(ii): Unallocated Regulatory Asset Base**				
27		**Unallocated RAB ***		**RAB**	
28		**($000)**	**($000)**	**($000)**	**($000)**
29	**Total opening RAB value**		190,264		190,264
30	*less*				
31	**Total depreciation**		9,046		9,046
32	*plus*				
33	**Total revaluations**		2,093		2,093
34	*plus*				
35	Assets commissioned (other than below)	21,046		21,046	
36	Assets acquired from a regulated supplier	NA		NA	
37	Assets acquired from a related party	10,002		10,002	
38	**Assets commissioned**		31,047		31,047
39	*less*				
40	Asset disposals (other than below)	–		–	
41	Asset disposals to a regulated supplier	NA		NA	
42	Asset disposals to a related party	–		–	
43	**Asset disposals**		–		–
44					
45	*plus* **Lost and found assets adjustment**		–		–
46					
47	*plus* **Adjustment resulting from asset allocation**				–
48					
49	**Total closing RAB value**		214,359		214,359

** 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.*

50

Company Name	**Alpine Energy Limited**
For Year Ended	**31 March 2018**

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		**4(iii): Calculation of Revaluation Rate and Revaluation of Assets**				
53						
54		CPI_4				1,011
55		CPI_4^{-4}				1,000
56		Revaluation rate (%)				1.10%
57						
58			**Unallocated RAB ***		**RAB**	
59			**($000)**	**($000)**	**($000)**	**($000)**
60		Total opening RAB value	190,264		190,264	
61	*less*	Opening value of fully depreciated, disposed and lost assets	–		–	
62						
63		Total opening RAB value subject to revaluation	190,264		190,264	
64		**Total revaluations**		2,093		2,093
65						
66		**4(iv): Roll Forward of Works Under Construction**				
67			**Unallocated works under construction**		**Allocated works under construction**	
68		**Works under construction—preceding disclosure year**		8,101		8,101
69	*plus*	Capital expenditure	27,429		27,429	
70	*less*	Assets commissioned	31,047		31,047	
71	*plus*	Adjustment resulting from asset allocation			–	
72		**Works under construction - current disclosure year**		4,482		4,482
73						
74		Highest rate of capitalised finance applied				–
75						

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For Year Ended	**31 March 2018**

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

sch ref		Unallocated RAB *		RAB	
77					
78		($000)	($000)	($000)	($000)
79	Depreciation - standard	6,992		6,992	
80	Depreciation - no standard life assets	2,054		2,054	
81	Depreciation - modified life assets	–		–	
82	Depreciation - alternative depreciation in accordance with CPP	–		–	
83	**Total depreciation**		9,046		9,046
84					

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

($000 unless otherwise specified)

sch ref	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	None	Not Applicable	Not Applicable	Not Applicable	Not Applicable
88					
89					
90					
91					
92					
93					
94					

95 ** include additional rows if needed*

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

97 **($000 unless otherwise specified)**

sch ref			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		**Total opening RAB value**	12,937	740	36,588	45,661	49,494	24,377	8,489	5,439	6,538	190,264
100	*less*	Total depreciation	572	25	1,328	2,040	1,474	976	233	344	2,054	9,046
101	*plus*	Total revaluations	142	8	402	502	544	268	93	60	72	2,093
102	*plus*	Assets commissioned	343	2,407	6,462	1,589	100	1,432	2,049	979	15,686	31,047
103	*less*	Asset disposals	–	–	–	–	–	–	–	–	–	–
104	*plus*	Lost and found assets adjustment	–	–	–	–	–	–	–	–	–	–
105	*plus*	Adjustment resulting from asset allocatic	–	–	–	–	–	–	–	–	–	–
106	*plus*	Asset category transfers	–	–	–	–	–	–	–	–	–	–
107		**Total closing RAB value**	12,850	3,130	42,125	45,712	48,664	25,102	10,398	6,135	20,242	214,359
108												
109		**Asset Life**										
110		Weighted average remaining asset life	35	42	35	32	40	28	37	26	13	(years)
111		Weighted average expected total asset li	51	45	44	53	55	45	42	36	18	(years)

Company Name	**Alpine Energy Limited**
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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 2.8.

sch ref					
7	**5a(i): Regulatory Tax Allowance**			**($000)**	
8		**Regulatory profit / (loss) before tax**		18,375	
9					
10	*plus*	Income not included in regulatory profit / (loss) before tax but taxable	–		*
11		Expenditure or loss in regulatory profit / (loss) before tax but not deductible	96		*
12		Amortisation of initial differences in asset values	2,722		
13		Amortisation of revaluations	633		
14				3,451	
15					
16	*less*	Total revaluations	2,093		
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	3,770		
21				5,863	
22					
23		**Regulatory taxable income**		15,963	
24					
25	*less*	Utilised tax losses	–		
26		Regulatory net taxable income		15,963	
27					
28		Corporate tax rate (%)	28%		
29		**Regulatory tax allowance**		4,470	
30					
31	*	Workings to be provided in Schedule 14			
32	**5a(ii): Disclosure of Permanent Differences**				
33		In Schedule 14, Box 5, provide descriptions and workings of items recorded in the asterisked categories in Schedule 5a(i).			
34	**5a(iii): Amortisation of Initial Difference in Asset Values**			**($000)**	
35					
36		Opening unamortised initial differences in asset values	48,152		
37	*less*	Amortisation of initial differences in asset values	2,722		
38	*plus*	Adjustment for unamortised initial differences in assets acquired	–		
39	*less*	Adjustment for unamortised initial differences in assets disposed	–		
40		Closing unamortised initial differences in asset values		45,429	
41					
42		Opening weighted average remaining useful life of relevant assets (years)		17.7	
43					

