COMMERCE COMMISSION NEW ZEALAND	
Informa	Disclosure Requirements Ition Templates for
Sch	edules 1–10
Company Name	Vector
Disclosure Date	30 August 2019
Disclosure Year (year ended)	31 March 2019
-	chedules 1–10 excluding 5f–5g 4.1. Prepared 21 December 2017

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Disclosure Template Instructions

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

Company Name and Dates

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

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

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

Data Entry Cells and Calculated Cells

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

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

Validation Settings on Data Entry Cells

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

Conditional Formatting Settings on Data Entry Cells

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

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

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

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

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

Inserting Additional Rows and Columns

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

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

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

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

Disclosures by Sub-Network

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

Schedule References

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

Description of Calculation References

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

Worksheet Completion Sequence

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

1. Coversheet

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

Company Na	ne Vector
For Year End	ed 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 will include information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch	ref					
7	1(i): Expenditure metrics	Expenditure per GWh energy delivered to ICPs (\$/GWh)	Expenditure per average no. of ICPs (\$/ICP)	Expenditure per MW maximum coincident system demand (\$/MW)	Expenditure per km circuit length (\$/km)	Expenditure per MVA of capacity from EDB- owned distribution transformers (\$/MVA)
9	Operational expenditure	14,356	216	66,987	6,519	27,126
10	Network	5,413	81	25,260	2,458	10,229
11	Non-network	8,942	134	41,727	4,061	16,897
12						
13	Expenditure on assets	30,411	457	141,907	13,811	57,464
14	Network	27,138	408	126,632	12,324	51,279
15	Non-network	3,273	49	15,275	1,487	6,185
16						
17	1(ii): Revenue metrics					
		Revenue per GWh energy delivered to ICPs	Revenue per average no. of ICPs			
18		(\$/GWh)	(\$/ICP)	1		
19	Total consumer line charge revenue	74,403	1,118			
20	Standard consumer line charge revenue	77,785	1,084			
21	Non-standard consumer line charge revenue	31,684	658,167	J		
22 23 24	1(iii): Service intensity measures					
25	Demand density	97	Maximum coincl	ident system deman	d per km of circuit l	ength (for supply) (kW/km)
26	Volume density	454	Total energy del	ivered to ICPs per kn	n of circuit length (f	or supply) (MWh/km)
27	Connection point density	30	Average number	r of ICPs per km of ci	rcuit length (for sup	oply) (ICPs/km)
28	Energy intensity	15,031	Total energy del	ivered to ICPs per av	erage number of IC	Ps (kWh/ICP)
29						
30 31	1(iv): Composition of regulatory income		(\$000)	% of revenue		
32	Operational expenditure		121,961	19.51%		
33	Pass-through and recoverable costs excluding financial incent	ives and wash-ups	221,496	35.44%		
34	Total depreciation		108,729	17.40%		
35	Total revaluations		44,091	7.05%		
36	Regulatory tax allowance		46,418	7.43%		
37	Regulatory profit/(loss) including financial incentives and was	h-ups	166,526	26.64%		
38	Total regulatory income		625,022			
39 40 41	1(v): Reliability					
42	Interruption rate		20.40	Interruptions per	100 circuit km	

	Company Nam		Vector	
	For Year Ende	d	81 March 2019	
SCH	EDULE 2: REPORT ON RETURN ON INVESTMENT			
This sc	hedule requires information on the Return on Investment (ROI) for the EDB relative to the Commerce Commission's	estimates of post tax W/	ACC and vanilla WAC	C. EDBs must
	ate their ROI based on a monthly basis if required by clause 2.3.3 of the ID Determination or if they elect to. If an ED	B makes this election, inf	formation supporting	g this calculation
	pe provided in 2(iii). nust provide avalanatory commont on their POL in Schedule 14 (Mandatory Evalanatory Nator).			
	nust provide explanatory comment on their ROI in Schedule 14 (Mandatory Explanatory Notes). formation is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subj	ect to the assurance repo	ort required by section	on 2.8.
ref				
7	2(i): Return on Investment	CY-2	CY-1	Current Year CY
8		31 Mar 17	31 Mar 18	31 Mar 19
9	ROI – comparable to a post tax WACC	%	%	%
0	Reflecting all revenue earned	6.47%	4.90%	5.23%
1	Excluding revenue earned from financial incentives	6.47%	4.90%	5.34%
2	Excluding revenue earned from financial incentives and wash-ups	6.54%	4.97%	5.41%
13				
14	Mid-point estimate of post tax WACC	4.77%	5.04%	4.75%
5	25th percentile estimate	4.05%	4.36%	4.07%
6 7	75th percentile estimate	5.48%	5.72%	5.43%
7 8				
9	ROI – comparable to a vanilla WACC			
0	Reflecting all revenue earned	7.01%	5.49%	5.74%
1	Excluding revenue earned from financial incentives	7.01%	5.49%	5.85%
22	Excluding revenue earned from financial incentives and wash-ups	7.08%	5.56%	5.92%
23				
4	WACC rate used to set regulatory price path	7.19%	7.19%	7.19%
5		· · · · · · · · · · · · · · · · · · ·		
26	Mid-point estimate of vanilla WACC	5.31%	5.60%	5.26%
27	25th percentile estimate	4.59%	4.92%	4.58%
28 29	75th percentile estimate	6.03%	6.29%	5.94%
.9				
30	2(ii): Information Supporting the ROI		(\$000)	
1				
2	Total opening RAB value	2,951,716		
3	plus Opening deferred tax	(83,664)		
4	Opening RIV	L	2,868,052	
85		-		
86	Line charge revenue	L	632,109	
7				
8	Expenses cash outflow	343,457		
9	add Assets commissioned	203,460		
0 1	less Asset disposals add Tax payments	7,412 37,221		
2	less Other regulated income	(7,087)		
	Mid-year net cash outflows	(.,,	583,813	
3				
4	Term credit spread differential allowance	Г	3,984	
4 5	Term credit spread differential allowance		3,984	
4 5 6	Term credit spread differential allowance Total closing RAB value	3,075,471	3,984	
4 5 6 7		3,075,471 (7,655)	3,984	
4 5 7 8 9	Total closing RAB value less Adjustment resulting from asset allocation less Lost and found assets adjustment	(7,655) _	3,984	
44 96 97 98 99 90	Total closing RAB value less Adjustment resulting from asset allocation less Lost and found assets adjustment plus Closing deferred tax			
44 15 16 17 18 18 19 10 11	Total closing RAB value less Adjustment resulting from asset allocation less Lost and found assets adjustment	(7,655) _	3,984 2,990,265	
4 5 7 8 9 6 7 8 8 9 6 0 6 1 5 2	Total closing RAB value less Adjustment resulting from asset allocation less Lost and found assets adjustment plus Closing deferred tax	(7,655) _		E 7.60
14 15 16 17 18 19 50 51 52 53	Total closing RAB value less Adjustment resulting from asset allocation less Lost and found assets adjustment plus Closing deferred tax	(7,655) _		5.74%
4 5 7 8 9 0 1 2 3 4	Total closing RAB value less Adjustment resulting from asset allocation less Lost and found assets adjustment plus Closing deferred tax Closing RIV ROI – comparable to a vanilla WACC	(7,655) _		
13 14 15 16 17 18 19 50 51 52 53 54 55 56	Total closing RAB value less Adjustment resulting from asset allocation less Lost and found assets adjustment plus Closing deferred tax Closing RIV	(7,655) _		42%
4 5 6 7 8 8 9 9 7 0 1 1 5 3 3 4 5 5 6	Total closing RAB value less Adjustment resulting from asset allocation less Lost and found assets adjustment plus Closing deferred tax Closing RIV ROI – comparable to a vanilla WACC	(7,655) _		42% 4.33%
14 15 16 17 18 19 50 51 52 53 54	Image: Total closing RAB value less Adjustment resulting from asset allocation less Lost and found assets adjustment plus Closing deferred tax Closing RIV	(7,655) _		5.74% 42% 4.33% 28%

			C	Company Name		Vector	
				For Year Ended		31 March 2019	
s	CHEDULE 2: REPORT ON RETURN						
	s schedule requires information on the Return on Invo			ce Commission's esti	mates of post tax	WACC and vanilla WA	CC EDBs must
	culate their ROI based on a monthly basis if required l						
mu	ist be provided in 2(iii).						
	Bs must provide explanatory comment on their ROI in s information is part of audited disclosure information			n) and colic subject t	o the accurance r	port required by cost	ion 2.9
	s information is part of audited disclosure information	r (as defined in section 1.	.4 of the iD determinatio	nj, and so is subject t	o the assurance re	eport required by sect	1011 2.8.
sch re 61	f 2(iii): Information Supporting the	Monthly ROI					
62							
63	Opening RIV						N/A
64							
65							
66		Line charge	Expenses cash	Assets	Asset	Other regulated	Monthly net cash
67	April	revenue	outflow	commissioned	disposals	income	outflows -
68	May						-
69	June						-
70	July						-
71	August					ļ	-
72	September		├ ────				-
73 74	October November		┣────┼				-
75	December					1	
76	January		 			1	-
77	February						-
78	March						-
79	Total	-	-	-	-	-	-
80	-						N/A
81 82	Tax payments						N/A
83	Term credit spread differential allowa	nce					N/A
84							
85	Closing RIV						N/A
86							
87							
88	Monthly ROI – comparable to a vanilla V	VACC					N/A
89 90	Monthly ROI – comparable to a post tax	WACC					N/A
91							,,,
92	2(iv): Year-End ROI Rates for Com	parison Purposes					
93							
94	Year-end ROI – comparable to a vanilla V	WACC					5.85%
95 96	Very and POL comparable to a part to	MACC					E 249/
96 97	Year-end ROI – comparable to a post tax	WALL					5.34%
98	* these year-end ROI values are compara	ble to the ROI reported in	n pre 2012 disclosures by	EDBs and do not rep	resent the Commi	ssion's current view o	n ROI.
99		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·			
100	2(v): Financial Incentives and Was	h-Ups					
101							
102	Net recoverable costs allowed under in		ive scheme			-	
103 104	Purchased assets – avoided transmissi Energy efficiency and demand incentiv					-	
104	Quality incentive adjustment	e allowance				(4,449)	
106	Other financial incentives					-	
107	Financial incentives						(4,449)
108							
109	Impact of financial incentives on ROI						-0.11%
110	Input methodology claw back						1
111 112	Input methodology claw-back CPP application recoverable costs					-	
113	Catastrophic event allowance					-	
114	Capex wash-up adjustment					(2,616)	
115	Transmission asset wash-up adjustmer	nt				-	
116	2013–15 NPV wash-up allowance					-	
117	Reconsideration event allowance					-	
118 119	Other wash-ups					-	(2.646)
119	Wash-up costs						(2,616)
121	Impact of wash-up costs on ROI						-0.07%

			Company Name	Vector
			For Year Ended	31 March 2019
S	CHEDU	LE 3: REPORT ON REGULATORY PROFIT		
		requires information on the calculation of regulatory profit for the EDB for the disclo tory profit in Schedule 14 (Mandatory Explanatory Notes).	sure year. All EDBs must com	plete all sections and provide explanatory comment
		on is part of audited disclosure information (as defined in section 1.4 of the ID deter	mination), and so is subject t	o the assurance report required by section 2.8.
sch re	ef			
7	3(i): R	egulatory Profit		(\$000)
8 9		Income Line charge revenue		632,109
10	plus	Gains / (losses) on asset disposals		(7,087)
11	plus	Other regulated income (other than gains / (losses) on asset disposals)		
12 13		Total regulatory income		625,022
14		Expenses		
15	less	Operational expenditure		121,961
16 17	less	Pass-through and recoverable costs excluding financial incentives and wash-ups		221,496
18				
19 20		Operating surplus / (deficit)		281,565
21	less	Total depreciation		108,729
22 23	plus	Total revaluations		44,091
23 24	pius			44,091
25		Regulatory profit / (loss) before tax		216,927
26 27	less	Term credit spread differential allowance		3,984
28				
29 30	less	Regulatory tax allowance		46,418
31		Regulatory profit/(loss) including financial incentives and wash-ups		166,526
32				
33	3(ii): I	Pass-through and Recoverable Costs excluding Financial Inc Pass through costs	centives and Wash-U	Jps (\$000)
34 35		Rates		8,085
36		Commerce Act levies		1,187
37 38		Industry levies CPP specified pass through costs		<u> </u>
39		Recoverable costs excluding financial incentives and wash-ups		
40 41		Electricity lines service charge payable to Transpower Transpower new investment contract charges		<u>197,097</u> 12,084
42		System operator services		
43 44		Distributed generation allowance Extended reserves allowance		1,129
45		Other recoverable costs excluding financial incentives and wash-ups		-
46 47		Pass-through and recoverable costs excluding financial incentives and wash-ups		221,496
47	3(iii)	Incremental Rolling Incentive Scheme		(\$000)
48 49	3 (iii).	incremental Kolling incentive Scheme		СҮ-1 СҮ
50 51		Allowed controllable opex		31 Mar 18 31 Mar 19
51 52		Actual controllable opex		
53		lassemental abanas in usor		
54 55		Incremental change in year		
				Previous years' Previous years' incremental
				Previous years' incremental incremental change adjusted
56 57		CY-5 31 Mar 14		change for inflation
58		CY-4 31 Mar 15		
59 60		CY-3 31 Mar 16 CY-2 31 Mar 17		
61		CY-1 31 Mar 18		
62		Net incremental rolling incentive scheme		-
63 64		Net recoverable costs allowed under incremental rolling incentive scheme		
65	3(iv):	Merger and Acquisition Expenditure		
70				(\$000)
66 67		Merger and acquisition expenditure		
67		Provide commentary on the benefits of merger and acquisition expenditure to the	electricity distribution busine	ess, including required disclosures in accordance with
68		section 2.7, in Schedule 14 (Mandatory Explanatory Notes)		
69	3(v): (Other Disclosures		
70 71		Self-insurance allowance		(\$000)

			ompany Name For Year Ended	3	Vector 1 March 2019	
HEDULE 4: REPORT ON VALUE OF THE REGULATORY ASSET BASE (ROLLI schedule requires information on the calculation of the Regulatory Asset Base (RAB) value to the end of this disclosu must provide explanatory comment on the value of their RAB in Schedule 14 (Mandatory Explanatory Notes). This in	re year. This informs the ROI calculation in Sch		ection 1.4 of the ID o	determination), and :	so is subject to the	assurance repo
ction 2.8.						
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 19 (\$000)
Total opening RAB value		2,618,855	2,660,795	2,682,398	2,879,136	2,951,7
less Total depreciation		92,306	94,495	96,289	108,316	108,7
plus Total revaluations		6,565	11,077	57,761	31,561	44,0
plus Assets commissioned		137,234	116,194	249,121	156,889	203,4
less Asset disposals		9,358	11,139	15,950	7,540	7,4
plus Lost and found assets adjustment		-	-	-	-	
plus Adjustment resulting from asset allocation		(195)	(34)	2,095	(14)	(7,6
Total closing RAB value		2,660,795	2,682,398	2,879,136	2,951,716	3,075,4
Total closing into value		2,000,793	2,002,330	2,875,130	2,331,710	5,075,4
4(ii): Unallocated Regulatory Asset Base			Unallocate		RA	
Total opening RAB value			(\$000)	(\$000) 2,962,194	(\$000)	(\$000) 2,951,7
less Total depreciation			[111,860	[108,7
plus Total revaluations			[44,230	[44,0
plus Assets commissioned (other than below)		Γ	203,278	Γ	193,578	
Assets acquired from a regulated supplier Assets acquired from a related party			- 9,882		- 9,882	
Assets commissioned				213,160		203,4
Asset disposals (other than below) Asset disposals to a regulated supplier		F	7,417	F	7,412	
Asset disposals to a related party		ŀ	-	7.447	-	7,4
Asset disposals			L	7,417	l	
plus Lost and found assets adjustment			L	-		-
plus Adjustment resulting from asset allocation						(7,6
			_		-	
Total closing RAB value	ervices without any allowance being made for	the allocation of costs	to services provider	3,100,307	t are not electricity	3,075,4
Total closing RAB value * The 'unallocated RAB' is the total value of those assets used wholly or partially to provide electricity distribution s services. The RAB value represents the value of these assets after applying this cost allocation. Neither value inclua		the allocation of costs	to services provided		t are not electricity	
 The 'unallocated RAB' is the total value of those assets used wholly or partially to provide electricity distribution s services. The RAB value represents the value of these assets after applying this cost allocation. Neither value include include the represent of the second second second second second second second second		the allocation of costs	to services provided		t are not electricity	
* The 'unallocated RAB' is the total value of those assets used wholly or partially to provide electricity distribution so		the allocation of costs	to services provided		t are not electricity	
 The 'unallocated RAB' is the total value of those assets used wholly or partially to provide electricity distribution s services. The RAB value represents the value of these assets after applying this cost allocation. Neither value include include the represent of the second second second second second second second second		the allocation of costs	to services provided		t are not electricity	
 The 'unallocated RAB' is the total value of those assets used wholly or partially to provide electricity distribution s services. The RAB value represents the value of these assets after applying this cost allocation. Neither value include 4(iii): Calculation of Revaluation Rate and Revaluation of Assets CPI₄ 		the allocation of costs	to services provided		t are not electricity	distribution 1,0
 The 'unallocated RAB' is the total value of those assets used wholly or partially to provide electricity distribution s services. The RAB value represents the value of these assets after applying this cost allocation. Neither value inclua 4(iii): Calculation of Revaluation Rate and Revaluation of Assets CPl_k CPl_k⁴ 		the allocation of costs	Unallocate	d by the supplier that	RA	distribution 1,0 1,0 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5
 The 'unallocated RAB' is the total value of those assets used wholly or partially to provide electricity distribution is services. The RAB value represents the value of these assets ofter applying this cost allocation. Neither value inclua distribution of Revaluation of Revaluation Rate and Revaluation of Assets CPl_a CPl_a⁻⁴ Revaluation rate (%) Total opening RAB value 		the allocation of costs	Unallocato (\$000) 2,962,194	d by the supplier that	R4 (\$000) 2,951,716	distribution 1,0 1,0 1,50
 The 'unallocated RAB' is the total value of those assets used wholly or partially to provide electricity distribution is services. The RAB value represents the value of these assets after applying this cost allocation. Neither value include of (iii): Calculation of Revaluation Rate and Revaluation of Assets CPI₄ CPI₄ CPI₄ Revaluation rate (%) Total opening RAB value Opening value of fully depreciated, disposed and lost assets 		the allocation of costs	Unallocate (\$000) 2,962,194 13,008	d by the supplier that	RA (\$000) 2,951,716 11,797	distribution 1,0 1,0 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5
 The 'unallocated RAB' is the total value of those assets used wholly or partially to provide electricity distribution is services. The RAB value represents the value of these assets ofter applying this cost allocation. Neither value inclua distribution of Revaluation of Revaluation Rate and Revaluation of Assets CPl_a CPl_a⁻⁴ Revaluation rate (%) Total opening RAB value 		the allocation of costs	Unallocato (\$000) 2,962,194	d by the supplier that	R4 (\$000) 2,951,716	distribution 1,0 1,0 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5
 The 'unallocated RAB' is the total value of those assets used wholly or partially to provide electricity distribution is services. The RAB value represents the value of these assets after applying this cost allocation. Neither value includ content of the cost allocation of the cost allocation of the cost allocation. Neither value includ cost allocation of the cost allocation. Neither value includ cost allocation of the cost allocation of the cost allocation. Neither value includ cost allocation of the cost all		the allocation of costs	Unallocate (\$000) 2,962,194 13,008	d by the supplier that ed RAB • (S000)	RA (\$000) 2,951,716 11,797	distribution 1,0 1,0 1,5 1,5 1,5 (\$000)
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* The 'unallocated RAB' is the total value of those assets used wholly or partially to provide electricity distribution as services. The RAB value represents the value of these assets after applying this cost allocation. Neither value includ 4(iii): Calculation of Revaluation Rate and Revaluation of Assets CPl _a · CPl _a · CPl _a · Total opening RAB value less · Opening value of fully depreciated, disposed and lost assets Total opening RAB value subject to revaluation Total revaluations 4(iv): Roll Forward of Works Under Construction Works under construction—preceding disclosure year		the allocation of costs	Unallocate (\$000) 2,962,194 13,008 2,949,186 Unallocated Constru	d by the supplier that ed RAB * (\$000) 44,230 works under	RA (\$000) 2,951,716 11,797 2,939,919 2,939,919	1,0 3,0 3,0 1,5 (\$000) 44,0
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* The 'unallocated RAB' is the total value of those assets used wholly or partially to provide electricity distribution as services. The RAB value represents the value of these assets offer applying this cost allocation. Neither value includ 4(iii): Calculation of Revaluation Rate and Revaluation of Assets CPi ₄ CPi ₄ [*] Revaluation rate (%) Total opening RAB value less Opening value of fully depreciated, disposed and lost assets Total opening RAB value subject to revaluation Total revaluations 4(iv): Roll Forward of Works Under Construction Vorks under construction—preceding disclosure year plus Capital expenditure less Assets acquired from a related party less Assets acquired from arelated party less Assets commissioned plus Internet resultion from asset allocation Works under construction - current disclosure year Highest rate of capitalised finance applied 4(v): Regulatory Depreciation		the allocation of costs	Unallocat (\$000) 2,962,194 13,008 2,949,186 Unallocated v constr 190,518 - 213,160	ed RAB * (5000) 44,230 works under uction 61,212 38,570 ed RAB *	(\$000) 2,955,716 11,797 2,939,919 Allocated works u 187,928 - 203,460 78 - 203,460 78 80,451	1,00 1,00 1,0 1,0 1,5 B (\$000) 44,0 44,0 45,2 5,77 45,2 5,77 8
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* he wandlecated RAB' is the total value of those assets used wholly or partially to provide electricity distribution as services. The RAB value represents the value of these assets offer applying this cost allocation. Notifier value induced (iii): Calculation of Revaluation Rate and Revaluation of Assets (Pi, " Pi, " Revaluation rate (%) Total opening RAB value 20 opening value of fully depreciated, disposed and lost assets Total opening RAB value subject to revaluation Total revaluation Total revaluation Total revaluation (i): Coll forward of Works Under Construction (More under construction-preceding disclosure year Mark assets acquired from a related party 20 Adjustment resulting from asset allocation Works under construction - urrevet disclosure year Highest rate of capitalised finance applied (j): Adjustment resulting from asset allocation Depreciation - standard Dereciation - standard Dereciation - modified life assets Depreciation - modified life assets	les works under construction.		Unallocate (\$000) 2,949,186 2,949,186 Unallocated 4 200,518 - - 213,160 Unallocate (\$000) 80,451 31,409 - - (\$000 u	ed RAB * (\$000) 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230	RA (\$000) 2,955,716 11,797 2,939,919 Allocated works u 187,928 - 203,460 78 - 203,460 78 - 203,460 78 - 28,451 28,278 - 28,278 - - - - - - - - - - - - - - - - - - -	distribution 1,0, 1,0, 1,0, 1,5, 1,5, (\$000) 44,0 44,0 44,0 44,0 44,0 44,0 1,5, 44,0 1,5, 44,0 1,5, 44,0 1,5, 44,0 1,5, 44,0 1,5, 44,0 1,5,7,7 1,5,7,7 1,5,7,7 1,5,7,7 1,5,7,7 1,5,7,7 1,5,7,7 1,5,7,7 1,5,7,7 1,5,7,7,7 1,5,7,7,7 1,5,7,7,7 1,5,7,7,7 1,5,7,7,7 1,5,7,7,7,7 1,5,7,7,7,7,7,7 1,5,7,7,7,7,7,7,7,7,7,7,7,7,7,7,7,7,7,7,
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* he wandlecated RAB' is the total value of those assets used wholly or partially to provide electricity distribution as services. The RAB value represents the value of these assets offer applying this cost allocation. Notifier value induced (iii): Calculation of Revaluation Rate and Revaluation of Assets (Pi, " Pi, " Revaluation rate (%) Total opening RAB value 20 opening value of fully depreciated, disposed and lost assets Total opening RAB value subject to revaluation Total revaluation Total revaluation Total revaluation (i): Coll forward of Works Under Construction (More under construction-preceding disclosure year Mark assets acquired from a related party 20 Adjustment resulting from asset allocation Works under construction - urrevet disclosure year Highest rate of capitalised finance applied (j): Adjustment resulting from asset allocation Depreciation - standard Dereciation - standard Dereciation - modified life assets Depreciation - modified life assets	les works under construction.		Unallocate (\$000) 2,949,186 2,949,186 Unallocated 4 200,518 - - 213,160 Unallocate (\$000) 80,451 31,409 - - (\$000 u	ed RAB * (\$000) 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230 44,230	RA (\$000) 2,955,716 11,797 2,939,919 Allocated works u 187,928 - 203,460 78 - 203,460 78 - 203,460 78 - 203,460 78 - 203,460 78 - 203,460 78 - 203,460 78 - 203,460 78 - 203,460 78 - 203,460 78 - 203,460 78 - 203,460 78 - 203,460 78 - 203,460 78 - 203,460 78 - 203,460 78 - 203,460 78 - 203,460 78 - 203,460 78 - 203,475 78 - 203,475 78 - 203,475 78 - 203,475 78 - 203,475 78 - 203,475 78 - 203,475 78 - 203,475 78 - 203,475 78 - 203,475 78 - 203,475 78 - 203,460 78 - 203,460 78 - 203,460 78 - 203,460 78 - 203,460 78 - 203,460 78 - 203,460 78 - 203,460 78 - 203,460 78 - 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 200,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 203,475 20	distribution 1,0, 1,0, 1,0, 1,5, 1,5, (\$000) 44,0 44,0 44,0 44,0 44,0 44,0 1,5, 44,0 1,5, 44,0 1,5, 44,0 1,5, 44,0 1,5, 44,0 1,5, 44,0 1,5,7,7 1,5,7,7 1,5,7,7 1,5,7,7 1,5,7,7 1,5,7,7 1,5,7,7 1,5,7,7 1,5,7,7 1,5,7,7,7 1,5,7,7,7 1,5,7,7,7 1,5,7,7,7 1,5,7,7,7 1,5,7,7,7,7 1,5,7,7,7,7,7,7 1,5,7,7,7,7,7,7,7,7,7,7,7,7,7,7,7,7,7,7,

