



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

Company Name	Vector
Disclosure Date	30 August 2021
Disclosure Year (year ended)	31 March 2021

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

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Disclosure Template Instructions

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

Company Name and Dates

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

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

The cell C8 entry (company name) is used in the template title blocks.

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

Data Entry Cells and Calculated Cells

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

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

Validation Settings on Data Entry Cells

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

Conditional Formatting Settings on Data Entry Cells

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

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

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

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

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

Inserting Additional Rows and Columns

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

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

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

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

Disclosures by Sub-Network

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

Schedule References

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

Description of Calculation References

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

Worksheet Completion Sequence

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

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

Company Name **Vector**
For Year Ended **31 March 2021**

SCHEDULE 1: ANALYTICAL RATIOS

This schedule calculates expenditure, revenue and service ratios from the information disclosed. The disclosed ratios may vary for reasons that are company specific and, as a result, must be interpreted with care. The Commerce Commission will publish a summary and analysis of information disclosed in accordance with the ID determination. This will include information disclosed in accordance with this and other schedules, and information disclosed under the other requirements of the determination.

This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8

sch ref

1(i): Expenditure metrics

	Expenditure per GWh energy delivered to ICPs (\$/GWh)	Expenditure per average no. of ICPs (\$/ICP)	Expenditure per MW maximum coincident system demand (\$/MW)	Expenditure per km circuit length (\$/km)	Expenditure per MVA of capacity from EDB-owned distribution transformers (\$/MVA)
Operational expenditure	15,494	218	73,527	6,644	27,168
Network	5,975	84	28,357	2,563	10,478
Non-network	9,518	134	45,171	4,082	16,691
Expenditure on assets	36,114	508	171,383	15,487	63,326
Network	33,202	467	157,563	14,239	58,220
Non-network	2,912	41	13,820	1,249	5,106

1(ii): Revenue metrics

	Revenue per GWh energy delivered to ICPs (\$/GWh)	Revenue per average no. of ICPs (\$/ICP)
Total consumer line charge revenue	68,275	961
Standard consumer line charge revenue	71,079	929
Non-standard consumer line charge revenue	31,844	602,742

1(iii): Service intensity measures

Demand density	90	Maximum coincident system demand per km of circuit length (for supply) (kW/km)
Volume density	429	Total energy delivered to ICPs per km of circuit length (for supply) (MWh/km)
Connection point density	30	Average number of ICPs per km of circuit length (for supply) (ICPs/km)
Energy intensity	14,071	Total energy delivered to ICPs per average number of ICPs (kWh/ICP)

1(iv): Composition of regulatory income

	(\$000)	% of revenue
Operational expenditure	127,202	23.19%
Pass-through and recoverable costs excluding financial incentives and wash-ups	191,320	34.88%
Total depreciation	129,773	23.66%
Total revaluations	53,983	9.84%
Regulatory tax allowance	29,632	5.40%
Regulatory profit/(loss) including financial incentives and wash-ups	120,457	21.96%
Total regulatory income	548,582	

1(v): Reliability

Interruption rate	15.72	Interruptions per 100 circuit km
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Company Name	Vector
For Year Ended	31 March 2021

SCHEDULE 2: REPORT ON RETURN ON INVESTMENT

This schedule requires information on the Return on Investment (ROI) for the EDB relative to the Commerce Commission's estimates of post tax WACC and vanilla WACC. EDBs must calculate their ROI based on a monthly basis if required by clause 2.3.3 of the ID Determination or if they elect to. If an EDB makes this election, information supporting this calculation must be provided in 2(iii).