Company Name	**Alpine Energy Limited**
For Year Ended	**31 March 2018**

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 2.8

sch ref				
44		**5a(iv): Amortisation of Revaluations**		**($000)**
45				
46		Opening sum of RAB values without revaluations	178,244	
47				
48		Adjusted depreciation	8,412	
49		Total depreciation	9,046	
50		Amortisation of revaluations		633
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**	(7,529)	
61				
62	*plus*	Tax effect of adjusted depreciation	2,355	
63				
64	*less*	Tax effect of tax depreciation	3,491	
65				
66	*plus*	Tax effect of other temporary differences*	(8)	
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**		(9,435)
77				
78		**5a(vii): Disclosure of Temporary Differences**		
79		*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).*		
80				
81		**5a(viii): Regulatory Tax Asset Base Roll-Forward**		
82				**($000)**
83		**Opening sum of regulatory tax asset values**	104,088	
84	*less*	Tax depreciation	12,469	
85	*plus*	Regulatory tax asset value of assets commissioned	31,047	
86	*less*	Regulatory tax asset value of asset disposals	–	
87	*plus*	Lost and found assets adjustment	–	
88	*plus*	Adjustment resulting from asset allocation	–	
89	*plus*	Other adjustments to the RAB tax value	–	
90		**Closing sum of regulatory tax asset values**		122,667

Company Name	**Alpine Energy Limited**
For Year Ended	**31 March 2018**

SCHEDULE 5b: REPORT ON RELATED PARTY TRANSACTIONS

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

sch ref

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

sch ref		($000)
8	Total regulatory income	–
9	Operational expenditure	5,209
10	Capital expenditure	12,928
11	Market value of asset disposals	–
12	Other related party transactions	–

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

sch ref	Name of related party	Related party relationship
15	Netcon Ltd	Wholly owned subsidiary and contractor
16	Infratec	Wholly owned subsidiary and contractor
17		
18		
19		

20 ** include additional rows if needed*

21 5b(iii): Related Party Transactions

sch ref	Name of related party	Related party transaction type	Description of transaction	Value of transaction ($000)	Basis for determining value
23	Netcon Ltd	Opex	Maintenance of Assets	5,201	ID clause 2.3.6(1)(b)
24	Netcon Ltd	Capex	Subtransmission assets	318	IM clause 2.2.11(5)(h)
25	Netcon Ltd	Capex	Zone Substations	7,049	IM clause 2.2.11(5)(h)
26	Netcon Ltd	Capex	Distribution and LV Lines	1,468	IM clause 2.2.11(5)(h)
27	Netcon Ltd	Capex	Distribution and LV Cables	3,683	IM clause 2.2.11(5)(h)
28	Netcon Ltd	Capex	Distribution Substations and Transformers	85	IM clause 2.2.11(5)(h)
29	Netcon Ltd	Capex	Distribution Switchgear	324	IM clause 2.2.11(5)(h)
30	Infratec Ltd	Opex	Maintenance of Assets	8	ID clause 2.3.6(1)(b)
31		[Select one]			[Select one]
32		[Select one]			[Select one]
33		[Select one]			[Select one]
34		[Select one]			[Select one]
35		[Select one]			[Select one]
36		[Select one]			[Select one]
37		[Select one]			[Select one]

38 ** include additional rows if needed*

Company Name	**Alpine Energy Limited**
For Year Ended	**31 March 2018**

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
None	Not Applicable	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	44%	
Average opening and closing RAB values	–	
Attribution Rate (%)		–
Term credit spread differential allowance		–

Company Name **Alpine Energy Limited**
For Year Ended **31 March 2018**

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						
7	**5d(i): Operating Cost Allocations**					
8			Value allocated ($000s)			
9		Arm's length deduction	Electricity distribution services	Non-electricity distribution services	Total	OVABAA allocation increase ($000s)
10	**Service interruptions and emergencies**					
11	Directly attributable		1,748			
12	Not directly attributable	–	–	–	–	Not Applicable
13	**Total attributable to regulated service**		1,748			
14	**Vegetation management**					
15	Directly attributable		431			
16	Not directly attributable	–	–	–	–	Not Applicable
17	**Total attributable to regulated service**		431			
18	**Routine and corrective maintenance and inspection**					
19	Directly attributable		2,520			
20	Not directly attributable	–	–	–	–	Not Applicable
21	**Total attributable to regulated service**		2,520			
22	**Asset replacement and renewal**					
23	Directly attributable		701			
24	Not directly attributable	–	–	–	–	Not Applicable
25	**Total attributable to regulated service**		701			
26	**System operations and network support**					
27	Directly attributable		4,476			
28	Not directly attributable	–	–	–	–	Not Applicable
29	**Total attributable to regulated service**		4,476			
30	**Business support**					
31	Directly attributable		7,295			
32	Not directly attributable	–	–	–	–	Not Applicable
33	**Total attributable to regulated service**		7,295			
34						
35	**Operating costs directly attributable**		17,171			
36	**Operating costs not directly attributable**	–	–	–	–	–
37	**Operational expenditure**		17,171			
38						

Company Name	**Alpine Energy Limited**
For Year Ended	**31 March 2018**

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**	
40	**Pass through and recoverable costs**	**($000)**
41	**Pass through costs**	
42	Directly attributable	284
43	Not directly attributable	–
44	**Total attributable to regulated service**	284
45	**Recoverable costs**	
46	Directly attributable	17,851
47	Not directly attributable	–
48	**Total attributable to regulated service**	17,851
49		

sch ref					
50	**5d(iii): Changes in Cost Allocations* †**				
51				**($000)**	
52	**Change in cost allocation 1**			**CY-1**	**Current Year (CY)**
53	Cost category	None	Original allocation	–	–
54	Original allocator or line items	None	New allocation	–	–
55	New allocator or line items	None	Difference	–	–
56					
57	Rationale for change	Not Aplicable			
58					
59					
60				**($000)**	
61	**Change in cost allocation 2**			**CY-1**	**Current Year (CY)**
62	Cost category	None	Original allocation	–	–
63	Original allocator or line items	None	New allocation	–	–
64	New allocator or line items	None	Difference	–	–
65					
66	Rationale for change	Not Aplicable			
67					
68					
69				**($000)**	
70	**Change in cost allocation 3**			**CY-1**	**Current Year (CY)**
71	Cost category	None	Original allocation	–	–
72	Original allocator or line items	None	New allocation	–	–
73	New allocator or line items	None	Difference	–	–
74					
75	Rationale for change	Not Aplicable			
76					
77					

