COMMERCE COMMISSION NEW ZEALAND	
Informat	Disclosure Requirements tion Templates for edules 1–10
Company Name Disclosure Date Disclosure Year (year ended)	Alpine Energy Limited 30 November 2023 31 March 2019
-	edules 1–10 excluding 5f–5g 1. Prepared 21 December 2017

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Disclosure Template Instructions

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

Company Name and Dates

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

The cell C12 entry (current year) is used to calculate disclosure years in the column headings that show above some of the tables and in labels adjacent to some entry cells. It is also used to calculate the 'For year ended' date in the template title blocks (the title blocks are the light green shaded areas at the top of each template). The cell C8 entry (company name) is used in the template title blocks.

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

Data Entry Cells and Calculated Cells

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

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

Validation Settings on Data Entry Cells

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

Conditional Formatting Settings on Data Entry Cells

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

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

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

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

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

Inserting Additional Rows and Columns

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

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

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

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

Disclosures by Sub-Network

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

Schedule References

The references labelled 'sch ref' in the leftmost column of each template are consistent with the row references in the Electricity Distribution ID Determination 2012 (as issued on 21 December 2017). They provide a common reference between the rows in the determination and the template.

Description of Calculation References

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

Worksheet Completion Sequence

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

4

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 2019

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.

Th	is information is part of audited disclosure information (as defined in section 1.4	4 of the ID determina	ition), and so is sub	ject to the assuranc	e report required by	v section 2.8.
sch r	ef					
7	1(i): Expenditure metrics	Expenditure per GWh energy delivered to ICPs	Expenditure per average no. of ICPs	Expenditure per MW maximum coincident system demand	km circuit length	Expenditure per MVA of capacity from EDB- owned distribution transformers
8		(\$/GWh)	(\$/ICP)	(\$/MW)	(\$/km)	(\$/MVA)
9	Operational expenditure	22,613	551	130,756	4,238	30,232
10	Network	6,769	165	39,142	1,269	9,050
11	Non-network	15,844	386	91,614	2,969	21,182
12		22.040		122.444	4 202	20.545
13	Expenditure on assets	22,848	557	132,114	4,282	30,545
14 15	Network	22,066 782	538 19	127,590 4,524	4,136 147	29,500 1,046
15 16	Non-network	/82	19	4,524	147	1,046
10	1(ii): Revenue metrics					
18	_(-)	Revenue per GWh energy delivered to ICPs (\$/GWh)	Revenue per average no. of ICPs (\$/ICP)			
18 19	Total consumer line charge revenue	81,568	1,987	1		
20	Standard consumer line charge revenue	104,674	1,836			
21	Non-standard consumer line charge revenue	22,221	419,851			
22			,	I		
23	1(iii): Service intensity measures					
24						
25	Demand density	32	Maximum coincl	ident system deman	d per km of circuit le	ength (for supply) (kW/kr
26	Volume density	187	Total energy del	ivered to ICPs per kn	n of circuit length (fe	or supply) (MWh/km)
27	Connection point density	8	-	r of ICPs per km of ci		
28	Energy intensity	24,361	Total energy del	ivered to ICPs per av	erage number of IC	Ps (kWh/ICP)
29	1/in/). Composition of regulatory income					
30 31	1(iv): Composition of regulatory income		(\$000)	% of revenue		
31 32	Operational expenditure		18,296	27.72%	i	
33	Pass-through and recoverable costs excluding financial incent	ives and wash-ups	16,219	24.58%		
34	Total depreciation		9,135	13.84%		
35	Total revaluations		3,180	4.82%		
36	Regulatory tax allowance		6,292	9.53%		
37	Regulatory profit/(loss) including financial incentives and was	h-ups	19,233	29.14%		
38	Total regulatory income		65,994			
39						
40	1(v): Reliability					
41 42	Interruption rate		11.74	Interruptions per	r 100 circuit km	
72	interruption rate		11.74	interruptions per		



311	of post tax WACC an s election, informat ssurance report req 2Y-2	ion supporting th uired by section 2	Lis calculation L.8. Urrent Year CY 31 Mar 19 % 8.81% 8.75% 6.42% 4.75% 4.07% 5.43% 9.32% 9.32% 9.32% 9.32% 7.19% 5.26% 4.58%
his schedule requires information on the Return on Investment (ROI) for the EDB relative to the Commerce Commission's estimates of aculate their ROI based on a monthly base if required by clause 2.3.3 of the ID Determination or if they elect to . If an EDB makes thi usible provide on a monthly base if required by clause 2.3.3 of the ID Determination or if they elect to . If an EDB makes thi usible provide on a monthly base if required by clause 2.3.3 of the ID Determination or if they elect to . If an EDB makes this usible provide on the ROI in Schedule 14 (Mandatory Explanatory Notes). In this information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the as a first of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the as a first of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the as a first of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the as a first of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the as a first of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the as a first organization is part tax WACC Reflecting all revenue earned from financial incentives and wash-ups KOI - comparable to a vanilla WACC Reflecting all revenue earned from financial incentives and wash-ups KOL rate used to set regulatory price path Mid-point estimate of vanilla WACC Sub percentile estimate Z(ii): Information Supporting the ROI Line charge revenue Expenses cash outflow Add Assets commissioned Less Asset disposits Add Tax payments Add Assets doposits Add Tax payments Add Assets doposits Add Tax payments Add Assets doposits	s election, informat surance report req (Y-2 Var 17 31 8 8.10% 8.10% 5.65% 4.05% 4.05% 5.48% 5.48% 8.65% 8.65% 8.65% 8.65% 5.48% 9 7.19% 7.19% 9 7.19% 9 7.19%	tion supporting the uired by section 2 CY-1 CC Mar 18 % 6.6.64% 4 6.6.66% 4 4.32% 7 5.04% 4 5.72% 7 7.23% 4 7.26% 4 7.26% 4 7.26% 4 7.26% 4 7.19% 7 7.19% 7 7.19% 4 7.19% 4 7.19% 7 7.19% 7 7 7.19% 7 7 7.19% 7 7 7.19% 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Lis calculation 2.8. urrent Year CY 31 Mar 19 % 8.81% 8.75% 6.42% 4.75% 4.07% 5.43% 9.32% 9.35% 9.35% 9.35% 9.35% 9.35% 9.35% 9.35% 9.35% 9.35% 9.35% 9.35% 9.35% 9.35% 9.35% 9.35% 9.35% 9.35% 9.35% 9.35% 9.3% 9.3% 9.3% 9.3% 9.5% 9.5
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Reflecting all revenue earned	8.65% 6.19% 7.19% 5.31% 4.59%	7.26% 4.91% 7.19% 5.60% 4.92%	9.26% 6.92% 7.19% 5.26% 4.58%
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7 25th percentile estimate 8 75th percentile estimate 9 2(ii): Information Supporting the ROI 1 Total opening RAB value 2 Total opening RAB value 3 plus 0pening RIV 4 Opening RIV 5 Line charge revenue 7 Expenses cash outflow 9 add	4.59%	4.92%	4.58%
8 75th percentile estimate 9 2(ii): Information Supporting the ROI 1 Total opening RAB value 9 plus 9 Opening RIV 5 Line charge revenue 7 Expenses cash outflow 9 add 9 add 9 add 9 add 1 add 2 Other regulated income 3 Mid-year net cash outflows 4 Term credit spread differential allowance 6 Total closing RAB value 8 less 4 Adjustment resulting from asset allocation			
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5 Line charge revenue 6 Line charge revenue 7 Expenses cash outflow 9 add 1 add	(3,433)	204,924	
7 Expenses cash outflow 9 add 9 add 0 less 1 add 1 add 2 less 0 trax payments 2 trax payments 2 trax payments 3 Mid-year net cash outflows 4 trax payments 5 Term credit spread differential allowance 6 trax payment resulting from asset allocation			
8 Expenses cash outflow 9 add 9 add 0 less 1 add 1 add 1 add 2 less 0 trace 3 Mid-year net cash outflows 4		65,994	
9 add Assets commissioned 0 less Asset disposals 1 add Tax payments 2 less Other regulated income 3 Mid-year net cash outflows 4 5 Term credit spread differential allowance 6 7 Total closing RAB value 8 less 4			
0 less Asset disposals	34,515		
add Tax payments less Other regulated income Mid-year net cash outflows	17,450		
2 less Other regulated income 3 Mid-year net cash outflows 4			
3 Mid-year net cash outflows 4 5 5 6 7 7 7 8 less Adjustment resulting from asset allocation	4,270		
4 5 Term credit spread differential allowance 6 7 Total closing RAB value 8 less Adjustment resulting from asset allocation	-		
5 Term credit spread differential allowance 6 7 Total closing RAB value 8 less Adjustment resulting from asset allocation		56,236	
6 7 Total closing RAB value 8 less Adjustment resulting from asset allocation			
7 Total closing RAB value 8 less Adjustment resulting from asset allocation			
8 less Adjustment resulting from asset allocation	218,988		
	(6,867)		
	-		
0 plus Closing deferred tax	(11,456)		
1 Closing RIV		214,399	
2			
3 ROI – comparable to a vanilla WACC			9.32%
4 5 Leverage (%)			42%
6 Cost of debt assumption (%)			4.33%
7 Corporate tax rate (%)			28%
8			
9 ROI – comparable to a post tax WACC			



				Г			
				Company Name For Year Ended	Alp	bine Energy Limi 31 March 2019	ted
sc	CHEDULE 2: REPORT ON RETURN		νт	For Year Ended		51 Watch 2015	
This calo mu EDE	s schedule requires information on the Return on In culate their ROI based on a monthly basis if required st be provided in 2(iii). 3s must provide explanatory comment on their ROI s information is part of audited disclosure informati	vestment (ROI) for the EDI I by clause 2.3.3 of the ID I in Schedule 14 (Mandator	B relative to the Comme Determination or if they y Explanatory Notes).	elect to. If an EDB m	akes this election, in	nformation supportin	g this calculation
sch re 61	f 2(iii): Information Supporting the	Monthly ROI					
62 63	Opening RIV						N/A
64							177
65		Line charge	Expenses cash	Assets	Asset	Other regulated	Monthly net cash
66 67	Annil	revenue	outflow _	commissioned	disposals	income	outflows -
67 68	April May			-	-	-	
69	June	-	-	-	-	-	_
70	July		-	-	-	-	_
71 72	August September	-	-	-	-	-	-
73	October	_		-	-	_	
74	November	-	-	-	-	-	
75	December	-	-	-	-	-	-
76	January	-	-	-	-	-	_
77	February	-	-	-	-	-	
78 79	March Total	-	-	-	-	-	-
80			I				
81	Tax payments						N/A
82 83	Term credit spread differential allow	vance					N/A
84 85	Closing RIV						N/A
86 87 88	Monthly ROI – comparable to a vanilla	WACC					N/A
89 90	Monthly ROI – comparable to a post ta	ax WACC					N/A
91 92 93	2(iv): Year-End ROI Rates for Con	nparison Purposes					
94 95	Year-end ROI – comparable to a vanilla	a WACC					5.86%
96 97	Year-end ROI – comparable to a post t	ax WACC					5.35%
98 99	* these year-end ROI values are compa		n pre 2012 disclosures b	y EDBs and do not rep	present the Commis.	sion's current view or	n ROI.
100 101	2(v): Financial Incentives and Wa						
102 103	Net recoverable costs allowed under Purchased assets – avoided transmis		uve scheme			-	
104	Energy efficiency and demand incent						
105	Quality incentive adjustment					166	
106	Other financial incentives					-	
107	Financial incentives						166
108 109	Impact of financial incentives on ROI						0.06%
105	impact of infancial incentives on Nor						0.00%
111	Input methodology claw-back					2,875	ſ
112	CPP application recoverable costs					-	
113	Catastrophic event allowance					-	
114	Capex wash-up adjustment Transmission asset wash-up adjustm	ent				590	
115 116	Transmission asset wash-up adjustm 2013–15 NPV wash-up allowance	ent				- 3,076	
116 117	Reconsideration event allowance					3,076	
118	Other wash-ups					_	
119	Wash-up costs						6,541
120							2.24%
121	Impact of wash-up costs on ROI						2.34%