S	CHEDULE 4: REPORT ON VALUE OF THE F	REGULATORY	ASSET BAS	E (ROLLED FO	ORWARD)			Company Name For Year Ended		Vector 31 March 2019	
ED	s schedule requires information on the calculation of the Regulat Bs must provide explanatory comment on the value of their RAB i section 2.8.							ection 1.4 of the ID	determination), and	l so is subject to the	assurance report r
96 97 98	4(vii): Disclosure by Asset Category	Subtransmission lines	Subtransmission cables	Zone substations	Distribution and	(\$000 unless oth Distribution and LV cables	erwise specified) Distribution substations and transformers	Distribution switchgear	Other network assets	Non-network assets	Total
99	Total opening RAB value	76.450	365.309	272.345	323.167	780.707	269.915	185,496	636.816	41.511	2.951.716
0	less Total depreciation	2,145	10,960	10,408	9,716	26,146	9,166	8,059	21,970	10,159	108,729
1	plus Total revaluations	1,145	5,477	4,072	4,819	11,694	4,031	2,745	9,536	572	44,091
2	plus Assets commissioned	(521)	1,497	12,838	18,963	38,922	16,409	31,715	57,269	26,368	203,460
3	less Asset disposals	104	72	727	1,840	616	1,046	2,447	560	-	7,412
4	plus Lost and found assets adjustment	-	-	-	-	-	-	-	-	-	-
95	plus Adjustment resulting from asset allocation	(135)	-	-	(3,538)	(2,185)	-	-	(1,852)	55	(7,655)
06	plus Asset category transfers	-	-	-	-	-	-	-	-	-	-
07	Total closing RAB value	74,690	361,251	278,120	331,855	802,376	280,143	209,450	679,239	58,347	3,075,471
08 09	Asset Life										
10	Weighted average remaining asset life	43	46	32	42	36	34	27	31	11	(years)

		Company Name	Vector
		For Year Ended	31 March 2019
SC	HEDULE	5a: REPORT ON REGULATORY TAX ALLOWANCE	
prot This	fit). EDBs mus s information i	ires 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 part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to	planatory Notes).
sch rej	f		
7	5a(i): R	egulatory Tax Allowance	(\$000)
8		Regulatory profit / (loss) before tax	216,927
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	5,557 *
12		Amortisation of initial differences in asset values	34,301
13		Amortisation of revaluations	9,519
14			49,377
15			
16	less	Total revaluations	44,091
17		Income included in regulatory profit / (loss) before tax but not taxable	_ *
18		Discretionary discounts and customer rebates	-
19		Expenditure or loss deductible but not in regulatory profit / (loss) before tax	1,471 *
20		Notional deductible interest	54,965
21 22			100,527
22			105 777
23 24		Regulatory taxable income	165,777
25	less	Utilised tax losses	_
26	1000	Regulatory net taxable income	165,777
27			
28		Corporate tax rate (%)	28%
29	1	Regulatory tax allowance	46,418
30			
31	* Work	ings to be provided in Schedule 14	
32	5a/ii\. r	isclosure of Permanent Differences	
32	Ja(1). L		hadula Ea(i)
33		In Schedule 14, Box 5, provide descriptions and workings of items recorded in the asterisked categories in Sch	nequie sa(i).
34	5a(iii):	Amortisation of Initial Difference in Asset Values	(\$000)
35			
36		Opening unamortised initial differences in asset values	1,063,321
37	less	Amortisation of initial differences in asset values	34,301
38	plus	Adjustment for unamortised initial differences in assets acquired	-
39	less	Adjustment for unamortised initial differences in assets disposed	1,486
40		Closing unamortised initial differences in asset values	1,027,534
41			
42		Opening weighted average remaining useful life of relevant assets (years)	31
43			

		Company Name	Vector
		For Year Ended	31 March 2019
S		5a: REPORT ON REGULATORY TAX ALLOWANCE	
Thi pro Thi	s schedule rec ofit). EDBs mu s information	uires information on the calculation of the regulatory tax allowance. This information is used to calculate regulators st provide explanatory commentary on the information disclosed in this schedule, in Schedule 14 (Mandatory Expl is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the	anatory Notes).
sch re	Í		
44	5a(iv):	Amortisation of Revaluations	(\$000)
45 46		Opening sum of RAB values without revaluations	2,695,210
40		Opening sum of two values without revaluations	2,033,210
48		Adjusted depreciation	99,210
49		Total depreciation	108,729
50		Amortisation of revaluations	9,519
51			
52	5a(v):	Reconciliation of Tax Losses	(\$000)
53			
54		Opening tax losses	
55	plus	Current period tax losses	-
56	less	Utilised tax losses	-
57		Closing tax losses	-
58	5a(vi).	Calculation of Deferred Tax Balance	(\$000)
58	50(1).		(4000)
59 60		Opening deferred tax	(83,664)
61			(00,004)
62	plus	Tax effect of adjusted depreciation	27,779
63	<i>p</i>	· · · · · · · · · · · · · · · · · · ·	
64	less	Tax effect of tax depreciation	28,976
65			
66	plus	Tax effect of other temporary differences*	592
67			
68 68	less	Tax effect of amortisation of initial differences in asset values	9,604
69 70	plus	Deferred tax balance relating to assets acquired in the disclosure year	
71	pius	bereffed tax balance relating to assets acquired in the disclosure year	
72	less	Deferred tax balance relating to assets disposed in the disclosure year	(269)
73			
74	plus	Deferred tax cost allocation adjustment	744
75			
76		Closing deferred tax	(92,861)
77	F. (
78	5a(vii)	Disclosure of Temporary Differences In Schedule 14, Box 6, provide descriptions and workings of items recorded in the asterisked category in Schedu	le Eq(vi) (Tay effect of other temperary
79		differences).	
80			
81	5a(viii)	: Regulatory Tax Asset Base Roll-Forward	
82			(\$000)
83		Opening sum of regulatory tax asset values	1,224,826
84	less	Tax depreciation	103,486
85	plus	Regulatory tax asset value of assets commissioned	192,580
86	less	Regulatory tax asset value of asset disposals	4,346
87	plus	Lost and found assets adjustment	-
88 89	plus	Adjustment resulting from asset allocation	(4,999)
89 90	plus	Other adjustments to the RAB tax value Closing sum of regulatory tax asset values	1,304,575

		Company Name	Vector	
		For Year Ended	31 March 2019	
his his	HEDULE 5b: REPORT ON RELATED I schedule provides information on the valuation of relater information is part of audited disclosure information (as	d party transactions, in accordance with clause 2.3.6 of		required by clause 2.8.
ref				
	5b(i): Summary—Related Party Transa	ictions	(\$000)	(\$000)
	Total regulatory income			-
	Market value of asset disposals			-
	Service interruptions and emergencies			-
	Vegetation management Routine and corrective maintenance an	discontion		,461 175
	Asset replacement and renewal (opex)	dinspection		-
	Network opex			7,63
	Business support			-
	System operations and network support	t	2,	,845
	Operational expenditure			10,48
	Consumer connection			-
	System growth			,979
	Asset replacement and renewal (capex)			,507
	Asset relocations			-
	Quality of supply			-
	Legislative and regulatory Other reliability, safety and environmen	*		<u>–</u> ,898
	Expenditure on non-network assets	1		
	Expenditure on assets			14,38
	Cost of financing			45
	Value of capital contributions			-
	Value of vested assets			-
	Capital Expenditure			14,84
	Total expenditure			/
	Other related party transactions			
		Party Transactions		
	Other related party transactions 5b(iii): Total Opex and Capex Related F	Nature of opex or capex service		Total value of transactions
	Other related party transactions 5b(iii): Total Opex and Capex Related F Name of related party	Nature of opex or capex service provided		Total value of transactions (\$000)
	Other related party transactions 5b(iii): Total Opex and Capex Related F Name of related party Vector Energy Solutions Limited	Nature of opex or capex service provided System growth		Total value of transactions (\$000) 8,979
	Other related party transactions 5b(iii): Total Opex and Capex Related F Name of related party Vector Energy Solutions Limited PowerSmart NZ Limited	Nature of opex or capex service provided System growth Other reliability, safety and environment		Total value of transactions (\$000) 8,979 3,898
	Other related party transactions 5b(iii): Total Opex and Capex Related F Name of related party Vector Energy Solutions Limited	Nature of opex or capex service provided System growth		Total value of transactions (\$000) 8,979
	Other related party transactions 5b(iii): Total Opex and Capex Related F Name of related party Vector Energy Solutions Limited PowerSmart NZ Limited Vector Communications Limited	Nature of opex or capex service provided System growth Other reliability, safety and environment Asset replacement and renewal (capex)		Total value of transactions (\$000) 8,979 3,898 593
	Other related party transactions 5b(iii): Total Opex and Capex Related F Name of related party Vector Energy Solutions Limited PowerSmart NZ Limited Vector Communications Limited Vector Communications Limited	Nature of opex or capex service provided System growth Other reliability, safety and environment Asset replacement and renewal (capex) System operations and network support	tion	Total value of transactions (\$000) 8,979 3,898 593 2,845
	Other related party transactions 5b(iii): Total Opex and Capex Related F Name of related party Vector Energy Solutions Limited PowerSmart NZ Limited Vector Communications Limited Tree Scape Limited	Nature of opex or capex service provided System growth Other reliability, safety and environment Asset replacement and renewal (capex) System operations and network support Vegetation management	tion	Total value of transactions (\$000) 8,979 3,898 593 2,845 7,461
	Other related party transactions 5b(iii): Total Opex and Capex Related F Name of related party Vector Energy Solutions Limited PowerSmart NZ Limited Vector Communications Limited Tree Scape Limited Tree Scape Limited	Nature of opex or capex service provided System growth Other reliability, safety and environment Asset replacement and renewal (capex) System operations and network support Vegetation management Routine and corrective maintenance and inspect	tion	Total value of transactions (\$000) 8,979 3,898 593 2,845 7,461 175
	Other related party transactions 5b(iii): Total Opex and Capex Related F Name of related party Vector Energy Solutions Limited PowerSmart NZ Limited Vector Communications Limited Tree Scape Limited Tree Scape Limited	Nature of opex or capex service provided System growth Other reliability, safety and environment Asset replacement and renewal (capex) System operations and network support Vegetation management Routine and corrective maintenance and inspect	tion	Total value of transactions (\$000) 8,979 3,898 593 2,845 7,461 175
	Other related party transactions 5b(iii): Total Opex and Capex Related F Name of related party Vector Energy Solutions Limited PowerSmart NZ Limited Vector Communications Limited Tree Scape Limited Tree Scape Limited	Nature of opex or capex service provided System growth Other reliability, safety and environment Asset replacement and renewal (capex) System operations and network support Vegetation management Routine and corrective maintenance and inspect	tion	Total value of transactions (\$000) 8,979 3,898 593 2,845 7,461 175
	Other related party transactions 5b(iii): Total Opex and Capex Related F Name of related party Vector Energy Solutions Limited PowerSmart NZ Limited Vector Communications Limited Tree Scape Limited Tree Scape Limited	Nature of opex or capex service provided System growth Other reliability, safety and environment Asset replacement and renewal (capex) System operations and network support Vegetation management Routine and corrective maintenance and inspect	tion	Total value of transactions (\$000) 8,979 3,898 593 2,845 7,461 175
	Other related party transactions	Nature of opex or capex service provided System growth Other reliability, safety and environment Asset replacement and renewal (capex) System operations and network support Vegetation management Routine and corrective maintenance and inspect Asset replacement and renewal (capex)	tion	Total value of transactions (\$000) 8,979 3,898 2,845 7,461 175 914
	Other related party transactions 5b(iii): Total Opex and Capex Related F Name of related party Vector Energy Solutions Limited PowerSmart NZ Limited Vector Communications Limited Tree Scape Limited Tree Scape Limited	Nature of opex or capex service provided System growth Other reliability, safety and environment Asset replacement and renewal (capex) System operations and network support Vegetation management Routine and corrective maintenance and inspect Asset replacement and renewal (capex)	tion	Total value of transactions (\$000) 8,979 3,898 593 2,845 7,461 175

Company Name Vector For Year Ended 31 March 2019

SCHEDULE 5c: REPORT ON TERM CREDIT SPREAD DIFFERENTIAL ALLOWANCE

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

5c(i): Qualifying Debt (for public)

	h ref										
	8	5c(i): 0	ualifying Debt (for public)								
	° 9	JC(I). Q	taining best (ioi public)								
	9										
									Book value at		
						Original tenor (in		Book value at	date of financial	Term Credit	Debt issue cost
	10		Issuing party	Issue date 15-Mar-17	Pricing date 23-Dec-16	years) 3	Coupon rate (%) BKBM + []VCI	issue date (NZD)	statements (NZD)	Spread Difference	readjustment
	11			15-Mar-17	23-Dec-16 23-Dec-16	3	BKBM + []VCI				
	12			15-Mar-17	23-Dec-16	3	BKBM + []VCI				
	13			2-Feb-18	19-Dec-17	3	BKBM + []VCI				
	14			2-Feb-18	19-Dec-17	3	BKBM + []VCI				
	15			2-Feb-18	19-Dec-17	3	BKBM + []VCI				
	16		[]VCI	2-Feb-18	19-Dec-17	3	BKBM + []VCI				
	17		Subtotal of bank facilities- variable rate	210010	19 000 17	5	Diddin i []ver		108,908		
	18								100,500		
	19		Capital bonds – fixed rate	15-Jun-17	14-Jun-17	5	5.7	307,205	305,894	[]VCI	[]VCI
	20 21		····								
	22		Wholesale Bonds- fixed rate Mar17	14-Mar-17	3-Mar-17	7	4.996	100,000		[]VCI	[]VCI
	23		Wholesale Bonds- fixed rate Jun18	25-Jun-18	21-Jun-18	5.7	4.996	140,000		[]VCI	[]VCI
	24		Subtotal of wholesale bonds- variable rate					240,000	244,372	[]VCI	[]VCI
	25										
	26		Senior notes - 2004 USPP 15yr	16-Sep-04	19-Jul-04	15	5.75	296,623		[]VCI	[]VCI
	27		Senior notes - 2010 USPP 12yr	22-Dec-10	22-Sep-10	12	[]VCI	250,516		[]VCI	[]VCI
	28		Senior notes - 2014 USPP 7yr	14-0ct-14	19-Jun-14	7	[]VCI	150,000		[]VCI	[]VCI
	29		Senior notes - 2017 USPP 10yr	25-Oct-17	28-Sep-17	10	[]VCI	277,200		[]VCI	[]VCI
	80		Senior notes - 2017 USPP 12yr	25-Oct-17	28-Sep-17	12	[]VCI	138,600		[]VCI	[]VCI
	81		Subtotal of senior notes - USD fixed rate					1,112,939	1,162,927	[]VCI	[]VCI
3	81										
3	33		Floating rate notes- variable rate	26-Oct-05	26-Oct-05	15	BKBM + []VCI	350,000	349,024	[]VCI	[]VCI
	84 85		Medium term notes – GBP fixed rate	11-Apr-08	8-Apr-08	10.8	7.625	285,614	224,189	[]VCI	[]vci
	86		* include additional rows if needed						2,395,314	9,616	(2,077)
3	37										
3	38	5c(ii): A	Attribution of Term Credit Spread Differential								
3	39										
4	10	Gr	oss term credit spread differential			7,539					
4	21										
2	22		Total book value of interest bearing debt		2,395,314						
2	23		Leverage		42%						
2	24		Average opening and closing RAB values		3,013,594						
	25	At	tribution Rate (%)			53%					
	26										
2	27	Те	rm credit spread differential allowance			3,984					