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 2018**

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

7 5e(i): Regulated Service Asset Values

sch ref		Value allocated ($000s) Electricity distribution services
10	**Subtransmission lines**	
11	Directly attributable	12,850
12	Not directly attributable	–
13	**Total attributable to regulated service**	12,850
14	**Subtransmission cables**	
15	Directly attributable	3,130
16	Not directly attributable	–
17	**Total attributable to regulated service**	3,130
18	**Zone substations**	
19	Directly attributable	42,125
20	Not directly attributable	–
21	**Total attributable to regulated service**	42,125
22	**Distribution and LV lines**	
23	Directly attributable	45,712
24	Not directly attributable	–
25	**Total attributable to regulated service**	45,712
26	**Distribution and LV cables**	
27	Directly attributable	48,664
28	Not directly attributable	–
29	**Total attributable to regulated service**	48,664
30	**Distribution substations and transformers**	
31	Directly attributable	25,102
32	Not directly attributable	–
33	**Total attributable to regulated service**	25,102
34	**Distribution switchgear**	
35	Directly attributable	10,398
36	Not directly attributable	–
37	**Total attributable to regulated service**	10,398
38	**Other network assets**	
39	Directly attributable	6,135
40	Not directly attributable	–
41	**Total attributable to regulated service**	6,135
42	**Non-network assets**	
43	Directly attributable	20,242
44	Not directly attributable	–
45	**Total attributable to regulated service**	20,242
46		
47	**Regulated service asset value directly attributable**	214,359
48	**Regulated service asset value not directly attributable**	–
49	**Total closing RAB value**	214,359

51 5e(ii): Changes in Asset Allocations* †

sch ref				($000) CY-1	Current Year (CY)
53	**Change in asset value allocation 1**				
54	Asset category	Not Applicable	Original allocation	–	–
55	Original allocator or line items	Not Applicable	New allocation	–	–
56	New allocator or line items	Not Applicable	Difference	–	–
58	Rationale for change	Not Applicable			
62	**Change in asset value allocation 2**				
63	Asset category	Not Applicable	Original allocation	–	–
64	Original allocator or line items	Not Applicable	New allocation	–	–
65	New allocator or line items	Not Applicable	Difference	–	–
67	Rationale for change	Not Applicable			
71	**Change in asset value allocation 3**				
72	Asset category	Not Applicable	Original allocation	–	–
73	Original allocator or line items	Not Applicable	New allocation	–	–
74	New allocator or line items	Not Applicable	Difference	–	–
76	Rationale for change	Not Applicable			

79 ** 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*
80 *† include additional rows if needed*

	Company Name	**Alpine Energy Limited**	
	For Year Ended	**31 March 2018**	

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	**6a(i): Expenditure on Assets**	**($000)**	**($000)**
8	Consumer connection		3,798
9	System growth		6,859
10	Asset replacement and renewal		5,811
11	Asset relocations		2,027
12	Reliability, safety and environment:		
13	Quality of supply	342	
14	Legislative and regulatory	–	
15	Other reliability, safety and environment	456	
16	**Total reliability, safety and environment**		798
17	**Expenditure on network assets**		19,293
18	Expenditure on non-network assets		12,270
19			
20	**Expenditure on assets**		31,563
21	*plus* Cost of financing		–
22	*less* Value of capital contributions		4,135
23	*plus* Value of vested assets		–
24			
25	**Capital expenditure**		27,429
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		2,022
29	Research and development		–
30	**6a(iii): Consumer Connection**		
31	*Consumer types defined by EDB**	**($000)**	**($000)**
32	Residential	907	
33	Commercial	1,225	
34	Irrigation	157	
	Subdivision	507	
35	LV alterations	56	
36	HV alterations	946	
37	** include additional rows if needed*		
38	**Consumer connection expenditure**		3,798
39			
40	*less* Capital contributions funding consumer connection expenditure	2,614	
41	**Consumer connection less capital contributions**		1,183
42	**6a(iv): System Growth and Asset Replacement and Renewal**		**Asset Replacement and**
43		**System Growth**	**Renewal**
44		**($000)**	**($000)**
45	Subtransmission	785	–
46	Zone substations	3,560	585
47	Distribution and LV lines	495	3,576
48	Distribution and LV cables	854	690
49	Distribution substations and transformers	625	402
50	Distribution switchgear	540	407
51	Other network assets	–	150
52	**System growth and asset replacement and renewal expenditure**	6,859	5,811
53	*less* Capital contributions funding system growth and asset replacement and renewal	1,117	355
54	**System growth and asset replacement and renewal less capital contributions**	5,743	5,456
55			
56	**6a(v): Asset Relocations**		
57	*Project or programme**	**($000)**	**($000)**
58	Morgans Road Project	1,556	
59	Balmoral Road 11kV cable	220	
60	Replace Douglas St transformer	168	
61	11 kV Switching Station Morgans Rd	72	
62	Other relocations	11	
63	** include additional rows if needed*		
64	All other projects or programmes - asset relocations	–	
65	**Asset relocations expenditure**		2,027
66	*less* Capital contributions funding asset relocations	–	
67	**Asset relocations less capital contributions**		2,027