ржс

S2.Return on Investment

	Company Name Al	pine Energy Limited
	For Year Ended	31 March 2019
SC	CHEDULE 3: REPORT ON REGULATORY PROFIT	
the	is schedule requires information on the calculation of regulatory profit for the EDB for the disclosure year. All EDBs must complete all sectio ir regulatory profit in Schedule 14 (Mandatory Explanatory Notes). is information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance	
ch rej	f	
7	3(i): Regulatory Profit	(\$000)
8	Income	
9	Line charge revenue	65,994
10	plus Gains / (losses) on asset disposals	
11	plus Other regulated income (other than gains / (losses) on asset disposals)	_
12		
13	Total regulatory income	65,994
14	Expenses	
15	less Operational expenditure	18,296
16		
17	less Pass-through and recoverable costs excluding financial incentives and wash-ups	16,219
18		
19	Operating surplus / (deficit)	31,479
20		
21	less Total depreciation	9,135
22		_
23	plus Total revaluations	3,180
24		
25	Regulatory profit / (loss) before tax	25,525
26	less Terre and it for the line is a line set of the line set o	
27	less Term credit spread differential allowance	
28 29	less Regulatory tax allowance	6,292
30		0,232
31	Regulatory profit/(loss) including financial incentives and wash-ups	19,233
32		
33	3(ii): Pass-through and Recoverable Costs excluding Financial Incentives and Wash-Ups	(\$000)
34	Pass through osts	,
34 35	Rates	95
36	Commerce Act levies	99
37	Industry levies	157
38	CPP specified pass through costs	_
39	Recoverable costs excluding financial incentives and wash-ups	
40	Electricity lines service charge payable to Transpower	14,041
41	Transpower new investment contract charges	1,827
42	System operator services	_
43	Distributed generation allowance	_
44	Extended reserves allowance	_
45	Other recoverable costs excluding financial incentives and wash-ups	-
46	Pass-through and recoverable costs excluding financial incentives and wash-ups	16,219
47		



		Company Name	Alpine Energy Lir	nited
		For Year Ended	31 March 201	.9
S	CHEDULE 3: REP	DRT ON REGULATORY PROFIT		
Thi	is schedule requires inform	ation on the calculation of regulatory profit for the EDB for the disclosure year. All EDBs must con	plete all sections and provide expl	anatory comment or
		dule 14 (Mandatory Explanatory Notes).		
Thi	is information is part of au	dited disclosure information (as defined in section 1.4 of the ID determination), and so is subject t	o the assurance report required by	section 2.8.
h re	ef			
8	3(iii): Increme	ntal Rolling Incentive Scheme	(\$000)
19	- ()		CY-1	СҮ
50			31 Mar 18	31 Mar 19
51	Allowed co	ntrollable opex	N/A	N/A
52	Actual cont	rollable opex	N/A	N/A
53				
54	Incrementa	l change in year		N/A
55				
				Previous years'
			Previous years' incremental	incremental change adjusted
56			change	for inflation
57	CY-5	31 Mar 14	N/A	N/A
58	CY-4	31 Mar 15	N/A	N/A
59	CY-3	31 Mar 16	N/A	N/A
50	CY-2	31 Mar 17	N/A	N/A
61	CY-1	31 Mar 18	N/A	N/A
62	Net increme	tal rolling incentive scheme		_
53				
54	Net recovera	ble costs allowed under incremental rolling incentive scheme		-
55	3(iv): Merger a	d Acquisition Expenditure		
70	. ,			(\$000)
56	Merger and	acquisition expenditure		N/A
57				
	Provide cor	mentary on the benefits of merger and acquisition expenditure to the electricity distribution busin	ess, including required disclosures in	n accordance with
68		in Schedule 14 (Mandatory Explanatory Notes)	,	
0	3(v): Other Disc	osures		
	July. Other Dist			(\$000)
	0.161			(\$000) N/A
69 70 71		ce allowance		

S3.Regulatory Profit

EDULE 4: REPORT ON VALUE OF THE REGULATORY ASSET BASE (R hedule requires information on the calculation of the Regulatory Asset Base (RAB) value to the end of this nust provide explanatory comment on the value of their RAB in Schedule 14 (Mandatory Explanatory Note: ed by section 2.8.	disclosure year. This informs the ROI calculation in Sched	ule 2.	Ompany Name	3	ne Energy Limit 31 March 2019 s subject to the assur	
4(i): Regulatory Asset Base Value (Rolled Forward)	for year ended	RAB 31 Mar 15 (\$000)	RAB 31 Mar 16 (\$000)	RAB 31 Mar 17 (\$000)	RAB 31 Mar 18 (\$000)	RAB 31 Mar 1 (\$000)
Total opening RAB value		159,366	172,594	175,913	190,264	214
less Total depreciation		6,204	7,000	7,463	9,046	9
plus Total revaluations		134	715	3,805	2,093	3
plus Assets commissioned		18,705	11,857	18,589	31,047	17
less Asset disposals		225	87	306	-	
<i>plus</i> Lost and found assets adjustment		817	(2,166)	(274)	-	
plus Adjustment resulting from asset allocation		1.0	(0)	1	-	(6
Total closing RAB value		172,594	175,913	190,264	214,359	218
4(ii): Unallocated Regulatory Asset Base		172,594	175,913 Unallocate (\$000)		214,359 RAE (\$000)	; (\$000)
4(ii): Unallocated Regulatory Asset Base Total opening RAB value less Total depreciation		172,594	Unallocate	d RAB * (\$000)	RAE	•
4(ii): Unallocated Regulatory Asset Base Total opening RAB value less Total depreciation plus Total revaluations		172,594	Unallocate	d RAB * (\$000) 214,359	RAE	; (\$000) 214 <u>c</u>
4(ii): Unallocated Regulatory Asset Base Total opening RAB value less Total depreciation plus		172,594	Unallocate	d RAB * (\$000) 214,359 9,135 3,180	RAE	(\$000) 214 <u>-</u>
4(ii): Unallocated Regulatory Asset Base Total opening RAB value less Total depreciation plus Total revaluations plus Assets commissioned (other than below) Assets acquired from a regulated supplier		172,594	Unallocate (\$000)	d RAB * (\$000) 214,359 9,135	(\$000)	\$ 214
4(ii): Unallocated Regulatory Asset Base Total opening RAB value less Total depreciation plus Total revaluations plus Assets commissioned (other than below) Assets acquired from a regulated supplier Assets acquired from a related party Assets commissioned less Asset disposals (other than below) Asset disposals (other than below) Asset disposals to a regulated supplier Asset disposals to a related party		172,594	Unallocate (\$000)	d RAB * (\$000) 214,359 9,135 3,180 17,450	(\$000)	(\$000) 214 <u>-</u>
4(ii): Unallocated Regulatory Asset Base Total opening RAB value less Total depreciation plus Total revaluations plus Assets commissioned (other than below) Assets acquired from a regulated supplier Assets acquired from a related party Asset disposals (other than below) Asset disposals (other than below) Asset disposals to a regulated supplier		172,594	Unallocate (\$000)	d RAB * (\$000) 214,359 9,135 3,180	(\$000) (\$000)	(\$000) 214 <u>-</u>
4(ii): Unallocated Regulatory Asset Base Total opening RAB value less Total depreciation plus Total revaluations plus Assets commissioned (other than below) Assets acquired from a regulated supplier Assets acquired from a related party Asset disposals (other than below) Asset disposals to a related party Asset disposals to a related party Asset disposals		172,594	Unallocate (\$000)	d RAB * (\$000) 214,359 9,135 3,180 17,450	(\$000) (\$000)	(\$000) 214

		Company Name	Alp	ine Energy Limi	ted
		For Year Ended		31 March 2019	
SC	CHEDULE 4: REPORT ON VALUE OF THE REGULATORY ASSET BASE (ROLLED FORWARD)	-			
	s 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.				
	Bs must provide explanatory comment on the value of their as in Schedule 14 (Mandatory Explanatory Notes). This information is part of audited disclosure information (as defined i	n section 1.4 of the ID det	ermination), and so	is subject to the assu	urance report
req	uired by section 2.8.				
sch rej	f				
51					
51					
52	4(iii): Calculation of Revaluation Rate and Revaluation of Assets				
53				_	
54	CPI ₄			_	1,026
55	CPI4 ⁴			_	1,011
56	Revaluation rate (%)			L	1.48%
57		Unallocate		RA	
58		(\$000)	(\$000)	(\$000)	.в (\$000)
59	Total opening RAB value	214,359	(\$000)	214,359	(\$000)
60 61	less Opening RAB value	214,359		214,359	
62	icas — opening rando or nany acproducto, asporte and rost aspect				
63	Total opening RAB value subject to revaluation	214,359		214,359	
64	Total revaluations		3,180		3,180
65		-			
66	4(iv): Roll Forward of Works Under Construction				
		Unallocated v	vorks under		
67		constru	ction	Allocated works up	
68	Works under construction—preceding disclosure year		4,482		4,482
69	plus Capital expenditure	14,499		14,499	
70	less Assets commissioned	17,450		17,450	
71	plus Adjustment resulting from asset allocation	г	1,531	-	1 5 2 1
72	Works under construction - current disclosure year		1,531	L	1,531
73 74	Highest rate of capitalised finance applied			ſ	-
74	піднех гас от сартанзей піталіс аррітей			L	-

							(Company Name	Alp	ine Energy Limi	ted
								For Year Ended		31 March 2019	
·μ	HEDULE 4: REPORT ON VALUE OF THE R	FGULATORY /	SSET BASE					, or rear Ended			
	schedule requires information on the calculation of the Regulato							ion 1.4 of the ID do	tormination) and co	is subject to the ass	ranco ronort
	must provide explanatory comment on the value of their RAB in red by section 2.8.	i Schedule 14 (ivianda)	ory explanatory No	tes). This informatio	n is part of audited	disclosure information	on (as defined in sect	ion 1.4 of the ID de	termination), and so	is subject to the assi	urance report
un	rea by section 2.0.										
f											
	4(v): Regulatory Depreciation										
								Unallocat		RA	
	Descentation, standard						r	(\$000)	(\$000)	(\$000)	(\$000)
	Depreciation - standard						-	7,470		7,470 1,664	
	Depreciation - no standard life assets Depreciation - modified life assets						-	1,004		-	
	Depreciation - alternative depreciation in accord	ance with CPP					-	_			
	Total depreciation						L		9,135		
									5,205	· ·	
	4(vi): Disclosure of Changes to Depreciation	Profiles						(\$000 u	unless otherwise spe	ecified)	
										Closing RAB value	
									Depreciation		Closing RAB
									charge for the	standard'	under 'stan
	Asset or assets with changes to depreciation*					on for non-standard	depreciation (text e	ntry)	period (RAB)	depreciation	depreciat
	None				Not Applicable				Not Applicable	Not Applicable	Not Applica
	* include edulities al second if a coded										
	* include additional rows if needed										
	4(vii): Disclosure by Asset Category										
	(,,,					(\$000 unless oth	erwise specified)				
							Distribution				
		Subtransmission			Distribution and	Distribution and	substations and	Distribution	Other network	Non-network	
			cables	Zone substations	LV lines	LV cables	transformers	switchgear	assets	assets	Total
		lines					25,102	10,398	6,135	20,242	21
	Total opening RAB value	12,850	3,130	42,125	45,712	48,664				1,664	
	Total opening RAB value less Total depreciation				45,712 2,097	48,664 1,493	1,019	288	371		
		12,850 585 191	3,130 79 46	42,125 1,538 625	2,097 678	1,493 722		154	90	300	
	less Total depreciation	12,850 585	3,130 79	42,125 1,538 625 9,374	2,097	1,493	1,019		_	300 197	
	less Total depreciation plus Total revaluations	12,850 585 191	3,130 79 46	42,125 1,538 625	2,097 678	1,493 722	1,019 372	154	90		
	less Total depreciation plus Total revaluations plus Assets commissioned	12,850 585 191 836	3,130 79 46 0	42,125 1,538 625 9,374	2,097 678 2,514	1,493 722 1,943	1,019 372 0	154 1,485	90 1,102	197 -	1
	less Total depreciation plus Total revaluations plus Assets commissioned less Asset disposals plus Lost and found assets adjustment plus Adjustment resulting from asset allocation	12,850 585 191 836	3,130 79 46 0 -	42,125 1,538 625 9,374 -	2,097 678 2,514	1,493 722 1,943	1,019 372 0 -	154 1,485	90 1,102	197 - (6,867)	1
	less Total depreciation plus Total revaluations plus Assets commissioned less Asset disposals plus Lost and found assets adjustment plus Adjustment resulting from asset allocation plus Asset category transfers	12,850 585 191 836 -	3,130 79 46 0 -	42,125 1,538 625 9,374 - 1,066	2,097 678 2,514 –	1,493 722 1,943 –	1,019 372 0 - (2,747)	154 1,485 –	90 1,102 -	197 (6,867) 	1
	less Total depreciation plus Total revaluations plus Assets commissioned less Asset disposals plus Lost and found assets adjustment plus Adjustment resulting from asset allocation	12,850 585 191 836	3,130 79 46 0 -	42,125 1,538 625 9,374 -	2,097 678 2,514	1,493 722 1,943	1,019 372 0 -	154 1,485	90 1,102	197 - (6,867)	1
	less Total depreciation plus Total revaluations plus Assets commissioned less Asset disposals plus Lost and found assets adjustment plus Adjustment resulting from asset allocation plus Asset category transfers	12,850 585 191 836 -	3,130 79 46 0 -	42,125 1,538 625 9,374 - 1,066	2,097 678 2,514 –	1,493 722 1,943 –	1,019 372 0 - (2,747)	154 1,485 –	90 1,102 -	197 (6,867) 	1
	less Total depreciation plus Total revaluations plus Assets commissioned less Asset disposals plus Lost and found assets adjustment plus Adjustment resulting from asset allocation plus Asset category transfers	12,850 585 191 836 -	3,130 79 46 0 -	42,125 1,538 625 9,374 - 1,066	2,097 678 2,514 –	1,493 722 1,943 –	1,019 372 0 - (2,747)	154 1,485 –	90 1,102 -	197 (6,867) 	1
	less Total depreciation plus Total revaluations plus Assets commissioned less Asset disposals plus Lost and found assets adjustment plus Adjustment resulting from asset allocation plus Asset category transfers Total closing RAB value	12,850 585 191 836 -	3,130 79 46 0 -	42,125 1,538 625 9,374 - 1,066	2,097 678 2,514 –	1,493 722 1,943 –	1,019 372 0 - (2,747)	154 1,485 –	90 1,102 -	197 (6,867) 	1 1 ((21)