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

This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

	CY-2 31 Mar 19 %	CY-1 31 Mar 20 %	Current Year CY 31 Mar 21 %
2(i): Return on Investment			
ROI – comparable to a post tax WACC			
Reflecting all revenue earned	5.23%	5.01%	3.10%
Excluding revenue earned from financial incentives	5.34%	5.11%	3.16%
Excluding revenue earned from financial incentives and wash-ups	5.41%	5.18%	3.16%
Mid-point estimate of post tax WACC	4.75%	4.27%	3.72%
25th percentile estimate	4.07%	3.59%	3.04%
75th percentile estimate	5.43%	4.95%	4.40%
ROI – comparable to a vanilla WACC			
Reflecting all revenue earned	5.74%	5.44%	3.43%
Excluding revenue earned from financial incentives	5.85%	5.54%	3.49%
Excluding revenue earned from financial incentives and wash-ups	5.92%	5.60%	3.49%
WACC rate used to set regulatory price path	7.19%	7.19%	4.57%
Mid-point estimate of vanilla WACC	5.26%	4.69%	4.05%
25th percentile estimate	4.58%	4.01%	3.37%
75th percentile estimate	5.94%	5.37%	4.73%
2(ii): Information Supporting the ROI			
			(\$000)
Total opening RAB value	3,564,758		
plus Opening deferred tax	(104,030)		
Opening RIV		3,460,728	
Line charge revenue		560,533	
Expenses cash outflow	318,522		
add Assets commissioned	215,214		
less Asset disposals	15,585		
add Tax payments	19,941		
less Other regulated income	(11,951)		
Mid-year net cash outflows		550,043	
Term credit spread differential allowance		4,181	
Total closing RAB value	3,689,337		
less Adjustment resulting from asset allocation	740		
less Lost and found assets adjustment	-		
plus Closing deferred tax	(113,721)		
Closing RIV		3,574,876	
ROI – comparable to a vanilla WACC			3.43%
Leverage (%)			42%
Cost of debt assumption (%)			2.82%
Corporate tax rate (%)			28%
ROI – comparable to a post tax WACC			3.10%



Company Name **Vector**
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SCHEDULE 2: REPORT ON RETURN ON INVESTMENT

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

This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

2(iii): Information Supporting the Monthly ROI

61								
62								
63	Opening RIV							N/A
64								
65								
66		Line charge revenue	Expenses cash outflow	Assets commissioned	Asset disposals	Other regulated income	Monthly net cash outflows	
67	April							-
68	May							-
69	June							-
70	July							-
71	August							-
72	September							-
73	October							-
74	November							-
75	December							-
76	January							-
77	February							-
78	March							-
79	Total	-	-	-	-	-	-	-
80								
81	Tax payments							N/A
82								
83	Term credit spread differential allowance							N/A
84								
85	Closing RIV							N/A
86								
87								
88	Monthly ROI – comparable to a vanilla WACC							N/A
89								
90	Monthly ROI – comparable to a post tax WACC							N/A
91								

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

92			
93			
94	Year-end ROI – comparable to a vanilla WACC		3.45%
95			
96	Year-end ROI – comparable to a post tax WACC		3.12%
97			
98	* these year-end ROI values are comparable to the ROI reported in pre 2012 disclosures by EDBs and do not represent the Commission's current view on ROI.		
99			

2(v): Financial Incentives and Wash-Ups

101			
102	Net recoverable costs allowed under incremental rolling incentive scheme		-
103	Purchased assets – avoided transmission charge		-
104	Energy efficiency and demand incentive allowance		-
105	Quality incentive adjustment	(4,449)	
106	Other financial incentives	1,725	
107	Financial incentives		(2,724)
108			
109	Impact of financial incentives on ROI		-0.06%
110			
111	Input methodology claw-back		-
112	CPP application recoverable costs		-
113	Catastrophic event allowance		-
114	Capex wash-up adjustment		-
115	Transmission asset wash-up adjustment		-
116	2013–15 NPV wash-up allowance		-
117	Reconsideration event allowance		-
118	Other wash-ups		-
119	Wash-up costs		-
120			
121	Impact of wash-up costs on ROI		-



Company Name **Vector**
 For Year Ended **31 March 2021**

SCHEDULE 3: REPORT ON REGULATORY PROFIT

This schedule requires information on the calculation of regulatory profit for the EDB for the disclosure year. All EDBs must complete all sections and provide explanatory comment on their regulatory profit in Schedule 14 (Mandatory Explanatory Notes). This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