	Company Name Vector
	For Year Ended 31 March 2019
CHEDULE 5d: REPORT ON COST ALLOCATIONS	ory comment on their cost allocation in Schedule 14 (Mandatory Explanatory Notes), including on the impact of any reclassifications.
his information is part of audited disclosure information (as defined in section 1.4 of the ID determination	
ef	
5d(i): Operating Cost Allocations	
	Value allocated (\$000s)
	Electricity Non-electricity Arm's length distribution distribution OVABAA allocati
Service interruptions and emergencies	deduction services services Total increase (\$000s
Directly attributable	11,557
Not directly attributable Total attributable to regulated service	
Vegetation management	
Directly attributable	7,461
Not directly attributable Total attributable to regulated service	7,461
Routine and corrective maintenance and inspection	
Directly attributable Not directly attributable	
Total attributable to regulated service	13,741
Asset replacement and renewal	13,231
Directly attributable Not directly attributable	
Total attributable to regulated service	13,231
System operations and network support Directly attributable	28,591
Not directly attributable	- 10,821 1,516 12,337 -
Total attributable to regulated service Business support	39,412
Directly attributable	1,804
Not directly attributable Total attributable to regulated service	- 34,755 15,740 50,495 - 36,559
Operating costs directly attributable Operating costs not directly attributable	76,385 - 45,576 17,256 62,832 -
Operational expenditure	121,961
5d(ii): Other Cost Allocations	
Pass through and recoverable costs	(\$000)
Pass through costs	11.186
Directly attributable Not directly attributable	11,186
Directly attributable Not directly attributable Total attributable to regulated service	11,186 - 11,186
Directly attributable Not directly attributable	-
Directly attributable Not directly attributable Total attributable to regulated service Recoverable costs Directly attributable Not directly attributable	 11,186
Directly attributable Not directly attributable Total attributable to regulated service Recoverable costs Directly attributable	 11,136
Directly attributable Not directly attributable Total attributable to regulated service Recoverable costs Directly attributable Not directly attributable	 11,186
Directly attributable Not directly attributable Total attributable to regulated service Recoverable costs Directly attributable Not directly attributable Total attributable to regulated service 5d(iii): Changes in Cost Allocations* †	
Directly attributable Not directly attributable Total attributable to regulated service Recoverable costs Directly attributable Not directly attributable Total attributable to regulated service	 11,186
Directly attributable Not directly attributable Total attributable to regulated service Recoverable costs Directly attributable Not directly attributable Total attributable to regulated service 5d(iii): Changes in Cost Allocations* † Change in cost allocation 1 Cost category Original allocator or line items	
Directly attributable Not directly attributable Total attributable to regulated service Recoverable costs Directly attributable Not directly attributable Total attributable to regulated service 5d(iii): Changes in Cost Allocations* † Change in cost allocation 1 Cost category	
Directly attributable Not directly attributable Total attributable to regulated service Recoverable costs Directly attributable Not directly attributable Total attributable to regulated service 5d(iii): Changes in Cost Allocations* † Change in cost allocation 1 Cost category Original allocator or line items	
Directly attributable Not directly attributable Total attributable to regulated service Recoverable costs Directly attributable Not directly attributable Total attributable to regulated service 5d(iii): Changes in Cost Allocations* † Change in cost allocation 1 Cost category Original allocator or line items New allocator or line items	
Directly attributable Not directly attributable Total attributable oregulated service Recoverable costs Directly attributable Total attributable Total attributable to regulated service	
Directly attributable Not directly attributable Total attributable oregulated service Recoverable costs Directly attributable Not directly attributable Total attributable to regulated service Sd(iii): Changes in Cost Allocations* † Change in cost allocation 1 Cost category Original allocator or line items New allocator or line items	
Directly attributable Not directly attributable Recoverable costs Directly attributable Not directly attributable Not directly attributable Total attributable Total attributable to regulated service	
Directly attributable Not directly attributable Recoverable costs Directly attributable Not directly attributable Not directly attributable Total attributable to regulated service	
Directly attributable Not directly attributable Recoverable costs Directly attributable Not directly attributable Not directly attributable Total attributable Total attributable to regulated service	
Directly attributable Not directly attributable Total attributable Recoverable costs Directly attributable Total attributable T	
Directly attributable Not directly attributable Total attributable Cecoverable coss Directly attributable Dotal attributable Dotal attributable Total attributable Total attributable Cost category Original allocator or line items New allocator or line ite	
Directly attributable Not directly attributable Recoverable costs Directly attributable Directly attributable Directly attributable Dotal attributable Dotal attributable Dotal attributable to regulated service	
Directly attributable Not directly attributable Total attributable or gulated service Recoverable costs Directly attributable Not directly attributable Total attributable Total attributable to regulated service	
Directly attributable Not directly attributable Total attributable oregulated service Recoverable costs Directly attributable Not directly attributable Total attribu	
Directly attributable Not directly attributable Recoverable costs Directly attributable	
Directly attributable Not directly attributable Recoverable costs Directly attributable	

Commerce Commission Information Disclosure Template

			Company Name		Vector 1 March 2019	
CH	IEDULE 5e: REPORT ON ASSET AL	OCATIONS	For Year Ended	3.	I Warch 2019	
is s	chedule requires information on the allocation of asse	t values. This information supports the calculation of the RAB	value in Schedule 4.			
		ation in Schedule 14 (Mandatory Explanatory Notes), includin termination), and so is subject to the assurance report require		ny changes in asset allocatio	ns. This information is p	art of audited
		······				
	5e(i): Regulated Service Asset Values					
				Value allocated		
				(\$000s) Electricity distribution		
	Subtransmission lines			services		
	Directly attributable			73,607		
	Not directly attributable			1,083		
	Total attributable to regulated service Subtransmission cables			74,690		
	Directly attributable			361,251		
	Not directly attributable Total attributable to regulated service			361,251		
	Zone substations					
	Directly attributable Not directly attributable			278,120		
	Total attributable to regulated service			278,120		
	Distribution and LV lines					
	Directly attributable Not directly attributable			303,393 28,462		
	Total attributable to regulated service			331,855		
	Distribution and LV cables Directly attributable			784,800		
	Not directly attributable			17,576		
	Total attributable to regulated service Distribution substations and transforn	and		802,376		
	Directly attributable	1015		280,143		
	Not directly attributable Total attributable to regulated service			- 280,143		
	Distribution switchgear			200,145		
	Directly attributable			209,450		
	Not directly attributable Total attributable to regulated service			209,450		
	Other network assets			,		
	Directly attributable Not directly attributable			672,511 6,728		
	Total attributable to regulated service			679,239		
	Non-network assets			10.575		
	Directly attributable Not directly attributable			19,575 38,772		
	Total attributable to regulated service			58,347		
	Regulated service asset value directly attribut			2,982,850		
	Regulated service asset value not directly attri Total closing RAB value	butable		92,621 3,075,471	_	
	· · · · · · · · · · · · · · · · · · ·			<i></i>		
	5e(ii): Changes in Asset Allocations* †					
					(\$000)	
	Change in asset value allocation 1 Asset category	Subtransmission lines		Original allocation	CY-1 Cur 1,177	rrent Year (CY) 1,218
	Original allocator or line items New allocator or line items	ACAM - 100% allocation ABAA - capacity ratio		New allocation Difference	1,177	1,083
	New allocator or line items			Difference	-	135
	Rationale for change	Adoption of the ABAA allocation methodology in place	of the ACAM allocati	on methodology.		
	Change in asset value allocation 2				(\$000) CY-1 Cui	rrent Year (CY)
	Asset category	Distribution and LV lines		Original allocation	30,916	32,000
	Original allocator or line items New allocator or line items	ACAM - 100% allocation ABAA - capacity ratio		New allocation Difference	30,916	28,462
	Rationale for change	Adoption of the ABAA allocation methodology in place	or the ACAM allocati	on methodology.		
	Change in asset value allocation 3				(\$000) CY-1 Cui	rrent Year (CY)
	Asset category	Distribution and LV cables		Original allocation	19,092	19,761
	Original allocator or line items New allocator or line items	ACAM - 100% allocation ABAA - capacity ratio		New allocation Difference	19,092	17,576 2,185
					÷	-,
	Rationale for change	Adoption of the ABAA allocation methodology in place	or the ACAM allocati	on methodology.		
	Change in asset value allocation 4				CY-1 Cu	rrent Year (CY)
	Asset category	Other network assets		Original allocation	8,022	8,580
	Original allocator or line items New allocator or line items	ACAM - 100% allocation ABAA - fair value ratio		New allocation Difference	8,022	6,728 1,852
						2,002
	Rationale for change	Adoption of the ABAA allocation methodology in place	or the ACAM allocati	on methodology.		

	Company Name	Vector	
	For Year Ended	31 March 20)19
SC	HEDULE 6a: REPORT ON CAPITAL EXPENDITURE FOR THE DISCLOSURE YEAR		
This	schedule requires a breakdown of capital expenditure on assets incurred in the disclosure year, including any assets in respect of which	a capital contributions	are received, but
	uding assets that are vested assets. Information on expenditure on assets must be provided on an accounting accruals basis and must e	exclude finance costs.	
	s must provide explanatory comment on their expenditure on assets in Schedule 14 (Explanatory Notes to Templates). information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurar	acc report required by	contion 2.9
11115	information is part of addited disclosure information (as defined in section 1.4 or the to determination), and so is subject to the assurat	ice report required by	v section 2.8.
n ref			
7	6a(i): Expenditure on Assets	(\$000)	(\$000)
8	Consumer connection		70,729
9	System growth		27,515
0 1	Asset replacement and renewal		97,343
2	Asset relocations Reliability, safety and environment:	ļ	18,870
3	Quality of supply	3,044	
4	Legislative and regulatory	954	
5	Other reliability, safety and environment	12,102	
5	Total reliability, safety and environment		16,100
7	Expenditure on network assets		230,557
8	Expenditure on non-network assets		27,810
9			
)	Expenditure on assets		258,367
!	plus Cost of financing		1,344
2 3	less Value of capital contributions plus Value of vested assets		71,783
1	plus Value of Vested assets	ļ	
5	Capital expenditure		187,928
		, i	
6	6a(ii): Subcomponents of Expenditure on Assets (where known)		(\$000)
7	Energy efficiency and demand side management, reduction of energy losses		I
8	Overhead to underground conversion		6,231
Э	Research and development		3,445
	Ga/iii): Consumer Connection		
0 1	6a(iii): Consumer Connection Consumer types defined by EDB*	(\$000)	(\$000)
2	Service connection	12,822	(2000)
3	Customer substations	19,553	
4	Business subdivisions	564	
5	Residential subdivisions	28,037	
6	Capacity change	8,906	
	Street lighting	841	
	Easement costs	6	
7	* include additional rows if needed	1	70 720
8 9	Consumer connection expenditure	l	70,729
2	less Capital contributions funding consumer connection expenditure	57,454	
1	Consumer connection less capital contributions		13,275
			Asset
2	6a(iv): System Growth and Asset Replacement and Renewal	Sustan Crowth	Replacement and
3 4		System Growth (\$000)	Renewal (\$000)
≁ 5	Subtransmission	2,812	1,984
	Zone substations	15,978	16,151
5	Distribution and LV lines	1,001	40,282
	Distribution and LV cables	2,646	7,072
7			1,012
7 3	Distribution substations and transformers	3,568	
7 3 9	Distribution substations and transformers Distribution switchgear	3,568 (80)	
7 8 9 0 1	Distribution switchgear Other network assets	(80) 1,590	11,867 13,481 6,506
7 3 9 0 1 2	Distribution switchgear Other network assets System growth and asset replacement and renewal expenditure	(80) 1,590 27,515	11,867 13,481 6,506 97,343
7 8 9 0 1 2 3	Distribution switchgear Other network assets System growth and asset replacement and renewal expenditure less Capital contributions funding system growth and asset replacement and renewal	(80) 1,590 27,515 (60)	11,867 13,481 6,506 97,343 250
7 8 9 0 1 1 2 2 3 3	Distribution switchgear Other network assets System growth and asset replacement and renewal expenditure	(80) 1,590 27,515	11,867 13,481 6,506 97,343 250
7 8 9 0 1 1 2 2 3 3	Distribution switchgear Other network assets System growth and asset replacement and renewal expenditure less Capital contributions funding system growth and asset replacement and renewal	(80) 1,590 27,515 (60)	11,867 13,481 6,506 97,343 250
7 3 9 0 1 1 2 2 3 3 4 4 5	Distribution switchgear Other network assets System growth and asset replacement and renewal expenditure less Capital contributions funding system growth and asset replacement and renewal System growth and asset replacement and renewal less capital contributions	(80) 1,590 27,515 (60)	11,867 13,481 6,506 97,343 250
7 8 9 0 1 1 2 2 3 3 4 4 5 5	Distribution switchgear Other network assets System growth and asset replacement and renewal expenditure less Capital contributions funding system growth and asset replacement and renewal System growth and asset replacement and renewal less capital contributions 6a(v): Asset Relocations	(80) 1,590 27,515 (60) 27,575	11,867 13,481 6,506 97,343 250 97,093
7 8 9 9 0 0 1 1 2 2 3 3 4 4 5 5 7	Distribution switchgear Other network assets System growth and asset replacement and renewal expenditure less Capital contributions funding system growth and asset replacement and renewal System growth and asset replacement and renewal less capital contributions	(80) 1,590 27,515 (60)	11,867 13,481 6,506 97,343 250
7 8 9 0 1 2 3 4 5 5 6 7 8	Distribution switchgear Other network assets System growth and asset replacement and renewal expenditure less Capital contributions funding system growth and asset replacement and renewal System growth and asset replacement and renewal less capital contributions 6a(v): Asset Relocations	(80) 1,590 27,515 (60) 27,575 (\$000)	11,867 13,481 6,506 97,343 250 97,093
7 33 39 00 11 22 33 44 55 77 33 99	Distribution switchgear Other network assets System growth and asset replacement and renewal expenditure less Capital contributions funding system growth and asset replacement and renewal System growth and asset replacement and renewal less capital contributions 6a(v): Asset Relocations	(80) 1,590 27,515 (60) 27,575 (\$000)	11,867 13,481 6,506 97,343 250 97,093
7 3 3 9 9 9 9 1 2 2 3 4 5 5 7 7 3 9 9 0	Distribution switchgear Other network assets System growth and asset replacement and renewal expenditure less Capital contributions funding system growth and asset replacement and renewal System growth and asset replacement and renewal less capital contributions 6a(v): Asset Relocations	(80) 1,590 27,515 (60) 27,575 (\$000) - - -	11,867 13,481 6,506 97,343 250 97,093
7 8 9 0 1 2 3 4 5 6 7 8 9 0 1	Distribution switchgear Other network assets System growth and asset replacement and renewal expenditure less Capital contributions funding system growth and asset replacement and renewal System growth and asset replacement and renewal less capital contributions 6a(v): Asset Relocations	(80) 1,590 27,515 (60) 27,575 (\$000) (\$000) 	11,867 13,481 6,506 97,343 250 97,093
7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3	Distribution switchgear Other network assets System growth and asset replacement and renewal expenditure less Capital contributions funding system growth and asset replacement and renewal System growth and asset replacement and renewal less capital contributions 6a(v): Asset Relocations Project or programme* Friedude additional rows if needed	(80) 1,590 27,515 (60) 27,575 (\$000) 	11,867 13,481 6,506 97,343 250 97,093
7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4	Distribution switchgear Other network assets System growth and asset replacement and renewal expenditure less Capital contributions funding system growth and asset replacement and renewal System growth and asset replacement and renewal less capital contributions 6a(v): Asset Relocations Project or programme*	(80) 1,590 27,515 (60) 27,575 (\$000) 	11,867 13,481 6,506 97,343 250 97,093 (\$000)
678901234567890123455	Distribution switchgear Other network assets System growth and asset replacement and renewal expenditure Capital contributions funding system growth and asset replacement and renewal System growth and asset replacement and renewal less capital contributions	(80) 1,590 27,515 (60) 27,575 (\$000) 	11,867 13,481 6,506 97,343 250 97,093 (\$000)
7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4	Distribution switchgear Other network assets System growth and asset replacement and renewal expenditure less Capital contributions funding system growth and asset replacement and renewal System growth and asset replacement and renewal less capital contributions 6a(v): Asset Relocations Project or programme*	(80) 1,590 27,515 (60) 27,575 (\$000) 	11,867 13,481 6,506 97,343 250 97,093

			Company Name	Vector	
			For Year Ended	31 March 20)19
S	CHEDULE 6a: REP	PORT ON CAPITAL EXPENDITURE FOR THE	DISCLOSURE YEAR		
		kdown of capital expenditure on assets incurred in the disclosure ye			are received, but
		ed assets. Information on expenditure on assets must be provided or ry comment on their expenditure on assets in Schedule 14 (Explanat		and must exclude finance costs.	
		lited disclosure information (as defined in section 1.4 of the ID deter		the assurance report required by	section 2.8.
cob r	of				
sch ro 68	=]				
69	6a(vi): Quality o	fSupply			
70	Project or	programme*	1	(\$000)	(\$000)
71 72				-	
73				-	
74				-	
75	# in stude	additional moves 16 monded	J		
76 77		additional rows if needed projects programmes - quality of supply		3,044	
78		pply expenditure			3,044
79		ntributions funding quality of supply		-	
80	Quality of su	pply less capital contributions			3,044
81	6a(vii): Legislativ	ve and Regulatory			
82		programme*		(\$000)	(\$000)
83 84					
84 85					
86				-	
87				-	
88 89		additional rows if needed		954	
90		projects or programmes - legislative and regulatory nd regulatory expenditure		534	954
91		ntributions funding legislative and regulatory		94	
92	Legislative a	nd regulatory less capital contributions			860
93	6a(viii): Other R	eliability, Safety and Environment			
94	Project or	programme*	1	(\$000)	(\$000)
95 96					
97					
98				-	
99	* in stude	additional moves 16 monded	l		
100 101		additional rows if needed projects or programmes - other reliability, safety and environment		12,102	
102		lity, safety and environment expenditure			12,102
103		ntributions funding other reliability, safety and environment		-	
104 105	Other reliabi	lity, safety and environment less capital contributions		I	12,102
105					
106	6a(ix): Non-Net				
107 108	Routine exp Project or	enditure • programme*		(\$000)	(\$000)
109		· · ·			
110					
111 112					
112					
114		additional rows if needed			
115 116		projects or programmes - routine expenditure		18,304	19 204
116	Routine expe				18,304
117 118	Atypical exp	enditure * programme*		(\$000)	(\$000)
118	Project of	programme		-	(2000)
120				-	
121					
122 123					
123	* include	additional rows if needed			
125		projects or programmes - atypical expenditure		9,506	
126	Atypical expe	enditure			9,506
127 128	Expenditure	on non-network assets			27,810
	ponental C				_,,010

		Company Name	Vect	tor
		For Year Ended	31 Marc	h 2019
	S	CHEDULE 6b: REPORT ON OPERATIONAL EXPENDITURE FOR THE DISCLOSURE YEAR		<u>ı</u>
	-	is 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 explanator	ry comment on any a	typical
		erational expenditure and assets replaced or renewed as part of asset replacement and renewal operational expenditure, and additional informat		
	Th	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 repor	t required by section	2.8.
	ch re	of the second		
5				
	7	6b(i): Operational Expenditure	(\$000)	(\$000)
	8	Service interruptions and emergencies	11,557	
	9	Vegetation management	7,461	
	10	Routine and corrective maintenance and inspection	13,741	
	11	Asset replacement and renewal	13,231	
	12	Network opex		45,990
	13	System operations and network support	39,412	
	14	Business support	36,559	
	15	Non-network opex	L	75,971
	16		_	
	17	Operational expenditure	L	121,961
	10	6b(ii): Subcomponents of Operational Expenditure (where known)		
	18		F	
	19	Energy efficiency and demand side management, reduction of energy losses	-	
	20	Direct billing*	-	-
	21	Research and development	-	-
	22 23	Insurance * Direct billing expenditure by suppliers that directly bill the majority of their consumers		2,818
1	23	Direct uning expenditure by suppliers that airectly bill the majority of their consumers		

Company Name

Vector

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.

7	7(i): Revenue	Target (\$000) ¹	Actual (\$000)	% variance
8		618,791	632,109	2%
Ū		010,751	002,105	270
9	7(ii): Expenditure on Assets	Forecast (\$000) ²	Actual (\$000)	% variance
10	Consumer connection	65,603	70,729	8%
11	System growth	46,516	27,515	(41%)
12	Asset replacement and renewal	86,096	97,343	13%
13	Asset relocations	19,386	18,870	(3%)
14	Reliability, safety and environment:			
15	Quality of supply	1,143	3,044	166%
16	Legislative and regulatory	373	954	156%
17	Other reliability, safety and environment	3,354	12,102	261%
18	Total reliability, safety and environment	4,870	16,100	231%
19	Expenditure on network assets	222,471	230,557	4%
20	Expenditure on non-network assets	18,706	27,810	49%
21	Expenditure on assets	241,177	258,367	7%
22	7(iii): Operational Expenditure			
23	Service interruptions and emergencies	12,242	11,557	(6%)
24	Vegetation management	6,170	7,461	21%
25	Routine and corrective maintenance and inspection	15,507	13,741	(11%)
26	Asset replacement and renewal	14,935	13,231	(11%)
27	Network opex	48,854	45,990	(6%)
28	System operations and network support	37,729	39,412	4%
29	Business support	41,212	36,559	(11%)
30	Non-network opex	78,941	75,971	(4%)
31	Operational expenditure	127,795	121,961	(5%)
32	7(iv): Subcomponents of Expenditure on Assets (where known)			
33	Energy efficiency and demand side management, reduction of energy losses	-	-	-
34	Overhead to underground conversion	6,269	6,231	(1%)
35	Research and development	2,854	3,445	21%
36				
37	7(v): Subcomponents of Operational Expenditure (where known)		
38	Energy efficiency and demand side management, reduction of energy losses	-	-	-
39	Direct billing	-	-	-
40	Research and development	-	-	-
41	Insurance	2,762	2,818	2%
42				
43	1 From the nominal dollar target revenue for the disclosure year disclosed under clause 2.4.	3(3) of this determind	ntion	
	2 From the CY+1 nominal dollar expenditure forecasts disclosed in accordance with clause 2 disclosure year (the second to last disclosure of Schedules 11a and 11b)	.6.6 for the forecast p	period starting at the	beginning of the
44	disclosure year (the second to last disclosure of Schedules 11a and 11b)			