		Company Name	Alpine Energy Limited
		For Year Ended	31 March 2019
SC	HEDULE	5a: REPORT ON REGULATORY TAX ALLOWANCE	
profi	it). EDBs must	irres information on the calculation of the regulatory tax allowance. This information is used to calculate regula provide explanatory commentary on the information disclosed in this schedule, in Schedule 14 (Mandatory Ex part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to t	planatory Notes).
7	5a(i): R	egulatory Tax Allowance	(\$000)
8	•••	Regulatory profit / (loss) before tax	25,525
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	388 *
12		Amortisation of initial differences in asset values	2,722
13		Amortisation of revaluations	664
14			3,775
15			
16	less	Total revaluations	3,180
17		Income included in regulatory profit / (loss) before tax but not taxable	*
18		Discretionary discounts and customer rebates	-
19 20		Expenditure or loss deductible but not in regulatory profit / (loss) before tax	- *
20		Notional deductible interest	3,649
21 22			6,829
23		Regulatory taxable income	22,471
24			
25	less	Utilised tax losses	-
26		Regulatory net taxable income	22,471
27			
28		Corporate tax rate (%)	28%
29	l	Regulatory tax allowance	6,292
30			
31	* Work	ings to be provided in Schedule 14	
32	5a(ii): D	isclosure of Permanent Differences	
33		In Schedule 14, Box 5, provide descriptions and workings of items recorded in the asterisked categories in Sc	hedule 5a(i).
34 35	5a(iii): /	Amortisation of Initial Difference in Asset Values	(\$000)
36		Opening unamortised initial differences in asset values	45,429
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	42,707
41			
42		Opening weighted average remaining useful life of relevant assets (years)	16.7
43			

			Alpino Energy I	imited
		Company Name	Alpine Energy L 31 March 2	
			31 Warch 2	019
This prot This	schedule requ fit). EDBs mus information is	5a: REPORT ON REGULATORY TAX ALLOWANCE uires information on the calculation of the regulatory tax allowance. This information is used to calculate regula t provide explanatory commentary on the information disclosed in this schedule, in Schedule 14 (Mandatory Ex s part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to	planatory Notes).	
ch rej				(6000)
44	5a(iv): /	Amortisation of Revaluations		(\$000)
45 46		Opening sum of RAB values without revaluations	200,737	
47				
48		Adjusted depreciation	8,470	
49		Total depreciation	9,135	
50		Amortisation of revaluations		664
51				
52	5a(v): F	Reconciliation of Tax Losses		(\$000)
53				
54		Opening tax losses	-	
55	plus	Current period tax losses	-	
56 57	less	Utilised tax losses	-	
57		Closing tax losses	L	_
58	5a(vi):	Calculation of Deferred Tax Balance		(\$000)
59	. ,			
60		Opening deferred tax	(9,435)	
61				
62	plus	Tax effect of adjusted depreciation	2,372	
63				
64	less	Tax effect of tax depreciation	3,638	
65				
66	plus	Tax effect of other temporary differences*	7	
67 68	1000	Tay offect of emotion the initial differences in each values	762	
68 69	less	Tax effect of amortisation of initial differences in asset values	762	
70	plus	Deferred tax balance relating to assets acquired in the disclosure year	_	
71	pius			
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	L	(11,456)
77				
77	F = ().	Dialanna af Tananana Differencea		
78	5a(vii):	Disclosure of Temporary Differences In Schedule 14, Box 6, provide descriptions and workings of items recorded in the asterisked category in Sche	dula 5a(vi) (Tax affect of a	ther temporary
79		differences).		ther temporary
80				
81	5a(viii):	Regulatory Tax Asset Base Roll-Forward		
82				(\$000)
83		Opening sum of regulatory tax asset values	122,667	
84	less	Tax depreciation	12,993	
85	plus	Regulatory tax asset value of assets commissioned	17,450	
86	less	Regulatory tax asset value of asset disposals		
87	plus	Lost and found assets adjustment	-	
88 80	plus	Adjustment resulting from asset allocation	(6,867)	
89 90	plus	Other adjustments to the RAB tax value Closing sum of regulatory tax asset values	-	120,257
50		ciosing sum of reputatory tax asset values	L	120,237

		Company Name	Alpine E	nergy Limited	
		For Year Ended	31 N	larch 2019	
HED	ULE 5b: REPORT ON RELATED F	PARTY TRANSACTIONS			
	le provides information on the valuation of related				
s informa	ation is part of audited disclosure information (as o	defined in clause 1.4 of the ID determination), and	so is subject to the assi	urance report require	d by clause 2.
f					
5b(i)): Summary—Related Party Transa	ctions		(\$000)	(\$000)
	Total regulatory income			L	
				Г	
	Market value of asset disposals			L	
	Service interruptions and emergencies			2,217	
	Vegetation management			443	
	Routine and corrective maintenance and	d inspection		2,249	
	Asset replacement and renewal (opex)			88	
	Network opex		1		4
	Business support System operations and network support			 96	
	Operational expenditure		I	50	5
	Consumer connection			3,624	
	System growth			824	
	Asset replacement and renewal (capex)			5,633	
	Asset relocations			309	
	Quality of supply			102	
	Legislative and regulatory Other reliability, safety and environmen	+		1 456	
	Expenditure on non-network assets	ι.	I	430	
	Expenditure on assets			ľ	10
	Cost of financing				
	Value of capital contributions			_	
	Value of vested assets			ŀ	40
	Capital Expenditure Total expenditure			ŀ	10
				L	10
	Other related party transactions			[
5b(ii	ii): Total Opex and Capex Related P	Party Transactions			
					Total value
	Name of related party	Nature of opex or capex service provided			transactior (\$000)
	Netcon	Consumer connection			3,62
	Netcon	Asset replacement and renewal (capex)			5,63
	Netcon	System growth			82
	Netcon	Asset relocations			30
	Netcon	Quality of supply			10
	Netcon	Legislative and regulatory			
	Netcon	Other reliability, safety and environment Expenditure on non-network assets			45
	Netcon	Service interruptions and emergencies			2,21
	Netcon	Vegetation management			44
	Netcon	Routine and corrective maintenance and in	spection		2,24
	Netcon	Asset replacement and renewal (opex)	•		8
	Netcon	System operations and network support			g
	Total value of related party transaction	16			16,04

						Company Name		av Limited
						FOI TEUI EIIUEU	JIMan	2015
					ying debt and non-q	ualifying debt) is gre	eater than five years.	
	ib determination, and	so is subject to the a	issurance report requ	uned by section 2.8.				
5c(i): Qualifying Debt (may be Commission only)								
						Book value at		
			Original tenor (in		Book value at	date of financial	Term Credit	Debt issue cost
Issuing party	Issue date	Pricing date	years)	Coupon rate (%)	issue date (NZD)			readjustment
Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
* include and different access if a code d								
* Incluae daaltional rows If needed							-	-
5c(ii): Attribution of Term Credit Spread Differential								
				-				
Gross term credit spread differential			-					
		[1					
-		-	-					
Attribution Rate (%)			-					
Term credit spread differential allowance			-					
s	s schedule is only to be completed if, as at the date of the most recently published fina s information is part of audited disclosure information (as defined in section 1.4 of the f Sc(i): Qualifying Debt (may be Commission only) Issuing party Not Applicable Not Applicable * include additional rows if needed Sc(ii): Attribution of Term Credit Spread Differential Gross term credit spread differential Total book value of interest bearing debt Leverage Average opening and closing RAB values Attribution Rate (%)	s schedule is only to be completed if, as at the date of the most recently published financial statements, the we sinformation is part of audited disclosure information (as defined in section 1.4 of the ID determination), and f Sc(i): Qualifying Debt (may be Commission only) $ \frac{1 \text{ Issuing party} \qquad \text{ Issue date}}{1 \text{ Not Applicable}} \\ \frac{\text{ Not Applicable}}{1 \text{ additional rows if needed}} $ Sc(ii): Attribution of Term Credit Spread Differential Gross term credit spread differential Total book value of interest bearing debt Leverage Average opening and closing RAB values Attribution Rate (%)	s information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the a f 5c(i): Qualifying Debt (may be Commission only) $ ssue date Pricing date Not Applicable Not $	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 det 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 req f 5c(i): Qualifying Debt (may be Commission only) $\frac{\text{Not Applicable}}{\text{Not Applicable}} + \text{Not Applicable} + N$	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 qualif 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. f f f c (j): Qualifying Debt (may be Commission only) $\frac{ s_{suing party} s_{sue date} ricing date ricing date verage verag$	Schedule S circle Schedule 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 subject 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. for Sci(): Qualifying Debt (may be Commission only) The <u>subject of audited and the assurance report required by section 2.8.</u> for <u>subject of audited and the assurance report required by section 2.8.</u> for <u>subject 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. for <u>subject 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. for <u>subject 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. for <u>subject 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. for <u>subject 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. for <u>subject of audited disclosure information</u> (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8. for <u>subject and the ID determination</u> (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8. for <u>subject and the ID determination</u> (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 applicable hold Applic</u></u></u></u></u>	Science of the most recently published financial statements, the weighted average original tenor of the debt portfolio (both qualifying debt and non-qualifying debt) is greated disclosure information (s as defined in sector 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8. * Sci(): Qualifying Debt (may be Commission only): * Social tenor (in sector) * Social tenor (in sector	HEDULE 5: REPORT ON TERM CREDIT SPREAD DIFFERENTIAL ALLOWANCE schedule is only to be completed if, set the date of the most recently published financial statements, the weighted average original tenor of the deb portfolio (both qualifying debt and non-qualifying debt) is greater than five years. information is part of addited dividuourie information (as defined in section 1.4 of the D determination), and so is subject to the assurance report required by section 2.8. f Sc(i): Qualifying Debt (may be Commission only): f Sc(i): Qua