Company Name: **Alpine Energy Limited**
For Year Ended: **31 March 2018**

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		*Project or programme**	($000)	($000)
71		Clayton Road SW Replacement	115	
72		Guinness New RMU	69	
73		Miscellaenous Switchgear	158	
74				
75				
76		** include additional rows if needed*		
77		All other projects programmes - quality of supply	–	
78		**Quality of supply expenditure**		342
79	*less*	Capital contributions funding quality of supply	–	
80		**Quality of supply less capital contributions**		342
81	**6a(vii): Legislative and Regulatory**			
82		*Project or programme**	($000)	($000)
83		None	–	
84				
85				
86				
87				
88		** include additional rows if needed*		
89		All other projects or programmes - legislative and regulatory		
90		**Legislative and regulatory expenditure**		–
91	*less*	Capital contributions funding legislative and regulatory		
92		**Legislative and regulatory less capital contributions**		–
93	**6a(viii): Other Reliability, Safety and Environment**			
94		*Project or programme**	($000)	($000)
95		Reclosers	22	
96		Automation	13	
97		Abloy Locks	90	
98		Communications	330	
99				
100		** include additional rows if needed*		
101		All other projects or programmes - other reliability, safety and environment	–	
102		**Other reliability, safety and environment expenditure**		456
103	*less*	Capital contributions funding other reliability, safety and environment	48	
104		**Other reliability, safety and environment less capital contributions**		407
105				
106	**6a(ix): Non-Network Assets**			
107	**Routine expenditure**			
108		*Project or programme**	($000)	($000)
109		Plant and Equipment	4	
110		Software and IT	620	
111		Vehicles	116	
112				
113				
114		** include additional rows if needed*		
115		All other projects or programmes - routine expenditure		
116		**Routine expenditure**		739
117	**Atypical expenditure**			
118		*Project or programme**	($000)	($000)
119		Office Building	11,091	
120		TechOne Upgrade	440	
121				
122				
123				
124		** include additional rows if needed*		
125		All other projects or programmes - atypical expenditure	–	
126		**Atypical expenditure**		11,530
127				
128		**Expenditure on non-network assets**		12,270

Company Name	**Alpine Energy Limited**
For Year Ended	**31 March 2018**

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			
7	**6b(i): Operational Expenditure**	**($000)**	**($000)**
8	Service interruptions and emergencies	1,748	
9	Vegetation management	431	
10	Routine and corrective maintenance and inspection	2,520	
11	Asset replacement and renewal	701	
12	**Network opex**		5,400
13	System operations and network support	4,476	
14	Business support	7,295	
15	**Non-network opex**		11,771
16			
17	**Operational expenditure**		17,171
18	**6b(ii): Subcomponents of Operational Expenditure (where known)**		
19	Energy efficiency and demand side management, reduction of energy losses		1
20	Direct billing*		N/A
21	Research and development		–
22	Insurance		224
23	** Direct billing expenditure by suppliers that directly bill the majority of their consumers*		

Company Name	**Alpine Energy Limited**
For Year Ended	**31 March 2018**

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

sch ref	7(i): Revenue	Target ($000) [1]	Actual ($000)	% variance
8	Line charge revenue	63,260	60,481	(4%)

sch ref	7(ii): Expenditure on Assets	Forecast ($000) [2]	Actual ($000)	% variance
10	Consumer connection	2,200	3,798	73%
11	System growth	6,571	6,859	4%
12	Asset replacement and renewal	5,857	5,811	(1%)
13	Asset relocations	2,000	2,027	1%
14	Reliability, safety and environment:			
15	Quality of supply	890	342	(62%)
16	Legislative and regulatory	–	–	–
17	Other reliability, safety and environment	688	456	(34%)
18	**Total reliability, safety and environment**	1,578	798	(49%)
19	**Expenditure on network assets**	18,206	19,293	6%
20	Expenditure on non-network assets	12,614	12,270	(3%)
21	Expenditure on assets	30,820	31,563	2%

sch ref	7(iii): Operational Expenditure			
23	Service interruptions and emergencies	1,344	1,748	30%
24	Vegetation management	611	431	(29%)
25	Routine and corrective maintenance and inspection	3,000	2,520	(16%)
26	Asset replacement and renewal	289	701	143%
27	**Network opex**	5,244	5,400	3%
28	System operations and network support	4,329	4,476	3%
29	Business support	6,568	7,295	11%
30	**Non-network opex**	10,897	11,771	8%
31	**Operational expenditure**	16,141	17,171	6%

sch ref	7(iv): Subcomponents of Expenditure on Assets (where known)			
33	Energy efficiency and demand side management, reduction of energy l	–	–	–
34	Overhead to underground conversion	2,000	2,022	1%
35	Research and development	–	–	–
36				

sch ref	7(v): Subcomponents of Operational Expenditure (where known)			
38	Energy efficiency and demand side management, reduction of energy l	–	1	–
39	Direct billing	–	N/A	–
40	Research and development	–	–	–
41	Insurance	42	224	432%
42				

43 *1 From the nominal dollar target revenue for the disclosure year disclosed under clause 2.4.3(3) of this determination*

44 *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 2018**
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 **8(i): Billed Quantities by Price Component**

9

10

11 **Billed quantities by price component**

sch ref	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)		Distribution Fixed	Distribution Variable Day	Distribution Variable Night	Distribution Demand	Transmission Fixed	Transmission Variable Day	Transmossion Variable Night	Transmission Demand
12						**Price component**	Distribution Fixed	Distribution Variable Day	Distribution Variable Night	Distribution Demand	Transmission Fixed	Transmission Variable Day	Transmossion Variable Night	Transmission Demand
13						**Unit charging basis (eg, days, kW of demand, kVA of capacity, etc.)**	Number of ICP's	MWH	MWH	MW	Number of ICP's	MWH	MWH	MW
14														
15	LOWHCA	Low Charge	Standard	1,515	9,284		1,515	6,499	2,785	–	–	6,499	2,785	–
16	LOWLCA	Low Charge	Standard	8,696	50,386		8,696	35,270	15,116	–	–	35,270	15,116	–
17	LOWUHCA	Low Uncontrolled	Standard	14	96		14	67	29	–	–	67	29	–
18	LOWULCA	Low Uncontrolled	Standard	23	120		23	84	36	–	–	84	36	–
	015HCA	015	Standard	6,191	56,887		6,191	39,821	17,066	–	–	39,821	17,066	–
	015LCA	015	Standard	13,380	114,960		13,380	80,472	34,488	–	–	80,472	34,488	–
	015UHCA	015 Uncontrolled	Standard	30	321		30	224	96	–	30	224	96	–
	015ULCA	015 Uncontrolled	Standard	47	389		47	272	117	–	47	272	117	–
	360HCA	360	Standard	509	11,490		509	8,043	3,447	–	–	8,043	3,447	–
	360LCA	360	Standard	731	22,532		731	15,773	6,760	–	–	15,773	6,760	–
	360UHCA	360 Uncontrolled	Standard	14	603		14	422	181	–	14	422	181	–
	360ULCA	360 Uncontrolled	Standard	13	341		13	239	102	–	13	239	102	–
	ASSHCA	Assessed	Standard	1,270	132,851		1,270	92,809	40,042	107	–	92,809	40,042	107
19	ASSLCA	Assessed	Standard	383	37,809		383	25,899	11,909	36	–	25,899	11,909	36
20	TOU400HCA	TOU 400V	Standard	38	23,457		38	16,450	7,007	8	–	16,450	7,007	8
21	TOU400LCA	TOU 400V	Standard	104	103,945		104	71,552	32,392	22	–	71,552	32,392	22
22	TOU11HCA	TOU 11kV	Standard	5	26,386		5	19,034	7,352	6	–	19,034	7,352	6
23	TOU11LCA	TOU 11kV	Standard	4	14,153		4	9,995	4,158	4	–	9,995	4,158	4
24	Individual Direct Billed	IND	Non-standard	12	170,553		12	–	–	–	–	7,910	3,088	–
25	*Add extra rows for additional consumer groups or price category codes as necessary*													
26			**Standard consumer totals**	32,963	606,009		32,963	422,926	183,083	184	103			184
27			**Non-standard consumer totals**	12	170,553		12	–	–	–	–			–
28			**Total for all consumers**	32,975	776,562		32,975	422,926	183,083	184	103			184