		QUANTITIES AND LIN											For Year Ended -Network Name		Vector Ltd 31 March 201 Combined
le requires the	billed quantities and associ	ated line charge revenues for each	price category code used by the E	DB in its pricing schedules. In	nformation is also required	the number of ICPs that are included in each consumer group or price category	code, and the ener	gy delivered to these	ICPs.						
(i): Billed (Quantities by Price C	omponent													
							Billed quantities by	price component							
						Price component	FIXD	AICO	24UC	OFPK	PEAK	CAPY	DAMD	DEXA	PWRF
Cons	sumer group name or price category code	Consumer type or types (eg, residential, commercial etc.)	Standard or non-standard consumer group (specify)	Average no. of ICPs in disclosure year	Energy delivered to ICPs in disclosure year (MWh)	Unit charging basis (eg, days, kW of demand, kVA of capacity, etc.)	Day	kWh	kWh	kWh	kWh	kVA/Day	kVA/Day	kVA/Day	kVAr/Day
ARCI		residential	Standard	128.985	695.931	r	47.030.920	695,930,931	-	r		-	1		
ARCL		residential	Standard	128,985	780.220		47,030,920	780,219,645		-			-		
ARUL		residential	Standard	28,145	110,915		10,239,770	-	110,915,110	-	-	-	-	-	-
ARUS		residential	Standard	16,189	121,152		5,911,343	-	121,151,805	-	-	-	-	-	-
ARHL		residential	Standard	1,614	8,034	-	593,331	-	-	5,591,768	2,442,488	-	-	-	-
ARHS		residential residential	Standard	715 25,852	7,417	-	266,383 9.446.196	-	- 126.964.117	5,148,016	2,269,271	-	-	-	-
ARGS		residential	Standard	13,857	126,964	-	5.084.066	_	128,984,117	_		_	-	_	_
ABSN	l	business	Standard	35,924	741,124		13,104,408	-	741,123,793	-	-	-	-	-	-
ABSU		business	Standard	1,727	30,903		25,208,493	-	30,903,073	-	-	-	-	-	-
ABSH		business	Standard	295	20,714	-	115,678	-	-	13,288,815	7,425,447	-	-	-	-
ALVN		low voltage	Standard Standard	2,171	234,196 551,525	-	792,243	-	234,196,286 551,524,808	-		117,063,480 132,609,205	46,981,744	-	398,271 4,416,515
ATXN	1	transformer	Standard	1,438	22,392	-	58,563	-	22,392,220	_		13,246,112	40,581,744	_	31,188
ATXT		transformer	Standard	911	1,143,990		-	-	1,143,990,012	-	-	235,453,671	90,568,763	-	4,588,393
AHV		high voltage	Standard	8	652		2,786	-	651,613	-	-	526,767	-	-	5,427
AHVI		high voltage residential	Standard Standard	139 88,527	451,249 489,194	-	- 32,298,369	- 489,193,810	451,249,487	-	-	59,177,846	33,974,318	184,940	1,465,070
WRC		residential	Standard	66,140	489,194 666,272	-	24,191,885	489,193,810		-		-	-		
WRU		residential	Standard	14,179	71,366		5,150,421	-	71,366,188	-	-	-	-	-	-
WRU	-	residential	Standard	15,739	125,602		5,758,409	-	125,601,721	-	-	-	-	-	-
WRH		residential	Standard	1,308	7,265		482,487	-	-	5,119,057	2,145,549	-	-	-	-
WRH		residential residential	Standard Standard	847 11,089	9,410 54.807		314,498 4,043,760	-	- 54.806.682	6,599,442	2,810,098	-	-	-	-
WRG	-	residential	Standard	6,506	61,222		2,379,585	-	61,222,007	-	-	-	-	-	-
WBS		business	Standard	21,989	385,926		8,013,046	-	385,925,655	-	-	-	-	-	-
WBS		business	Standard	623	19,151		15,521,309	-	19,150,994	-	-	-	-	-	-
WBS		business	Standard	174	11,720		65,976	-	-	6,920,658	4,799,012	-	-	-	-
WLV		low voltage	Standard Standard	859 248	120,549 126,331		312,811 90,384	-	120,549,203	-	-	45,649,858 22,113,483	9,649,555	-	325,092
WTX		transformer	Standard	126	37,080		46,080	-	37,079,917	-	-	11,194,570	5,045,000	-	179,524
WTX		transformer	Standard	275	365,461		100,469	-	365,461,099	-	-	75,854,846	29,478,407	-	1,617,053
WHV		high voltage	Standard	-	-		-	-	-	-	-	-	-	-	-
WHV	н	high voltage	Standard	23	129,970		8,395	-	129,969,643	-	-	14,288,020	9,096,284	103,603	238,763
NS	the second for a diffetor of	non-standard	Non-standard	30	623,190		1,338	-	-	-	-	-	-	-	9,580
Add e	extru rows for additional cons	umer groups or price category code	s as necessary Standard consumer totals	565,170	7,872,513	Г	245,324,078	2,631,616,441	5,176,335,395	42,667,756	21,891,865	727,177,858	219,749,071	288,543	13,978,029
			Non-standard consumer totals	305,170			1,338	-	-	-	-	-	-	-	9,580
			Total for all consumers	565,200	8,495,703		245,325,416	2,631,616,441	5,176,335,395	42,667,756	21,891,865	727,177,858	219,749,071	288,543	13,987,609

	D QUANTITIES AND LIN												Network / Sub-	For Year Ended Network Name		31 March 20 Combined
	ociated line charge revenues for each	n price category code used by the I	EDB in its pricing schedules. I	nformation is also required on	the number of ICPs that are inc	luded in each consu	mer group or price category	y code, and the ener	gy delivered to thes	e ICPs.						
								Line charge revenu	es (\$000) by price c	omponent						
							Price component	FIXD	AICO	24UC	OFPK	PEAK	САРУ	DAMD	DEXA	PWRF
Consumer group name or pric category code	e Consumer type or types (eg, residential, commercial etc.)	Standard or non-standard consumer group (specify)	Total line charge revenue in disclosure year	Notional revenue foregone from posted discounts (if applicable)	Total distribution line charge revenue	Total transmission line charge revenue (if available)	Rate (eg, \$ per day, \$ per kWh, etc.)	Day	kWh	kWh	kWh	kWh	kVA/Day	kVA/Day	kVA/Day	kVAr/Day
ARCL	residential	Standard	\$72,688		\$53,179	\$19,509		\$7,055	\$65,633	-	-	-	-	-	-	-
ARCS	residential	Standard	\$71,977		\$50,105	\$21,872		\$28,982	\$42,995	-	-	-	-	-	-	-
ARUL	residential	Standard	\$12,839		\$8,939	\$3,900		\$1,536	-	\$11,303	-	-	-	-	-	-
ARUS	residential residential	Standard Standard	\$13,568 \$840		\$9,308	\$4,260 \$219		\$5,971 \$89	-	\$7,597	\$360	\$391	-	-		-
ARHS	residential	Standard	\$673		\$470	\$203		\$269	-	-	\$130	\$274	_	-	-	-
ARGL	residential	Standard	\$13,391		\$9,832	\$3,559		\$1,417	-	\$11,974	-	-	-	-	-	-
ARGS	residential	Standard	\$13,060		\$9,029	\$4,031		\$5,135	-	\$7,925	-	-	-	-	-	-
ABSN ABSU	business business	Standard Standard	\$59,710		\$33,653 \$4,841	\$26,057 \$1,087		\$13,237 \$3,782	-	\$46,473 \$2,146	-	-	-	-	-	-
ABSH	business	Standard	\$5,928 \$1,348		\$683	\$1,087		\$117	-	\$2,140	\$335	\$896	-	-	-	-
ALVN	low voltage	Standard	\$21,090		\$16,018	\$5,072		\$1,394	-	\$14,733	-	-	\$4,847	-	-	\$11
ALVT	low voltage	Standard	\$29,679		\$19,085	\$10,594		-	-	\$7,502	-	-	\$5,491	\$15,398	-	\$1,28
ATXN	transformer transformer	Standard Standard	\$2,026		\$1,541 \$34,833	\$485 \$20,422		\$100	-	\$1,380 \$15,331	-	-	\$537 \$9,537	- \$29,048	-	\$ \$1,33
AHVN	high voltage	Standard	\$55,255 \$67		\$34,833	\$20,422		- \$5	-	\$15,331 \$39	-		\$9,537	\$29,048 -		\$1,33
AHVT	high voltage	Standard	\$19,330		\$11,669	\$7,661		-	-	\$5,867	-	-	\$2,326	\$10,550	\$160	\$42
WRCL	residential	Standard	\$50,960		\$37,246	\$13,714		\$4,843	\$46,117	-	-	-	-	-	-	-
WRCS	residential	Standard Standard	\$61,128 \$8,042		\$42,450	\$18,678 \$2,509		\$24,427 \$772	\$36,701	- \$7,270	-	-	-	-	-	-
WRUS	residential	Standard	\$13,687		\$9,271	\$4,416		\$5.814	-	\$7,270	-		_	-		-
WRHL	residential	Standard	\$745		\$553	\$192		\$72	-	-	\$330	\$343	-	-	-	-
WRHS	residential	Standard	\$820		\$568	\$252		\$318	-	-	\$166	\$336	-	-	-	-
WRGL	residential	Standard	\$5,773 \$5,775		\$4,237 \$4,059	\$1,536 \$1,716		\$606 \$2,403		\$5,167 \$3.372	-			-	-	-
WBSN	business	Standard	\$32,281		\$4,059	\$1,716 \$13,569		\$2,403	-	\$3,372	-		-	-		-
WBSU	business	Standard	\$3,657		\$2,984	\$673		\$2,328	-	\$1,329	-	-	-	-	-	-
WBSH	business	Standard	\$820		\$390	\$430		\$67	-	-	\$174	\$579	-	-	-	-
WLVN	low voltage low voltage	Standard Standard	\$8,771		\$6,160 \$3,439	\$2,611 \$2,176		\$1,926 \$1,049	-	\$5,230 \$733	-	-	\$1,520 \$736	- \$2,889	-	\$9 \$20
WEVH	transformer	Standard	\$5,615 \$2,115		\$3,439	\$2,176		\$1,049 \$255	-	\$733 \$1,442	-	-	\$736 \$366	\$2,889	-	\$20
WTXH	transformer	Standard	\$14,728		\$8,081	\$6,647		\$1,050	-	\$2,083	-	-	\$2,480	\$8,643	-	\$47
WHVN	high voltage	Standard	-		-	-		-	-	-	-	-	-	-	-	-
WHVH	high voltage	Standard Non standard	\$3,978		\$1,927	\$2,051 \$8,728		\$85 \$19,610	-	\$715	-	-	\$453	\$2,583	\$72	\$7
Add extra rows for additional o	non-standard onsumer groups or price category cod	Non-standard	\$19,745		\$11,017	\$8,728		\$19,610	-	-	-	-	-	-	-	\$13
	g	Standard consumer totals	\$612,364	-	\$410,781	\$201,583]	\$123,195	\$191,446	\$191,674	\$1,495	\$2,819	\$28,314	\$69,111	\$232	
		Non-standard consumer totals	\$19,745	-	\$11,017	\$8,728		\$19,610	-	-	-	-	-	-	-	\$13
		Total for all consumers	\$632,109	-	\$421,798	\$210,311		\$142,805	\$191,446	\$191,674	\$1,495	\$2,819	\$28,314	\$69,111	\$232	\$4,21
Number of ICBs directly	billed															
: Number of ICPs directly Number of directly billed ICPs		43	1		Check	OK										

												C	Company Name		Vector Ltd	
													For Year Ended		31 March 2019	9
												Network / Sub-	Network Name		Southern	
		D QUANTITIES AND L sociated line charge revenues for ea			Information is also required	on the number of ICPs that are included in each consumer group or price categ	ory code, and the en	ergy delivered to the	ese ICPs.							
8(i): Bi	illed Quantities by Price	Component														
							Billed quantities b	y price component								4
						Price componen	t FIXD	AICO	24UC	OFPK	PEAK	CAPY	DAMD	DEXA	PWRF	
	Consumer group name or pric category code	e Consumer type or types (eg, residential, commercial etc.)	Standard or non-standard consumer group (specify)	Average no. of ICPs in disclosure year	Energy delivered to ICPs in disclosure year (MWh)	Unit charging basis (eg. days, kW of demand, kVA of capacity, etc.)	Day	kWh	kWh	kWh	kWh	kVA/Day	kVA/Day	kVA/Day	kVAr/Day	Ad colu additu quanti com
	1		The second s						1							<i>n</i>
	ARCL	residential residential	Standard Standard	128,985	695,931		47,030,920	695,930,931	-	-	-	-	-	-	-	_
	ARUL	residential	Standard	78,388	780,220		28,692,014	780,219,645	- 110.915.110	-	-	-	-	-	-	-
	ARUS	residential	Standard	28,145 16,189	110,915 121,152		10,239,770 5,911,343	-	110,915,110	-	-	-	-	-		-
	ARHI	residential	Standard	1,614	8,034		593.331	_	121,151,805	5.591.768	2.442.488	-	-	_	_	-
	ARHS	residential	Standard	715	7.417		266.383		_	5,148.016	2,269.271	_	_	_		-
	ARGI	residential	Standard	25.852	126,964		9,446,196		126,964,117	5,140,010	-	_	_	-		-
	ARGS	residential	Standard	13.857	143.809		5.084.066	-	143.809.071	-	-	-	-	-	-	-
	ABSN	business	Standard	35,924	741,124		13,104,408	-	741,123,793	-	-	-	-	-	-	1
	ABSU	business	Standard	1,727	30,903		25,208,493	-	30,903,073	-	-	-	-	-	-	1
	ABSH	business	Standard	295	20,714		115,678	-	_	13,288,815	7,425,447	-	-	-	-	
	ALVN	low voltage	Standard	2,171	234,196		792,243	-	234,196,286	-	-	117,063,480	-	-	398,271	
	ALVT	low voltage	Standard	1,438	551,525		-	-	551,524,808	-	-	132,609,205	46,981,744	-	4,416,515	
	ATXN	transformer	Standard	160	22,392		58,563	-	22,392,220	-	-	13,246,112	-	-	31,188	
	ATXT	transformer	Standard	911	1,143,990		-	-	1,143,990,012	-	-	235,453,671	90,568,763	-	4,588,393	
	AHVN	high voltage	Standard	8	652		2,786	-	651,613	-	-	526,767	-	-	5,427	
	AHVT	high voltage	Standard	139	451,249		-	-	451,249,487	-	-	59,177,846	33,974,318	184,940	1,465,070	
	NS	non-standard	Non-standard	26	523,778		9,338	-	-	-	-	-	-	-	7,998	_
	Add extra rows for additional co	insumer groups or price category co					-									4
			Standard consumer totals		5,191,187		146,546,194	1,476,150,576	3,678,871,395	24,028,599	12,137,206	558,077,081	171,524,825	184,940	10,904,864	
			Non-standard consumer totals Total for all consumers	1	523,778 5,714,965		9,338	- 1.476.150.576	- 3.678.871.395	- 24.028.599	- 12.137.206	-	- 171,524,825	- 184.940	7,998 10,912,862	

8: REPORT OF	N BILLED QUANTITIES AND L	INF CHARGE REVENU	IFS										Network / Sub-	For Year Ended Network Name	:	31 March 201 Southern
	ies and associated line charge revenues for e			. Information is also require	d on the number of ICPs that	are included in each	consumer group or price categ	ory code, and the ene	rgy delivered to thes	e ICPs.						
ne Charge Reve	nues (\$000) by Price Component															
								Line charge revenu	es (\$000) by price cor	mponent						
							Price component	t FIXD	AICO	24UC	OFPK	PEAK	CAPY	DAMD	DEXA	PWRF
Consumer group na category co	me or price Consumer type or types (eg, de residential, commercial etc.)	Standard or non-standard consumer group (specify)	Total line charge revenue in disclosure year	Notional revenue foregone from posted discounts (if applicable)	Total distribut line charge revenue		Rate (eg, \$ per day, \$ pe kWh, etc.		kWh	kWh	kWh	kWh	kVA/Day	kVA/Day	kVA/Day	kVAr/Day
ARCI	residential	Standard	\$72,688		\$53.	179 \$19	500	\$7.055	\$65,633	-	-	-	-	-	-	
ARCS	residential	Standard	\$72,088		\$50,			\$28,982	\$42,995	-	-	-	-	-	-	
ARUL	residential	Standard	\$12,839		\$8,			\$1,536	-	\$11,303	-	-	-	-	-	-
ARUS	residential	Standard	\$13,568		\$9.			\$5,971	-	\$7,597	-	_	-	-	-	-
ARHL	residential	Standard	\$840		\$		219	\$89	-	-	\$360	\$391	-	-	-	-
ARHS	residential	Standard	\$673		\$	170 \$	203	\$269	-	-	\$130	\$274	-	-	-	-
ARGL	residential	Standard	\$13,391		\$9,			\$1,417	-	\$11,974	-	-	-	-	-	-
ARGS	residential	Standard	\$13,060		\$9,			\$5,135	-	\$7,925	-	-	-	-	-	-
ABSN	business	Standard	\$59,710		\$33,			\$13,237	-	\$46,473	-	-	-	-	-	-
ABSU	business	Standard	\$5,928		\$4,			\$3,782	-	\$2,146	-	-	-	-	-	-
ABSH	business	Standard	\$1,348				665	\$117	-	-	\$335	\$896	-	-	-	-
ALVT	low voltage low voltage	Standard Standard	\$21,090 \$29,679		\$16,			\$1,394	-	\$14,733 \$7,502	-	-	\$4,847 \$5,491	- \$15,398	-	\$110 \$1,28
ATXN	transformer	Standard	\$2,026		\$19,		485	\$100	-	\$1,380	-	-	\$537	\$15,598	-	\$1,26
ATXT	transformer	Standard	\$55,255		\$34,			-	-	\$15,331	-	-	\$9,537	\$29,048	-	\$1,33
AHVN	high voltage	Standard	\$67				\$14	\$5	-	\$39	-	-	\$21	-	-	\$2
AHVT	high voltage	Standard	\$19,330		\$11,	569 \$7,	661	-	-	\$5,867	-	-	\$2,326	\$10,550	\$160	\$42
NS	non-standard	Non-standard	\$16,956		\$9,	171 \$7	785	\$16,898	-	-	-	-	-	-	-	\$5
Add extra rows for a	lditional consumer groups or price category co	des as necessary														
		Standard consumer total		-	\$263,			\$69,089	\$108,628	\$132,270	\$825	\$1,561	\$22,759	\$54,996	\$160	\$3,18
		Non-standard consumer total		-	\$9,			\$16,898	-	-	-	-	-	-	-	\$51
		Total for all consumer	s \$410,425	-	\$273,	30 \$137	395	\$85,987	\$108,628	\$132,270	\$825	\$1,561	\$22,759	\$54,996	\$160	\$3,23
umber of ICPs of						leck	OK									

												(Company Name		Vector Ltd	
													For Year Ended		31 March 2019	9
												Network / Sub-	Network Name		Northern	-
		ED QUANTITIES AND LI ssociated line charge revenues for ea			Information is also required	on the number of ICPs that are included in each consumer group or price categ	ory code, and the en	ergy delivered to the	ese ICPs.							
8(i): Bil	lled Quantities by Price	e Component														
							Billed quantities b	y price component								_
						Price componen	t FIXD	AICO	24UC	ОГРК	PEAK	САРУ	DAMD	DEXA	PWRF	
	Consumer group name or pri category code	ce Consumer type or types (eg, residential, commercial etc.)	Standard or non-standard consumer group (specify)	Average no. of ICPs in disclosure year	Energy delivered to ICPs in disclosure year (MWh)	Unit charging basis (eg. days, kW of demand, kVA of capacity, etc.)	Day	kWh	kWh	kWh	kWh	kVA/Day	kVA/Day	kVA/Day	kVAr/Day	Ac col addit quanti com
	lune	residential	L													ne
	WRCL WRCS	residential	Standard	88,527	489,194		32,298,369 24.191.885	489,193,810 666,272,055	-	-	-	-	-	-	-	
	WRUL	residential	Standard	14,179	666,272 71,366		5,150,421	666,272,055	71,366,188	-	-	-	-	-		-
	WRUS	residential	Standard Standard	14,179	125,602		5,150,421		125,601,721	-	-	-	_	-		-
	WRHL	residential	Standard	1,308	7,265		482,487		123,001,721	5,119,057	2.145.549	_	-	-		-
	WRHS	residential	Standard	847	9,410		314,498			6,599,442	2,810,098	-	_	-		-
	WRGI	residential	Standard	11.089	54.807		4.043.760		54.806.682	-	2,010,050	-	_	-		-
	WRGS	residential	Standard	6,506	61,222		2.379.585	-	61,222,007	_	-	-	-	-	-	-
	WBSN	business	Standard	21,989	385,926		8,013,046	-	385,925,655	-	-	-	-	-	-	1
	WBSU	business	Standard	623	19,151		15,521,309	-	19,150,994	-	-	-	-	-	-	1
	WBSH	business	Standard	174	11,720		65,976	-	-	6,920,658	4,799,012	-	-	-	-	
	WLVN	low voltage	Standard	859	120,549		312,811	-	120,549,203	-	-	45,649,858	-	-	325,092	
	WLVH	low voltage	Standard	248	126,331		90,384	-	126,330,891	-	-	22,113,483	9,649,555	-	712,733	
	WTXN	transformer	Standard	126	37,080		46,080	-	37,079,917	-	-	11,194,570	-	-	179,524	
	WTXH	transformer	Standard	275	365,461		100,469	-	365,461,099	-	-	75,854,846	29,478,407	-	1,617,053	
	WHVN	high voltage	Standard	-	-		-	-	-	-	-	-	-	-	-	
	WHVH	high voltage	Standard	23	129,970		8,395	-	129,969,643	-	-	14,288,020	9,096,284	103,603	238,763	
	NS	non-standard	Non-standard	4	99,412		1,338	-	-	-	-	-	-	-	9,580	
	Add extra rows for additional	consumer groups or price category coo		· · · · · · · · · · · · · · · · · · ·												4
			Standard consumer totals	228,652	2,681,326		98,777,884	1,155,465,865	1,497,464,000	18,639,157	9,754,659	169,100,777	48,224,246	103,603	3,073,165	
			Non-standard consumer totals		99,412		1,338	-	-	-	-	-	-	-	9,580	
			Total for all consumers	228,656	2,780,738		98,779,222	1,155,465,865	1,497,464,000	18,639,157	9,754,659	169,100,777	48,224,246	103,603	3,082,745	

