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 2017

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 2017**

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

1(i): Expenditure metrics

	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)
Operational expenditure	19,067	444	108,759	3,476	31,191
Network	8,772	204	50,036	1,599	14,350
Non-network	10,295	240	58,723	1,877	16,841
Expenditure on assets	31,239	727	178,184	5,695	51,102
Network	26,089	607	148,812	4,756	42,678
Non-network	5,149	120	29,372	939	8,424

1(ii): Revenue metrics

	Revenue per GWh energy delivered to ICPs ($/GWh)	Revenue per average no. of ICPs ($/ICP)
Total consumer line charge revenue	71,199	1,657
Standard consumer line charge revenue	88,626	1,503
Non-standard consumer line charge revenue	24,508	424,129

1(iii): Service intensity measures

Demand density	32	*Maximum coincident system demand per km of circuit length (for supply) (kW/km)*
Volume density	182	*Total energy delivered to ICPs per km of circuit length (for supply) (MWh/km)*
Connection point density	8	*Average number of ICPs per km of circuit length (for supply) (ICPs/km)*
Energy intensity	23,274	*Total energy delivered to ICPs per average number of ICPs (kWh/ICP)*

1(iv): Composition of regulatory income

	($000)	% of revenue
Operational expenditure	14,569	26.92%
Pass-through and recoverable costs excluding financial incentives and wash-ups	16,434	30.37%
Total depreciation	7,463	13.79%
Total revaluations	3,805	7.03%
Regulatory tax allowance	4,391	8.11%
Regulatory profit/(loss) including financial incentives and wash-ups	15,062	27.83%
Total regulatory income	54,114	

1(v): Reliability

Interruption rate	8.90	*Interruptions per 100 circuit km*

Company Name	**Alpine Energy Limited**
For Year Ended	**31 March 2017**

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 15	31 Mar 16	31 Mar 17
ROI – comparable to a post tax WACC	%	%	%
Reflecting all revenue earned	6.72%	5.94%	8.10%
Excluding revenue earned from financial incentives	6.72%	5.94%	8.10%
Excluding revenue earned from financial incentives and wash-ups	6.72%	3.79%	5.65%
Mid-point estimate of post tax WACC	6.10%	5.37%	4.77%
25th percentile estimate	5.39%	4.66%	4.05%
75th percentile estimate	6.82%	6.09%	5.48%
ROI – comparable to a vanilla WACC			
Reflecting all revenue earned	7.50%	6.59%	8.65%
Excluding revenue earned from financial incentives	7.50%	6.59%	8.65%
Excluding revenue earned from financial incentives and wash-ups	7.50%	4.44%	6.19%
WACC rate used to set regulatory price path	8.77%	7.19%	7.19%
Mid-point estimate of vanilla WACC	6.89%	6.02%	5.31%
25th percentile estimate	6.17%	5.30%	4.59%
75th percentile estimate	7.60%	6.74%	6.03%

2(ii): Information Supporting the ROI

		($000)		
	Total opening RAB value	175,913		
plus	Opening deferred tax	(5,603)		
Opening RIV			170,310	
Line charge revenue			54,400	
	Expenses cash outflow	31,003		
add	Assets commissioned	18,589		
less	Asset disposals	306		
add	Tax payments	2,465		
less	Other regulated income	(287)		
Mid-year net cash outflows			52,037	
Term credit spread differential allowance			–	
	Total closing RAB value	190,264		
less	Adjustment resulting from asset allocation	1		
less	Lost and found assets adjustment	(274)		
plus	Closing deferred tax	(7,529)		
Closing RIV			183,009	
ROI – comparable to a vanilla WACC				8.65%
	Leverage (%)			44%
	Cost of debt assumption (%)			4.41%
	Corporate tax rate (%)			28%
ROI – comparable to a post tax WACC				8.10%

Company Name	**Alpine Energy Limited**
For Year Ended	**31 March 2017**

SCHEDULE 2: REPORT ON RETURN ON INVESTMENT

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

2(iii): Information Supporting the Monthly ROI

Opening RIV — 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 — 5.15%

Year-end ROI – comparable to a post tax WACC — 4.61%

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

2(v): Financial Incentives and Wash-Ups

Net recoverable costs allowed under incremental rolling incentive scheme	–	
Purchased assets – avoided transmission charge	–	
Energy efficiency and demand incentive allowance	–	
Quality incentive adjustment	–	
Other financial incentives	–	
Financial incentives		–
Impact of financial incentives on ROI		–
Input methodology claw-back	2,555	
Recoverable customised price-quality path costs	–	
Catastrophic event allowance	–	
Capex wash-up adjustment	525	
Transmission asset wash-up adjustment	–	
2013–2015 NPV wash-up allowance	2,733	
Reconsideration event allowance	–	
Other wash-ups	–	
Wash-up costs		5,813
Impact of wash-up costs on ROI		2.46%

Company Name	**Alpine Energy Limited**
For Year Ended	**31 March 2017**

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)
7	**3(i): Regulatory Profit**		
8		**Income**	
9		Line charge revenue	54,400
10	*plus*	Gains / (losses) on asset disposals	(298)
11	*plus*	Other regulated income (other than gains / (losses) on asset disposals)	12
12			
13		**Total regulatory income**	54,114
14		**Expenses**	
15	*less*	Operational expenditure	14,569
16			
17	*less*	Pass-through and recoverable costs excluding financial incentives and wash-ups	16,434
18			
19		**Operating surplus / (deficit)**	23,111
20			
21	*less*	Total depreciation	7,463
22			
23	*plus*	Total revaluations	3,805
24			
25		**Regulatory profit / (loss) before tax**	19,453
26			
27	*less*	Term credit spread differential allowance	–
28			
29	*less*	Regulatory tax allowance	4,391
30			
31		**Regulatory profit/(loss) including financial incentives and wash-ups**	15,062
32			