3(i): Regulatory Profit		(\$000)	
7	Income		
8	Line charge revenue	560,533	
9	plus Gains / (losses) on asset disposals	(11,951)	
10	plus Other regulated income (other than gains / (losses) on asset disposals)	-	
11			
12	Total regulatory income	548,582	
13	Expenses		
14	less Operational expenditure	127,202	
15	less Pass-through and recoverable costs excluding financial incentives and wash-ups	191,320	
16			
17	Operating surplus / (deficit)	230,060	
18	less Total depreciation	129,773	
19	plus Total revaluations	53,983	
20			
21	Regulatory profit / (loss) before tax	154,270	
22	less Term credit spread differential allowance	4,181	
23	less Regulatory tax allowance	29,632	
24			
25	Regulatory profit/(loss) including financial incentives and wash-ups	120,457	
26			
27			
28			
29			
30			
31			
32			
33	3(ii): Pass-through and Recoverable Costs excluding Financial Incentives and Wash-Ups	(\$000)	
34	Pass through costs		
35	Rates	8,093	
36	Commerce Act levies	1,203	
37	Industry levies	2,046	
38	CPP specified pass through costs	-	
39	Recoverable costs excluding financial incentives and wash-ups		
40	Electricity lines service charge payable to Transpower	170,812	
41	Transpower new investment contract charges	7,632	
42	System operator services	-	
43	Distributed generation allowance	977	
44	Extended reserves allowance	-	
45	Other recoverable costs excluding financial incentives and wash-ups	557	
46	Pass-through and recoverable costs excluding financial incentives and wash-ups	191,320	
47			
48	3(iii): Incremental Rolling Incentive Scheme	(\$000)	
49			
50			
51	Allowed controllable opex	-	-
52	Actual controllable opex	-	-
53			
54	Incremental change in year		-
55			
56			
57			
58			
59			
60			
61			
62	Net incremental rolling incentive scheme		-
63			
64	Net recoverable costs allowed under incremental rolling incentive scheme		-
65	3(iv): Merger and Acquisition Expenditure		
66	Merger and acquisition expenditure		-
67			
68	<i>Provide commentary on the benefits of merger and acquisition expenditure to the electricity distribution business, including required disclosures in accordance with section 2.7, in Schedule 14 (Mandatory Explanatory Notes)</i>		
69	3(v): Other Disclosures		
70			
71	Self-insurance allowance		-



Company Name **Vector**
 For Year Ended **31 March 2021**

SCHEDULE 4: REPORT ON VALUE OF THE REGULATORY ASSET BASE (ROLLED FORWARD)

This schedule requires information on the calculation of the Regulatory Asset Base (RAB) value to the end of this disclosure year. This informs the ROI calculation in Schedule 2. EDBs must provide explanatory comment on the value of their RAB in Schedule 14 (Mandatory Explanatory Notes). This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

		for year ended				
		RAB 31 Mar 17 (\$000)	RAB 31 Mar 18 (\$000)	RAB 31 Mar 19 (\$000)	RAB 31 Mar 20 (\$000)	RAB 31 Mar 21 (\$000)
4(i): Regulatory Asset Base Value (Rolled Forward)						
	Total opening RAB value	2,682,398	2,879,136	2,951,716	3,075,471	3,564,758
	less Total depreciation	96,289	108,316	108,729	113,475	129,773
	plus Total revaluations	57,761	31,561	44,091	70,964	53,983
	plus Assets commissioned	249,121	156,888	203,460	815,133	215,214
	less Asset disposals	15,951	7,540	7,412	282,541	15,585
	plus Lost and found assets adjustment	-	-	-	-	-
	plus Adjustment resulting from asset allocation	2,095	(13)	(7,655)	(794)	740
	Total closing RAB value	2,879,136	2,951,716	3,075,471	3,564,758	3,689,337