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

29

30

Company Name	**Alpine Energy Limited**
For Year Ended	**31 March 2018**
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.

31 **8(ii): Line Charge Revenues ($000) by Price Component**

32
33

Row	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)	Total distribution line charge revenue	Total transmission line charge revenue (if available)
37	LOWHCA	Low Charge	Standard	$582	–	$390	$192
	LOWLCA	Low Charge	Standard	$3,254	–	$2,210	$1,044
	LOWUHCA	Low Uncontrolled	Standard	$7	–	$3	$4
	LOWULCA	Low Uncontrolled	Standard	$11	–	$6	$6
	015HCA	015	Standard	$6,683	–	$5,427	$1,256
	015LCA	015	Standard	$13,931	–	$11,360	$2,572
	015UHCA	015 Uncontrolled	Standard	$28	–	$14	$14
	015ULCA	015 Uncontrolled	Standard	$37	–	$17	$20
	360HCA	360	Standard	$1,542	–	$1,312	$231
	360LCA	360	Standard	$2,248	–	$1,715	$534
38	360UHCA	360 Uncontrolled	Standard	$52	–	$38	$14
39	360ULCA	360 Uncontrolled	Standard	$36	–	$27	$8
40	ASSHCA	Assessed	Standard	$13,868	–	$10,610	$3,258
41	ASSLCA	Assessed	Standard	$3,854	–	$2,539	$1,315
42	TOU400HCA	TOU 400V	Standard	$1,651	–	$1,141	$510
43	TOU400LCA	TOU 400V	Standard	$4,520	–	$2,839	$1,681
44	TOU11HCA	TOU 11kV	Standard	$1,398	–	$941	$458
45	TOU11LCA	TOU 11kV	Standard	$764	–	$471	$293
46	Individual Direct Billed	IND	Non-standard	$6,014	–	$3,205	$2,809
47	*Add extra rows for additional consumer groups or price category codes as necessary*						
48			**Standard consumer totals**	$54,467	–	$41,059	$13,408
49			**Non-standard consumer totals**	$6,014	–	$3,205	$2,809
50			**Total for all consumers**	$60,481	–	$44,264	$16,217

Line charge revenues ($000) by price component

Row	Consumer group name or price category code	Distribution fixed	Distribution variable day	Distribution variable night	Distribution demand	Transmission Fixed	Transmission Variable day	Transmission Variable night	Transmission demand
34	**Price component**	Distribution fixed	Distribution variable day	Distribution variable night	Distribution demand	Transmission Fixed	Transmission Variable day	Transmission Variable night	Transmission demand
35	**Rate (eg, $ per day, $ per kWh, etc.)**	$/annum	$/MWh	$/MWh	$/(MWh*annum)	$/annum	$/MWh	$/MWh	$/(MWh*annum)
37	LOWHCA	$82	$266	$42	–	–	$166	$26	–
	LOWLCA	$469	$1,505	$236	–	–	$900	$144	–
	LOWUHCA	$1	$2	$0	–	–	$3	$1	–
	LOWULCA	$1	$4	$1	–	–	$5	$1	–
	015HCA	$2,461	$2,549	$417	–	–	$1,083	$173	–
	015LCA	$4,897	$5,561	$902	–	($0)	$2,218	$354	–
	015UHCA	$12	$1	$0	–	$7	$6	$1	–
	015ULCA	$17	$0	$0	–	$11	$8	$1	–
	360HCA	$836	$409	$66	–	–	$199	$32	–
	360LCA	$917	$687	$111	–	–	$460	$73	–
38	360UHCA	$24	$12	$2	–	$3	$9	$1	–
39	360ULCA	$18	$8	$1	–	$3	$4	$1	–
40	ASSHCA	$699	$3,991	$656	$5,265	–	$1,969	$320	$969
41	ASSLCA	$136	$1,108	$198	$1,097	–	$733	$127	$454
42	TOU400HCA	$13	$254	$46	$827	–	$114	$20	$376
43	TOU400LCA	$30	$807	$156	$1,846	–	$478	$93	$1,110
44	TOU11HCA	$2	$321	$53	$565	–	$159	$26	$272
45	TOU11LCA	$1	$157	$29	$284	–	$98	$18	$178
46	Individual Direct Billed	$3,205	–	–	–	$2,809	–	–	–
48	**Standard consumer totals**	$10,616	$17,640	$2,917	$9,886	$24			$3,359
49	**Non-standard consumer totals**	$3,205	–	–	–	$2,809			–
50	**Total for all consumers**	$13,820	$17,640	$2,917	$9,886	$2,833			$3,359