			($000)	
33	**3(ii): Pass-through and Recoverable Costs excluding Financial Incentives and Wash-Ups**			
34		**Pass through costs**		
35		Rates	67	
36		Commerce Act levies	47	
37		Industry levies	154	
38		CPP specified pass through costs	N/A	
39		**Recoverable costs excluding financial incentives and wash-ups**		
40		Electricity lines service charge payable to Transpower	14,391	
41		Transpower new investment contract charges	1,775	
42		System operator services	–	
43		Distributed generation allowance	N/A	
44		Extended reserves allowance	N/A	
45		Other recoverable costs excluding financial incentives and wash-ups	N/A	
46		**Pass-through and recoverable costs excluding financial incentives and wash-ups**		16,434
47				

Company Name	**Alpine Energy Limited**
For Year Ended	**31 March 2017**

SCHEDULE 3: REPORT ON REGULATORY PROFIT

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sch ref

3(iii): Incremental Rolling Incentive Scheme

($000)

		CY-1 31 Mar 16	CY 31 Mar 17
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
57	CY-5	31 Mar 12	N/A	N/A
58	CY-4	31 Mar 13	N/A	N/A
59	CY-3	31 Mar 14	N/A	N/A
60	CY-2	31 Mar 15	N/A	N/A
61	CY-1	31 Mar 16	N/A	N/A
62	**Net incremental rolling incentive scheme**			–
63				
64	**Net recoverable costs allowed under incremental rolling incentive scheme**			–

3(iv): Merger and Acquisition Expenditure

		($000)
66	Merger and acquisition expenditure	N/A
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)*	

3(v): Other Disclosures

		($000)
71	Self-insurance allowance	N/A

Company Name	**Alpine Energy Limited**
For Year Ended	**31 March 2017**

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)

		RAB	RAB	RAB	RAB	RAB
for year ended		31 Mar 13	31 Mar 14	31 Mar 15	31 Mar 16	31 Mar 17
		($000)	($000)	($000)	($000)	($000)
	Total opening RAB value	131,651	153,233	159,366	172,594	175,913
less	**Total depreciation**	8,059	7,197	6,204	7,000	7,463
plus	**Total revaluations**	1,126	2,347	134	715	3,805
plus	**Assets commissioned**	29,132	11,152	18,705	11,857	18,589
less	**Asset disposals**	617	168	225	87	306
plus	**Lost and found assets adjustment**	–	–	817	(2,166)	(274)
plus	**Adjustment resulting from asset allocation**	–	–	1	(0)	1
	Total closing RAB value	153,233	159,366	172,594	175,913	190,264

4(ii): Unallocated Regulatory Asset Base

		Unallocated RAB *		RAB	
		($000)	($000)	($000)	($000)
	Total opening RAB value		175,914		175,913
less					
	Total depreciation		7,463		7,463
plus					
	Total revaluations		3,805		3,805
plus					
	Assets commissioned (other than below)	5,652		5,652	
	Assets acquired from a regulated supplier	–		–	
	Assets acquired from a related party	12,937		12,937	
	Assets commissioned		18,589		18,589
less					
	Asset disposals (other than below)	306		306	
	Asset disposals to a regulated supplier	–		–	
	Asset disposals to a related party	–		–	
	Asset disposals		306		306
plus	**Lost and found assets adjustment**		(274)		(274)
plus	**Adjustment resulting from asset allocation**				1
	Total closing RAB value		190,264		190,264

** 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 2017**

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

	CPI_4		1226
	CPI_4^{-4}		1200
	Revaluation rate (%)		2.17%

		Unallocated RAB *		RAB	
		($000)	($000)	($000)	($000)
	Total opening RAB value	175,914		175,913	
less	Opening value of fully depreciated, disposed and lost assets	306		306	
	Total opening RAB value subject to revaluation	175,607		175,607	
	Total revaluations		3,805		3,805

4(iv): Roll Forward of Works Under Construction

		Unallocated works under construction		Allocated works under construction	
	Works under construction—preceding disclosure year		5,834		5,834
plus	Capital expenditure	20,855		20,855	
less	Assets commissioned	18,589		18,589	
plus	Adjustment resulting from asset allocation			–	
	Works under construction - current disclosure year		8,101		8,101
	Highest rate of capitalised finance applied				–

Company Name	**Alpine Energy Limited**
For Year Ended	**31 March 2017**

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(v): Regulatory Depreciation

		Unallocated RAB * ($000)	($000)	RAB ($000)	($000)
79	Depreciation - standard	6,546		6,546	
80	Depreciation - no standard life assets	917		917	
81	Depreciation - modified life assets	–		–	
82	Depreciation - alternative depreciation in accordance with CPP	–		–	
83	**Total depreciation**		7,463		7,463

4(vi): Disclosure of Changes to Depreciation Profiles

($000 unless otherwise specified)

	Asset or assets with changes to depreciation*	Reason for non-standard depreciation (text entry)	Depreciation charge for the period (RAB)	Closing RAB value under 'non-standard' depreciation	Closing RAB value under 'standard' depreciation
87					
88					
89					
90					
91					
92					
93					
94					

** include additional rows if needed*

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	**Total opening RAB value**	11,989	679	35,318	41,743	47,185	22,722	6,296	4,916	5,066	175,913
100	*less* Total depreciation	536	23	1,245	1,898	1,394	907	195	349	917	7,463
101	*plus* Total revaluations	260	15	765	902	1,022	490	137	106	110	3,805
102	*plus* Assets commissioned	1,227	69	1,771	5,026	2,701	2,182	2,252	806	2,554	18,589
103	*less* Asset disposals	4	0	21	112	19	110	–	40	–	306
104	*plus* Lost and found assets adjustment	–	–	–	–	–	–	–	–	(274)	(274)
105	*plus* Adjustment resulting from asset allocation	–	–	–	–	–	–	–	1	–	1
106	*plus* Asset category transfers	–	–	–	–	–	–	–	–	–	–
107	**Total closing RAB value**	12,937	740	36,588	45,661	49,494	24,377	8,489	5,439	6,538	190,264
108											
109	**Asset Life**										
110	Weighted average remaining asset life	36	32	35	32	40	27	37	26	12	(years)
111	Weighted average expected total asset life	51	45	44	53	55	45	42	35	17	(years)