8: REPORT ON BILLEE	QUANTITIES AND LI	NE CHARGE REVENU	ES										Network / Sub-	For Year Ended Network Name		31 March 201 Northern
quires the billed quantities and asso		h price category code used by th	e EDB in its pricing schedules	. Information is also required	on the number of ICPs that are i	ncluded in each con	sumer group or price catego	ry code, and the ene	rgy delivered to thes	e ICPs.						
ine Charge Revenues (\$00	00) by Price Component							line alterna anti-	es (\$000) by price cor							
								Line charge revenue	es (\$000) by price cor	nponent						
							Price component	FIXD	AICO	24UC	OFPK	PEAK	CAPY	DAMD	DEXA	PWRF
Consumer group name or price category code	Consumer type or types (eg, residential, commercial etc.)	Standard or non-standard consumer group (specify)	Total line charge revenue in disclosure year	Notional revenue foregone from posted discounts (if applicable)	Total distribution line charge revenue	Total transmission line charge revenue (if available)	Rate (eg, \$ per day, \$ per kWh, etc.)	Day	kWh	kWh	kWh	kWh	kVA/Day	kVA/Day	kVA/Day	kVAr/Day
WRCL	residential	Standard	\$50,960		\$37.246	\$13,714	1	\$4,843	\$46.117	- 1	-	-	-	-	-	_
WRCS	residential	Standard	\$61,128		\$42,450	\$18,678		\$24,427	\$36,701	_	-	-	_	-		-
WRUL	residential	Standard	\$8,042		\$5,533	\$2,509		\$772	-	\$7,270	-	-	_	_	-	-
WRUS	residential	Standard	\$13,687		\$9,271	\$4,416		\$5,814	_	\$7,873	-	-	-	_	-	-
WRHL	residential	Standard	\$745		\$553	\$192		\$72	-	-	\$330	\$343	-	-	-	-
WRHS	residential	Standard	\$820		\$568	\$252		\$318	-	-	\$166	\$336	-	-	-	-
WRGL	residential	Standard	\$5,773		\$4,237	\$1,536		\$606	-	\$5,167	-	-	-	-	-	-
WRGS	residential	Standard	\$5,775		\$4,059	\$1,716	_	\$2,403	-	\$3,372	-	-	-	-	-	-
WBSN	business	Standard	\$32,281		\$18,712	\$13,569	_	\$8,091	-	\$24,190	-	-	-	-	-	-
WBSU	business	Standard	\$3,657		\$2,984	\$673		\$2,328	-	\$1,329	-	-	-	-	-	-
WBSH WLVN	business	Standard Standard	\$820		\$390	\$430		\$67	-	-	\$174	\$579	-	-		-
WLVH	low voltage low voltage	Standard	\$8,771 \$5,615		\$6,160 \$3,439	\$2,611 \$2,176		\$1,926 \$1,049	-	\$5,230 \$733	-	-	\$1,520 \$736	- \$2,889	-	\$95
WIXN	transformer	Standard	\$2,115		\$3,439	\$2,176		\$1,049	-	\$1,442	-	-	\$736	\$2,689		\$208
WTXH	transformer	Standard	\$14,728		\$8,081	\$6,647		\$1,050	-	\$2,083	_	_	\$2,480	\$8,643		\$472
WHVN	high voltage	Standard	-		-	-		-	-	-	-	-	-	-	-	-
WHVH	high voltage	Standard	\$3,978		\$1,927	\$2,051		\$85	-	\$715	-	-	\$453	\$2,583	\$72	\$70
NS	non-standard	Non-standard	\$2,789		\$1,846	\$943		\$2,712	-	-	-	-	-	-	_	\$77
Add extra rows for additional cons	umer groups or price category cod	is as necessary					_									
		Standard consumer totals		-	\$146,922	\$71,973		\$54,106	\$82,818	\$59,404	\$670	\$1,258	\$5,555	\$14,115	\$72	
		Non-standard consumer totals		-	\$1,846	\$943		\$2,712	-	-	-	-	-	-	-	\$77
		Total for all consumers	\$221,684	-	\$148,768	\$72,916		\$56,818	\$82,818	\$59,404	\$670	\$1,258	\$5,555	\$14,115	\$72	\$974
Number of ICPs directly b						OK										

Company Name	Vector
For Year Ended	31 March 2019
Network / Sub-network Name	Combined
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.

					Items at start of	Items at end of		Data accuracy
8	Voltage	Asset category	Asset class	Units	year (quantity)	year (quantity)	Net change	(1-4)
9	All	Overhead Line	Concrete poles / steel structure	No.	113,999	115,938	1,939	3
10	All	Overhead Line	Wood poles	No.	6,678	6,171	-507	2
11	All	Overhead Line	Other pole types	No.	598	831	233	4
12	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	370	369.343	0	4
13	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km	27	26.605	0	4
14	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km	346	348.473	2	4
15	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km	145	144.896	0	4
16	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressurised)	km	2	2.415	0	4
17	HV	Subtransmission Cable	Subtransmission UG up to 66kV (PILC)	km	50	49.736	0	4
18	HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	km	30	30.319	0	4
19	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Oil pressurised)	km	17	17.143	0	4
20	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Gas Pressurised)	km	0	0	0	N/A
21	HV	Subtransmission Cable	Subtransmission UG 110kV+ (PILC)	km	0	0.004	0	4
22	HV	Subtransmission Cable	Subtransmission submarine cable	km	12	11.674	0	4
23	HV	Zone substation Buildings	Zone substations up to 66kV	No.	99	101	2	4
24	HV	Zone substation Buildings	Zone substations 110kV+	No.	6	6	0	4
25	HV	Zone substation switchgear	50/66/110kV CB (Indoor)	No.	20	20	0	4
26	HV	Zone substation switchgear	50/66/110kV CB (Outdoor)	No.	2	2	0	4
27	HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No.	0	0	0	N/A
28	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.	301	245	-56	4
29	HV	Zone substation switchgear	33kV RMU	No.	9	9	0	4
30	HV	Zone substation switchgear	22/33kV CB (Indoor)	No.	238	245	7	4
31	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.	158	130	-28	4
32	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.	1,369	1,330	-39	4 N/A
33	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.				
34	HV	Zone Substation Transformer	Zone Substation Transformers	No.	216 3,783	216 3,758.15	0 -25	4
35	HV	Distribution Line	Distribution OH Open Wire Conductor	km	3,783	3,/58.15	-25	3 N/A
36	HV HV	Distribution Line Distribution Line	Distribution OH Aerial Cable Conductor SWER conductor	km	0	0	0	N/A N/A
37 38	HV			km	1.449	1.509.60	60	4
30 39	HV	Distribution Cable Distribution Cable	Distribution UG XLPE or PVC Distribution UG PILC	km km	2,206	2,201.01	-5	4
39 40	HV	Distribution Cable	Distribution Submarine Cable	km	8	8.146	0	4
40	HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers	No.	252	261	9	4
42	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.	164	272	108	4
43	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	10,116	10,343	227	3
44	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	3,464	3.204	-260	3
45	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.	6,193	6,160	-33	4
46	HV	Distribution Transformer	Pole Mounted Transformer	No.	7,565	7,577	12	4
47	HV	Distribution Transformer	Ground Mounted Transformer	No.	14,098	14,317	219	4
48	HV	Distribution Transformer	Voltage regulators	No.	12	11	-1	4
49	HV	Distribution Substations	Ground Mounted Substation Housing	No.	12,656	12,847	191	3
50	LV	LV Line	LV OH Conductor	km	4,163	4,027.76	-135	3
51	LV	LV Cable	LV UG Cable	km	6,049	6,201.78	153	4
52	LV	LV Street lighting	LV OH/UG Streetlight circuit	km	450	463.171	13	3
53	LV	Connections	OH/UG consumer service connections	No.	561,233	568,897	7,664	4
54	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.	3,670	3,748	78	3
55	All	SCADA and communications	SCADA and communications equipment operating as a single system	Lot	312	332	20	2
56	All	Capacitor Banks	Capacitors including controls	No	91	77	-14	4
57	All	Load Control	Centralised plant	Lot	33	33	0	3
58	All	Load Control	Relays	No	0	0	0	N/A
59	All	Civils	Cable Tunnels	km	10	10.39	0	3

Company Name	Vector
For Year Ended	31 March 2019
Network / Sub-network Name	Southern
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.

					Items at start of	Items at end of		Data accuracy
8	Voltage	Asset category	Asset class	Units	year (quantity)	year (quantity)	Net change	(1-4)
9	All	Overhead Line	Concrete poles / steel structure	No.	48,797	49,982	1,185	3
10	All	Overhead Line	Wood poles	No.	4,179	3,868	(311)	2
11	All	Overhead Line	Other pole types	No.	362	407	45	4
12	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	51	51	0	4
13	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km	0		0	N/A
14	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km	204	205	0	4
15	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km	143	143	0	4
16	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressurised)	km	2	2		
17	HV	Subtransmission Cable	Subtransmission UG up to 66kV (PILC)	km	49 30	49 30	0	4
18	HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	km				
19	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Oil pressurised)	km	17	17	0	4 N/A
20	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Gas Pressurised)	km	0	0	0	N/A 4
21	HV	Subtransmission Cable	Subtransmission UG 110kV+ (PILC)	km			0	
22	HV	Subtransmission Cable	Subtransmission submarine cable	km	11	11		4
23	HV	Zone substation Buildings	Zone substations up to 66kV	No.	50	50	0	4
24	HV	Zone substation Buildings	Zone substations 110kV+	No.	5 20	5 20	0	4
25	HV	Zone substation switchgear	50/66/110kV CB (Indoor)	No.	-			
26	HV	Zone substation switchgear	50/66/110kV CB (Outdoor)	No.	0	0	0	N/A N/A
27	HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No.	0	0	0	
28	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.			0	N/A
29	HV	Zone substation switchgear	33kV RMU	No.	0	0	0	N/A
30	HV	Zone substation switchgear	22/33kV CB (Indoor)	No.	132	132	0	4
31	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.	0	0 833	-	N/A
32	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.	861		(28)	4
33	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.	0	0		N/A
34	HV	Zone Substation Transformer	Zone Substation Transformers	No.	129	129	0	4
35	HV	Distribution Line	Distribution OH Open Wire Conductor	km	892	885	-8	3
36	HV	Distribution Line	Distribution OH Aerial Cable Conductor	km	0	0	0	N/A
37	HV	Distribution Line	SWER conductor	km	0	0 674		N/A 4
38	HV	Distribution Cable	Distribution UG XLPE or PVC	km	636		38	
39	HV	Distribution Cable	Distribution UG PILC	km	1,579	1,576	(3) 0	4
40	HV	Distribution Cable	Distribution Submarine Cable	km		58	3	4
41	HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers	No.	55	216	3	4
42	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.	2,366	2,428	62	4
43	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	2,500	2,428	(225)	3
44	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	2,728	4,535	(225)	3
45	HV HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.	4,600	4,535	(65)	4
46 47	HV HV	Distribution Transformer	Pole Mounted Transformer	No.	6,776	6.893	(10)	4
		Distribution Transformer	Ground Mounted Transformer	No.	6,776	6,893	(1)	4
48 49	HV HV	Distribution Transformer Distribution Substations	Voltage regulators	No.	6,029	6,103	(1)	3
	HV LV	LV Line	Ground Mounted Substation Housing	No.	1,965	1,900	(65)	3
50 51	LV	LV Line LV Cable	LV OH Conductor LV UG Cable	km km	3,686	3,757	(65)	4
51	LV				255	3,757	/1	3
	LV	LV Street lighting	LV OH/UG Streetlight circuit	km	334,330	338,487	3,502	4
53		Connections	OH/UG consumer service connections	No.	2,026	2,080	3,502	3
54	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.	2,026	2,080	54	3
55	All	SCADA and communications	SCADA and communications equipment operating as a single system	Lot	23	130	(10)	4
56 57	All	Capacitor Banks	Capacitors including controls	No	23	22	(10)	3
57	All	Load Control Load Control	Centralised plant Relays	Lot No	0	0	0	3 N/A
58 59		Load Control Civils			10	10	0	3
59	All	CivilS	Cable Tunnels	km	10	10	U	

Company Name	Vector
For Year Ended	31 March 2019
Network / Sub-network Name	Northern
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.

					Items at start of	Items at end of		Data accuracy
8	Voltage	Asset category	Asset class	Units	year (quantity)	year (quantity)	Net change	(1-4)
9	All	Overhead Line	Concrete poles / steel structure	No.	65,202	65,956	754	3
10	All	Overhead Line	Wood poles	No.	2,499	2,303	(196)	2
11	All	Overhead Line	Other pole types	No.	236	424	188	4
12	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	319	318.46	0	4
13	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km	27	26.605	0	4
14	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km	142	143.627	2	4
15	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km	2	2.315	0	4
16	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressurised)	km	0	0	0	N/A
17	HV	Subtransmission Cable	Subtransmission UG up to 66kV (PILC)	km	1	1.023	0	4
18	HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	km	0	0	0	N/A
19	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Oil pressurised)	km	0	0	0	N/A
20	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Gas Pressurised)	km	0	0	0	N/A
21	HV	Subtransmission Cable	Subtransmission UG 110kV+ (PILC)	km	0	0	0	N/A
22	HV	Subtransmission Cable	Subtransmission submarine cable	km	1	0.895	0	4
23	HV	Zone substation Buildings	Zone substations up to 66kV	No.	49	51	2	4
24	HV	Zone substation Buildings	Zone substations 110kV+	No.	1	1	0	4
25	HV	Zone substation switchgear	50/66/110kV CB (Indoor)	No.	0	0	0	N/A
26	HV	Zone substation switchgear	50/66/110kV CB (Outdoor)	No.	2	2	0	4
27	HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No.	0	0	0	N/A
28	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.	301	245	(56)	4
29	HV	Zone substation switchgear	33kV RMU	No.	9	9	0	4
30	HV	Zone substation switchgear	22/33kV CB (Indoor)	No.	106	113	7	4
31	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.	158	130	(28)	4
32	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.	508	497	(11)	4
33	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.	0	0	0	N/A
34	HV	Zone Substation Transformer	Zone Substation Transformers	No.	87	87	0	4
35	HV	Distribution Line	Distribution OH Open Wire Conductor	km	2,891	2,873.44	(18)	3
36	HV	Distribution Line	Distribution OH Aerial Cable Conductor	km	0	0	0	N/A
37	HV	Distribution Line	SWER conductor	km	0	0	0	N/A
38	HV	Distribution Cable	Distribution UG XLPE or PVC	km	813	835.134	22	4
39	HV	Distribution Cable	Distribution UG PILC	km	627	624.961	(2)	4
40	HV	Distribution Cable	Distribution Submarine Cable	km	7	6.582	0	4
41	HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers	No.	197	203	6	4
42	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.	47	56	9	4
43	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	7,750	7,915	165	3
44	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	736	701	(35)	3
45	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.	1,593	1,625	32	4
46	HV	Distribution Transformer	Pole Mounted Transformer	No.	5,580	5,602	22	4
47	HV	Distribution Transformer	Ground Mounted Transformer	No.	7,322	7,424	102	4
48	HV	Distribution Transformer	Voltage regulators	No.	7	7	0	4
49	HV	Distribution Substations	Ground Mounted Substation Housing	No.	6,627	6,744	117	3
50	LV	LV Line	LV OH Conductor	km	2,197	2,127.89	(70)	3
51	LV	LV Cable	LV UG Cable	km	2,363	2,445.01	82	4
52	LV	LV Street lighting	LV OH/UG Streetlight circuit	km	195	202.785	8	3
53	LV	Connections	OH/UG consumer service connections	No.	226,903	230,410	3,507	4
54	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.	1,644	1,668	24	3
55	All	SCADA and communications	SCADA and communications equipment operating as a single system	Lot	140	152	12	2
56	All	Capacitor Banks	Capacitors including controls	No	68	64	(4)	4
57	All	Load Control	Centralised plant	Lot	11	11	0	3
58	All	Load Control	Relays	No	0	0	0	N/A N/A
59	All	Civils	Cable Tunnels	km	0	0	0	N/A

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																							Network /	Sub-netw	ork Name						Co	mbined					
s		E 9b: ASSET AGE PROFI	LE																																		
			based on year of installation) of the assets that make up the network, by	oy asset ca	ategory and ass	set class. All u	nits relatio	ng to cable and	l line assets,	that are ex	pressed in k	m, refer to cin	uit lengths.																								
sch ref		Disclosure Year (year ended)	31 March 2019								Number	of assets at d	rdorure vez	and by in	th noisellet	to																					
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0	Voltage	Asset category	Asset class U	Units p	19- are-1940 -19		196	50 1970 69 -1979	1980		2000	2001				vr 200	- 2007	2008 20						2015	2016	2017	2018	2010	2020	2021 2				age unknov		default D dates	Data accuracy (1-4)
10		Overhead Line	Concrete poles / steel structure	No.	13	307 5,2		5,923 16,59		10,012	575	754		813			,048 2,1				,202 1,4		,973 1,7				5,247	3,940	2020				- 1015		76 115.938	Gutes	3
11	All	Overhead Line	Wood poles	No.	4	10 :	149	459 50	623	887	191	50	72	90	43	99	150 1	2 67	55	116	15	27	34	28 1	7 8	3	22	31						2,5	6,171		2
12	All	Overhead Line	Other pole types	No.	0	0	0	0	0 0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	6 :	17 3	0 75	211	309	183							0 831		4
13	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	2	2	24	73 10	0 72	2	0	0	3	1	0	1	4	1 0	13	1	7	0	0	0	2 1	0	0	1							0 369		4
14	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km	0	0	0	7 1	2 0	0	0	0	0	0	0	0	0	7 0	0	0	0	0	0	0	0 0	0	0	0							0 27		4
15	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km	0	0	0	40 7	9 11	55	56	1	22	6	2	4	8	2 8	25	21	4	10	7	3 1	6 16	13	6	3							0 348		4
16	HV HV	Subtransmission Cable Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised) Subtransmission UG up to 66kV (Gas pressurised)	km	0	0	0	40 /	9 24	4	0	0	0	0	0	1	1	1 0	0	0	0	0	0	0	0 0	0	0	0				-			0 145		4
18	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressunsed) Subtransmission UG up to 66kV (PILC)	km	7	3	17	16	3 2	1	0	0	0	0	0	0	0	0 1	0	0	0	0	0	0	0 0	0	0	0						1	0 50		4
19	HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	km	0	0	0	0	0 0	8	0	0	18	0	0	1	0	0 0	0	0	2	0	0	0	0 0	0	0	0							0 30		4
20	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Oil pressurised)	km	0	0	0	11	0 5	0	0	0	0	0	0	1	0	0 0	0	0	0	0	0	0	0 0	0	0	0						1	0 17		4
21	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Gas Pressurised)	km	0	0	0	0	0 0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0	0	0 0	0	0	0							0 -		N/A
22	HV	Subtransmission Cable	Subtransmission UG 110kV+ (PILC)	km	0	0	0	0	0 0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0	0	0 0	0	0	0							0 0		4
23	HV	Subtransmission Cable	Subtransmission submarine cable	km	0	0	0	0	0 11	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0	0	0 0	0	0	0					_	-	0 12		4
24	HV	Zone substation Buildings	Zone substations up to 66kV	No.	0	1	4	23 2	6 18	10	3	1	0	2	0	0	1	1 3	1	2	2	0	0	1	0 1	1	0	0						-	0 101		4
25	HV HV	Zone substation Buildings	Zone substations 110kV+ 50/66/110kV CB (Indoor)	No.	0	0	0	0	1 4	1	0	0	0	0	0	0	0	0 0	0	0	0	0	0	0	0 0	0	0	0				-			0 6		4
26		Zone substation switchgear		No.	0	0	0	0	0 0	9	0	0	0	0	0	0	0	0 0	0	0	0	0	0	0 1	1 0	0	0	0				-			0 20		4
27	HV HV	Zone substation switchgear Zone substation switchgear	50/66/110kV CB (Outdoor) 33kV Switch (Ground Mounted)	No.	0	0	0	0		4	0	0	0	0	0	0	0	0 0	0	0	0	0	0	0	0 0		0	0							0 2		** N/A
29	HV	Zone substation switchgear Zone substation switchgear	33kV Switch (Ground Mounted) 33kV Switch (Pole Mounted)	No.	0	0	33	62 4	7 5	0	0	0	0	0	0	0	1	0 8	3	0	1	0	53	20	7 0	4	0	1						1	0 245	-	4
30	HV	Zone substation switchgear	33kV RMU	No.	0	0	0	0	0 0	0	0	0	0	5	1	0	0	3 0	0	0	0	0	0	0	0 0	0	0	0							0 9		4
31	HV	Zone substation switchgear	22/33kV CB (Indoor)	No.	0	0	0	0 1	4 20	9	0	10	0	4	0	9	1	7 32	2	0	0	6	0	35 2	4 52	11	0	9						1	0 245		4
32	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.	0	0	5	22 2	5 27	4	0	5	0	1	0	2	1	1 9	19	2	4	0	1	0	0 2	0	0	0							0 130		4
33	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.	0	0	9	145 17	5 256	106	11	6	2	7	0	19	15	4 86	43	39	36	25	49	30 1	7 53	95	42	20							0 1,330		4
34	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.	0	0	0	0	0 0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0	0	0 0	0	0	0						-	0 _		N/A
35	HV	Zone Substation Transformer	Zone Substation Transformers	No.	0	0	4	41 4	9 35	28	4	1	2	1	1	0	1	2 3	6	5	8	5	1	2	7 4	4	2	0					_	+	0 216		4
36		Distribution Line	Distribution OH Open Wire Conductor	km	1	4 :	44	545 1,00	5 1,380	294	94	11	4	11	6	22	36	2 21	22	11	8	6	s	7	8 4	7	5	9					-	+	25 3,758		3 N/A
37	HV HV	Distribution Line Distribution Line	Distribution OH Aerial Cable Conductor SWER conductor	km	0	0	0	0		0	0	0	0	0	0	0	0	0 0	0	0	0	0	0	0	0 0	0	0	0					_	+	0 -		N/A N/A
38	HV	Distribution Line Distribution Cable	SWER conductor Distribution UG XLPE or PVC	km	0	0	0	0 1	7 33	177	37	41	30	22	18	97	137 1	2 61	107	54	72	40	49	70 6	3 67	65	0 80	64					-	+	6 1.510		N/A 4
40	HV	Distribution Cable	Distribution UG PLC	km	13	3	25	198 62	8 708	513	34	13	4	1	2	12	7	9 5	6	2	1	0	0	0	1 0	0	0	0						1	6 2.201	-	4
41	HV	Distribution Cable	Distribution Submarine Cable	km	0	0	6	0	1 0	1	0	0	0	0	0	0	0	0 0	0	0	0	0	0	0	0 0	0	0	0		-				1	0 8		4
42	HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionaliser	No.	0	0	0	0	0 0	21	4	5	1	2	0	3	10	7 74	40	5	1	9	13	2	2 4	4	0	24							0 261		4
43	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.	37	0	2	0	4 9	4	11	0	4	2	2	3	6	0 10	7	8	6	25	8	8	7 39	12	30	18							0 272	_	4
44	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	0	0	_	232 1,04		1,451	248	172	154	150	63	221	297 2	5 253	267	159		168	267 3	23 41	3 496	582	469	571						1	95 10,343		3
45	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	7	0	-	364 99	,	380	63	60	53	43	57	73	75	0 31	42	38	41	44	22	10	5 5	0	0	2					_		04 3,204		3
46	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.	4	0	-	260 99	4 1,216	699	107	82	98	156	153		120 1	4 65	58			128		56 18	7 221		297	203						-	7 6,160		4
47		Distribution Transformer	Pole Mounted Transformer	No.	12	29		252 61		1,254		112	171	142 224	37 83		258 3 428 4	8 201 8 304				208	168 2		1 172 3 302	208	270	238					_	-	4 7,577		4
48	HV HV	Distribution Transformer Distribution Transformer	Ground Mounted Transformer	No.	6	58 3	0	/od 1,96	, 2,325	2,509	276	2/8	250	4.24	83	0	~ <u>.</u>	o 304 2 0	508		1	201	331 3	73 35	a 302	<u>⊀80</u>	530	357						+	4 14,317		4
49	HV HV	Distribution Transformer Distribution Substations	Voltage regulators Ground Mounted Substation Housing	NO.	11	62 1	178 1	1,286 3,01	7 3,410	2,072	188	236	125	141	200	125	119 :	6 70	59	49	53	56	102 1	55 20	4 147	167	189	224					-	1	16 12,847		3
51		LV Line	LV OH Conductor	km	0	4		528 1,02		152	109	6	6	11	4	16	26	7 12	13	8	11	10	10	9 1	0 9	15	27	31							65 4.028		3
52		LV Cable	LV UG Cable	km	5	20	46	434 1,07	3 1,062	1,269	118	98	55	49	47	213	262 1	1 81	115	72	74	46	69 1	00 12	5 131	136	163	157							21 6,202		4
53		LV Street lighting	LV OH/UG Streetlight circuit	km	3	1	9	24 4	5 53	86	9	7	4	3	3	15	16	5 11	17	9	17	8	8	17 1	2 21	17	14	15							6 463		3
54	LV	Connections	OH/UG consumer service connections	No.	0	0	-	163 34,11		127,020	23,832	8,889	7,791 1	1,504	14,995 1		,325 14,0	0 10,280					i,821 7,7	89 8,36	6 9,252		15,596	16,767							0 568,897		4
55	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.	0	0	4	152 45	8 357	251	35	32	17	15	44	46	80	9 140	321	214	165 1	103	231 1	16 9	0 146	181	145	81							3,748		3
56		SCADA and communications	SCADA and communications equipment operating as a single sys	Lot	0	0	0	0	0 0	3	0	0	0	0	5	3	5	4 12	10	14	8	17	25	4 1	4 50	21	30	13					_		74 332		2
57	All	Capacitor Banks	Capacitors including controls	No	0	0	0	0	0 0	10	46	0	0	1	0	0	2	0 0	0	1	0	1	11	0	0 5	0	0	0						-	0 77		4
58		Load Control	Centralised plant	Lot	0	0	0	8	1 7	11	0	0	0	0	0	1	0	1 3	0	0	0	0	0	0	0 0	0	0	0					_	-	1 33		3
59	All	Load Control	Relays	No	0	0	0	0	0 0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0	0	0 0	0	0	0					_	+	- 0		N/A 3
60	All	Civils	Cable Tunnels	km	U	U	-	4	- 0	0	9	U	U	0	U	0	a	<u> </u>	U	9	0	a	a	4	<u>vi 0</u>	0	0	0						-	10		3