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

Check OK

51

52 **8(iii): Number of ICPs directly billed**

53 **Number of directly billed ICPs at year end** 12

Company Name	**Alpine Energy Limited**
For Year Ended	**31 March 2018**
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

	Voltage	Asset category	Asset class	Units	Items at start of year (quantity)	Items at end of year (quantity)	Net change	Data accuracy (1–4)
8								
9	All	Overhead Line	Concrete poles / steel structure	No.	27,509	24,769	(2,740)	3
10	All	Overhead Line	Wood poles	No.	21,499	21,602	103	3
11	All	Overhead Line	Other pole types	No.	381	329	(52)	3
12	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	244	251	7	3
13	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km	24	–	(24)	4
14	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km	40	30	(10)	4
15	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km	–	–	–	N/A
16	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressurised)	km	–	–	–	N/A
17	HV	Subtransmission Cable	Subtransmission UG up to 66kV (PILC)	km	–	–	–	N/A
18	HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	km	–	–	–	N/A
19	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Oil pressurised)	km	–	–	–	N/A
20	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Gas Pressurised)	km	–	–	–	N/A
21	HV	Subtransmission Cable	Subtransmission UG 110kV+ (PILC)	km	–	–	–	N/A
22	HV	Subtransmission Cable	Subtransmission submarine cable	km	–	–	–	N/A
23	HV	Zone substation Buildings	Zone substations up to 66kV	No.	19	20	1	4
24	HV	Zone substation Buildings	Zone substations 110kV+	No.	1	2	1	4
25	HV	Zone substation switchgear	50/66/110kV CB (Indoor)	No.	–	–	–	N/A
26	HV	Zone substation switchgear	50/66/110kV CB (Outdoor)	No.	1	1	–	4
27	HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No.	8	–	(8)	4
28	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.	113	119	6	4
29	HV	Zone substation switchgear	33kV RMU	No.	–	–	–	N/A
30	HV	Zone substation switchgear	22/33kV CB (Indoor)	No.	6	6	–	4
31	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.	17	28	11	4
32	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.	210	170	(40)	4
33	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.	–	7	7	N/A
34	HV	Zone Substation Transformer	Zone Substation Transformers	No.	27	27	–	4
35	HV	Distribution Line	Distribution OH Open Wire Conductor	km	2,900	2,909	9	3
36	HV	Distribution Line	Distribution OH Aerial Cable Conductor	km	–	–	–	N/A
37	HV	Distribution Line	SWER conductor	km	7	7	0	4
38	HV	Distribution Cable	Distribution UG XLPE or PVC	km	150	247	97	2
39	HV	Distribution Cable	Distribution UG PILC	km	136	135	(2)	2
40	HV	Distribution Cable	Distribution Submarine Cable	km	–	–	–	N/A
41	HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers	No.	44	45	1	4
42	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.	–	9	9	N/A
43	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	7,177	7,565	388	2
44	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	68	12	(56)	3
45	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.	371	386	15	3
46	HV	Distribution Transformer	Pole Mounted Transformer	No.	4,971	5,346	375	2
47	HV	Distribution Transformer	Ground Mounted Transformer	No.	934	901	(33)	2
48	HV	Distribution Transformer	Voltage regulators	No.	31	31	–	4
49	HV	Distribution Substations	Ground Mounted Substation Housing	No.	–	–	–	N/A
50	LV	LV Line	LV OH Conductor	km	378	363	(15)	3
51	LV	LV Cable	LV UG Cable	km	347	341	(6)	3
52	LV	LV Street lighting	LV OH/UG Streetlight circuit	km	–	–	–	N/A
53	LV	Connections	OH/UG consumer service connections	No.	32,861	33,071	210	4
54	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.	–	424	424	N/A
55	All	SCADA and communications	SCADA and communications equipment operating as a single system	Lot	1	816	815	4
56	All	Capacitor Banks	Capacitors including controls	No	15	16	1	4
57	All	Load Control	Centralised plant	Lot	6	7	1	4
58	All	Load Control	Relays	No	15,853	20,200	4,347	2
59	All	Civils	Cable Tunnels	km	0	0	(0)	2

Company Name	**Alpine Energy Limited**
For Year Ended	**31 March 2018**
Network / Sub-network Name	

SCHEDULE 9b: ASSET AGE PROFILE

This schedule requires a summary of the age profile (based on year of installation) of the 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