Company Name	**Alpine Energy Limited**
For Year Ended	**31 March 2017**

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**			19,453
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	56	*	
12		Amortisation of initial differences in asset values	2,711		
13		Amortisation of revaluations	502		
14					3,269
15					
16	*less*	Total revaluations	3,805		
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	3,234		
21					7,039
22					
23		**Regulatory taxable income**			15,683
24					
25	*less*	Utilised tax losses	–		
26		Regulatory net taxable income			15,683
27					
28		Corporate tax rate (%)	28%		
29		**Regulatory tax allowance**			4,391
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	50,665		
37	*less*	Amortisation of initial differences in asset values	2,711		
38	*plus*	Adjustment for unamortised initial differences in assets acquired	–		
39	*less*	Adjustment for unamortised initial differences in assets disposed	(198)		
40		Closing unamortised initial differences in asset values			48,152
41					
42		Opening weighted average remaining useful life of relevant assets (years)			18.7
43					

Company Name	**Alpine Energy Limited**
For Year Ended	**31 March 2017**

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	166,557	
47				
48		Adjusted depreciation	6,961	
49		Total depreciation	7,463	
50		Amortisation of revaluations		502
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**	(5,603)	
61				
62	*plus*	Tax effect of adjusted depreciation	1,949	
63				
64	*less*	Tax effect of tax depreciation	3,158	
65				
66	*plus*	Tax effect of other temporary differences*	42	
67				
68	*less*	Tax effect of amortisation of initial differences in asset values	759	
69				
70	*plus*	Deferred tax balance relating to assets acquired in the disclosure year	–	
71				
72	*less*	Deferred tax balance relating to assets disposed in the disclosure year	–	
73				
74	*plus*	Deferred tax cost allocation adjustment	–	
75				
76		**Closing deferred tax**		(7,529)
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**	97,357	
84	*less*	Tax depreciation	11,278	
85	*plus*	Regulatory tax asset value of assets commissioned	18,589	
86	*less*	Regulatory tax asset value of asset disposals	306	
87	*plus*	Lost and found assets adjustment	(274)	
88	*plus*	Adjustment resulting from asset allocation	1	
89	*plus*	Other adjustments to the RAB tax value	–	
90		**Closing sum of regulatory tax asset values**		104,088

Company Name	**Alpine Energy Limited**
For Year Ended	**31 March 2017**

SCHEDULE 5b: REPORT ON RELATED PARTY TRANSACTIONS

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

sch ref

5b(i): Summary—Related Party Transactions

	($000)
Total regulatory income	–
Operational expenditure	5,312
Capital expenditure	10,896
Market value of asset disposals	–
Other related party transactions	–

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

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

** include additional rows if needed*

5b(iii): Related Party Transactions

Name of related party	Related party transaction type	Description of transaction	Value of transaction ($000)	Basis for determining value
Netcon Ltd	Opex	Maintenance of Assets	5,281	ID clause 2.3.6(1)(b)
Netcon Ltd	Capex	Subtransmission assets	268	IM clause 2.2.11(5)(h)
Netcon Ltd	Capex	Zone Substations	5,941	IM clause 2.2.11(5)(h)
Netcon Ltd	Capex	Distribution and LV Lines	1,238	IM clause 2.2.11(5)(h)
Netcon Ltd	Capex	Distribution and LV Cables	3,104	IM clause 2.2.11(5)(h)
Netcon Ltd	Capex	Distribution Substations and Transformers	72	IM clause 2.2.11(5)(h)
Netcon Ltd	Capex	Distribution Switchgear	273	IM clause 2.2.11(5)(h)
Infratec Ltd	Opex	Maintenance of Assets	31	ID clause 2.3.6(1)(b)

** include additional rows if needed*

Company Name	**Alpine Energy Limited**
For Year Ended	**31 March 2017**

SCHEDULE 5c: REPORT ON TERM CREDIT SPREAD DIFFERENTIAL ALLOWANCE

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

sch ref

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

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

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

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

Company Name	**Alpine Energy Limited**
For Year Ended	**31 March 2017**

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

5d(i): Operating Cost Allocations

		Value allocated ($000s)			
	Arm's length deduction	Electricity distribution services	Non-electricity distribution services	Total	OVABAA allocation increase ($000s)
Service interruptions and emergencies					
Directly attributable		1,631			
Not directly attributable	–	–	–	–	N/A
Total attributable to regulated service		1,631			
Vegetation management					
Directly attributable		726			
Not directly attributable	–	–	–	–	N/A
Total attributable to regulated service		726			
Routine and corrective maintenance and inspection					
Directly attributable		4,165			
Not directly attributable	–	–	–	–	N/A
Total attributable to regulated service		4,165			
Asset replacement and renewal					
Directly attributable		181			
Not directly attributable	–	–	–	–	N/A
Total attributable to regulated service		181			
System operations and network support					
Directly attributable		2,448			
Not directly attributable	–	–	–	–	N/A
Total attributable to regulated service		2,448			
Business support					
Directly attributable		5,418			
Not directly attributable	–	–	–	–	N/A
Total attributable to regulated service		5,418			
Operating costs directly attributable		14,569			
Operating costs not directly attributable	–	–	–	–	–
Operational expenditure		14,569			

Company Name	**Alpine Energy Limited**
For Year Ended	**31 March 2017**

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

5d(ii): Other Cost Allocations

	($000)
Pass through and recoverable costs	
Pass through costs	
Directly attributable	268
Not directly attributable	–
Total attributable to regulated service	268
Recoverable costs	
Directly attributable	16,166
Not directly attributable	–
Total attributable to regulated service	16,166

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

Change in cost allocation 1

			($000) CY-1	($000) Current Year (CY)
Cost category		Original allocation		
Original allocator or line items		New allocation		
New allocator or line items		Difference	–	–

Rationale for change

Change in cost allocation 2

			($000) CY-1	($000) Current Year (CY)
Cost category		Original allocation		
Original allocator or line items		New allocation		
New allocator or line items		Difference	–	–

Rationale for change

Change in cost allocation 3

			($000) CY-1	($000) Current Year (CY)
Cost category		Original allocation		
Original allocator or line items		New allocation		
New allocator or line items		Difference	–	–