																								mpany Nan	-				Vector 31 March 2019				
																								or Year Ende									
																						Networ	k / Sub-ne	etwork Nan	ne				Southern				
		E 9b: ASSET AGE PROFI quires a summary of the age profile Disclosure Year (year ended)	LE (based on year of installation) of the assets that make up the network, b 31 March 2019	by asset cat	tegory and a	asset class.	All units relati	ng to cable and	l line assets, t			fer to circuit le		hy installat	tion date																		
Ŭ		bisciosare real (jear ciloco)	STIMBOTOTS								Humber of D		ine year end	by mixturiat																	No. with Ite		
9	Voltage	Asset category	Asset class	Units pr			1950 19 1959 -19			1990 	2000 20	01 2002	2003	2004	2005	2006 20	107 20	08 2	2009 2010	2011	2012	2013 20	14 20	2016	2017	2018	2019	2020	2021 2022 2023 2024	2025		nd of defa vear dat	ault Data accuracy tes (1–4)
	All	Overhead Line	Concrete poles / steel structure	No.	5	0		1,758 86		4,028		484 61						1,425						918 1,4						T		9,982	3
11	All	Overhead Line	Wood poles	No.	0	0	0	234 11	8 96	473	172	37	2 66	30	51	86	53	44	17	12 1	4 7	16	4	1	0	1 15	19				2,270	3,868	2
12	All	Overhead Line	Other pole types	No.	0	0	0	0	0 0	0	0	0	0 0	0	0	0	0	0	0	0	0 0	0	3	7	32 14	17 174	44				0	407	4
13	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	0	0	0	0 34.36	0 0	0	0	0 2.90	6 0.825	0	0	0	0	0	5.071	0 5.74	3 0	0	0.087	1.873	0	0 0	0 0				0.017	51	4
14	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km	0	0	0	0	0 0	0	0	0	0 0	0	0	0	0	0	0	0	0 0	0	0	0	0	0 0	0 0				0.000	-	N/A
	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km	0	0	0	0 0.10	3 1.745	32.042	48.370	1.106 21.13	5.451	0.011	1.248			0.840	2.875 18.7		9 9.016	4.566	2.349 1	14.510 12.5	538 9.12	1.678	0.764				0.203	205	4
	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km	0	0		3.743 72.56	3 24.413	4.016	0	0.010 0.00	17 0	0.010	1.293	0.780	0.646	0	0.033 0.0	6	0 0	0.034	0	0	0 0.02	27 0	0 0				0	143	4
	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressurised)	km	0	0		0.14	9 0	0	0	0	0 0	0	0	0	0	0	0	0	0 0	0	0	0	0	0 0	0 0				0	2	4
	HV	Subtransmission Cable	Subtransmission UG up to 66kV (PILC)	km	7.421	2.818	16.727 1	5.537 2.64	0 2.232	0.290	0.032	0	0 0	0	0.353	0.007	_	0.619	0	0	0 0		0.004	0	0	0 0	0 0	l		4	0.033	49	4
	HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	km	0	0	0	0	0 0	8.476	0	0 18.43	9 0	0	1.191	0	0	0.036	0	0 2.13	3 0	0.004	0	0	0	0 0	0 0	l		4	0	30	4
	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Oil pressurised)	km	0	0	0 1:	L302	4.790	0.009	0.020	0	0 0	0	1.022	0	0	0	0	0	0 0	0	0	0	0	0 0	0 0	l		4	0	17	4
	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Gas Pressurised)	km	0	0	0	0	0 0	0	0	0	0 0	0	0	0	0	0	0	0	0 0	0	0	0	0	0 0	0 0			+	0.000	-	N/A
	HV	Subtransmission Cable	Subtransmission UG 110kV+ (PILC)	km	0	0	0	0 0.00	1 0.003	0	0	0	0 0	0	0	0	0	0	0	0	0 0	0	0	0	0	0 0	0 0	l		+	0	0	4
	HV	Subtransmission Cable	Subtransmission submarine cable	km	0	0	0	0	0 10.779	0	0	0	0 0	0	0	0	0	0	0	0	0 0	0	0	0	0	0 0	0 0				0	11	4
	HV	Zone substation Buildings	Zone substations up to 66kV	No.	0	1	2	11 1	5 7	5	3	0	0 1	0	0	1	1	0	0	1	1 0	0	0	0	1	0 0	0 0				0	50	4
	HV	Zone substation Buildings	Zone substations 110kV+	No.	0	0	0	0	1 4	0	0	0	0 0	0	0	0	0	0	0	0	0 0	0	0	0	0	0 0	0 0				0	5	4
	HV	Zone substation switchgear	50/66/110kV CB (Indoor)	No.	0	0	0	0	0 0	9	0	0	0 0	0	0	0	0	0	0	0	0 0	0	0	11	0	0 0	0 0				0	20	4
	HV	Zone substation switchgear	50/66/110kV CB (Outdoor)	No.	0	0	0	0	0 0	0	0	0	0 0	0	0	0	0	0	0	0	0 0	0	0	0	0	0 0	0 0				0	-	N/A
	HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No.	0	0	0	0	0 0	0	0	0	0 0	0	0	0	0	0	0	0	0 0	0	0	0	0	0 0	0 0				0	-	N/A
	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.	0	0	0	0	0 0	0	0	0	0 0	0	0	0	0	0	0	0	0 0	0	0	0	0	0 0	0 0			+	0	-	N/A
	HV	Zone substation switchgear	33kV RMU	No.	0	0	0	0	0 0	0	0	0	0 0	0	0	0	0	0	0	0	0 0	0	0	0	0	0 0	0 0				0	-	N/A
	HV	Zone substation switchgear	22/33kV CB (Indoor)	No.	0	0	0	0 1	4 20	9	0	10	0 0	0	0	0	1	8	0	0	0 6	0	6	17	39	2 0	0 0				0	132	4
	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.	0	0	0	0	0 0	0	0	0	0 0	0	0	0	0	0	0	0	0 0	0	0	0	0	0 0	0 0				0	-	N/A
	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.	0	0	2	119 10	3 191	66	11	0	0 0	0	1	9	44	38	17	13 2	8 16	25	13	6	26 5	57 29	19			++	0	833	4
	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.	0	0	0	0	0 0	0	0	0	0 0	0	0	0	0	0	0	0	0 0	0	0	0	0	0 0	0 0			++	0	-	N/A
	HV	Zone Substation Transformer	Zone Substation Transformers	No.	0	0	2	23 3	3 17	20	4	0	1 1	0	0	1	0	3	0	5	5 4	0	1	3	3	1 2	0			++	0	129	4
	HV	Distribution Line	Distribution OH Open Wire Conductor	km	0.482	0	0 0	0.125 65.54	615.713	34.610	85.687	2.114 1.7	9.320	0.919	5.449	5.671	9.760	9.376	3.536 3.0	2.71	7 2.597	1.299	1.121	0.360 0.3	198 2.37	0.225	2.168			++		885	3
	HV	Distribution Line	Distribution OH Aerial Cable Conductor	km	0	0	0	0	0 0	0	0	0	0 0	0	0	0	0	0	0	0	0 0	0	0	0	0	0 0	0 0				0.000	-	N/A
	HV	Distribution Line	SWER conductor	km	0	0	0	0	0 0	0	0	0	0 0	0	0	0	0	0	0	0	0 0	0	0	0	0	0 0	0 0				0.000	-	N/A
	HV	Distribution Cable	Distribution UG XLPE or PVC	km	0.009	0		10.70	3 11.251	25.348		17.719 13.7							34.195 25.9		2 21.966			27.141 33.4	30.05		40.093			+		674	4
	HV	Distribution Cable	Distribution UG PILC	km	13.394	2.772	24.630 180	508.56	7 441.552	317.058	26.143	11.029 2.54	2 0.798	0.001	10.899	5.122 1	16.591	3.927	3.616 1.8	0.94	9 0	0.014	0.007	0 0.:	133	0 0.039	0			+	3.701	1,576	4
	HV	Distribution Cable	Distribution Submarine Cable	km	0	0	0	0 0.87	0 0	0.693	0	0	0 0	0	0	0	0	0	0	0	0 0	0	0	0	0	0 0	0			+	0	2	4
	HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionaliser	No.	0	0	0	0	0 0	1	0	0	0 1	0	0	8	16	15	2	2	1 3	3	1	0	0	1 0	4			+	0	58	4
	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.	37	0	2	0	3 7	4	11	0	4 2	1	2	6	10	4	7	8	4 24	8	8	5	23	4 17	15			+		216	4
	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	0	0	0	4 4	5 485	174	90	51 4	49	0	86	52	88	81	43	8 3	7 62	122	140	103	117 12	103	133	<u> </u>	+	++		2,428	3
	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	7	0	-	355 97	9 544	223	33	39	x0 25	36	38	39	22	17	21	15 2	5 28	10	4	3	3	0 0	1			+		2,503	3
	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.	4	0	2	249 95	5 1,049	472	57	56 5	8 103	92	114	84	68	40	41	4 8	8 74	134	108	106	123 13	37 141	130			+		4,535	4
	HV	Distribution Transformer	Pole Mounted Transformer	No.	0	0	1	39 14	6 252	267	111	29	8 63	1	53	45	87	83	92	3 4	0 69	61	79	70	39 6	53 76	56			+		1,975	4
	HV	Distribution Transformer	Ground Mounted Transformer	No.	0	0	2	82 1,05	5 1,483	1,371	126	155 1:	3 109	16	166	174	276	141	120	11	4 126	184	194	159	125 15	×4 194	158	 	+	++		6,893	4
	HV	Distribution Transformer	Voltage regulators	No.	0	0	0	165 1.42	0 0	1.123	0	103	0 0 6 60	0	60	0	1	0	0	0 1	9 30	0	72	72	0	u 0	103		++	+	0	4	4
	HV	Distribution Substations	Ground Mounted Substation Housing	No.	0.025	1	-	165 1,42	3 2,127		84		-			4 381	58	32		-		5.081	72	3 174 21	34 3	81 65 13 2 720	2 302	-	++	+ $+$		6,103	
	LV	LV Line	LV OH Conductor	km		16 547		2496 236.64	6 1,342.320 4 784.918	85.982			-		6.835				4.520 2.7					3.174 2.1			2.302	-	++	+ $+$		1,900	3
	LV	LV Cable	LV UG Cable	km																									+	++		3,131	
	LV	LV Street lighting	LV OH/UG Streetlight circuit	km	2.593	0.115	8.450 14	1.749 27.16	3 33.169	50.490		4.857 3.0							8.508 4.0					4.470 8.3					+	++		260	3
	LV	Connections	OH/UG consumer service connections	No.	0	0	0	97 6,54	3 130,303	39,361	18,338	4,870 4,23	4 7,205	10,409	14,314	15,959 1	10,922	7,088	4,823 4,3		4 4,053	4,510	4,990	5,101 5,3	894 8,07	10,746	12,287	<u> </u>		++		18,487	4
	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.	0	0	0	111 26	4 188	151	35	26 :	2 7	4	1	68	17	81	203 1	8	65	69	66	42 :	118 5	rs 60	81	<u> </u>	+	++	117	2,080	-
	All	SCADA and communications	SCADA and communications equipment operating as a single sys	Lot	0	0	0	0	0	1	0	0	u 0	5	0	5	9	6	9	1	8	14	4	9	su 1	1 17	8	 	+	++	32	180	2
	All	Capacitor Banks	Capacitors including controls	No	0	0	0	0	0	10	1	0	0 0	0	•	0	U	0	U	0	0 1	0	0	0	1	0 0			++	+		13	4
	All	Load Control	Centralised plant	Lot	0	0	U	0	u S	11	0	0	0 0	0	1	0	1	5	U		0	0	0	0	0	0 0			++	+		22	
	All	Load Control	Relays	No	0	0	0	0	0 0	0	0	0	0 0	0	0	0	0	0	0	0	0 0	0	0	0	0	0 0	0		++	+	0		N/A
.0	All	Civils	Cable Tunnels	km	0	0	0	0	u 0	0	9.289	0	U 0	0	0.109	0	0	0	0	0	0.095	0	0	0	U	U 0	0	1		4	0.896	10	3

																							Company	-						Vector 1 March 201					
																							For Year								9				
																					1	Vetwork / S	ub-network	k Name						Northern					
			(based on year of installation) of the assets that make up the network,	by asset ca	itegory and a	isset class.	All units relating	to cable and	line assets, the																										
8		Disclosure Year (year ended)	31 March 2019							Nu	mber of assets	at disclosure	year end by	y installati	on date																	No. with	Items at	No. with	
							1950 1960	1970	1980	1990																						age			Data accuracy
9	Voltage	Asset category		Units pr	re-1940 -		1959 -196					2002		2004	2005					2011 2	2012 2013				2017 20			202	1 2022	2023 202	4 2025	unknown	year	dates	(1-4)
10	All	Overhead Line	Concrete poles / steel structure	No.	8	307	5,046 11,1		13,018	5,984	327 27	0 252	255	193	375	509	384 3	87 70	479	313	403 7	38 748	977	1,176	1,687	2,592	1,792					133	65,956		3
11	All	Overhead Line	Wood poles	No.	4	10	149 3	25 390	527	414	19 1	3 50	24	13	48	64	59	23 3	94	1	20	18 24	16	8	2	7	12	-				31	2,303		2
12	All	Overhead Line	Other pole types	No.	1 607	1 615	24.117 72.0	0 0	71.857	1 753	0 1	0 0	0.001	U	0 793	4 182 1	U 0.0	0 8.07	0.802	1 619	0 00	6 14	23	45	0 107		139				_	0	424		4
13	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	1.607	1.615	19.111 7.3.5	46 125.814 67 12.181	71.857	1.763	0	0 0	0.001	0	0.793		359 0.0 839	03 8.07	0.802	A-VAU	0 0.0	15 0	0	0.623	0.107	0	0.972					0	318		4
14	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km	0	0	0 190		0	0	7.728 0.30	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.903	1 615	0			0	0	3 556		0 0	0		3.575	0	0				_	0	£/		
15 16	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km	0	0	0.190	0 19.176	9.473	22.631	7.728 0.30	8 0.787	0.903	1.615	2.790		527 7.0 136	66 21.90	2.079	3.556	0.622 2.8	85 0.514	1.914	3.403	3.575	4.231	1.902				_	0	144		4
16 17	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km	0	0	0 11	65 1.123	0	0	0	0 0	0	0	0	0 0	136	0		0	0	0 0	0	0	0	0	0					0	2		4 N/A
17	HV HV	Subtransmission Cable Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressurised) Subtransmission UG up to 66kV (PILC)	km	0	0	0	0 0.589	0.091	0.342	0		0	0	0	0	0	0		0	0	0 0	0	0	0	0	0								N/A 4
18 19	HV	Subtransmission Cable	Subtransmission UG up to 66kV (PILC) Subtransmission UG 110kV+ (XLPE)	km	0	0	0	0 0	160.0	0.542	0		0	0	0	0	0	0		0	0	0 0	0	0	0	0	0					0	- 1	-+	4 N/A
19 20				km	0	0		0 0	0	0	0		0	0	0	0	0	0		0	0	0 0	0	0	0	0	0				_			-+	N/A
20 21	HV HV	Subtransmission Cable	Subtransmission UG 110kV+ (Oil pressurised) Subtransmission UG 110kV+ (Gas Pressurised)	km				0 0			0		0	0	~		-					0 0		-			0				_			-+	N/A
21	HV	Subtransmission Cable Subtransmission Cable	Subtransmission UG 110kV+ (Gas Pressurised) Subtransmission UG 110kV+ (PILC)	km	0	0		0 0	0		0		0	0	0	0	0	0		0	0	0 0	0	0	0	0	0				_				N/A N/A
22	HV	Subtransmission Cable	Subtransmission UG 110KV+ (PILC) Subtransmission submarine cable	km		0	0 04	29 0	0.158	0 308	0		0	0	0	0	0	0		0	0	0 0	0	0		0	0				_			-+	4
23	HV	Zone substation Buildings	Zone substations up to 66kV	No	0	0	2	12 11	11	5	0	1 0	1	0	0	0	0	3		1	0	0 1	0	0	1	0	0					0	51	-+	4
25	HV	Zone substation Buildings	Zone substations 110kV+	No.	0	0	0	0 0	0	1	0	0 0	0	0	0	0	0	0		0	0	0 0	0	0	0	0	0						1		4
26	HV	Zone substation switchgear	50/66/110kV CB (Indoor)	No.	0	0	0	0 0	0	0	0	0 0	0	0	0	0	0	0		0	0	0 0	0	0	0	0	0								N/A
27	HV	Zone substation switchgear	50/66/110kV CB (Outdoor)	No.	0	0	0	0 0	0	2	0	0 0	0	0	0	0	0	0		0	0	0 0	0	0	0	0	0						2		4
28	HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No.		-		0 0			0					0	0				0														N/A
29	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.	0	0	22	62 47	<	0	0	0 0	0	0	0	1	0	8		1	0	53 20	7	0	4	0	1						245		4
30	HV	Zone substation switchgear	33kV RMU	No	0	0	0	0 0	0	0	0	0 0	5	1	0	0	3	0		0	0	0 0	0	0	0	0	0						0		4
31	HV	Zone substation switchgear	22/33kV CB (Indoor)	No	0	0	0	0 0	0	0	0	0 0	4	0	9	1	6	24		0	0	0 29	7	13	9	0	9						113		4
32	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.	0	0	5	22 25	27	4	0	5 0	1	0	2	1	1	9 1	2	4	0	1 0	0	2	0	0	0					0	130		4
33	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.	0	0	7	26 72	65	40	0	6 2	7	0	18	6	0	48 2	26	8	9	24 17	11	27	38	13	1					0	497		4
34	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.	0	0	0	0 0	0	0	0	0 0	0	0	0	0	0	0	0 0	0	0	0 0	0	0	0	0	0					0	-		N/A
35	HV	Zone Substation Transformer	Zone Substation Transformers	No	0	0	2	18 16	18	8	0	1 1	0	1	0	0	2	0	i 0	3	1	1 1	4	1	3	0	0					0	87		4
36	HV	Distribution Line	Distribution OH Open Wire Conductor	km	0.068	3.918	144.068 545.1	12 939.355	764.410	259.108	7.751 8.59	1 2.390	2.099	5.063	16.620	30.586 52	311 11.3	58 18.36	6.942	5.139	3.071 3.8	20 6.244	7.666	4.170	4.818	4.521	6.935					9	2.873		3
37	HV	Distribution Line	Distribution OH Aerial Cable Conductor	km	0	0	0	0 0	0	0	0	0 0	0	0	0	0	0	0	0 0	0	0	0 0	0	0	0	0	0					0	-		N/A
38	HV	Distribution Line	SWER conductor	km	0	0	0	0 0	0	0	0	0 0	0	0	0	0	0	0	0 0	0	0	0 0	0	0	0	0	0					0	-		N/A
39	HV	Distribution Cable	Distribution UG XLPE or PVC	km	0	0.005	0.021 0.3	02 5.938	21.855	151.225 2	9.098 23.22	3 16.643	8.420	13.154	32.544	81.616 42	515 30.1	18 72.87	28.142	31.352	17.793 24.7	33 25.707	36.055	33.327	35.339	8.286 2	3.858					1	835		4
40	HV	Distribution Cable	Distribution UG PILC	km	0	0	0.626 16.3	91 119.236	266.213	196.071	7.834 1.69	5 1.677	0.014	2.186	1.098	2.003 2.	458 0.8	93 2.41	0.022	0.245	0.001 0.0	02 0.006	0.584	0.332	0	0.129	0.001					2	625		4
41	HV	Distribution Cable	Distribution Submarine Cable	km	0	0	6.008 0.1	42 0	0	0.427	0	0 0	0	0	0	0	0	0	0 0	0	0	0 0	0	0	0	0	0					0	7		4
42	HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionaliser	No.	0	0	0	0 0	0	20	4	5 1	1	0	3	2	21	59 3	3 3	0	6	10 1	2	4	3	0	20					0	203		4
43	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.	0	0	0	0 1	2	0	0	0 0	0	1	1	0	0	6	0 0	2	1	0 0	2	16	8	13	3					0	56		4
44	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	0	0	8 2	28 998	1,287	1,277	158 12	1 113	101	63	135	245	167 1	72 22	121	77	106 1	45 183	310	379	457	366	438					36	7,915		3
45	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	0	0	1	9 18	92	157	30 2	1 33	18	21	35	36	28	14 2	23	16	16	12 6	2	2	0	0	1					89	701		3
46	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.	0	0	0	11 39	167	227	50 2	6 40	53	61	44	36	36	25 1	55	37	54	46 58	81	98	134	156	73					1	1,625		4
47	HV	Distribution Transformer	Pole Mounted Transformer	No.	12	29	128 2	13 471	1,044	987	154 8	3 93	79	36	178	213	221 1	18 16	142	85	139 1	07 122	131	133	145	194	182					2	5,602		4
48	HV	Distribution Transformer	Ground Mounted Transformer	No.	6	38	141 6	87 912	842	938	150 12	3 137	115	67	425	254	222 1	63 18	198	205	135 1	47 199	194	177	226	336	199					0	7,424		4
49	HV	Distribution Transformer	Voltage regulators	No.	0	0	0	0 0	0	0	0	0 0	0	1	0	0	1	0	0 0	1	1	2 1	0	0	0	0	0					0	7		4
50	HV	Distribution Substations	Ground Mounted Substation Housing	No.	11	61	176 1,1		1,283	949	104 13		81	129	65	67	28	31 1	34	24	26	47 83	132	95	136	124	121					1	6,744		3
51	LV	LV Line	LV OH Conductor	km	0		111.463 525.9				6.938 1.66		0.475	2.130		21.404 39				6.617	5.919 4.9			6.148			8.347					19	2,128		3
52	LV	LV Cable	LV UG Cable	km	0.040	3.375	9.385 201.3	NJ	ALLOWA	433/47A V	2.913 30.54	2 AA-003	14.539	29.949	VA. TVA	142.431 55	473 34-4		A7.007.4	AU-333	19.749 30.7	42 47.044	92.973	66.095	MJ-477		12.222					8	2,445		4
53	LV	LV Street lighting	LV OH/UG Streetlight circuit	km	0	0.520	1.028 9.2				5.539 2.24		0.945	1.779			265 1.8			11.603	4.393 3.7			12.701			8.955					3	203		3
54	LV	Connections	OH/UG consumer service connections	No.	0	0	0	66 27,567	44,505	87,659	5,494 4,01	9 3,567	4,299	4,586	4,202	3,366 3,	138 3,1	92 2,20	2,430	2,182	2,053 2,3	11 2,799	3,265	3,858	4,322	4,850	4,480					0	230,410		4
55	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.	0	0	4	41 196	169	100	0	6 5	8	40	45	12	22	59 11	96	80	38 1	62 50	48	28	88	85	0					168	1,668		3
56	All	SCADA and communications	SCADA and communications equipment operating as a single sys	Lot	0	0	0	0 0	0	2	0	0 0	0	0	3	0	15	6	7	3	9	11 0	5	20	10	13	5					42	152		2
57	All	Capacitor Banks	Capacitors including controls	No	0	0	0	0 0	0	0	45	0 0	1	0	0	2	0	0	1	0	0	11 0	0	4	0	0	0					0	64		4
58	All	Load Control	Centralised plant	Lot	0	0	0	8 1	2	0	0	0 0	0	0	0	0	0	0	0 0	0	0	0 0	0	0	0	0	0					0	11		3
59	All	Load Control	Relays	No	0	0	0	0 0	0	0	0	0 0	0	0	0	o	0	0	0	o	0	0 0	0	0	0	0	0					0	-		N/A
60	All	Civils	Cable Tunnels	km	0	0	0	0 0	0	0	0	0 0	0	0	0	0	0	0	0 0	0	0	0 0	0	0	0	0	0					0			N/A