			Company Name	Alr	oine Energy Lim	ited
			For Year Ended	· · · ·	31 March 201	
			TOT TEUT LITUEU		51 110101 201	
	SCHEDULE 5d: REPORT ON COST ALLOCATIONS					
	his schedule provides information on the allocation of operational costs. EDBs must provide explanatory comment on their cost allocation			es), including on the i	impact of any reclas	sifications.
	his information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assuran	ce report required by	section 2.8.			
sch	ef					
7	5d(i): Operating Cost Allocations					
٤			Value alloca	ted (\$000s)		
			Electricity	Non-electricity		
		Arm's length	distribution	distribution		OVABAA allocation
9		deduction	services	services	Total	increase (\$000s)
10						
11			2,340		r	
12		-	-	-	-	Not Applicable
13			2,340			
14						
15			562		r	1
16		-	-	-	-	Not Applicable
17			562			
18	· · · · · · · · · · · · · · · · · · ·					
19			2,482		r	1
20		-	-	-	-	Not Applicable
21	-		2,482			
22			· · · · · · · · · · · · · · · · · · ·			
23			93		r	La service de la
24		-	-		-	Not Applicable
25			93			
26			[]			
27			5,205			
28		-	-	-	-	Not Applicable
29			5,205			
30						
31			-	007	7.64	Alet Asselfashis
32		-	6,717	897	7,614	Not Applicable
33			6,717			
35			10,682			
36		-	6,717	897	7,614	-
37			17,399		.,	
38			,			
1 30						

CHEDULE 5d: REPORT ON COST ALLOCATIONS is schedule provides information on the allocation of operational costs. EDBs must provide explanatory comment on their cost allocation in Schedule 14 is 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 f 5d(ii): Other Cost Allocations Pass through and recoverable costs Pass through costs Directly attributable Total attributable to regulated service Recoverable costs Directly attributable Total attributable to regulated service Sd(iii): Changes in Cost Allocations* †	(\$000) (\$000) 351 - 351 15,869 - 15,869 -	31 March 2019 Iding on the impact of any reclass (\$000) CY-1 Current Year (CY)
is schedule provides information on the allocation of operational costs. EDBs must provide explanatory comment on their cost allocation in Schedule 14 is 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 5d(ii): Other Cost Allocations Pass through and recoverable costs Pass through costs Directly attributable Total attributable Not directly attributable Directly attributable Not directly attributable Total attributable Total attributable Total attributable to regulated service	(\$000) (\$000) 351 - 351 15,869 - 15,869 -	(\$000)
is 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 5d(ii): Other Cost Allocations Pass through and recoverable costs Pass through costs Directly attributable Not directly attributable or regulated service Recoverable costs Directly attributable Not directly attributable Total attributable Total attributable to regulated service	(\$000) (\$000) 351 - 351 15,869 - 15,869 -	(\$000)
5d(ii): Other Cost Allocations Pass through and recoverable costs Pass through costs Directly attributable Total attributable to regulated service Recoverable costs Directly attributable Not directly attributable Total attributable to regulated service	(\$000) 351 - 351 15,869 - 15,869	
5d(ii): Other Cost Allocations Pass through and recoverable costs Pass through costs Directly attributable Not directly attributable Total attributable to regulated service Recoverable costs Directly attributable Not directly attributable Total attributable to regulated service	351 - 351 15,869 - 15,869	
Pass through and recoverable costs Pass through costs Directly attributable Not directly attributable Total attributable to regulated service Recoverable costs Directly attributable Not directly attributable Total attributable Total attributable to regulated service	351 - 351 15,869 - 15,869	
Pass through costs Directly attributable Not directly attributable Total attributable to regulated service Recoverable costs Directly attributable Not directly attributable Total attributable to regulated service	351 - 351 15,869 - 15,869	
Directly attributable Not directly attributable Total attributable to regulated service Recoverable costs Directly attributable Not directly attributable Total attributable to regulated service		
Not directly attributable Total attributable to regulated service Recoverable costs Directly attributable Not directly attributable Total attributable to regulated service		
Total attributable to regulated service Recoverable costs Directly attributable Not directly attributable Total attributable to regulated service	351 15,869 - 15,869	
Recoverable costs Directly attributable Not directly attributable Total attributable to regulated service	15,869 – 15,869	
Directly attributable Not directly attributable Total attributable to regulated service	 15,869	
Not directly attributable Total attributable to regulated service	 15,869	
Total attributable to regulated service	15,869	
5d(iii): Changes in Cost Allocations* †		
Sulling, changes in cost Anotations		
Change in cost allocation 1		
Cost category Business Support	Original allocation	7,295 7,614
Original allocator or line items Directly Attibuable	New allocation	6,436 6,717
New allocator or line items Revenue	Difference	859 897
Rationale for change Costs apportioned on a proxy of percentage revenue earned on non-electricity distrib	ribution services versus the regulated bus	siness, under the change from
ACAM to ABAA in the current year under the current year's determination.		
		(\$000)
Change in cost allocation 2		CY-1 Current Year (CY)
Cost category None	Original allocation	
Original allocator or line items None	New allocation	
New allocator or line items None	Difference	
Rationale for change Not Aplicable		
Rationale for change Not Aplicable		
		(\$000)
Change in cost allocation 3		CY-1 Current Year (CY)
Cost category None	Original allocation	
Original allocator or line items None	New allocation	
New allocator or line items None	Difference	
Rationale for change Not Aplicable		
* a change in cost allocation must be completed for each cost allocator change that has occurred in the disclosure year. A movement in an allocato	ator metric is not a change in allocator or	r component.

5			Company Name		ne Energy Limited
			For Year Ended	3	81 March 2019
	CHEDULE 5e: REPORT ON ASSET ALLO	CATIONS			
	is schedule requires information on the allocation of asset valu				
	Bs must provide explanatory comment on their cost allocation sclosure information (as defined in section 1.4 of the ID determ			changes in asset allocation	s. This information is part of audited
	elosare information (as defined in section 2.4 of the ib determ		equired by section 2.0.		
f	f				
	E. (1) Described Construction Association				
	5e(i): Regulated Service Asset Values				
				Value allocated	
				(\$000s) Electricity distribution	
				services	
	Subtransmission lines				
	Directly attributable			13,291	
	Not directly attributable			-	
	Total attributable to regulated service		l	13,291	
	Subtransmission cables			4,778	
	Directly attributable Not directly attributable			-	
	Total attributable to regulated service			4,778	
	Zone substations				
	Directly attributable			51,651	
	Not directly attributable			-	
	Total attributable to regulated service			51,651	
	Distribution and LV lines			45 002	
	Directly attributable Not directly attributable			46,807	
	Total attributable to regulated service			46,807	
	Distribution and LV cables				
	Directly attributable			49,836	
	Not directly attributable				
	Total attributable to regulated service			49,836	
	Distribution substations and transformers	\$			
	Directly attributable Not directly attributable			21,709	
	Total attributable to regulated service			21,709	
	Distribution switchgear			11,705	
	Directly attributable			11,750	
	Not directly attributable			-	
	Total attributable to regulated service			11,750	
	Other network assets				
	Directly attributable			6,957	
	Not directly attributable			6,957	
	Total attributable to regulated service Non-network assets		l	0,537	
	Directly attributable			6.222	
	Not directly attributable			5,987	
	Total attributable to regulated service			12,209	
				242.004	
	Regulated service asset value directly attributable Regulated service asset value not directly attribut			213,001 5,987	
	Total closing RAB value			218,988	
	-		, in the second s		
	5e(ii): Changes in Asset Allocations* †				
	Change in asset value allocation 1				(\$000) CY-1 Current Year (CY)
Ľ	Asset category	Land and buildings		Original allocation	11,926 11,712
	Original allocator or line items	Directly Attibuable		New allocation	5,556 5,455
	New allocator or line items	Revenue		Difference	6,370 6,257
				all cards and the second	and which because an a first start of
			ortion of building and the		
	Rationale for change	The non-directly attribuatble asset includes the p regulated and non-regulated, network and support			
	Rationale for change		ort services. The change was	only applied to Land and B	
	Rationale for change	regulated and non-regulated, network and suppo	ort services. The change was	only applied to Land and B	termination.
		regulated and non-regulated, network and suppo	ort services. The change was	only applied to Land and B	termination. (\$000)
	Change in asset value allocation 2	regulated and non-regulated, network and suppo Network assets, ; under the change from ACAM t	ort services. The change was	only applied to Land and B under the current year's de	termination.
		regulated and non-regulated, network and suppo	ort services. The change was	only applied to Land and B	termination. (\$000)
	Change in asset value allocation 2 Asset category	regulated and non-regulated, network and suppo Network assets, , under the change from ACAM t Not Applicable	ort services. The change was	only applied to Land and B under the current year's de Original allocation	termination. (\$000)
	Change in asset value allocation 2 Asset category Original allocator or line items New allocator or line items	regulated and non-regulated, network and suppo Network assets, , under the change from ACAM t Not Applicable Not Applicable Not Applicable	ort services. The change was	only applied to Land and B under the current year's de Original allocation New allocation	termination. (\$000)
	Change in asset value allocation 2 Asset category Original allocator or line items	regulated and non-regulated, network and suppo Network assets, , under the change from ACAM t Not Applicable Not Applicable	ort services. The change was	only applied to Land and B under the current year's de Original allocation New allocation	termination. (\$000)
	Change in asset value allocation 2 Asset category Original allocator or line items New allocator or line items	regulated and non-regulated, network and suppo Network assets, , under the change from ACAM t Not Applicable Not Applicable Not Applicable	ort services. The change was	only applied to Land and B under the current year's de Original allocation New allocation	termination. (\$000)
	Change in asset value allocation 2 Asset category Original allocator or line items New allocator or line items	regulated and non-regulated, network and suppo Network assets, , under the change from ACAM t Not Applicable Not Applicable Not Applicable	ort services. The change was	only applied to Land and B under the current year's de Original allocation New allocation	termination. (\$000) CY-1 Current Year (CY)
	Change in asset value allocation 2 Asset category Original allocator or line items New allocator or line items	regulated and non-regulated, network and suppo Network assets, , under the change from ACAM t Not Applicable Not Applicable Not Applicable	ort services. The change was	only applied to Land and B under the current year's de Original allocation New allocation	termination. (\$000)
	Change in asset value allocation 2 Asset category Original allocator or line items New allocator or line items Rationale for change	regulated and non-regulated, network and suppo Network assets, , under the change from ACAM t Not Applicable Not Applicable Not Applicable	ort services. The change was	only applied to Land and B under the current year's de Original allocation New allocation	termination. (\$000) CY-1 Current Year (CY) (\$000) (\$000)
	Change in asset value allocation 2 Asset category Original allocator or line items New allocator or line items Rationale for change Change in asset value allocation 3 Asset category Original allocator or line items	regulated and non-regulated, network and suppo Network assets, , under the change from ACAM to Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable	ort services. The change was	only applied to Land and B under the current year's de Original allocation Difference	termination. (\$000) CY-1 Current Year (CY) (\$000) (\$000)
	Change in asset value allocation 2 Asset category Original allocator or line items New allocator or line items Rationale for change Change in asset value allocation 3 Asset category	regulated and non-regulated, network and suppo Network assets, , under the change from ACAM t Not Applicable Not Applicable Not Applicable Not Applicable	ort services. The change was	only applied to Land and B under the current year's de Original allocation New allocation Difference	termination. (\$000) CY-1 Current Year (CY) (\$000) (\$000)
	Change in asset value allocation 2 Asset category Original allocator or line items New allocator or line items Rationale for change Change in asset value allocation 3 Asset category Original allocator or line items New allocator or line items	regulated and non-regulated, network and suppo Network assets, , under the change from ACAM to Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable	ort services. The change was	only applied to Land and B under the current year's de Original allocation Difference	termination. (\$000) CY-1 Current Year (CY) (\$000) (\$000)
	Change in asset value allocation 2 Asset category Original allocator or line items New allocator or line items Rationale for change Change in asset value allocation 3 Asset category Original allocator or line items	regulated and non-regulated, network and suppo Network assets, , under the change from ACAM to Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable	ort services. The change was	only applied to Land and B under the current year's de Original allocation Difference	termination. (\$000) CY-1 Current Year (CY) (\$000) (\$000)
	Change in asset value allocation 2 Asset category Original allocator or line items New allocator or line items Rationale for change Change in asset value allocation 3 Asset category Original allocator or line items New allocator or line items	regulated and non-regulated, network and suppo Network assets, , under the change from ACAM to Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable	ort services. The change was	only applied to Land and B under the current year's de Original allocation Difference	termination. (\$000) CY-1 Current Year (CY) (\$000) (\$000)