Rationale for change

** 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.*

† include additional rows if needed

Company Name	**Alpine Energy Limited**
For Year Ended	**31 March 2017**

SCHEDULE 5e: REPORT ON ASSET ALLOCATIONS

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

sch ref

5e(i): Regulated Service Asset Values

	Value allocated ($000s) Electricity distribution services
Subtransmission lines	
Directly attributable	12,937
Not directly attributable	–
Total attributable to regulated service	12,937
Subtransmission cables	
Directly attributable	740
Not directly attributable	–
Total attributable to regulated service	740
Zone substations	
Directly attributable	36,588
Not directly attributable	–
Total attributable to regulated service	36,588
Distribution and LV lines	
Directly attributable	45,661
Not directly attributable	–
Total attributable to regulated service	45,661
Distribution and LV cables	
Directly attributable	49,494
Not directly attributable	–
Total attributable to regulated service	49,494
Distribution substations and transformers	
Directly attributable	24,377
Not directly attributable	–
Total attributable to regulated service	24,377
Distribution switchgear	
Directly attributable	8,489
Not directly attributable	–
Total attributable to regulated service	8,489
Other network assets	
Directly attributable	5,439
Not directly attributable	–
Total attributable to regulated service	5,439
Non-network assets	
Directly attributable	6,538
Not directly attributable	–
Total attributable to regulated service	6,538
Regulated service asset value directly attributable	190,264
Regulated service asset value not directly attributable	–
Total closing RAB value	190,264

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

			($000) CY-1	Current Year (CY)
Change in asset value allocation 1				
Asset category	N/a	Original allocation		
Original allocator or line items		New allocation		
New allocator or line items		Difference	–	–
Rationale for change				
Change in asset value allocation 2				
Asset category	N/a	Original allocation		
Original allocator or line items		New allocation		
New allocator or line items		Difference	–	–
Rationale for change				
Change in asset value allocation 3				
Asset category	N/a	Original allocation		
Original allocator or line items		New allocation		
New allocator or line items		Difference	–	–
Rationale for change				

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

Company Name	**Alpine Energy Limited**
For Year Ended	**31 March 2017**

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

6a(i): Expenditure on Assets

			($000)	($000)
8		Consumer connection		4,401
9		System growth		4,490
10		Asset replacement and renewal		9,209
11		Asset relocations		59
12		Reliability, safety and environment:		
13		Quality of supply	469	
14		Legislative and regulatory	–	
15		Other reliability, safety and environment	1,306	
16		**Total reliability, safety and environment**		1,774
17		**Expenditure on network assets**		19,934
18		Expenditure on non-network assets		3,934
19				
20		**Expenditure on assets**		23,868
21	*plus*	Cost of financing		–
22	*less*	Value of capital contributions		3,013
23	*plus*	Value of vested assets		–
24				
25		**Capital expenditure**		20,855

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	968
29		Research and development	211

6a(iii): Consumer Connection

		*Consumer types defined by EDB**	($000)	($000)
32		Residential	364	
		Commercial	2,911	
33		Irrigation	561	
34		Subdivision	181	
35		LV alterations	283	
36		HV alterations	101	
37		* include additional rows if needed		
38		**Consumer connection expenditure**		4,401
39				
40	*less*	Capital contributions funding consumer connection expenditure	665	
41		**Consumer connection less capital contributions**		3,736

6a(iv): System Growth and Asset Replacement and Renewal

			System Growth ($000)	Asset Replacement and Renewal ($000)
45		Subtransmission	3,317	265
46		Zone substations	21	861
47		Distribution and LV lines	117	4,869
48		Distribution and LV cables	658	1,065
49		Distribution substations and transformers	203	501
50		Distribution switchgear	154	304
51		Other network assets	21	1,344
52		**System growth and asset replacement and renewal expenditure**	4,490	9,209
53	*less*	Capital contributions funding system growth and asset replacement and renewal	679	1,392
54		**System growth and asset replacement and renewal less capital contributions**	3,812	7,817
55				

6a(v): Asset Relocations

		*Project or programme**	($000)	($000)
58		Air Break Switch	39	
59		Pole	3	
60		Overhead to Underground requested by 3rd parties	17	
61				
62				
63		* include additional rows if needed		
64		All other projects or programmes - asset relocations	–	
65		**Asset relocations expenditure**		59
66	*less*	Capital contributions funding asset relocations	9	
67		**Asset relocations less capital contributions**		50

Company Name	**Alpine Energy Limited**
For Year Ended	**31 March 2017**

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.

6a(vi): Quality of Supply

sch ref		*Project or programme**	($000)	($000)
71		ABY - Install CB for F321	25	
		GLD-Zone Substation upgrade	7	
		Mobile sub site preparations	233	
		New Connections & Subdivisions	1	
72		Underground Cable Upgrades	1	
73		New Ring Main Unit	161	
74		New ABS switch	1	
75		Distribution Sub refurbishment	40	
76		** include additional rows if needed*		
77		All other projects programmes - quality of supply	–	
78		**Quality of supply expenditure**		469
79	*less*	Capital contributions funding quality of supply	71	
80		**Quality of supply less capital contributions**		398

6a(vii): Legislative and Regulatory

		*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		**Legislative and regulatory expenditure**		–
91	*less*	Capital contributions funding legislative and regulatory		
92		**Legislative and regulatory less capital contributions**		–

6a(viii): Other Reliability, Safety and Environment

		*Project or programme**	($000)	($000)
95		Comms & RTU	78	
		Mobile sub/gen site preparations	118	
		New Ring main unit	345	
		New SCADA Master Station	29	
		Zone Substation Protection	155	
		SCADA & pole top equipment automation (e.g. reclosers)	162	
		Transformers distribution for subdivisions	4	
		New reclosers	1	
		Investigation & Reports	103	
96		AMG/AMS Modifications	3	
97		Underground Cable Upgrades	80	
98		Tondros & Talbot Rd, Failie OH Refurbishment	5	
		Battery Energy Storage System (BESS)	211	
99		Network equipment general	12	
100		** include additional rows if needed*		
101		All other projects or programmes - other reliability, safety and environment	–	
102		**Other reliability, safety and environment expenditure**		1,306
103	*less*	Capital contributions funding other reliability, safety and environment	197	
104		**Other reliability, safety and environment less capital contributions**		1,108
105				