	Company Name		Vector	
	For Year Ended		31 March 2019	
	Network / Sub-network Name		Combined	
c	CHEDULE 9c: REPORT ON OVERHEAD LINES AND UNDERGROUND CABLES			
-				
	is schedule requires a summary of the key characteristics of the overhead line and underground cable network. All units rel circuit lengths.	ating to cable and l	ine assets, that are e	xpressed in km, refe
10	circuit rengtitis.			
sch r	of .			
SCITT				
9				
2			Underground	Total circuit
10	Circuit length by operating voltage (at year end)	Overhead (km)	(km)	length (km)
11	> 66kV	27	47	74
12	50kV & 66kV	-	-	-
13	33kV	366	421	787
14	SWER (all SWER voltages)	-	-	-
15	22kV (other than SWER)	3	181	184
16	6.6kV to 11kV (inclusive—other than SWER)	3,758	3,674	7,432
17	Low voltage (< 1kV)	4,028	6,202	10,230
18	Total circuit length (for supply)	8,182	10,526	18,708
19				
20	Dedicated street lighting circuit length (km)	17	446	463
21	Circuit in sensitive areas (conservation areas, iwi territory etc) (km)			3,966
22		Circuit length	(% of total	
23	Overhead circuit length by terrain (at year end)	(km)	overhead length)	
24	Urban	4,666	57%	
25	Rural	3,516	43%	
26	Remote only			
27	Rugged only	-	-	
28	Remote and rugged	-	-	
29	Unallocated overhead lines	-	-	
30	Total overhead length	8,182	100%	
31				
		Circuit length	(% of total circuit	
32		(km)	length)	
33	Length of circuit within 10km of coastline or geothermal areas (where known)	18,625	99.6%	
		Circuit length	(% of total	
34		(km)	overhead length)	
35	Overhead circuit requiring vegetation management	8,182	100%	

	Company Name		Vector	
	For Year Ended		31 March 2019	
	Network / Sub-network Name		Southern	
SCL	EDULE 9c: REPORT ON OVERHEAD LINES AND UNDERGROUND CABLES			
	chedule requires a summary of the key characteristics of the overhead line and underground cable network. All units re	lating to cable and l	ing access that are a	unrossed in km ro
	culted lengths.	lating to caple and i	ine assets, that are e	kpresseu in kin, re
sch ref				
9			Underground	Total circuit
10	Circuit length by operating voltage (at year end)	Overhead (km)	(km)	length (km)
11	>66kV	-	47	47
12	50kV & 66kV	-	-	
13	33kV	48	273	322
14	SWER (all SWER voltages)	-	-	
15	22kV (other than SWER)	3	181	18
16	6.6kV to 11kV (inclusive—other than SWER)	885	2,208	3,09
17	Low voltage (< 1kV)	1,900	3,757	5,65
18	Total circuit length (for supply)	2,835	6,466	9,302
19				
20	Dedicated street lighting circuit length (km)	5	255	260
21	Circuit in sensitive areas (conservation areas, iwi territory etc) (km)			2,27
22		Cinewit law eth	10/ - 5 + - + - 1	
23	Overhead circuit length by terrain (at year end)	Circuit length (km)	(% of total overhead length)	
24	Urban	2,366	83%	
25	Rural	469	17%	
26	Remote only	-	-	
27	Rugged only	-	-	
28	Remote and rugged	-		
29	Unallocated overhead lines	-	-	
30	Total overhead length	2,835	100%	
31				
		Circuit length	(% of total circuit	
32		(km)	length)	
33	Length of circuit within 10km of coastline or geothermal areas (where known)	9,276	99.7%	
		Circuit length	(% of total	
34		(km)	overhead length)	
35	Overhead circuit requiring vegetation management	2,835	100%	

	Company Name		Vector	
	For Year Ended		31 March 2019 Northern	
	Network / Sub-network Name			
c	CHEDULE 9c: REPORT ON OVERHEAD LINES AND UNDERGROUND CABLES			
-				
	nis schedule requires a summary of the key characteristics of the overhead line and underground cable network. All units rel p circuit lengths.	ating to cable and I	ine assets, that are e	xpressed in km, refe
sch r	ef			
30111				
9				
			Underground	Total circuit
10	Circuit length by operating voltage (at year end)	Overhead (km)	(km)	length (km)
11	> 66kV	27	-	27
12	50kV & 66kV	-	-	-
13	33kV	318	148	466
14	SWER (all SWER voltages)	-	-	-
15	22kV (other than SWER)	-	-	-
16	6.6kV to 11kV (inclusive—other than SWER)	2,873	1,467	4,340
17	Low voltage (< 1kV)	2,128	2,445	4,573
18	Total circuit length (for supply)	5,346	4,060	9,406
19			r	
20	Dedicated street lighting circuit length (km)	12	190	203
21 22	Circuit in sensitive areas (conservation areas, iwi territory etc) (km)		L	1,694
22		Circuit length	(% of total	
23	Overhead circuit length by terrain (at year end)	(km)	overhead length)	
24	Urban	2,300	43%	
25	Rural	3,047	57%	
26	Remote only	-	-	
27	Rugged only	_	_	
28	Remote and rugged	_	_	
29	Unallocated overhead lines	-	-	
30	Total overhead length	5,346	100%	
31				
		Circuit length	(% of total circuit	
32		(km)	length)	
33	Length of circuit within 10km of coastline or geothermal areas (where known)	9,350	99.40%	
		Circuit length	(% of total	
34		(km)	overhead length)	
35	Overhead circuit requiring vegetation management	5,346	100%	

	Company Name	Ve	ctor
	For Year Ended	31 Ma	rch 2019
-	CHEDULE 9d: REPORT ON EMBEDDED NETWORKS		
Ir	nis schedule requires information concerning embedded networks owned by an EDB that are embedded in another EDB's network or in anoth	er embedded network.	
sch r	ef		
		Number of ICPs	Line charge revenue
8	Location *	served	(\$000)
9	None		
10			
11			
12			
13		l	
14		l	
15 16			
10			
18			
19			
20			
21			
22			
23			
24		l	
25	* Category and a distribution and wells are accounted distance and such added a strengt worst but to 500 which is each added		
26	* Extend embedded distribution networks table as necessary to disclose each embedded network owned by the EDB which is embeddea embedded network	in another EDB's netwo	ork or in another

	Company Name	Vector
	For Year Ended	31 March 2019
	Network / Sub-network Name	Combined
SC	CHEDULE 9e: REPORT ON NETWORK DEMAND	
Thi	s schedule requires a summary of the key measures of network utilisation for the disclosure year (number of i	new connections including
dist	tributed generation, peak demand and electricity volumes conveyed).	
sch re	ſ	
0	9e(i): Consumer Connections	
8 9	Number of ICPs connected in year by consumer type	
		Number of
10	Consumer types defined by EDB*	connections (ICPs)
11	Residential	6,562
12	Commercial	4,041
13 14		
14		
16	* include additional rows if needed	
17	Connections total	10,603
18		
19	Distributed generation	
20	Number of connections made in year	2.34 MVA
21	Capacity of distributed generation installed in year	2.34
22	9e(ii): System Demand	
23		
24		Demand at time
		of maximum
		coincident demand (MW)
25	Maximum coincident system demand	
26	GXP demand	1,809
27 28	plus Distributed generation output at HV and above	12 1,821
20 29	Maximum coincident system demand less Net transfers to (from) other EDBs at HV and above	1,021
30	Demand on system for supply to consumers' connection points	1,821
31	Electricity volumes carried	Energy (GWh)
32	Electricity supplied from GXPs	8,673
33	less Electricity exports to GXPs	
34 35	plus Electricity supplied from distributed generation less Net electricity supplied to (from) other EDBs	130
36	Electricity entering system for supply to consumers' connection points	8,802
37	less Total energy delivered to ICPs	8,496
38	Electricity losses (loss ratio)	307 3.5%
39		
40	Load factor	0.55
41	9e(iii): Transformer Capacity	
42		(MVA)
43	Distribution transformer capacity (EDB owned)	4,496
44	Distribution transformer capacity (Non-EDB owned, estimated)	465
45	Total distribution transformer capacity	4,961
46		
47	Zone substation transformer capacity	4,499

	Company Name	Vector
	For Year Ended	31 March 2019
	Network / Sub-network Name	Southern
SC	CHEDULE 9e: REPORT ON NETWORK DEMAND	
	is schedule requires a summary of the key measures of network utilisation for the disclosure year (number of n tributed generation, peak demand and electricity volumes conveyed).	ew connections including
uis		
sch re		
8	9e(i): Consumer Connections	
9	Number of ICPs connected in year by consumer type	
		Number of
10 11	Consumer types defined by EDB* Residential	connections (ICPs) 4,016
11	Commercial	2,001
13		
14		
15		
16	* include additional rows if needed	
17	Connections total	6,017
18 19	Distributed generation	
20	Number of connections made in year	186 connections
21	Capacity of distributed generation installed in year	0.92 MVA
22	9e(ii): System Demand	
23 24		
		Demand at time of maximum
		coincident
25	Maximum coincident system demand	demand (MW)
26	GXP demand	1,141
27	plus Distributed generation output at HV and above	-/
		4
28	Maximum coincident system demand	4 1,144
28 29	Maximum coincident system demand less Net transfers to (from) other EDBs at HV and above	
	Maximum coincident system demand	
29 30	Maximum coincident system demand less Net transfers to (from) other EDBs at HV and above Demand on system for supply to consumers' connection points	1,144 1,144
29 30 31	Maximum coincident system demand less Net transfers to (from) other EDBs at HV and above Demand on system for supply to consumers' connection points Electricity volumes carried	1,144 1,144 Energy (GWh)
29 30	Maximum coincident system demand less Net transfers to (from) other EDBs at HV and above Demand on system for supply to consumers' connection points	1,144 1,144
29 30 31 32	Maximum coincident system demand less Net transfers to (from) other EDBs at HV and above Demand on system for supply to consumers' connection points Electricity volumes carried Electricity supplied from GXPs	1,144 1,144 Energy (GWh)
29 30 31 32 33	Maximum coincident system demand less Net transfers to (from) other EDBs at HV and above Demand on system for supply to consumers' connection points Electricity volumes carried Electricity supplied from GXPs less Electricity exports to GXPs plus Electricity supplied from distributed generation less Net electricity supplied to (from) other EDBs	1,144 - 1,144 Energy (GWh) 5,841 - 53 -
29 30 31 32 33 34 35 36	Maximum coincident system demand less Net transfers to (from) other EDBs at HV and above Demand on system for supply to consumers' connection points Electricity volumes carried 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	1,144
29 30 31 32 33 34 35 36 37	Maximum coincident system demand less Net transfers to (from) other EDBs at HV and above Demand on system for supply to consumers' connection points Electricity volumes carried 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	1,144 1,144 Energy (GWh) 5,841 53 53 5,894 5,715
29 30 31 32 33 34 35 36	Maximum coincident system demand less Net transfers to (from) other EDBs at HV and above Demand on system for supply to consumers' connection points Electricity volumes carried 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	1,144
29 30 31 32 33 34 35 36 37 38	Maximum coincident system demand less Net transfers to (from) other EDBs at HV and above Demand on system for supply to consumers' connection points Electricity volumes carried 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	1,144 1,144 Energy (GWh) 5,841 53 53 5,894 5,715
29 30 31 32 33 34 35 36 37 38 39	Maximum coincident system demand less Net transfers to (from) other EDBs at HV and above Demand on system for supply to consumers' connection points Electricity volumes carried 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	1,144 - 1,144 Energy (GWh) 5,841 - 53 - 5,894 5,715 179 3.0%
29 30 31 32 33 34 35 36 37 38 39	Maximum coincident system demand less Net transfers to (from) other EDBs at HV and above Demand on system for supply to consumers' connection points Electricity volumes carried 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)	1,144 1,144 Energy (GWh) 5,841 - 53 - 5,894 5,715 179 3.0%
29 30 31 32 33 34 35 36 37 38 39 40 41 42	Maximum coincident system demand less Net transfers to (from) other EDBs at HV and above Demand on system for supply to consumers' connection points Electricity volumes carried 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 9e(iii): Transformer Capacity	1,144 1,144 Energy (GWh) 5,841 5,894 5,894 5,715 179 3.0% 0.59 (MVA)
29 30 31 32 33 34 35 36 37 38 39 40 40 41 42 43	Maximum coincident system demand less Net transfers to (from) other EDBs at HV and above Demand on system for supply to consumers' connection points Electricity volumes carried 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 9e(iii): Transformer Capacity Distribution transformer capacity (EDB owned)	1,144 1,144 Energy (GWh) 5,841 5,844 5,715 179 3.0% 0.59 (MVA) 2,836
29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44	Maximum coincident system demand less Net transfers to (from) other EDBs at HV and above Demand on system for supply to consumers' connection points Electricity volumes carried 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 9e(iii): Transformer Capacity Elstribution transformer capacity (EDB owned) Distribution transformer capacity (Non-EDB owned, estimated)	1,144 1,144 Energy (GWh) 5,841 5,894 5,715 179 3.0% 0.59 (MVA) 2,836 411
29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45	Maximum coincident system demand less Net transfers to (from) other EDBs at HV and above Demand on system for supply to consumers' connection points Electricity volumes carried 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 9e(iii): Transformer Capacity Distribution transformer capacity (EDB owned)	1,144 1,144 Energy (GWh) 5,841 5,844 5,715 179 3.0% 0.59 (MVA) 2,836
29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44	Maximum coincident system demand less Net transfers to (from) other EDBs at HV and above Demand on system for supply to consumers' connection points Electricity volumes carried 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 9e(iii): Transformer Capacity Elstribution transformer capacity (EDB owned) Distribution transformer capacity (Non-EDB owned, estimated)	1,144 1,144 Energy (GWh) 5,841 5,894 5,715 179 3.0% 0.59 (MVA) 2,836 411

	Company Name	Vector
	For Year Ended	31 March 2019
	Network / Sub-network Name	Northern
SC	CHEDULE 9e: REPORT ON NETWORK DEMAND	
	s schedule requires a summary of the key measures of network utilisation for the disclosure year (number of r	new connections including
dist	tributed generation, peak demand and electricity volumes conveyed).	
sch re	f	
8 9	9e(i): Consumer Connections Number of ICPs connected in year by consumer type	
5		Number of
10	Consumer types defined by EDB*	connections (ICPs)
11	Residential	2,546
12	Commercial	2,040
13		
14		
15 16	* include additional rows if needed	
17	Connections total	4,586
18		
19	Distributed generation	
20	Number of connections made in year	281 connections
21	Capacity of distributed generation installed in year	1.41 MVA
22	9e(ii): System Demand	
23		
24		Demand at time
		of maximum
		coincident
25	Maximum coincident system demand	demand (MW)
26	GXP demand	714
27	plus Distributed generation output at HV and above	8
28 29	Maximum coincident system demand less Net transfers to (from) other EDBs at HV and above	722
29 30	Demand on system for supply to consumers' connection points	722
31	Electricity volumes carried	Energy (GWh)
32	Electricity supplied from GXPs	2,832
33	less Electricity exports to GXPs	-
34 25	plus Electricity supplied from distributed generation	77
35 36	less Net electricity supplied to (from) other EDBs Electricity entering system for supply to consumers' connection points	2,909
30 37	less Total energy delivered to ICPs	2,909
38	Electricity losses (loss ratio)	128 4.4%
39		
40	Load factor	0.46
11	9e(iii): Transformer Capacity	
41 42	Setting. Transformer Capacity	(MVA)
42 43	Distribution transformer capacity (EDB owned)	1,660
45 44	Distribution transformer capacity (EDB owned) Distribution transformer capacity (Non-EDB owned, estimated)	389
45	Total distribution transformer capacity	2,049
46		
47	Zone substation transformer capacity	1,535