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	Company Name	Alpine Energy L	.imited
	For Year Ended	31 March 2	
S	CHEDULE 6a: REPORT ON CAPITAL EXPENDITURE FOR THE DISCLOSURE YEAR		
	is schedule requires a breakdown of capital expenditure on assets incurred in the disclosure year, including any assets in respect of which		
	cluding assets that are vested assets. Information on expenditure on assets must be provided on an accounting accruals basis and must e Bs must provide explanatory comment on their expenditure on assets in Schedule 14 (Explanatory Notes to Templates).	xclude finance costs.	
	is information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurar	ce report required by	y section 2.8.
coh ro			
sch re			
7	6a(i): Expenditure on Assets	(\$000)	(\$000)
8	Consumer connection		4,239
9	System growth		1,625
10	Asset replacement and renewal		7,450
11 12	Asset relocations Reliability, safety and environment:		3,171
13	Quality of supply	147	T
14	Legislative and regulatory	-	İ
15	Other reliability, safety and environment	1,221	
16	Total reliability, safety and environment		1,368
17	Expenditure on network assets		17,853
18 19	Expenditure on non-network assets		633
19 20	Expenditure on assets		18,486
20	plus Cost of financing		
22	less Value of capital contributions		3,987
23	plus Value of vested assets		-
24			
25	Capital expenditure		14,499
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		3,171
29	Research and development		-
30	6a(iii): Consumer Connection	(\$222)	(\$222)
31 32	Consumer types defined by EDB* Commercial	(\$000)	(\$000)
33	Subdivision	1,770	
34	HV Alternations	263	İ
35	Irrigation	1,044	[
	LV Alterations	149	
36	Residential	1,012	l
37 38	* include additional rows if needed		4,239
30 39	Consumer connection expenditure		4,239
40	less Capital contributions funding consumer connection expenditure	3,755	
41	Consumer connection less capital contributions		484
42	6a(iv): System Growth and Asset Replacement and Renewal		Asset
42 43	oalivj. System Glowth and Asset Replacement and Renewal	System Growth	Replacement and Renewal
44		(\$000)	(\$000)
45	Subtransmission	19	332
46	Zone substations	1,316	1,498
47	Distribution and LV lines	58	3,909
48 49	Distribution and LV cables Distribution substations and transformers	127	222 827
49 50	Distribution substations and transformers	93	624
51	Other network assets	-	38
52	System growth and asset replacement and renewal expenditure	1,625	7,450
53	less Capital contributions funding system growth and asset replacement and renewal	77	122
54	System growth and asset replacement and renewal less capital contributions	1,549	7,328
55			
56	6a(v): Asset Relocations		
57	Project or programme*	(\$000)	(\$000)
58	O/H to Underground Relocations	3,171	
59			
60			
61			
62		L	l
63 64	 include additional rows if needed All other projects or programmes - asset relocations 	-	1
65	Asset relocations expenditure		3,171
66	less Capital contributions funding asset relocations	-	0,1,1
67	Asset relocations less capital contributions		3,171

		Company Name	Alpine Energy Limited
		For Year Ended	31 March 2019
S	CHEDULE 6a: REPORT ON CAPITAL EXPENDITURE FOR THE DISC	LOSURE YEAR	
	is schedule requires a breakdown of capital expenditure on assets incurred in the disclosure year, inclu		
	cluding assets that are vested assets. Information on expenditure on assets must be provided on an ac Bs must provide explanatory comment on their expenditure on assets in Schedule 14 (Explanatory Not		ust exclude infance costs.
	is information is part of audited disclosure information (as defined in section 1.4 of the ID determination		surance report required by section 2.8.
sch re	f		
68			
69	6a(vi): Quality of Supply		
70	Project or programme*		(\$000) (\$000)
71	Reclosers		147
72			
73 74			
75			
76	* include additional rows if needed		
77 78	All other projects programmes - quality of supply Quality of supply expenditure		- 147
79	less Capital contributions funding quality of supply		-
80	Quality of supply less capital contributions		147
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 90	All other projects or programmes - legislative and regulatory 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		500
96 97	Automation Abloy Locks		255
98	Communications		327
99			
100 101	* include additional rows if needed All other projects or programmes - other reliability, safety and environment		_]
101	Other reliability, safety and environment expenditure		1,221
103	less Capital contributions funding other reliability, safety and environment		33
104	Other reliability, safety and environment less capital contributions		1,188
105			
106	6a(ix): Non-Network Assets		
107 108	Routine expenditure Project or programme*		(\$000) (\$000)
108 109	Land and Building		302
110	Plant and Equipment		143
111	Software and IT		185
112 113	Vehicles		3
114	* include additional rows if needed		
115	All other projects or programmes - routine expenditure		-
116	Routine expenditure		633
117	Atypical expenditure		(4000)
118 119	Project or programme* None None		(\$000) (\$000)
119			
121			
122			
123 124	* include additional rows if needed		
125	All other projects or programmes - atypical expenditure		-
126	Atypical expenditure		-
127 128	Expenditure on non-network assets		633
			0

	Company Name	Alpine Ener	gy Limited
	For Year Ended	31 Marc	h 201 9
SC	CHEDULE 6b: REPORT ON OPERATIONAL EXPENDITURE FOR THE DISCLOSURE YEAR		
EDI exp	s schedule requires a breakdown of operational expenditure incurred in the disclosure year. Bs must provide explanatory comment on their operational expenditure in Schedule 14 (Explanatory notes to templates). This includes explanatory benditure and assets replaced or renewed as part of asset replacement and renewal operational expenditure, and additional information on insura s 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	nce.	
ch ro	ef		
7	6b(i): Operational Expenditure	(\$000)	(\$000)
8	Service interruptions and emergencies	2,340	
9	Vegetation management	562	
2	Routine and corrective maintenance and inspection	2,482	
1	Asset replacement and renewal	93	
2	Network opex		5,477
3	System operations and network support	5,205	
4	Business support	7,614	
5	Non-network opex		12,819
6		_	
7	Operational expenditure	L	18,296
8	6b(ii): Subcomponents of Operational Expenditure (where known)	_	
9	Energy efficiency and demand side management, reduction of energy losses		4
о	Direct billing*		_
1	Research and development		_
2	Insurance		264
3	* Direct billing expenditure by suppliers that directly bill the majority of their consumers		

Company Name

Alpine Energy Limited

For Year Ended

31 March 2019

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	69,703	65,994	(5%)
					,
	9	7(ii): Expenditure on Assets	Forecast (\$000) ²	Actual (\$000)	% variance
1	10	Consumer connection	2,040	4,239	108%
1	11	System growth	2,414	1,625	(33%)
1	12	Asset replacement and renewal	8,629	7,450	(14%)
1	13	Asset relocations	632	3,171	402%
1	14	Reliability, safety and environment:			
1	15	Quality of supply	995	147	(85%)
	16	Legislative and regulatory	-	-	-
	17	Other reliability, safety and environment	597	1,221	105%
	18	Total reliability, safety and environment	1,592	1,368	(14%)
	19	Expenditure on network assets	15,307	17,853	17%
	20	Expenditure on non-network assets	1,615	633	(61%)
2	21	Expenditure on assets	16,922	18,486	9%
2	22	7(iii): Operational Expenditure			
2	23	Service interruptions and emergencies	1,436	2,340	63%
2	24	Vegetation management	610	562	(8%)
2	25	Routine and corrective maintenance and inspection	3,165	2,482	(22%)
2	26	Asset replacement and renewal	307	93	(70%)
2	27	Network opex	5,518	5,477	(1%)
2	28	System operations and network support	4,129	5,205	26%
2	29	Business support	7,810	7,614	(3%)
3	30	Non-network opex	11,939	12,819	7%
3	31	Operational expenditure	17,457	18,296	5%
3	32	7(iv): Subcomponents of Expenditure on Assets (where known)			
3	33	Energy efficiency and demand side management, reduction of energy losses	-	-	-
3	34	Overhead to underground conversion	620	3,171	411%
3	35	Research and development	-	-	-
3	36				
3	37	7(v): Subcomponents of Operational Expenditure (where known)		
3	38	Energy efficiency and demand side management, reduction of energy losses	-	4	-
3	39	Direct billing	-	-	-
4	10	Research and development	-	-	-
4	11	Insurance	214	264	24%
4	12				
4	13	 From the nominal dollar target revenue for the disclosure year disclosed under clause 2.4. From the CY+1 nominal dollar expenditure forecasts disclosed in accordance with clause 2 			beainning of the
4	14	disclosure year (the second to last disclosure of Schedules 11a and 11b)			

											Company Name For Year Ended -Network Name		ine Energy Lin 31 March 201
E 8: REPORT ON BILLED equires the billed quantities and assoc	-			rmation is also required on t	number of ICPs that are included in each consumer group or price category code,	and the energy delive	ered to these ICPs.				L		
Billed Quantities by Price	Component												
						Billed quantities by	price component			Т	1		
					Price component	Distribution Fixed	Distribution Variable Day	Distribution Variable Night	Distribution Demand	Transmission Fixed	Transmission Variable Day	Transmossion Variable Night	Transmission Demand
Consumer group name or price category code	Consumer type or types (eg, residential, commercial etc.)	Standard or non-standard consumer group (specify)		Energy delivered to ICPs in disclosure year (MWh)	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
LOWHCA	Low Charge	Standard	1.685	10.097		1.685	7.068	3.029	-	-	7.068	3.029	-
LOWLCA	Low Charge	Standard	9,464	53,961		9,464	37,773	16,188	-	-	37,773	16,188	-
LOWUHCA	Low Uncontrolled	Standard	16	95		16	66	28	-	-	66	28	-
LOWULCA	Low Uncontrolled	Standard	30	155		30	108	46	-	-	108	46	-
015HCA	015	Standard	6,120	56,089		6,120	39,263	16,827	-	-	39,263	16,827	-
015LCA	015	Standard	12,707	111,078		12,707	77,754	33,323	-	-	77,754	33,323	-
015UHCA	015 Uncontrolled	Standard	32	339		32	238	102	-	32	238	102	-
015ULCA	015 Uncontrolled	Standard	44	368		44	258	110	-	44	258	110	-
360HCA	360	Standard	515	10,719		515	7,504	3,216	-	-	7,504	3,216	-
360LCA	360	Standard	733			733	15,380	6,591	-	-	15,380	6,591	-
360UHCA	360 Uncontrolled	Standard	14	630		14	441	189	-	14	441	189	-
360ULCA	360 Uncontrolled	Standard	15	355		15	249	107	-	15	249	107	-
ASSHCA	Assessed	Standard	1,286	108,989		1,286	76,132	32,857	110		76,132	32,857	110
ASSLCA	Assessed	Standard	393			393	26,186	11,771	37	-	26,186	11,771	37
TOU400HCA	TOU 400V	Standard	39	/		39	17,053	7,405	9		17,053	7,405	9
TOU400LCA	TOU 400V	Standard	102			102	71,011	32,375	23	-	71,011	32,375	23
TOU11HCA	TOU 11kV	Standard	6	26,728		6	19,370	7,359	6	-	19,370	7,359	6
TOU11LCA	TOU 11kV	Standard	4	14,968		4	10,433	4,535	4	-	10,433	4,535	4
Individual Direct Billed	IND	Non-standard	12	226,731		12	-	-	-	-	9,760	3,970	-
Add extra rows for additional cor	nsumer groups or price category code	s as necessary											
		Standard consumer totals				33,200			188	105		176,059	188
		Non-standard consumer totals		226,731		12			-	-	9,760	3,970	-
		Total for all consumers	33,212	809,076		33,212			188	105	416,046	180,029	188