6a(ix): Non-Network Assets

Routine expenditure

		*Project or programme**	($000)	($000)
109		Vehicles	57	
110		Property	418	
111		Software	113	
112		Equipment	43	
113				
114		** include additional rows if needed*		
115		All other projects or programmes - routine expenditure	–	
116		**Routine expenditure**		630

Atypical expenditure

		*Project or programme**	($000)	($000)
119		Asset Management Software	1288	

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

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

sch ref				
		Sharepoint Stage 2	3	
		AXOS Billing System	207	
120		Mitel Phone System	106	
121		Drawing Office Management System (DMS)	65	
122		GIS	345	
123		Alpine new office building	1290	
124		** include additional rows if needed*		
125		All other projects or programmes - atypical expenditure	–	
126		**Atypical expenditure**		3,304
127				
128		**Expenditure on non-network assets**		3,934

Company Name	**Alpine Energy Limited**
For Year Ended	**31 March 2017**

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

This schedule requires a breakdown of operational expenditure incurred in the disclosure year.
EDBs must provide explanatory comment on their operational expenditure in Schedule 14 (Explanatory notes to templates). This includes explanatory comment on any atypical operational expenditure and assets replaced or renewed as part of asset replacement and renewal operational expenditure, and additional information on insurance.
This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref		($000)	($000)
7	**6b(i): Operational Expenditure**		
8	Service interruptions and emergencies	1,631	
9	Vegetation management	726	
10	Routine and corrective maintenance and inspection	4,165	
11	Asset replacement and renewal	181	
12	**Network opex**		6,703
13	System operations and network support	2,448	
14	Business support	5,418	
15	**Non-network opex**		7,866
16			
17	**Operational expenditure**		14,569
18	**6b(ii): Subcomponents of Operational Expenditure (where known)**		
19	Energy efficiency and demand side management, reduction of energy losses		–
20	Direct billing*		–
21	Research and development		–
22	Insurance		184
23	** Direct billing expenditure by suppliers that directly bill the majority of their consumers*		

Company Name	**Alpine Energy Limited**
For Year Ended	**31 March 2017**

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	**7(i): Revenue**	**Target ($000) [1]**	**Actual ($000)**	**% variance**
8	Line charge revenue	57,320	54,400	(5%)
9	**7(ii): Expenditure on Assets**	**Forecast ($000) [2]**	**Actual ($000)**	**% variance**
10	Consumer connection	2,850	4,401	54%
11	System growth	6,582	4,490	(32%)
12	Asset replacement and renewal	7,141	9,209	29%
13	Asset relocations	430	59	(86%)
14	Reliability, safety and environment:			
15	Quality of supply	840	469	(44%)
16	Legislative and regulatory	–	–	–
17	Other reliability, safety and environment	730	1,306	79%
18	**Total reliability, safety and environment**	1,570	1,774	13%
19	**Expenditure on network assets**	18,573	19,934	7%
20	Expenditure on non-network assets	5,244	3,934	(25%)
21	Expenditure on assets	23,817	23,868	0%
22	**7(iii): Operational Expenditure**			
23	Service interruptions and emergencies	1,383	1,631	18%
24	Vegetation management	524	726	39%
25	Routine and corrective maintenance and inspection	3,081	4,165	35%
26	Asset replacement and renewal	360	181	(50%)
27	**Network opex**	5,348	6,703	25%
28	System operations and network support	(1,540)	2,448	(259%)
29	Business support	9,938	5,418	(45%)
30	**Non-network opex**	8,398	7,866	(6%)
31	**Operational expenditure**	13,746	14,569	6%
32	**7(iv): Subcomponents of Expenditure on Assets (where known)**			
33	Energy efficiency and demand side management, reduction of energy losses	–	–	–
34	Overhead to underground conversion	430	968	125%
35	Research and development	–	211	–
36				
37	**7(v): Subcomponents of Operational Expenditure (where known)**			
38	Energy efficiency and demand side management, reduction of energy losses	–	–	–
39	Direct billing	–	–	–
40	Research and development	–	–	–
41	Insurance	40	184	359%
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 2017**
Network / Sub-Network Name	

SCHEDULE 8: REPORT ON BILLED QUANTITIES AND LINE CHARGE REVENUES

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

sch ref

8(i): Billed Quantities by Price Component

	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)	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	*Add extra columns for additional billed quantities by price component as necessary*
						Unit charging basis (eg, days, kW of demand, kVA of capacity, etc.)	No. of ICPs	MWH	MWH	MW	No. of ICPs	MWH	MWH	MW	
15	LOWHCA	Low Charge	Standard	1,485	8,755		1,485	6,129	2,627	0	0	6,129	2,627	0	
16	LOWLCA	Low Charge	Standard	8,495	47,541		8,495	33,279	14,262	0	0	33,279	14,262	0	
	LOWUHCA	Low Uncontrolled	Standard	13	87		13	61	26	0	0	61	26	0	
	LOWULCA	Low Uncontrolled	Standard	22	111		22	78	33	0	0	78	33	0	
	015HCA	015	Standard	6,157	57,228		6,157	40,059	17,168	0	0	40,059	17,168	0	
	015LCA	015	Standard	13,523	117,167		13,523	82,017	35,150	0	0	82,017	35,150	0	
	015UHCA	015 Uncontrolled	Standard	31	334		31	234	100	0	31	234	100	0	
	015ULCA	015 Uncontrolled	Standard	46	412		46	288	124	0	46	288	124	0	
	360HCA	360	Standard	506	10,508		506	7,355	3,152	0	0	7,355	3,152	0	
	360LCA	360	Standard	728	24,307		728	17,015	7,292	0	0	17,015	7,292	0	
	360UHCA	360 Uncontrolled	Standard	14	485		14	339	145	0	14	339	145	0	
17	360ULCA	360 Uncontrolled	Standard	10	227		10	159	68	0	10	159	68	0	
18	ASSHCA	Assessed	Standard	1,261	99,397		1,261	69,307	30,090	104	0	69,307	30,090	104	
19	ASSLCA	Assessed	Standard	376	35,862		376	24,474	11,389	35	0	24,474	11,389	35	
20	TOU400HCA	TOU 400V	Standard	37	21,493		37	15,173	6,320	9	0	15,173	6,320	9	
21	TOU400LCA	TOU 400V	Standard	105	96,912		105	66,739	30,173	24	0	66,739	30,173	24	
22	TOU11HCA	TOU 11kV	Standard	4	23,159		4	16,716	6,443	6	0	16,716	6,443	6	
23	TOU11LCA	TOU 11kV	Standard	4	12,405		4	8,650	3,754	4	0	8,650	3,754	4	
24	IND	IND	Non-standard	12	207,672		12	0	0	0	0	10,145	3,895	0	
25	*Add extra rows for additional consumer groups or price category codes as necessary*														
26			**Standard consumer totals**	32,817	556,390		32,817	388,072	168,318	182	101	388,072	168,318	182	
27			**Non-standard consumer totals**	12	207,672		12	–	–	–	–	10,145	3,895	–	
28			**Total for all consumers**	32,829	764,062		32,829	388,072	168,318	182	101	398,217	172,213	182	