		Company Name	Vector
		For Year Ended	31 March 2019
	Network /	Sub-network Name	Combined
	HEDULE 10: REPORT ON NETWORK RELIABILITY		
	schedule requires a summary of the key measures of network reliability (interruptions, SAIDI, SAIDI and		
	ment on their network reliability for the disclosure year in Schedule 14 (Explanatory notes to templates rmation (as defined in section 1.4 of the ID determination), and so is subject to the assurance report rec		tion is part of audited disclosure
ref			
3	10(i): Interruptions	Number of	
	Interruptions by class	interruptions	
	Class A (planned interruptions by Transpower)	2	
	Class B (planned interruptions on the network)	1,721	
2	Class C (unplanned interruptions on the network) Class D (unplanned interruptions by Transpower)	2,092	
	Class E (unplanned interruptions of EDB owned generation)	0	
	Class F (unplanned interruptions of generation owned by others)	0	
	Class G (unplanned interruptions caused by another disclosing entity)	0	
	Class H (planned interruptions caused by another disclosing entity)	0	
	Class I (interruptions caused by parties not included above) Total	3,816	
	Interruption restoration	≤3Hrs	>3hrs
	Class C interruptions restored within	1,071	1,021
	SAIEL and SAIDI by close	SAIFI	SAIDI
	SAIFI and SAIDI by class Class A (planned interruptions by Transpower)	SAIFI 0	0
	Class B (planned interruptions of thanspower) Class B (planned interruptions on the network)	0.37	89
	Class C (unplanned interruptions on the network)	1.91	504.4
	Class D (unplanned interruptions by Transpower)	0.01	0.2
,	Class E (unplanned interruptions of EDB owned generation) Class F (unplanned interruptions of generation owned by others)	0	0
	Class G (unplanned interruptions caused by another disclosing entity)	0	0
	Class H (planned interruptions caused by another disclosing entity)	0	0
t t	Class I (interruptions caused by parties not included above)	0	0
1	Total	2.29	593.6
L			
;	Normalised SAIFI and SAIDI	Normalised SAIFI Norm	nalised SAIDI
,	Classes B & C (interruptions on the network) (under the 2015 DPP)	1.76	198.2
	Classes B & C (interruptions on the network) (under the ID Determination 2012)	2.16	263.2
	10(ii): Class C Interruptions and Duration by Cause		
3			
)	Cause	SAIFI	SAIDI
	Cause Lightning	SAIFI 0.07 0.41	5AIDI 6.0 234.5
	Cause	0.07	6.0
	Cause Lightning Vegetation Adverse weather Adverse environment	0.07 0.41 0.09 0	6.0 234.5 84.3 0
	Cause Lightning Vegetation Adverse eventher Adverse environment Third party interference	0.07 0.41 0.09 0 0.26	6.0 234.5 84.3 0 32.7
	Cause Lightning Vegetation Adverse weather Adverse environment	0.07 0.41 0.09 0	6.0 234.5 84.3 0
	Cause Lightning Vegetation Adverse weather Adverse environment Third party interference Wildlife	0.07 0.41 0.09 0 0.26 0.07	6.0 234.5 84.3 0 32.7 5.5
	Cause Lightning Vegetation Adverse weather Adverse environment Third party interference Wildlife Human error	0.07 0.41 0.09 0 0.26 0.07 0.03	6.0 234.5 84.3 0 32.7 5.5 1.3
	Cause Lightning Vegetation Adverse wather Adverse environment Third party interference Wildlife Human error Defective equipment	0.07 0.41 0.09 0 0.26 0.07 0.03 0.71	6.0 234.5 84.3 0 32.7 5.5 1.3 89.3
	Cause Lightning Vegetation Adverse wather Adverse environment Third party interference Wildlife Human error Defective equipment	0.07 0.41 0.09 0 0.26 0.07 0.03 0.71 0.27	6.0 234.5 84.3 0 32.7 5.5 1.3 89.3
	Cause Lightning Vegetation Adverse environment Third party interference Wildlife Human error Defective equipment Cause unknown	0.07 0.41 0.09 0 0.26 0.07 0.03 0.71 0.27	6.0 234.5 84.3 0 32.7 5.5 1.3 89.3
	Cause Ughtning Vegetation Adverse weather Adverse environment Third party interference Wildlife Human error Defective equipment Cause unknown 10(iii): Class B Interruptions and Duration by Main Equipment Involved Main equipment involved	0.07 0.41 0.09 0.26 0.07 0.33 0.71 0.27 2d	60 2345 843 0 327 55 13 893 504
	Cause Lightning Vegetation Adverse environment Adverse environment Third party interference Wildlife Human error Defective equipment Cause unknown 10(iii): Class B Interruptions and Duration by Main Equipment Involved Main equipment involved Subtransmission lines	0.07 0.41 0.09 0.26 0.07 0.26 0.07 0.03 0.71 0.27 2d SAIFI 0	6.0 234.5 84.3 0 32.7 5.5 1.3 89.3 50.4 SAIDI 0.6
	Cause Ughtning Vegetation Adverse environment Adverse environment Third party interference Wildlife Human error Defective equipment Cause unknown 10(iii): Class B Interruptions and Duration by Main Equipment Involved Subtransmission lines Subtransmission lines Subtransmission lines	0.07 0.41 0.09 0.26 0.07 0.33 0.71 0.27 2d	60 2345 843 0 327 55 13 893 504
	Cause Lightning Vegetation Adverse environment Adverse environment Third party interference Wildlife Human error Defective equipment Cause unknown 10(iii): Class B Interruptions and Duration by Main Equipment Involved Main equipment involved Subtransmission lines	0.07 0.41 0.09 0.26 0.07 0.26 0.07 0.03 0.71 0.27 2d SAIFI 0 0 0 0 0 0.14	6.0 234.5 84.3 0 32.7 5.5 1.3 89.3 50.4 SAIDI 0.6 0
	Cause Ughtning Vegetation Adverse environment Adverse environment Third party interference Wildlife Human error Defective equipment Cause unknown 10(iii): Class B Interruptions and Duration by Main Equipment Involved Main equipment involved Subtransmission lines Subtransmission cables Subtransmission other Distribution cables (excluding LV) Distribution cables (excluding LV)	0.07 0.41 0.09 0 0.26 0.07 0.03 0.71 0.27 0.27 2d SAIFI 0 0 0 0 0 0 0 0 0 0 0 0 0	6.0 234.5 84.3 0 32.7 5.5 1.3 89.3 50.4 SAIDI 0.6 0 0.3 40.0 3.7
	Cause Ughtning Ugetation Adverse environment Adverse environment Third party interference Wildlife Human error Defective equipment Cause unknown 10(iii): Class B Interruptions and Duration by Main Equipment Involved Main equipment involved Subtransmission illnes Subtransmission ables	0.07 0.41 0.09 0.26 0.07 0.26 0.07 0.03 0.71 0.27 2d SAIFI 0 0 0 0 0 0.14	6.0 234.5 84.3 0 32.7 5.5 1.3 89.3 50.4 SAIDI 0.6 0 0.3 40.0
	Cause Ughtning Vegetation Adverse environment Adverse environment Third party interference Wildlife Human error Defective equipment Cause unknown 10(iii): Class B Interruptions and Duration by Main Equipment Involved Main equipment involved Subtransmission lines Subtransmission cables Subtransmission deles	0.07 0.41 0.09 0 0.26 0.07 0.03 0.71 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.20 0.20 0.20 0.20 0.03 0.71 0.27 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.71 0.27 0.27 0.27 0.71 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.2	6.0 234.5 84.3 0 32.7 5.5 1.3 89.3 50.4 SAIDI 0.6 0 0.3 40.0 3.7
	Cause Ughtning Vegetation Adverse environment Adverse environment Third party interference Wildlife Human error Defective equipment Cause unknown 10(iii): Class B Interruptions and Duration by Main Equipment Involved Main equipment involved Subtransmission lines Subtransmission cables Subtransmission other Distribution cables (excluding LV) Distribution cables (excluding LV)	0.07 0.41 0.09 0 0.26 0.07 0.03 0.71 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.20 0.20 0.20 0.20 0.03 0.71 0.27 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.71 0.27 0.27 0.27 0.71 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.2	6.0 234.5 84.3 0 32.7 5.5 1.3 89.3 50.4 SAIDI 0.6 0 0.3 40.0 3.7
	Cause Ughtning Vegetation Adverse environment Adverse environment Third party interference Wildlife Human error Defective equipment Cause unknown 10(iii): Class B Interruptions and Duration by Main Equipment Involved Main equipment involved Subtransmission lines Subtransmission cables Subtransmission deles	0.07 0.41 0.09 0 0.26 0.07 0.03 0.71 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.20 0.20 0.20 0.20 0.03 0.71 0.27 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.71 0.27 0.27 0.27 0.71 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.2	6.0 234.5 84.3 0 32.7 5.5 1.3 89.3 50.4 SAIDI 0.6 0 0.3 40.0 3.7
	Cause Ughtning Vegetation Adverse environment Adverse environment Third party interference Willifie Human error Defective equipment Cause unknown 10(iii): Class B Interruptions and Duration by Main Equipment Involved Subtransmission lines Subtransmission clates Subtransmiss	0.07 0.41 0.09 0 0.26 0.07 0.03 0.71 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.28 0.27 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.2	6.0 234.5 84.3 0 32.7 5.5 1.3 89.3 50.4 SAIDI 0.6 0 0.3 40.0 3.7 43.9 SAIDI 19.7
	Cause Lightning Vegetation Adverse environment Third party interference Wildlife Human error Defective equipment Cause unknown 10(iii): Class B Interruptions and Duration by Main Equipment Involved Main equipment involved Subtransmission lines Subtransmission cables Subtransmission cables Subtransmission cables (excluding LV) Distribution cables (excluding LV) Distribution other (excluding LV) 10(iv): Class C Interruptions and Duration by Main Equipment Involved Main equipment involved Subtransmission ines Subtransmission cables Subtra	0.07 0.41 0.09 0 0.26 0.07 0.03 0.71 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.28 0.02 0.27 0.28 0.27 0.27 0.27 0.27 0.27 0.28 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.2	60 2345 84.3 0 32.7 55 1.3 89.3 50.4 SAIDI 0.6 0 0.3 40.0 3.7 43.9 SAIDI 19.7 0.4
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	Cause Lightning Vegetation Adverse eveather Adverse environment Third party interference Wildlife Human error Defective equipment Cause unknown 10(iii): Class B Interruptions and Duration by Main Equipment Involved Subtransmission lines Subtransmission cables Subtransmission cables Subtransmission cables Subtransmission dater Distribution cables (excluding LV) Distribution other (excluding LV) Distribution cables (excluding LV) Distribution cables (excluding LV) Subtransmission cables Subt	0.07 0.41 0.09 0 0.26 0.07 0.03 0.71 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.22 0.22 0.22 0.22 0.2 0.2 0.2	60 2345 84.3 0 32.7 55 1.3 89.3 50.4 SAIDI 0.6 0 0.3 40.0 3.7 43.9 SAIDI 19.7 0.4 0.9 413.3 26.4
	Cause Ughtning Vegetation Adverse environment Adverse environment Third party interference Wildlife Human error Defective equipment Cause Unknown Defective equipment Cause unknown Defective equipment involved Subtransmission lines Subtransmission ables Subtransm	0.07 0.41 0.09 0.26 0.07 0.33 0.71 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.02 0.02 0.07 0.17 0.34 0.34 0.27 0.34 0.27 0.34 0.27 0.27 0.24 0.27 0.24 0.27 0.34 0.27 0.27 0.27 0.27 0.24 0.27 0.24 0.27 0.24 0.27 0.34 0.27 0.24 0.27 0.24 0.27 0.24 0.27 0.24 0.27 0.24 0.27 0.24 0.27 0.24 0.27 0.24 0.27 0.24 0.27 0.24 0.27 0.24 0.27 0.24 0.27 0.24 0.27 0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	60 2345 843 0 327 55 13 893 504 SAIDI 06 0 03 40.0 3.7 43.9 SAIDI 19.7 0.4 0.9 413.3 25.6 43.3
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	Cause Ughtning Vegetation Adverse weather Adverse environment Third party interference Wildiffe Human error Defective equipment Cause unknown	0.07 0.41 0.09 0.26 0.07 0.03 0.71 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.02 0.27 0.17 0.34 Cir Number of Faults 6 1,290 0.29 0.29 0.29 0.27 0.27 0.24 0.27 0.24 0.27 0.24 0.27 0.24 0.27 0.24 0.27 0.24 0.27 0.34 0.27 0.34 0.27 0.34 0.27 0.34 0.27 0.34 0.27 0.34 0.27 0.34 0.27 0.34 0.27 0.34 0.27 0.34 0.27 0.34 0.27 0.34 0.27 0.34 0.27 0.34 0.27 0.34 0.27 0.34 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.2	60 234.5 84.3 0 32.7 5.5 1.3 89.3 50.4 SAIDI 0.6 0 0.3 40.0 3.7 43.9 SAIDI 19.7 0.4 0.9 413.3 26.4 43.3 26.5 3763 34.28

		Company Name	Vector
		For Year Ended	31 March 2019
		etwork / Sub-network Name	Southern
	EDULE 10: REPORT ON NETWORK RELIABILITY chedule requires a summary of the key measures of network reliability (interruptions, SAIDI,	CALCL and fault rate) for the disclosure w	aar EDBs must provide evelopatory
mm	ent on their network reliability for the disclosure year in Schedule 14 (Explanatory notes to t	emplates). The SAIFI and SAIDI informat	
orm	nation (as defined in section 1.4 of the ID determination), and so is subject to the assurance	report required by section 2.8.	
f			
	10(i): Interruptions		
	Interruptions by class	Number of interruptions	
	Class A (planned interruptions by Transpower)	interruptions	
	Class B (planned interruptions on the network)	925	
	Class C (unplanned interruptions on the network)	848	
	Class D (unplanned interruptions by Transpower) Class E (unplanned interruptions of EDB owned generation)	0	
	Class F (unplanned interruptions of generation owned by others)	0	
	Class G (unplanned interruptions caused by another disclosing entity)	0	
	Class H (planned interruptions caused by another disclosing entity) Class I (interruptions caused by parties not included above)	0	
	Total	1,773	
		<211	+ 2h
	Interruption restoration Class C interruptions restored within	≤3Hrs 411	>3hrs 437
	SAIFI and SAIDI by class	SAIFI	SAIDI
	Class A (planned interruptions by Transpower)	0.36	0
	Class B (planned interruptions on the network) Class C (unplanned interruptions on the network)	1.62	406.2
	Class D (unplanned interruptions by Transpower)	0	0
	Class E (unplanned interruptions of EDB owned generation)	0	0
	Class F (unplanned interruptions of generation owned by others) Class G (unplanned interruptions caused by another disclosing entity)	0	0
	Class H (planned interruptions caused by another disclosing entity)	0	0
	Class I (interruptions caused by parties not included above)	0	0
	Total	1.98	476.1
	Normalised SAIFI and SAIDI	Normalised SAIFI Norm	alised SAIDI
	Classes B & C (interruptions on the network) (under the 2015 DPP)	1.46	145.4
	Classes B & C (interruptions on the network) (under the ID Determination 2012)	1.98	247.0
	10(ii): Class C Interruptions and Duration by Cause		
	To(ii). Class C interruptions and Duration by Cause		
	Cause	SAIFI	SAIDI
	Lightning	0.04	6.6
	Vegetation	0.31 0.05	170.0 55.5
	Adverse weather Adverse environment	0	0
	Third party interference	0.30	37.3
	Wildlife	0.06	4.8
	Human error Defective equipment	0.68	88.1
	Cause unknown	0.15	42.3
	10(iii): Class B Interruptions and Duration by Main Equipment	nvolved	
			CAIDI
	Main equipment involved Subtransmission lines	SAIFI	SAIDI 0
	Subtransmission cables	0	0
	Subtransmission other	0	0
	Distribution lines (excluding LV) Distribution cables (excluding LV)	0.14	32.8
	Distribution other (excluding LV)	0.19	32.4
		nyolyod	
	10(iv): Class C Interruptions and Duration by Main Equipment	nvolved	
	Main equipment involved	SAIFI	SAIDI
	Subtransmission lines	0.06	2.5
	Subtransmission cables	0	0
	Subtransmission other Distribution lines (excluding LV)	0.04	1.3 316.1
	Distribution lines (excluding LV) Distribution cables (excluding LV)	0.25	36.7
	Distribution other (excluding LV)	0.39	49.1
	10(v): Fault Rate		
	Main equipment involved	Circ Number of Faults	cuit length Fault rate ((km) per 1006
	Subtransmission lines	9	51
	Subtransmission cables	0	455
	Subtransmission other Distribution lines (excluding LV)	443	885
	Distribution cables (excluding LV)	142	2253
	and a second sec	243	
	Distribution other (excluding LV) Total	841	

		Company Name		ector
		For Year Ended		rch 2019
		Network / Sub-network Name	No	rthern
	EDULE 10: REPORT ON NETWORK RELIABILITY hedule requires a summary of the key measures of network reliability (interruptions, SA)	IDI. SAIFI and fault rate) for the disclosure	vear. EDBs must pi	ovide explanatory
mme	ent on their network reliability for the disclosure year in Schedule 14 (Explanatory notes	to templates). The SAIFI and SAIDI informa		
orm	ation (as defined in section 1.4 of the ID determination), and so is subject to the assurar	nce report required by section 2.8.		
f				
	10(i): Interruptions			
	Interruptions by class	Number of interruptions		
	Class A (planned interruptions by Transpower)	2		
	Class B (planned interruptions on the network)	796		
	Class C (unplanned interruptions on the network) Class D (unplanned interruptions by Transpower)	1,244		
	Class E (unplanned interruptions of EDB owned generation)	0		
	Class F (unplanned interruptions of generation owned by others)	0		
	Class G (unplanned interruptions caused by another disclosing entity)	0		
	Class H (planned interruptions caused by another disclosing entity) Class I (interruptions caused by parties not included above)	0		
	Total	2,043		
	Interruption restoration	≤3Hrs 660	>3hrs 584	
	Class C interruptions restored within	000		
	SAIFI and SAIDI by class	SAIFI	SAIDI	
	Class A (planned interruptions by Transpower)	0	0	
	Class B (planned interruptions on the network)	0.39	117.1	
	Class C (unplanned interruptions on the network) Class D (unplanned interruptions by Transpower)	2.34	649 0.5	
	Class E (unplanned interruptions of EDB owned generation)	0	0	
	Class F (unplanned interruptions of generation owned by others)	0	0	
	Class G (unplanned interruptions caused by another disclosing entity)	0	0	
	Class H (planned interruptions caused by another disclosing entity) Class I (interruptions caused by parties not included above)	0	0	
	Total	2.76	766.6	
	Normalised SAIFI and SAIDI	Normalised SAIFI Normalised SAIFI		
	Classes B & C (interruptions on the network) (under the 2015 DPP) Classes B & C (interruptions on the network) (under the ID Determination 2012)	1.86	219.2 328.7	
	classes blace (interruptions on the network) (under the to beternination 2012)	2.00	320.7	
	10/ii): Class C Interruptions and Duration by Cause			
	10(ii): Class C Interruptions and Duration by Cause			
	Cause	SAIFI	SAIDI	
	Lightning	0.12	5.1	
	Vegetation	0.56	329.6	
	Adverse weather	0.13	126.7 0	
	Adverse environment Third party interference	0.19	25.9	
	Wildlife	0.10	6.6	
	Human error	0.03	1.7	
	Defective equipment Cause unknown	0.76	91.2 62.3	
	cause unknown	0.44	02.5	
	10(iii): Class B Interruptions and Duration by Main Equipment	πιπνοινέα		
	Main equipment involved	SAIFI	SAIDI	
	Subtransmission lines	0	1.4	
	Subtransmission cables	0	0	
	Subtransmission other Distribution lines (excluding LV)	0 0.15	0.8	
	Distribution lines (excluding LV) Distribution cables (excluding LV)	0.02	3.6	
	Distribution other (excluding LV)	0.22	60.7	
	10(iv): Class C Interruptions and Duration by Main Equipmer	at Involved		
	Tolivy: Class C Interruptions and Duration by Main Equipmen	n nivolveu		
	Main equipment involved	SAIFI	SAIDI	
	Subtransmission lines	0.60	45.1	
		0.06	1.0	
	Subtransmission cables	0	0.4 556.3	
	Subtransmission other			
	Subtransmission other Distribution lines (excluding LV)	1.35 0.06	11.3	
	Subtransmission other	1.35		
	Subtransmission other Distribution lines (excluding LV) Distribution cables (excluding LV)	1.35 0.06	11.3	
	Subtransmission other Distribution lines (excluding LV) Distribution cables (excluding LV) Distribution other (excluding LV) 10(v): Fault Rate	1.35 0.06 0.26	11.3 34.8	
	Subtransmission other Distribution lines (excluding LV) Distribution cables (excluding LV) Distribution other (excluding LV)	1.35 0.06 0.26	11.3 34.8	per 100kr
	Subtransmission other Distribution lines (excluding LV) Distribution cables (excluding LV) Distribution other (excluding LV) 10(v): Fault Rate Main equipment involved	1.35 0.06 0.26 Number of Faults 37 3	11.3 34.8 rcuit length (km)	per 100kr 1
	Subtransmission other Distribution lines (excluding LV) Distribution cables (excluding LV) Distribution other (excluding LV) 10(v): Fault Rate Main equipment involved Subtransmission lines Subtransmission lines Subtransmission other	1.35 0.06 0.26 Number of Faults 37 3 2	11.3 34.8 rcuit length (km) 345 151	per 100kr 1
	Subtransmission other Distribution lines (excluding LV) Distribution cables (excluding LV) Distribution other (excluding LV) 10{v}: Fault Rate Main equipment involved Subtransmission lines Subtransmission other Distribution lines (excluding LV)	1.35 0.06 0.26 Number of Faults 37 3 2 847	11.3 34.8 rcuit length (km) 345 151 2878	per 100kr 1
	Subtransmission other Distribution lines (excluding LV) Distribution cables (excluding LV) Distribution other (excluding LV) 10(v): Fault Rate Main equipment involved Subtransmission lines Subtransmission lines Subtransmission other	1.35 0.06 0.26 Number of Faults 37 3 2	11.3 34.8 rcuit length (km) 345 151	Fault rate (fr