		Unallocated RAB *		RAB	
		(\$000)	(\$000)	(\$000)	(\$000)
4(ii): Unallocated Regulatory Asset Base					
	Total opening RAB value		3,586,400		3,564,758
	less Total depreciation		134,543		129,773
	plus Total revaluations		54,300		53,983
	plus Assets commissioned (other than below)	208,791		207,200	
	Assets acquired from a regulated supplier	-		-	
	Assets acquired from a related party	8,014		8,014	
	Assets commissioned		216,805		215,214
	less Asset disposals (other than below)	12,895		12,198	
	Asset disposals to a regulated supplier	-		-	
	Asset disposals to a related party	3,387		3,387	
	Asset disposals		16,282		15,585
	plus Lost and found assets adjustment		-		-
	plus Adjustment resulting from asset allocation				740
	Total closing RAB value		3,706,680		3,689,337

* The 'unallocated RAB' is the total value of those assets used wholly or partially to provide electricity distribution services without any allowance being made for the allocation of costs to services provided by the supplier that are not electricity distribution services. The RAB value represents the value of these assets after applying this cost allocation. Neither value includes works under construction.

		Unallocated RAB *		RAB	
		(\$000)	(\$000)	(\$000)	(\$000)
4(iii): Calculation of Revaluation Rate and Revaluation of Assets					
	CPI _L				1.068
	CPI _L ⁴				1.052
	Revaluation rate (%)				1.52%
	Total opening RAB value		3,586,400		3,564,758
	less Opening value of fully depreciated, disposed and lost assets		17,878		17,060
	Total opening RAB value subject to revaluation		3,568,522		3,547,698
	Total revaluations		54,300		53,983

		Unallocated works under construction		Allocated works under construction	
4(iv): Roll Forward of Works Under Construction					
	Works under construction—preceding disclosure year		37,855		37,398
	plus Capital expenditure	210,000		209,069	
	less Assets commissioned	216,805		215,214	
	less Adjustment resulting from asset allocation			394	
	Works under construction - current disclosure year		31,050		30,859
	Highest rate of capitalised finance applied				4.30%

		Unallocated RAB *		RAB	
		(\$000)	(\$000)	(\$000)	(\$000)
4(v): Regulatory Depreciation					
	Depreciation - standard	85,971		85,971	
	Depreciation - no standard life assets	48,572		43,802	
	Depreciation - modified life assets	-		-	
	Depreciation - alternative depreciation in accordance with CPP	-		-	
	Total depreciation		134,543		129,773

		(\$000 unless otherwise specified)		
Asset or assets with changes to depreciation*	Reason for non-standard depreciation (text entry)	Depreciation charge for the period (RAB)	Closing RAB value	Closing RAB value
			under 'non-standard' depreciation	under 'standard' depreciation

* Include additional rows if needed

		(\$000 unless otherwise specified)									
		Subtransmission lines	Subtransmission cables	Zone substations	Distribution and LV lines	Distribution and LV cables	Distribution substations and transformers	Distribution switchgear	Other network assets	Non-network assets	Total
4(vii): Disclosure by Asset Category											
	Total opening RAB value	74,476	521,085	295,762	379,309	807,938	293,756	244,277	888,296	59,859	3,564,758
	less Total depreciation	2,055	13,266	11,478	11,018	27,398	10,054	10,088	28,270	16,149	129,773
	plus Total revaluations	1,133	7,923	4,469	5,773	12,275	4,457	3,660	13,377	916	53,983
	plus Assets commissioned	101	4,572	29,061	38,846	18,038	10,485	43,189	50,341	20,581	215,214
	less Asset disposals	84	64	1,790	2,107	2,004	573	3,540	3,680	1,743	15,585
	plus Lost and found assets adjustment	-	-	-	-	-	-	-	-	-	-
	plus Adjustment resulting from asset allocation	-	-	-	-	-	-	-	-	740	740
	plus Asset category transfers	-	-	-	-	-	-	-	-	-	-
	Total closing RAB value	73,571	520,253	316,024	410,803	808,849	298,071	277,498	920,064	64,204	3,689,337
	Asset Life										
	Weighted average remaining asset life	41	56	31	43	36	34	28	44	12	(years)



Company Name **Vector**
 For Year Ended **31 March 2021**

SCHEDULE 4: REPORT ON VALUE OF THE REGULATORY ASSET BASE (ROLLED FORWARD)