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For Year Ended	**31 March 2017**
Network / Sub-Network Name	

SCHEDULE 8: REPORT ON BILLED QUANTITIES AND LINE CHARGE REVENUES

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

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

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)	Line charge revenues ($000) by price component								*Add extra columns for additional line charge revenues by price component as necessary*
							Price component	Distribution fixed	Distribution variable day	Distribution variable night	Distribution demand	Transmission Fixed	Transmission Variable day	Transmission Variable night	Transmission demand
							Rate (eg, $ per day, $ per kWh, etc.)	$/annum	$/MWh	$/MWh	$/(MWh*annum)	$/annum	$/MWh	$/MWh	$/(MWh*annum)
LOWHCA	Low Charge	Standard	$858		$675	$183		$81	$459	$134	$0	$0	$154	$28	$0
LOWLCA	Low Charge	Standard	$4,477		$3,485	$993		$465	$2,351	$669	$0	$0	$839	$154	$0
LOWUHCA	Low Uncontrolled	Standard	$11		$7	$4		$1	$5	$1	$0	$0	$3	$1	$0
LOWULCA	Low Uncontrolled	Standard	$13		$8	$5		$1	$5	$2	$0	$0	$4	$1	$0
015HCA	015	Standard	$5,354		$4,159	$1,195		$2,184	$1,669	$307	$0	$0	$1,009	$185	$0
015LCA	015	Standard	$10,771		$8,325	$2,446		$4,281	$3,417	$628	$0	$0	$2,067	$380	$0
015UHCA	015 Uncontrolled	Standard	$37		$23	$14		$11	$10	$2	$0	$7	$6	$1	$0
015ULCA	015 Uncontrolled	Standard	$48		$29	$20		$15	$12	$2	$0	$11	$7	$1	$0
360HCA	360	Standard	$1,395		$1,175	$219		$813	$306	$56	$0	$0	$185	$34	$0
360LCA	360	Standard	$2,219		$1,711	$508		$872	$709	$130	$0	$0	$429	$79	$0
360UHCA	360 Uncontrolled	Standard	$53		$39	$13		$22	$14	$3	$0	$3	$9	$2	$0
360ULCA	360 Uncontrolled	Standard	$27		$20	$7		$12	$7	$1	$0	$2	$4	$1	$0
ASSHCA	Assessed	Standard	$12,320		$9,368	$2,952		$688	$2,887	$537	$5,255	$0	$1,747	$325	$881
ASSLCA	Assessed	Standard	$3,546		$2,418	$1,128		$133	$1,020	$203	$1,061	$0	$617	$123	$388
TOU400HCA	TOU 400V	Standard	$1,817		$1,216	$601		$13	$205	$37	$961	$0	$100	$18	$483
TOU400LCA	TOU 400V	Standard	$4,372		$2,723	$1,649		$29	$708	$137	$1,849	$0	$427	$81	$1,141
TOU11HCA	TOU 11kV	Standard	$1,311		$881	$430		$1	$257	$42	$580	$0	$125	$21	$284
TOU11LCA	TOU 11kV	Standard	$682		$431	$250		$1	$113	$21	$296	$0	$66	$12	$173
IND	IND	Non-standard	$5,090		$3,900	$1,189		$3,900	$0	$0	$0	$1,189	$0	$0	$0
Add extra rows for additional consumer groups or price category codes as necessary															
		Standard consumer totals	$49,311	–	$36,692	$12,619		$9,623	$14,154	$2,912	$10,002	$24	$7,798	$1,447	$3,350
		Non-standard consumer totals	$5,090	–	$3,900	$1,189		$3,900	–	–	–	$1,189	–	–	–
		Total for all consumers	$54,400	–	$40,592	$13,809		$13,523	$14,154	$2,912	$10,002	$1,214	$7,798	$1,447	$3,350

8(iii): Number of ICPs directly billed

Number of directly billed ICPs at year end	12	**Check**	**OK**

Company Name	**Alpine Energy Limited**
For Year Ended	**31 March 2017**
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

8	Voltage	Asset category	Asset class	Units	Items at start of year (quantity)	Items at end of year (quantity)	Net change	Data accuracy (1–4)
9	All	Overhead Line	Concrete poles / steel structure	No.	27,290	27,509	219	3
10	All	Overhead Line	Wood poles	No.	21,372	21,499	127	3
11	All	Overhead Line	Other pole types	No.	381	381	–	3
12	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	244	244	–	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	40	–	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	19	–	4
24	HV	Zone substation Buildings	Zone substations 110kV+	No.	1	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.	99	113	14	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	17	–	4
32	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.	210	210	–	4
33	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.	–	–	–	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	2,900	–	3
36	HV	Distribution Line	Distribution OH Aerial Cable Conductor	km	–	–	–	N/A
37	HV	Distribution Line	SWER conductor	km	7	7	–	4
38	HV	Distribution Cable	Distribution UG XLPE or PVC	km	150	150	–	2
39	HV	Distribution Cable	Distribution UG PILC	km	136	136	–	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	44	–	4
42	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.	–	–	–	N/A
43	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	7,173	7,177	4	2
44	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	68	68	–	3
45	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.	371	371	–	3
46	HV	Distribution Transformer	Pole Mounted Transformer	No.	4,969	4,971	2	2
47	HV	Distribution Transformer	Ground Mounted Transformer	No.	934	934	–	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	378	–	3
51	LV	LV Cable	LV UG Cable	km	347	347	–	3
52	LV	LV Street lighting	LV OH/UG Streetlight circuit	km	–	–	–	N/A
53	LV	Connections	OH/UG consumer service connections	No.	32,508	32,861	353	4
54	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.	–	–	–	N/A
55	All	SCADA and communications	SCADA and communications equipment operating as a single system	Lot	1	1	–	4
56	All	Capacitor Banks	Capacitors including controls	No	15	15	–	4
57	All	Load Control	Centralised plant	Lot	6	6	–	4
58	All	Load Control	Relays	No	15,529	15,853	324	2
59	All	Civils	Cable Tunnels	km	0.25	0.25	–	2