	QUANTITIES AND LIN			rmation is also required on th	ne number of ICPs that	ire included	in each consumer gr	oup or price category code,	and the energy deliv	ered to these ICPs.			Network / Sub-	For Year Ended Network Name		31 March 201
Line Charge Revenues (\$6	000) by Price Component															
								Price component	Line charge revenu	es (\$000) by price co Distribution variable day	Distribution variable night	Distribution demand	Transmission Fixed	Transmission Variable day	Transmission Variable night	Transmission demand
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)	line	tribution harge enue	Total transmission line charge revenue (if available)	Rate (eg, \$ per day, \$ per kWh, etc.)	\$/annum	\$/MWh	\$/MWh	\$/(MWh*annum)	\$/annum	\$/MWh	\$/MWh	\$/(MWh*annum)
LOWHCA	Low Charge	Standard	\$609			\$458	\$151	I	\$89	\$321	\$48	-		\$130	\$20	-
LOWLCA	Low Charge	Standard	\$3,410	-		\$2,592	\$819		\$507	\$1,815	\$270	-	-	\$708	\$111	-
LOWUHCA	Low Uncontrolled	Standard	\$8	-		\$4	\$4		\$1	\$3	\$0	-	-	\$3	\$1	-
LOWULCA	Low Uncontrolled	Standard	\$13	-		\$7	\$6		\$2	\$5	\$1	-	-	\$5	\$1	-
015HCA	015	Standard	\$7,155	-		\$6,054	\$1,101		\$2,679	\$2,912	\$462	-	-	\$950	\$151	-
015LCA	015	Standard	\$15,105	-		\$12,851	\$2,254		\$5,092	\$6,696	\$1,063	-	-	\$1,944	\$310	-
015UHCA	015 Uncontrolled	Standard	\$29			\$15	\$14		\$14	\$1	\$0	-	\$7	\$6	\$1	-
015ULCA 360HCA	015 Uncontrolled 360	Standard Standard	\$35			\$17	\$18		\$16	\$0		-	\$10	\$7		-
360LCA	360	Standard	\$1,726 \$2,427	-		\$1,524 \$1,960	\$202 \$468		\$953 \$1,001	\$493 \$827	\$78 \$131		-	\$174 \$403	\$28	-
360UHCA	360 Uncontrolled	Standard	\$2,427			\$1,960	\$468		\$1,001	\$827	\$131 \$2		- \$3	\$403		
360ULCA	360 Uncontrolled	Standard	\$30			\$32	\$15		\$21	\$9			\$3	\$4		_
ASSHCA	Assessed	Standard	\$15,672	-		\$12,098	\$3,574		\$789	\$4,927	\$797	\$5,584	-	\$1,751	\$285	\$1,538
ASSLCA	Assessed	Standard	\$4,387	-		\$3,073	\$1,314		\$162	\$1,420	\$250	\$1,242	(\$0)	\$672	\$116	\$526
TOU400HCA	TOU 400V	Standard	\$2,107	-		\$1,457	\$650		\$17	\$342	\$63	\$1,035	-	\$150	\$27	\$473
TOU400LCA	TOU 400V	Standard	\$5,483	-		\$3,390	\$2,093		\$35	\$1,160	\$226	\$1,970	-	\$663	\$129	\$1,301
TOU11HCA	TOU 11kV	Standard	\$1,718	-		\$1,118	\$600		\$1	\$545	\$89	\$483	-	\$284	\$46	\$270
TOU11LCA	TOU 11kV	Standard	\$975	-		\$574	\$402		\$1	\$207	\$38	\$328	-	\$141	\$26	\$235
Individual Direct Billed	IND	Non-standard	\$5,038	-		\$3,697	\$1,341		\$3,697	-	-	-	\$1,341	-	-	-
Add extra rows for additional con	nsumer groups or price category code							1								
		Standard consumer totals	\$60,956	-		\$47,266	\$13,690		\$11,406			\$10,642	\$24	\$8,004	\$1,319	\$4,342
		Non-standard consumer totals	\$5,038	-		\$3,697	\$1,341		\$3,697			-	\$1,341	-	-	-
		Total for all consumers	\$65,994	-		\$50,963	\$15,031		\$15,103			\$10,642	\$1,366	\$8,004	\$1,319	\$4,342
Number of ICPs directly						Check	ок									

	C	Abrice Freezewithed
	Company Name	Alpine Energy Limited
	For Year Ended	31 March 2019
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.

Voltage		8	11-14	Items at start of	Items at end of	Not shows	Data accuracy
AU	Asset category	Asset class	Units	year (quantity)	year (quantity)	Net change	(1-4) 3
All	Overhead Line	Concrete poles / steel structure	No.	24,769 21,602	24,783 20,933	(669)	3
All	Overhead Line	Wood poles	No.	21,602	20,933 387	(669)	3
All HV	Overhead Line Subtransmission Line	Other pole types	No. km	250	387	58 (1)	3
		Subtransmission OH up to 66kV conductor					4
							4
				50		-	4 N/A
							N/A
							N/A
					_	_	N/A
				_		_	N/A
							N/A
		· · · · · · · · · · · · · · · · · · ·		_	_	_	N/A
		. ,		_	_	_	N/A
						_	4
						_	N/A
	° .			-	-	_	N/A
						1	4
HV	, and the second s			-	6		4
				119			4
				-	-	-	N/A
				6		1	4
							4
	, and the second s						4
				7	6		N/A
							4
HV	Distribution Line		km	2,909	2,911	2	3
				-	-	-	N/A
HV	Distribution Line	SWER conductor		7	7	0	4
нv	Distribution Cable	Distribution UG XLPE or PVC		247	268	22	2
HV	Distribution Cable	Distribution UG PILC	km	135	144	9	2
HV	Distribution Cable	Distribution Submarine Cable	km	-	-	-	N/A
HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers	No.	45	47	2	4
HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.	-	-	-	N/A
HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	7,565	6,859	(706)	2
HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	12	13	1	3
HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.	386	415	29	3
HV	Distribution Transformer	Pole Mounted Transformer	No.	5,346	4,962	(384)	2
HV	Distribution Transformer	Ground Mounted Transformer	No.	901	997	96	2
HV	Distribution Transformer	Voltage regulators	No.	31	63	32	4
HV	Distribution Substations	Ground Mounted Substation Housing	No.	-	-	-	N/A
LV	LV Line	LV OH Conductor	km	363	362	(1)	3
LV	LV Cable	LV UG Cable	km	341	344	3	3
LV	LV Street lighting	LV OH/UG Streetlight circuit	km	-	-	-	N/A
LV	Connections	OH/UG consumer service connections	No.	33,071	33,247	176	4
All	Protection	Protection relays (electromechanical, solid state and numeric)	No.	424	443	19	3
All	SCADA and communications	SCADA and communications equipment operating as a single system	Lot	816	231	(585)	4
All	Capacitor Banks	Capacitors including controls	No	16	20	4	4
All	Load Control	Centralised plant	Lot	7	7	-	4
All	Load Control	Relays	No	20,200	20,200	-	2
All	Civils	Cable Tunnels	km	0	0	-	2
	HV HV HV HV HV HV HV HV HV HV HV HV HV H	HVSubtransmission CableHVSubtransmission CableHVZone substation BuildingsHVZone substation BuildingsHVZone substation switchgearHVZone Substation switchgearHVDistribution LineHVDistribution CableHVDistribution CableHVDistribution SwitchgearHVDistribution switchgearHV <td< th=""><th>HV Subtransmission Cable Subtransmission UG up to 66kV (XLPE) HV Subtransmission Cable Subtransmission UG up to 66kV (PLC) HV Subtransmission Cable Subtransmission UG up to 66kV (PLC) HV Subtransmission Cable Subtransmission UG 10kV+ (RUPE) HV Subtransmission Cable Subtransmission UG 110kV+ (CB Pressurised) HV Subtransmission Cable Subtransmission UG 110kV+ (CB Pressurised) HV Subtransmission Cable Subtransmission UG 110kV+ (CB Pressurised) HV Subtransmission Cable Subtransmission ub CB 110kV+ (CB Pressurised) HV Subtransmission Cable Subtransmission ub CB 110kV+ (CB Pressurised) HV Zone substation Subtransmission ub CB 110kV+ (CB Pressurised) Subtransmission ub CB 110kV+ (PLC) HV Zone substation subtransmission ub CB 110kV+ (CB Pressurised) Subtransmission ub CB 110kV+ (PLC) HV Zone substation switchgear SU/G6/110kV CB (Indoor) HV Zone substation switchgear SU/S NVK (PloI Pressurised) HV Zone substation switchgear SU/S SU/S SU/S SU/S SU/S SU/S SU/S SU/S</th><th>HV Subtransmission Cable Subtransmission Us to to 66VV (Gip pressurised) km HV Subtransmission Cable Subtransmission UG 100KV (Cip pressurised) km HV Subtransmission Cable Subtransmission UG 110KV+ (Cip pressurised) km HV Subtransmission Cable Subtransmission UG 110KV+ (Cip pressurised) km HV Subtransmission Cable Subtransmission UG 110KV+ (Cip pressurised) km HV Subtransmission Cable Subtransmission UG 110KV+ (PILC) km HV Zone substation Buildings Zone substation Subtransmission UG 110KV+ (PILC) km HV Zone substation Buildings Zone substation Subtransmission UG 10KV+ (PILC) No. HV Zone substation Buildings Zone substation Subtransmission UG 10KV+ (PILC) No. HV Zone substation Switchgear 33KV Switch (Fole Mounted) No. HV Zone substation switchgear 33KV Switch (Pole Mounted) No. HV<!--</th--><th>HV Subtransmission Cable Subtransmission UG up to 66kV (NLPE) km 30 HV Subtransmission Cable Subtransmission UG up to 66kV (00 pressurised) km HV Subtransmission Cable Subtransmission UG up to 66kV (0E) km HV Subtransmission Cable Subtransmission UG 110kV+ (01 pressurised) km HV Subtransmission Cable Subtransmission UG 110kV+ (01 pressurised) km HV Subtransmission Cable Subtransmission UG 110kV+ (01 pressurised) km HV Subtransmission Cable Subtransmission UG 110kV+ (01 pressurised) km HV Zone substation Buildings Zone substation subtransmission UG 10kV+ (NLPG) km HV Zone substation Subtransmission UG 10kV+ (NL (04 Subtransmission UG 10kV+ NL No 20 HV Zone substation switchgear 33kV Sixt(1 (Polo Mounted) No HV Zone substation switchgear 33kV Sixt(1 (Pole Mounted) No HV Zone substation switchgear 33kG (A11/22kV CB (pole mount</th><th>HV Subtransmission Cable Subtransmission UG up to 664V (OPE) Im HV Subtransmission Cable Subtransmission UG up to 664V (GP presurised) Im HV Subtransmission Cable Subtransmission UG up to 664V (GP presurised) Im HV Subtransmission Cable Subtransmission UG 104V+ (DFP) Im HV Subtransmission Cable Subtransmission UG 104V+ (DFP) Im </th><th>IV Subtransmission Cable Number Cable</th></th></td<>	HV Subtransmission Cable Subtransmission UG up to 66kV (XLPE) HV Subtransmission Cable Subtransmission UG up to 66kV (PLC) HV Subtransmission Cable Subtransmission UG up to 66kV (PLC) HV Subtransmission Cable Subtransmission UG 10kV+ (RUPE) HV Subtransmission Cable Subtransmission UG 110kV+ (CB Pressurised) HV Subtransmission Cable Subtransmission UG 110kV+ (CB Pressurised) HV Subtransmission Cable Subtransmission UG 110kV+ (CB Pressurised) HV Subtransmission Cable Subtransmission ub CB 110kV+ (CB Pressurised) HV Subtransmission Cable Subtransmission ub CB 110kV+ (CB Pressurised) HV Zone substation Subtransmission ub CB 110kV+ (CB Pressurised) Subtransmission ub CB 110kV+ (PLC) HV Zone substation subtransmission ub CB 110kV+ (CB Pressurised) Subtransmission ub CB 110kV+ (PLC) HV Zone substation switchgear SU/G6/110kV CB (Indoor) HV Zone substation switchgear SU/S NVK (PloI Pressurised) HV Zone substation switchgear SU/S SU/S SU/S SU/S SU/S SU/S SU/S SU/S	HV Subtransmission Cable Subtransmission Us to to 66VV (Gip pressurised) km HV Subtransmission Cable Subtransmission UG 100KV (Cip pressurised) km HV Subtransmission Cable Subtransmission UG 110KV+ (Cip pressurised) km HV Subtransmission Cable Subtransmission UG 110KV+ (Cip pressurised) km HV Subtransmission Cable Subtransmission UG 110KV+ (Cip pressurised) km HV Subtransmission Cable Subtransmission UG 110KV+ (PILC) km HV Zone substation Buildings Zone substation Subtransmission UG 110KV+ (PILC) km HV Zone substation Buildings Zone substation Subtransmission UG 10KV+ (PILC) No. HV Zone substation Buildings Zone substation Subtransmission UG 10KV+ (PILC) No. HV Zone substation Switchgear 33KV Switch (Fole Mounted) No. HV Zone substation switchgear 33KV Switch (Pole Mounted) No. HV </th <th>HV Subtransmission Cable Subtransmission UG up to 66kV (NLPE) km 30 HV Subtransmission Cable Subtransmission UG up to 66kV (00 pressurised) km HV Subtransmission Cable Subtransmission UG up to 66kV (0E) km HV Subtransmission Cable Subtransmission UG 110kV+ (01 pressurised) km HV Subtransmission Cable Subtransmission UG 110kV+ (01 pressurised) km HV Subtransmission Cable Subtransmission UG 110kV+ (01 pressurised) km HV Subtransmission Cable Subtransmission UG 110kV+ (01 pressurised) km HV Zone substation Buildings Zone substation subtransmission UG 10kV+ (NLPG) km HV Zone substation Subtransmission UG 10kV+ (NL (04 Subtransmission UG 10kV+ NL No 20 HV Zone substation switchgear 33kV Sixt(1 (Polo Mounted) No HV Zone substation switchgear 33kV Sixt(1 (Pole Mounted) No HV Zone substation switchgear 33kG (A11/22kV CB (pole mount</th> <th>HV Subtransmission Cable Subtransmission UG up to 664V (OPE) Im HV Subtransmission Cable Subtransmission UG up to 664V (GP presurised) Im HV Subtransmission Cable Subtransmission UG up to 664V (GP presurised) Im HV Subtransmission Cable Subtransmission UG 104V+ (DFP) Im HV Subtransmission Cable Subtransmission UG 104V+ (DFP) Im </th> <th>IV Subtransmission Cable Number Cable</th>	HV Subtransmission Cable Subtransmission UG up to 66kV (NLPE) km 30 HV Subtransmission Cable Subtransmission UG up to 66kV (00 pressurised) km HV Subtransmission Cable Subtransmission UG up to 66kV (0E) km HV Subtransmission Cable Subtransmission UG 110kV+ (01 pressurised) km HV Subtransmission Cable Subtransmission UG 110kV+ (01 pressurised) km HV Subtransmission Cable Subtransmission UG 110kV+ (01 pressurised) km HV Subtransmission Cable Subtransmission UG 110kV+ (01 pressurised) km HV Zone substation Buildings Zone substation subtransmission UG 10kV+ (NLPG) km HV Zone substation Subtransmission UG 10kV+ (NL (04 Subtransmission UG 10kV+ NL No 20 HV Zone substation switchgear 33kV Sixt(1 (Polo Mounted) No HV Zone substation switchgear 33kV Sixt(1 (Pole Mounted) No HV Zone substation switchgear 33kG (A11/22kV CB (pole mount	HV Subtransmission Cable Subtransmission UG up to 664V (OPE) Im HV Subtransmission Cable Subtransmission UG up to 664V (GP presurised) Im HV Subtransmission Cable Subtransmission UG up to 664V (GP presurised) Im HV Subtransmission Cable Subtransmission UG 104V+ (DFP) Im HV Subtransmission Cable Subtransmission UG 104V+ (DFP) Im	IV Subtransmission Cable Number Cable