8		**Disclosure Year (year ended)**	31 March 2018																															
					Number of assets at disclosure year end by installation date																													
9	**Voltage**	**Asset category**	**Asset class**	**Units**	**pre-1940**	**1940 –1949**	**1950 –1959**	**1960 –1969**	**1970 –1979**	**1980 –1989**	**1990 –1999**	**2000**	**2001**	**2002**	**2003**	**2004**	**2005**	**2006**	**2007**	**2008**	**2009**	**2010**	**2011**	**2012**	**2013**	**2014**	**2015**	**2016**	**2017**	**2018**	**No. with age unknown**	**end of year (quantity)**	**No. with default dates**	**Data accuracy (1–4)**
10	All	Overhead Line	Concrete poles / steel structure	No.	–	61	3,295	5,697	4,035	2,593	1,706	145	265	478	426	817	475	313	282	391	356	178	263	567	264	387	323	335	265	12	840	24,769	–	3
11	All	Overhead Line	Wood poles	No.	–	9	3,465	2,132	2,550	2,053	2,297	163	355	612	490	552	594	408	805	648	463	237	264	415	476	311	219	203	108	4	1,769	21,602	–	3
12	All	Overhead Line	Other pole types	No.	–	–	63	60	52	25	27	1	–	2	3	–	–	–	2	2	7	2	4	6	1	–	–	–	–	–	72	329	–	3
13	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	–	–	7	38	42	11	57	6	–	8	14	0	–	1	–	–	–	1	0	0	21	31	0	12	0	–	–	251	–	3
14	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	4
15	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km	–	–	–	–	0	2	2	–	–	–	0	0	23	–	–	–	–	–	0	–	–	0	–	2	–	–	0	30	–	4
16	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A
17	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressurised)	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A
18	HV	Subtransmission Cable	Subtransmission UG up to 66kV (PILC)	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A
19	HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A
20	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Oil pressurised)	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A
21	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Gas Pressurised)	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A
22	HV	Subtransmission Cable	Subtransmission UG 110kV+ (PILC)	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A
23	HV	Subtransmission Cable	Subtransmission submarine cable	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A
24	HV	Zone substation Buildings	Zone substations up to 66kV	No.	–	–	1	2	3	5	1	–	–	–	1	2	–	–	–	–		–	2	1	1	1	–	–	–	–	–	20	–	4
25	HV	Zone substation Buildings	Zone substations 110kV+	No.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	1	–	–	–	–	–	–	–	–	1	–	2	–	4
26	HV	Zone substation switchgear	50/66/110kV CB (Indoor)	No.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A
27	HV	Zone substation switchgear	50/66/110kV CB (Outdoor)	No.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	1	–	–	–	–	–	–	–	–	–	–	1	–	4
28	HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	4
29	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.	–	–	4	13	21	18	11	–	–	–	–	–	–	–	–	1	1	–	4	6	12	6	9	2	11	–	–	119	–	4
30	HV	Zone substation switchgear	33kV RMU	No.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A
31	HV	Zone substation switchgear	22/33kV CB (Indoor)	No.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	6	–	–	–	–	–	–	–	–	6	–	4
32	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.	–	–	–	1	2	7	4	–	1	–	–	2	–	–	–	–	–	1	–	2	1	4	–	2	1	–	–	28	–	4
33	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.	–	–	–	2	8	26	1	12	–	–	–		18	14	9		8		5	24	26	8	4	1	–	4	–	170	–	4
34	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.	–	–	–	–	–	1	–	–	–	–	–	–	–	–	–	1	2	1	–	–	–	–	2	–	–	–	–	7	–	N/A
35	HV	Zone Substation Transformer	Zone Substation Transformers	No.	–	–	1	1	6	2	3	–	–	–	–	–	4	–	–	2	–	1	3	–	1	2	–	1	–		–	27	5	4
36	HV	Distribution Line	Distribution OH Open Wire Conductor	km	6	–	877	495	339	249	155	10	21	34	79	63	135	42	52	53	58	37	17	29	40	38	28	28	10	6	6	2,909	–	3
37	HV	Distribution Line	Distribution OH Aerial Cable Conductor	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A
38	HV	Distribution Line	SWER conductor	km	–	–	–	–	7	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	7	–	4
39	HV	Distribution Cable	Distribution UG XLPE or PVC	km	–	–	1	1	4	10	14	3	4	13	12	7	11	21	15	19	13	11	12	18	16	8	16	12	4	3	2	247	–	2
40	HV	Distribution Cable	Distribution UG PILC	km	–	–	–	9	41	56	25	2	1	–	0	–	0	–	0	0	0	0	–	0	–	–	–	–	–	–	0	135	–	2
41	HV	Distribution Cable	Distribution Submarine Cable	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A
42	HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers	No.	–	–	–	–	–	–	–	–	2	1	2	1	1	–	5	–	2	6	3	1	7	9	5	–	–	–	–	45	–	4
43	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.	–	–	–	2	–	1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	6	9	–	N/A
44	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	4	1	715	645	582	495	478	50	101	149	176	187	186	172	240	321	226	183	260	272	263	348	225	522	441	4	319	7,565	–	2
45	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	–	–	–	–	–	2	2	–	–	–	–	–	1	–	–	–	–	–	–	–	–	–	–	–	5	–	2	12	–	3
46	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.	–	–	–	11	58	36	36	4	17	8	16	16	11	7	17	11	19	6	10	5	7	27	24	14	13	1	12	386	–	3
47	HV	Distribution Transformer	Pole Mounted Transformer	No.	–	–	161	359	592	610	679	84	155	180	183	196	212	198	190	210	147	117	110	160	147	175	121	131	93	2	134	5,346	8	2
48	HV	Distribution Transformer	Ground Mounted Transformer	No.	–	–	–	9	84	99	63	6	9	33	39	23	43	40	41	50	44	27	20	25	32	33	39	56	36	18	32	901	31	2
49	HV	Distribution Transformer	Voltage regulators	No.	–	–	–	–	–	–	–	–	–	1	1				2	5	11	1	2	–	2	3	–	2	–	1	–	31	–	4
50	HV	Distribution Substations	Ground Mounted Substation Housing	No.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A
51	LV	LV Line	LV OH Conductor	km	0	–	61	123	103	40	19	1	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1	0	1	0	2	363	–	3
52	LV	LV Cable	LV UG Cable	km	0	–	0	13	74	88	67	4	4	4	5	7	7	9	8	6	7	8	5	3	3	3	2	7	3	3	2	341	–	3
53	LV	LV Street lighting	LV OH/UG Streetlight circuit	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A
54	LV	Connections	OH/UG consumer service connections	No.	–	–	–	–	–	–	–	26,645	252	281	327	343	448	462	410	453	443	363	259	314	329	396	354	361	342	289	–	33,071	–	4
55	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.	–	–	–	–	9	9	–	–	–	–	–	26	6	11	–	13	10	21	119	59	11	37	45	28	9	–	11	424	–	N/A
56	All	SCADA and communications	SCADA and communications equipment operating as a single system	Lot	–	–	–	30	15	322	48	–	1	–	–	1	1	–	–	–	–	20	22	39	12	181	21	4	2	3	94	816	–	4
57	All	Capacitor Banks	Capacitors including controls	No	–	–	–	–	–	2	1	–	–	–	–	–	1	–	–	1	1	6	–	2	–	–	1	–	–	1	–	16	–	4
58	All	Load Control	Centralised plant	Lot	–	–	–	1	1	1	–	–	–	–	1	–	1	–	–	–	1	–	–	–	–	–	–	–	–	–	1	7	–	4
59	All	Load Control	Relays	No	3,734	19	47	189	317	170	420	214	79	90	124	119	128	165	264	1,269	325	300	338	1,204	9,758	344	153	410	18	2		20,200	3,628	2
60	All	Civils	Cable Tunnels	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	0	–	–	–	–	–	–	–	–	0	–	2