Company Name	**Alpine Energy Limited**
For Year Ended	**31 March 2017**
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 2017

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	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	3,676	6,559	4,631	2,961	1,889	158	276	492	464	862	507	338	301	427	377	203	288	589	322	407	338	275	219	889	27,509	–	3
11	All	Overhead Line	Wood poles	No.	–	9	3,491	2,141	2,550	2,054	2,268	164	356	612	489	554	593	408	811	641	463	235	263	413	472	307	217	170	127	1,691	21,499	–	3
12	All	Overhead Line	Other pole types	No.	–	–	66	64	62	30	29	1	4	3	2	8	13	7	4	4	12	2	2	–	–	–	–	–	–	68	381	–	3
13	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	–	–	7	38	51	19	62	1	–	8	14	0	1	–	–	–	1	0	0	14	14	0	7	5	–	–	244	–	3
14	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	0	–	–	–	24	0	–	–	–	–	24	–	4
15	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km	–	–	–	–	–	2	2	–	–	–	–	23	–	–	–	–	–	0	12	0	–	–	–	2	–	–	40	–	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.	–	–	–	2	3	5	1	–	–	–	1	2	–	–	–	–	–	–	2	1	1	1	–	–	–	–	19	–	4
25	HV	Zone substation Buildings	Zone substations 110kV+	No.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	1	–	–	–	–	–	–	–	–	–	1	–	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.	–	–	–	–	1	1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	6	–	–	–	–	–	8	–	4
29	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.	–	–	3	10	12	9	7	–	–	–	–	–	1	–	–	1	2	–	7	6	6	16	17	2	14	–	113	–	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.	–	–	–	5	3	1	–	–	–	–	–	2	–	–	–	–	–	1	–	2	–	2	1	–	–	–	17	–	4
33	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.	–	–	9	2	2	25	15	–	–	–	–	18	9	14	–	9	7	1	28	26	4	26	11	4	–	–	210	–	4
34	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A
35	HV	Zone Substation Transformer	Zone Substation Transformers	No.	–	–	3	3	5	3	3	–	–	–	1	3	–	–	–	1	1	1	–	–	–	1	2	–	–	–	27	5	4
36	HV	Distribution Line	Distribution OH Open Wire Conductor	km	6	–	882	500	331	246	155	10	37	72	71	108	77	34	68	63	43	15	19	47	27	33	35	13	–	6	2,900	–	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	1	4	4	2	6	3	4	5	13	8	13	18	11	5	13	9	9	12	9	–	–	1	150	–	2
40	HV	Distribution Cable	Distribution UG PILC	km	–	–	–	10	43	55	26	0	0	0	0	–	0	0	0	0	0	0	0	0	–	–	–	–	–	1	136	–	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	1	–	–	–	–	1	1	–	5	–	3	6	4	1	6	9	4	–	–	44	–	4
43	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A
44	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	4	1	743	685	664	506	493	52	103	157	183	191	181	173	246	342	244	210	276	291	281	389	251	386	4	121	7,177	–	2
45	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	–	–	–	–	–	56	2	1	–	–	–	–	–	–	1	1	–	–	–	–	3	–	2	–	–	2	68	–	3
46	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.	–	–	–	20	64	35	44	4	13	13	16	12	6	9	8	8	20	5	11	4	6	23	22	8	–	20	371	–	3
47	HV	Distribution Transformer	Pole Mounted Transformer	No.	4	1	665	661	589	493	421	47	81	124	123	149	137	121	162	207	125	102	105	145	135	160	111	88	2	13	4,971	8	2
48	HV	Distribution Transformer	Ground Mounted Transformer	No.	–	–	4	27	122	123	93	9	30	32	33	35	39	36	32	37	32	17	26	22	33	42	53	24	–	33	934	31	2
49	HV	Distribution Transformer	Voltage regulators	No.	–	–	–	–	–	1	1	–	–	1	–	–	–	–	1	8	8	6	1	1	1	1	1	–	–	31	–	4
50	HV	Distribution Substations	Ground Mounted Substation Housing	No.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A
51	LV	LV Line	LV OH Conductor	km	0	–	65	124	104	40	19	0	2	2	1	1	1	1	0	2	0	1	1	1	1	1	0	0	–	13	378	–	3
52	LV	LV Cable	LV UG Cable	km	0	–	0	15	83	92	64	3	5	4	6	9	7	8	6	10	7	6	4	3	2	3	4	4	–	1	347	–	3
53	LV	LV Street lighting	LV OH/UG Streetlight circuit	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A
54	LV	Connections	OH/UG consumer service connections	No.	2,824	988	2,884	4,492	5,774	3,726	5,641	537	180	283	299	333	433	453	414	414	529	364	261	313	327	328	337	374	353	–	32,861	–	4
55	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A
56	All	SCADA and communications	SCADA and communications equipment operating as a single system	Lot	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	1	–	–	–	1	–	4
57	All	Capacitor Banks	Capacitors including controls	No	–	–	–	–	–	2	1	–	–	–	–	1	1	–	1	1	6	–	2	–	–	–	–	–	–	–	15	–	4
58	All	Load Control	Centralised plant	Lot	–	–	–	1	1	1	–	–	–	–	1	–	1	–	–	–	1	–	–	–	–	–	–	–	–	–	6	–	4
59	All	Load Control	Relays	No	53	19	44	167	338	172	377	234	37	91	92	117	128	117	92	108	1,236	135	208	444	1,221	9,601	291	207	324	–	15,853	3,628	2
60	All	Civils	Cable Tunnels	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	0	–	–	–	–	–	–	–	0	–	2