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																							Company For Year						Alpin 31	e Energy Limi L March 2019	ted			
HEDU	LE 9b: ASSET AGE PROF	ILE																			Ne	twork / Si	ub-network	Name										
schedule	requires a summary of the age profile	(based on year of installation) of the assets that make up the network, by	by asset cate	egory and asse	et class. All uni	its relating to	cable and lin	e assets, th	hat are expr	essed in krr	n, refer to cir	cuit lengths.																						
	Disclosure Year (year ended)	31 March 2019								Number	r of assets a	t disclosure year	end by inst	allation date																	No. w		t No.wit	
Voltage	Asset category	Asset class U	Units pre	194 1940 -194	40 1950 149 -1959			1980 -1989	1990 	2000	2001	2002 20	03 200	4 2005	2006	2007	2008	2009 2	010 2011	2012	2013	2014	2015	2016 2	017 2018	2019	2020	2021	2022	2023 2024	age 2025 unkno		defaul dates	
	Overhead Line	Concrete poles / steel structure	No.		61 3,144		3,986	2,557	1,599	184	175			59 850			307	339	345 14	7 373	505	336	343	346	272 27			T T	1			757 24,78	3	T
AUI .	Overhead Line	Wood poles	No.	-	8 3,220	0 1,962	2,521	1,956	2,145	181	202	450	562 4	13 656	410	536	730	646	358 23	3 388	342	467	288	238	151 11	.9 114	1				1,0	537 20,93	3	
ui	Overhead Line	Other pole types	No.	-	- 50	0 64	48	30	23	6	-	-	3	2 -	-	1	4	1	5	2 4	6	1	-	-		-						138 38	7	
īV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	-	-	7 36	45	11	54	6	-	8	14	0 -	1	1	-	-	1	0 0	21	31	0	12	0	0 -						- 24	9	
ŧ٧	Subtransmission Line	Subtransmission OH 110kV+ conductor	km	-		-	-	I	1	-	-	-		-	-	1	-	-	0 -	-	-	-	-	-	-	0 -						-	0	
ŧ٧	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km	-		-	0	0	1	-	-	=	0	0 23	-	I.	-	-	-	0 -	-	0	-	2	3	1 (1					0 3	1	
ŧ٧	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km	-		-	-	I	1	-	-	-		-	-	-	-	-		-	-	-	-	-		-						-		
ŧ٧	Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressurised)	km			-	-	-	-	-	-	-			-	-	-	-		-	-	-	-	-		-								
ŧ٧	Subtransmission Cable	Subtransmission UG up to 66kV (PILC)	km			-	-	-	-	-	-	-			-	-	-	-		-	-	-	-	-		-								
ſV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	km			-	-	-	-	-	-	-			-	-	-	-			-	-	-	-		-								
٠v	Subtransmission Cable	Subtransmission UG 110kV+ (Oil pressurised)	km			-	-	-	-	-	-	-			- 1		-	-			-	-	-	-		-	1							_
ŧ٧	Subtransmission Cable	Subtransmission UG 110kV+ (Gas Pressurised)	km			-	-	-	-	-	-	-			-	-	-	-		-	-	-	-	-		-								
ŧ٧	Subtransmission Cable	Subtransmission UG 110kV+ (PILC)	km			-	-	-	-	-	-	-			-	-	-	-		-	-	-	-	-		-	1							_
IV	Subtransmission Cable	Subtransmission submarine cable	km			-	-	-	-	-	-	-		-	- 1	-	-	-		-	-	-	-	-		-	1				-			
ſV	Zone substation Buildings	Zone substations up to 66kV	No.		- :	1 2	3	5	1	-	-	-	1	2 -	- 1	-	-		-	2 1	1	1	-	-	-	-	1				-	- 2	0	_
v	Zone substation Buildings	Zone substations 110kV+	No.			-	-	-	-	-	-	-		-	- 1	-	-	1		-	-	-	-	-	-	1 -	1				-	-	2	
IV	Zone substation switchgear	50/66/110kV CB (Indoor)	No.			-	-	-	-	-	-	-	- -		-		-	-			-	-	-	-			-							
v	Zone substation switchgear	50/66/110kV CB (Outdoor)	No.			-	-	-	-	-	-	-			-	-	-	-	1 -	-	-	-	-	-	-	1 -						-	2	
IV	Zone substation switchgear	33kV Switch (Ground Mounted)	No.					-	-	-		-	- -				-	-		6		-	-	-			+					-	6	+
ŧ٧	Zone substation switchgear	33kV Switch (Pole Mounted)	No.		- 4	4 11	21	12	11	-	-	-		-	- 1	-	1	1	-	4 6	11	8	8	2	12 -	-	1				-	- 11	2	_
ŧ٧	Zone substation switchgear	33kV RMU	No.			-	-	-	-	-	-	-		-	- 1	-	-	-		-	-	-	-	-		-	1				-			_
٩V	Zone substation switchgear	22/33kV CB (Indoor)	No.			-	-	-	-	-	-	-				-	-	-		6	-	1	-	-		-	+					-	7	-+
٩V	Zone substation switchgear	22/33kV CB (Outdoor)	No.		- 1	2 1		4	3	1	-	-	-	2 -		-	-	-	1 -	1	2	3	1	3	2 -	1	4					- 2		
٩V	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.		- 9	5 17	5	24	1	14	-	-	-	17 9	14	-	-	8	-	5 24	17	2	3	-	-	6 –	+					- 17	1	+
ŧ٧	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.					-	-	1	-	-	- -				4	-			-	-	-	1			+					-	6	+
٩V	Zone Substation Transformer	Zone Substation Transformers	No.			3	5	2	2	-	-	-	-	2 -	3	-	2	1	2	3 -	1	1	-	1	-	1 -						- 2		_
٩V	Distribution Line	Distribution OH Open Wire Conductor	km	6 -	- 878	8 491	338	250	151	10	21	34	79	63 135	41	52	53	59	37 1	7 29	40	38	28	28	12	9 8					1	6 2,91	1	
ſV	Distribution Line	Distribution OH Aerial Cable Conductor	km			-	-	-	-	-	-	-				-	-	-			-	-	-	-		-	+							
٩V	Distribution Line	SWER conductor	km			-	7	-	-	-	-	-				-	-	-			-	-	-	-		-	+					-	7	+
٩V	Distribution Cable	Distribution UG XLPE or PVC	km		- :	1 1	3	8	9	3	4	13	12	6 11	20	15	19	13	11 1	2 18	16	8	16	12	12 2	2	4					1 26		+
٩V	Distribution Cable	Distribution UG PILC	km			9	42	58	30	2	1	-	0	1 0	0	0	0	0	0 -	0	-	-	-	-		-	+					0 14	4	
٠v	Distribution Cable	Distribution Submarine Cable	km			-	-	-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		-					-			_
٩V	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers	No.			1		1	2	1	2	-		5	2	2	1	1	8	1 3	-	8	4	1		4	4					- 4	7	+
łV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.					-	-	-	-	-		-	-	-	-	-			-	-	-	-			+							
ſV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	4	1 614	4 554	482	382	376	41	64	87	174 1	37 197	147	177	267	275	218 18	1 280	267	266	347	237	603 31	.0 8:	+					90 6,85		
łV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.					2	1	1	-	-		-	1		-	-		- 1	-	-	-	1	-	6 -	+					- 1		+
ſV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.			8	30	35	34	2	12	11		13 16	**	44	15	11	15	7 8	6	9	25	31	14	8 4					+ +	10 41		+
IV	Distribution Transformer	Pole Mounted Transformer	No.	5	29 443			422		64	133			44 77			112	227	92 7		82	164		92		10 9	1				+ +	22 4,96		+
v	Distribution Transformer	Ground Mounted Transformer	No.	-	1 1:	1 47	154	115	36	5	19	40	46	25 50	52	42	62		8 1	.1 27	16	33	49	40	27 1	.0 4	-				+ +	8 99		+
v	Distribution Transformer	Voltage regulators	No.			-		-	-	-	-	2	2 -		-	4	10	21	2	5 -	4	6	-	4	-	1 -	+					2 6	3	_
v	Distribution Substations	Ground Mounted Substation Housing	No.			- 122		-	-	-	-	-		-	-		-	-			-	-		-		-	-							
'	LV Line	LV OH Conductor	km	0 -	- 60	0 125	105	40	18	1	1	1	1	1 1	1	0	1	1	1	1 0	1	0	1	0	1	1 (-	+ +			+ +	2 36		
v	LV Cable	LV UG Cable	km	0 -	- (0 13	74	89	67	4	3	4	s	7 7	9	8	6	7	8	5 3	3	3	3	7	3	4 1	+	+ +			+ +	2 34	4	+
v	LV Street lighting	LV OH/UG Streetlight circuit	km				-	-	-	-	-	-		-	-	-	-	-			-	-	-	-		-	+						_	+
v	Connections	OH/UG consumer service connections	No.					-	-	26,517	251	281		41 448		410	452	443	363 25			396	354	360	342 30	19 294	-					- 33,24		+
ul .	Protection	Protection relays (electromechanical, solid state and numeric)	No.				11	8	-	-	-	12	-	22 17	10	1	9	4	14 12		54	35	7	44	23	7 -	+				+ +	1 44		+
ull .	SCADA and communications	SCADA and communications equipment operating as a single syst	Lot			-		4	12	-	-	-	- -		-	-	1	-	-	3 59	15	7	28	30	17 2	8 19	-					12 23	1	_
All .	Capacitor Banks	Capacitors including controls	No			-		2	1	-	-	-			-		1	1	6 -	2	-	-	1	-	-	4 -	+					2 2	0	
All	Load Control	Centralised plant	Lot		10 4	1 7	217	1	-	- 214		-	1 -	10 129	- 165	- 264	-	- 325	300 33	1	0 759	- 244	-	- 410	- 19	1 -	+	+ +			+ +	2	/	+
A.II	Load Control	Relays	No	3,734	19 41	7 189	317	170	420	214	79	90	124 1	19 128	165	264	1,269	325	300 33	8 1,204	9,758	344	153	410	18	2	1				+	20,20	U	_
UI I	Civils	Cable Tunnels	km					-	-	-	- 1		- 1 -	- 1	1 -	1 -	-	- 1	-	0 -	- 1	-	- 1	- 1		1	1	1		1	1 1 1	-	0	1