Company Name	**Alpine Energy Limited**
For Year Ended	**31 March 2018**
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)**	**Total circuit length (km)**
11	> 66kV	-	-	–
12	50kV & 66kV	-	-	–
13	33kV	251	30	281
14	SWER (all SWER voltages)	-	7	7
15	22kV (other than SWER)	145	5	150
16	6.6kV to 11kV (inclusive—other than SWER)	2,763	382	3,145
17	Low voltage (< 1kV)	362	343	705
18	**Total circuit length (for supply)**	3,521	767	4,288
19				
20	Dedicated street lighting circuit length (km)	–	–	–
21	Circuit in sensitive areas (conservation areas, iwi territory etc) (km)			36
22				

sch ref			
23	**Overhead circuit length by terrain (at year end)**	**Circuit length (km)**	**(% of total overhead length)**
24	Urban	311	9%
25	Rural	3,114	88%
26	Remote only	–	–
27	Rugged only	96	3%
28	Remote and rugged	–	–
29	Unallocated overhead lines	–	–
30	**Total overhead length**	3,521	100%
31			
32		**Circuit length (km)**	**(% of total circuit length)**
33	Length of circuit within 10km of coastline or geothermal areas (where known)	1,733	40%
34		**Circuit length (km)**	**(% of total overhead length)**
35	Overhead circuit requiring vegetation management	370	11%

Company Name **Alpine Energy Limited**
For Year Ended **31 March 2018**

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	None	–
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			

26 ** 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 2018**
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*

sch ref	*Consumer types defined by EDB**	Number of connections (ICPs)
10		
11	Low Charge	15
	Low Uncontrolled	–
	015	257
	015 Uncontrolled	2
	360	20
	360 Uncontrolled	–
12	Assessed	25
13	TOU 400V	1
14	TOU 11kV	–
15	IND	–
16	** include additional rows if needed*	
17	**Connections total**	320
18		

sch ref				
19	**Distributed generation**			
20	Number of connections made in year	73	**connections**
21	Capacity of distributed generation installed in year	0.34	**MVA**

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

sch ref			Demand at time of maximum coincident demand (MW)	
23				
24				
25		**Maximum coincident system demand**		
26		GXP demand	143	
27	*plus*	Distributed generation output at HV and above	3	
28		**Maximum coincident system demand**	146	
29	*less*	Net transfers to (from) other EDBs at HV and above	–	
30		**Demand on system for supply to consumers' connection points**	146	
31		**Electricity volumes carried**	**Energy (GWh)**	
32		Electricity supplied from GXPs	791	
33	*less*	Electricity exports to GXPs	22	
34	*plus*	Electricity supplied from distributed generation	38	
35	*less*	Net electricity supplied to (from) other EDBs	–	
36		**Electricity entering system for supply to consumers' connection points**	807	
37	*less*	Total energy delivered to ICPs	777	
38		**Electricity losses (loss ratio)**	30	3.8%
39				
40		**Load factor**	0.63	

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

sch ref		(MVA)
42		
43	Distribution transformer capacity (EDB owned)	569
44	Distribution transformer capacity (Non-EDB owned, estimated)	11
45	**Total distribution transformer capacity**	580
46		
47	**Zone substation transformer capacity**	330

Company Name	**Alpine Energy Limited**
For Year Ended	**31 March 2018**
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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)	203	
12	Class C (unplanned interruptions on the network)	139	
13	Class D (unplanned interruptions by Transpower)	1	
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**	343	
20			
21	**Interruption restoration**	**≤3Hrs**	**>3hrs**
22	Class C interruptions restored within	64	75
23			
24	**SAIFI and SAIDI by class**	**SAIFI**	**SAIDI**
25	Class A (planned interruptions by Transpower)	–	–
26	Class B (planned interruptions on the network)	0.1975	59.79
27	Class C (unplanned interruptions on the network)	0.9345	85.87
28	Class D (unplanned interruptions by Transpower)	0.0211	0.91
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**	1.1530	146.57
35			
36	**Normalised SAIFI and SAIDI**	**Normalised SAIFI**	**Normalised SAIDI**
37	Classes B & C (interruptions on the network)	1.1147	145.66
38			
39	**Quality path normalised reliability limit**	**SAIFI reliability limit**	**SAIDI reliability limit**
40	SAIFI and SAIDI limits applicable to disclosure year*	1.5100	154.16
41	** not applicable to exempt EDBs*		

Company Name	**Alpine Energy Limited**
For Year Ended	**31 March 2018**
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	0.0700	3.09
Vegetation	0.0106	1.00
Adverse weather	0.1510	22.93
Adverse environment	0.0039	2.02
Third party interference	0.1272	12.13
Wildlife	0.2376	17.59
Human error	0.0725	1.62
Defective equipment	0.1556	17.47
Cause unknown	0.1059	8.03

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

Main equipment involved	SAIFI	SAIDI
Subtransmission lines	–	–
Subtransmission cables	–	–
Subtransmission other	–	–
Distribution lines (excluding LV)	0.1931	57.62
Distribution cables (excluding LV)	0.0044	2.17
Distribution other (excluding LV)	–	–

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

Main equipment involved	SAIFI	SAIDI
Subtransmission lines	0.3545	25.40
Subtransmission cables	–	–
Subtransmission other	0.0176	1.06
Distribution lines (excluding LV)	0.4884	51.81
Distribution cables (excluding LV)	0.0631	6.68
Distribution other (excluding LV)	0.0102	0.93

10(v): Fault Rate

Main equipment involved	Number of Faults	Circuit length (km)	Fault rate (faults per 100km)
Subtransmission lines	11	251	4.38
Subtransmission cables	–	30	–
Subtransmission other	1		
Distribution lines (excluding LV)	123	2,908	4.23
Distribution cables (excluding LV)	2	394	0.51
Distribution other (excluding LV)	2		
Total	139		