Company Name	**Alpine Energy Limited**
For Year Ended	**31 March 2017**
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

		Overhead (km)	Underground (km)	Total circuit length (km)
9				
10	**Circuit length by operating voltage (at year end)**			
11	> 66kV	–	–	–
12	50kV & 66kV	–	–	–
13	33kV	241	27	268
14	SWER (all SWER voltages)	–	7	7
15	22kV (other than SWER)	144	1	145
16	6.6kV to 11kV (inclusive—other than SWER)	2,771	332	3,103
17	Low voltage (< 1kV)	371	297	668
18	**Total circuit length (for supply)**	3,527	664	4,191
19				
20	Dedicated street lighting circuit length (km)	–	–	–
21	Circuit in sensitive areas (conservation areas, iwi territory etc) (km)			38
22				

		Circuit length (km)	(% of total overhead length)
23	**Overhead circuit length by terrain (at year end)**		
24	Urban	317	9%
25	Rural	3,139	89%
26	Remote only	–	–
27	Rugged only	71	2%
28	Remote and rugged	–	–
29	Unallocated overhead lines	–	–
30	**Total overhead length**	3,527	100%
31			

		Circuit length (km)	(% of total circuit length)
32			
33	Length of circuit within 10km of coastline or geothermal areas (where known)	1,679	40%

		Circuit length (km)	(% of total overhead length)
34			
35	Overhead circuit requiring vegetation management	2,662	75%

Company Name	**Alpine Energy Limited**
For Year Ended	**31 March 2017**

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			
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 2017**
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

9e(i): Consumer Connections

Number of ICPs connected in year by consumer type

*Consumer types defined by EDB**	Number of connections (ICPs)
Low Charge	–
Low Uncontrolled	–
015	304
015 Uncontrolled	–
360	26
360 Uncontrolled	–
Assessed	22
TOU 400V	1
TOU 11kV	–
IND	–

** include additional rows if needed*

Connections total	353	

Distributed generation

Number of connections made in year	54	connections
Capacity of distributed generation installed in year	0.25	MVA

9e(ii): System Demand

		Demand at time of maximum coincident demand (MW)	
	Maximum coincident system demand		
	GXP demand	129	
plus	Distributed generation output at HV and above	5	
	Maximum coincident system demand	134	
less	Net transfers to (from) other EDBs at HV and above	–	
	Demand on system for supply to consumers' connection points	134	

		Energy (GWh)	
	Electricity volumes carried		
	Electricity supplied from GXPs	768	
less	Electricity exports to GXPs	11	
plus	Electricity supplied from distributed generation	21	
less	Net electricity supplied to (from) other EDBs	–	
	Electricity entering system for supply to consumers' connection points	777	
less	Total energy delivered to ICPs	764	
	Electricity losses (loss ratio)	13	1.7%
	Load factor	0.66	

9e(iii): Transformer Capacity

	(MVA)
Distribution transformer capacity (EDB owned)	467
Distribution transformer capacity (Non-EDB owned, estimated)	86
Total distribution transformer capacity	553
Zone substation transformer capacity	313

Company Name	**Alpine Energy Limited**
For Year Ended	**31 March 2017**
Network / Sub-network Name	

SCHEDULE 10: REPORT ON NETWORK RELIABILITY

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

sch ref

10(i): Interruptions

	Interruptions by class	Number of interruptions
10	Class A (planned interruptions by Transpower)	–
11	Class B (planned interruptions on the network)	227
12	Class C (unplanned interruptions on the network)	144
13	Class D (unplanned interruptions by Transpower)	2
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**	373

	Interruption restoration	≤3Hrs	>3hrs
22	Class C interruptions restored within	95	49

	SAIFI and SAIDI by class	SAIFI	SAIDI
25	Class A (planned interruptions by Transpower)	–	–
26	Class B (planned interruptions on the network)	0.2510	69.61
27	Class C (unplanned interruptions on the network)	1.0500	99.82
28	Class D (unplanned interruptions by Transpower)	0.1784	8.92
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**	1.4794	178.35

	Normalised SAIFI and SAIDI	Normalised SAIFI	Normalised SAIDI
37	Classes B & C (interruptions on the network)	1.3009	169.43

	Quality path normalised reliability limit	SAIFI reliability limit	SAIDI reliability limit
40	SAIFI and SAIDI limits applicable to disclosure year*	1.5070	154.16
41	** not applicable to exempt EDBs*		

Company Name	**Alpine Energy Limited**
For Year Ended	**31 March 2017**
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	0.0007	0.09
Vegetation	0.1897	11.23
Adverse weather	0.0289	6.17
Adverse environment	–	–
Third party interference	0.2356	22.22
Wildlife	0.1671	16.97
Human error	0.0783	3.77
Defective equipment	0.3008	33.98
Cause unknown	0.0533	5.39

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

Main equipment involved	SAIFI	SAIDI
Subtransmission lines	0.0036	1.53
Subtransmission cables	–	–
Subtransmission other	–	–
Distribution lines (excluding LV)	0.2455	67.02
Distribution cables (excluding LV)	0.0024	0.93
Distribution other (excluding LV)	0.0003	0.13

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

Main equipment involved	SAIFI	SAIDI
Subtransmission lines	0.1031	8.71
Subtransmission cables	–	–
Subtransmission other	0.0966	10.76
Distribution lines (excluding LV)	0.7950	74.97
Distribution cables (excluding LV)	0.0597	5.38
Distribution other (excluding LV)	–	–

10(v): Fault Rate

Main equipment involved	Number of Faults	Circuit length (km)	Fault rate (faults per 100km)
Subtransmission lines	9	241	3.73
Subtransmission cables	–	27	–
Subtransmission other	3		
Distribution lines (excluding LV)	128	2,919	4.39
Distribution cables (excluding LV)	4	340	1.18
Distribution other (excluding LV)	–		
Total	144		