	Company Name	Alp	ine Energy Limit	ted			
	For Year Ended	31 March 2019					
	Network / Sub-network Name						
60	HEDULE 9c: REPORT ON OVERHEAD LINES AND UNDERGROUND CABLES						
	schedule requires a summary of the key characteristics of the overhead line and underground cable network. All units rel ircuit lengths.	ating to cable and li	ne assets, that are ex	cpressed in km, rei			
ch ref							
9							
				Total circuit			
10	Circuit length by operating voltage (at year end)	Overhead (km)	Underground (km)	length (km)			
11	> 66kV	0	0	(
12	50kV & 66kV			-			
13	33kV	249	31	28			
14	SWER (all SWER voltages)	140	7				
15 16	22kV (other than SWER)	146 2,766	405	15 3,17			
17	6.6kV to 11kV (inclusive—other than SWER) Low voltage (< 1kV)	362	344	3,17			
18	Total circuit length (for supply)	3.522	795	4,31			
19		5,522	755	4,51			
20	Dedicated street lighting circuit length (km)			_			
21	Circuit in sensitive areas (conservation areas, iwi territory etc) (km)						
22			L				
		Circuit length	(% of total				
23	Overhead circuit length by terrain (at year end)	(km)	overhead length)				
24	Urban	309	9%				
25	Rural	3,117	89%				
26	Remote only	-	-				
27	Rugged only	96	3%				
28	Remote and rugged	-					
29	Unallocated overhead lines	-	-				
30 31	Total overhead length	3,522	100%				
		Circuit length	(% of total circuit				
32		(km)	length)				
33	Length of circuit within 10km of coastline or geothermal areas (where known)	1,756	41%				
		Circuit length	(% of total				
34		(km)	overhead length)				
35	Overhead circuit requiring vegetation management	528	15%				

	Company Name	Alpine En	ergy Limited
	For Year Ended		rch 2019
This schedul	JLE 9d: REPORT ON EMBEDDED NETWORKS e requires information concerning embedded networks owned by an EDB that are embedded in another EDB's network or in another e	mbedded network.	
ref			
3	Location *	Number of ICPs served	Line charge revenue (\$000)
9	None	-	
,			

	Company Name	Alpine Energy Limited
	For Year Ended	31 March 2019
	Network / Sub-network Name	
CHEE	DULE 9e: REPORT ON NETWORK DEMAND	
nis scheo	dule requires a summary of the key measures of network utilisation for the disclosure year (number of	new connections including
stribute	d generation, peak demand and electricity volumes conveyed).	
ef		
Í		
9	De(i): Consumer Connections Number of ICPs connected in year by consumer type	
		Number of
	Consumer types defined by EDB*	connections (ICPs)
	Low Charge	22
	Low Uncontrolled	
	015	247
	015 Uncontrolled	1
	360	14
	360 Uncontrolled Assessed	25
	TOU 400V	-
	TOU 11kV	_
	IND	_
	* include additional rows if needed	
	Connections total	309
	Distributed generation	
	Number of connections made in year	52 connections
	Capacity of distributed generation installed in year	0.36 MVA
1		Demand at time
		of maximum coincident
;	Maximum coincident system domand	demand (MW)
	Maximum coincident system demand GXP demand	138
	plus Distributed generation output at HV and above	2
	Maximum coincident system demand	140
	less Net transfers to (from) other EDBs at HV and above	_
	Demand on system for supply to consumers' connection points	140
	Electricity volumes carried	Enorgy (Clark)
	Electricity volumes carried	Energy (GWh)
	Electricity supplied from GXPs	805
	Electricity supplied from GXPs less Electricity exports to GXPs	805 16
	Electricity supplied from GXPs less Electricity exports to GXPs plus Electricity supplied from distributed generation less Net electricity supplied to (from) other EDBs Electricity entering system for supply to consumers' connection points	805 16 29 - 817
	Electricity supplied from GXPs less Electricity exports to GXPs plus Electricity supplied from distributed generation less Net electricity supplied to (from) other EDBs Electricity entering system for supply to consumers' connection points less Total energy delivered to ICPs	805 16 29 - 817 809
	Electricity supplied from GXPs less Electricity exports to GXPs plus Electricity supplied from distributed generation less Net electricity supplied to (from) other EDBs Electricity entering system for supply to consumers' connection points	805 16 29 - 817 809
	Electricity supplied from GXPs less Electricity exports to GXPs plus Electricity supplied from distributed generation less Net electricity supplied to (from) other EDBs Electricity entering system for supply to consumers' connection points less Total energy delivered to ICPs	805 16 29 - 817 809
	Electricity supplied from GXPs less Electricity exports to GXPs plus Electricity supplied from distributed generation less Net electricity supplied to (from) other EDBs Electricity entering system for supply to consumers' connection points less Total energy delivered to ICPs Electricity losses (loss ratio)	805 16 29 - 817 809 809
5	Electricity supplied from GXPs less Electricity exports to GXPs plus Electricity supplied from distributed generation less Net electricity supplied to (from) other EDBs Electricity entering system for supply to consumers' connection points less Total energy delivered to ICPs Electricity losses (loss ratio) Load factor	805 16 29 - 817 809 809
Ę	Electricity supplied from GXPs less Electricity exports to GXPs plus Electricity supplied from distributed generation less Net electricity supplied to (from) other EDBs Electricity entering system for supply to consumers' connection points less Total energy delivered to ICPs Electricity losses (loss ratio) Load factor Dec(iii): Transformer Capacity Distribution transformer capacity (EDB owned)	805 16 29 - 817 809 8 1.09 0.67 (MVA) 605
ç	Electricity supplied from GXPs less Electricity exports to GXPs plus Electricity supplied from distributed generation less Net electricity supplied to (from) other EDBs Electricity entering system for supply to consumers' connection points less Total energy delivered to ICPs Electricity losses (loss ratio) Load factor Dec(iii): Transformer Capacity Distribution transformer capacity (EDB owned) Distribution transformer capacity (Non-EDB owned, estimated)	805 16 29 - 817 809 8 1.09 0.67 (MVA) 605 20
	Electricity supplied from GXPs less Electricity exports to GXPs plus Electricity supplied from distributed generation less Net electricity supplied to (from) other EDBs Electricity entering system for supply to consumers' connection points less Total energy delivered to ICPs Electricity losses (loss ratio) Load factor Dec(iii): Transformer Capacity Distribution transformer capacity (EDB owned)	805 16 29 - 817 809 8 1.0% 0.67 (MVA) 605

		Company Name	Alpine Energy	Limited
		For Year Ended	31 March	2019
	Network / Su	b-network Name		
sc	HEDULE 10: REPORT ON NETWORK RELIABILITY			
	schedule requires a summary of the key measures of network reliability (interruptions, SAIDI, SAIFI and fault r	ata) for the disclosure w	oor EDBs must provide ov	alanatarı (commo
	heir network reliability for the disclosure year in Schedule 14 (Explanatory notes to templates). The SAIFI and S			
	ction 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.			
, ,				
h ref				
8	10(i): Interruptions			
		Number of		
9	Interruptions by class	interruptions		
10	Class A (planned interruptions by Transpower)	_		
11	Class B (planned interruptions on the network)	272		
12	Class C (unplanned interruptions on the network)	232		
13	Class D (unplanned interruptions by Transpower)	3		
14	Class E (unplanned interruptions of EDB owned generation)			
15	Class F (unplanned interruptions of generation owned by others)			
16	Class G (unplanned interruptions caused by another disclosing entity)	-		
17	Class H (planned interruptions caused by another disclosing entity)			
18	Class I (interruptions caused by parties not included above)	-		
19	Total	507		
20 21	Interruption restoration	≤3Hrs	>3hrs	
22	Class C interruptions restored within	172	60	
23		172	00	
24	SAIFI and SAIDI by class	SAIFI	SAIDI	
24 25	Class A (planned interruptions by Transpower)	_	_	
26	Class B (planned interruptions on the network)	0.2177	60.09	
27	Class C (unplanned interruptions on the network)	0.8976	116.44	
28	Class D (unplanned interruptions by Transpower)	0.1746	27.55	
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	1.2898	204.08	
35				
			Normalised	
36	Normalised SAIFI and SAIDI	Normalised SAIFI	SAIDI	
37	Classes B & C (interruptions on the network)	0,9900	136.77	
57	Classes D & C Interruptions on the networky	0.3300	130.77	

S10.Reliability

		ſ		
	(Company Name		nergy Limited
		For Year Ended	31 N	Narch 2019
	Network / Sub	-network Name		
S	CHEDULE 10: REPORT ON NETWORK RELIABILITY	-		
on	is schedule requires a summary of the key measures of network reliability (interruptions, SAIDI, SAIFI and fault rai their network reliability for the disclosure year in Schedule 14 (Explanatory notes to templates). The SAIFI and SA section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.			
39 40	10(ii): Class C Interruptions and Duration by Cause			
41	Cause	SAIFI	SAIDI	
42	Lightning	0.0010	0.09	
43	Vegetation	0.0415	4.59	
44	Adverse weather	0.1406	19.24	
45	Adverse environment	0.0036	1.16	
46	Third party interference	0.1533	22.93	
47	Wildlife	0.2036	14.66	
48	Human error	-	-	
49	Defective equipment	0.2585	35.81	
50	Cause unknown	0.0888	8.25	
51 52 53	10(iii): Class B Interruptions and Duration by Main Equipment Involved			
54	Main equipment involved	SAIFI	SAIDI	
55	Subtransmission lines	0.0327	0.71	
56	Subtransmission rables	-	-	
57	Subtransmission other	_	_	
58	Distribution lines (excluding LV)	0.1564	52.33	
69	Distribution cables (excluding LV)	0.0142	2.72	
60	Distribution other (excluding LV)	0.0159	4.32	
61 62	10(iv): Class C Interruptions and Duration by Main Equipment Involved			
63	Main equipment involved	SAIFI	SAIDI	
64	Subtransmission lines	0.2907	37.27	
65	Subtransmission cables	-	-	
66	Subtransmission other	-	-	
67	Distribution lines (excluding LV)	0.4294	53.14	
68	Distribution cables (excluding LV)	0.1380	20.66	
69	Distribution other (excluding LV)	0.0458	5.36	
70	10(v): Fault Rate		Circuit Ion ath	Fould acts (foulde
71	Main equipment involved	Number of Faults	Circuit length (km)	Fault rate (faults per 100km)
72	Subtransmission lines	13	249	5.23
72	Subtransmission rables	-	31	
74	Subtransmission cables	_	51	
75	Distribution lines (excluding LV)	170	2,919	5.82
76	Distribution cables (excluding LV)	5	413	1.21
77	Distribution other (excluding LV)	44		
78	Total	232		

S10.Reliability