This schedule requires information on the calculation of the Regulatory Asset Base (RAB) value to the end of this disclosure year. This informs the ROI calculation in Schedule 2. EDBs must provide explanatory comment on the value of their RAB in Schedule 14 (Mandatory Explanatory Notes). This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

<i>sch ref</i>	Weighted average expected total asset life	59	71	42	58	60	45	36	51	15	(years)
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Company Name **Vector**
 For Year Ended **31 March 2021**

SCHEDULE 5a: REPORT ON REGULATORY TAX ALLOWANCE

This schedule requires information on the calculation of the regulatory tax allowance. This information is used to calculate regulatory profit/loss in Schedule 3 (regulatory profit). EDBs must provide explanatory commentary on the information disclosed in this schedule, in Schedule 14 (Mandatory Explanatory Notes). This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section

sch ref

		(\$000)	
7	5a(i): Regulatory Tax Allowance		
8	Regulatory profit / (loss) before tax		154,270
9			
10	<i>plus</i> Income not included in regulatory profit / (loss) before tax but taxable	-	*
11	Expenditure or loss in regulatory profit / (loss) before tax but not deductible	9,213	*
12	Amortisation of initial differences in asset values	32,020	
13	Amortisation of revaluations	11,095	
14			52,328
15			
16	<i>less</i> Total revaluations	53,983	
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	2,241	*
20	Notional deductible interest	44,546	
21			100,770
22			
23	Regulatory taxable income		105,828
24			
25	<i>less</i> Utilised tax losses	-	
26	Regulatory net taxable income		105,828
27			
28	Corporate tax rate (%)	28%	
29	Regulatory tax allowance		29,632

* Workings to be provided in Schedule 14

5a(ii): Disclosure of Permanent Differences

In Schedule 14, Box 5, provide descriptions and workings of items recorded in the asterisked categories in Schedule 5a(i).

		(\$000)	
34	5a(iii): Amortisation of Initial Difference in Asset Values		
35			
36	Opening unamortised initial differences in asset values	928,570	
37	<i>less</i> Amortisation of initial differences in asset values	32,020	
38	<i>plus</i> Adjustment for unamortised initial differences in assets acquired	-	
39	<i>less</i> Adjustment for unamortised initial differences in assets disposed	7,349	
40	Closing unamortised initial differences in asset values		889,201
41			
42	Opening weighted average remaining useful life of relevant assets (years)		29
43			



Company Name **Vector**
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SCHEDULE 5a: REPORT ON REGULATORY TAX ALLOWANCE

This schedule requires information on the calculation of the regulatory tax allowance. This information is used to calculate regulatory profit/loss in Schedule 3 (regulatory profit). EDBs must provide explanatory commentary on the information disclosed in this schedule, in Schedule 14 (Mandatory Explanatory Notes). This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section

sch ref

44	5a(iv): Amortisation of Revaluations			(\$000)
45				
46	Opening sum of RAB values without revaluations		3,248,864	
47				
48	Adjusted depreciation		118,678	
49	Total depreciation		129,773	
50	Amortisation of revaluations			11,095
51				
52	5a(v): Reconciliation of Tax Losses			(\$000)
53				
54	Opening tax losses			
55	plus Current period tax losses			
56	less Utilised tax losses			
57	Closing tax losses			-
58	5a(vi): Calculation of Deferred Tax Balance			(\$000)
59				
60	Opening deferred tax		(104,030)	
61				
62	plus Tax effect of adjusted depreciation		33,230	
63				
64	less Tax effect of tax depreciation		36,026	
65				
66	plus Tax effect of other temporary differences*		1,869	
67				
68	less Tax effect of amortisation of initial differences in asset values		8,966	
69				
70	plus Deferred tax balance relating to assets acquired in the disclosure year		-	
71				
72	less Deferred tax balance relating to assets disposed in the disclosure year		561	
73				
74	plus Deferred tax cost allocation adjustment		763	
75				
76	Closing deferred tax			(113,721)
77				
78	5a(vii): Disclosure of Temporary Differences			
79	<i>In Schedule 14, Box 6, provide descriptions and workings of items recorded in the asterisked category in Schedule 5a(vi) (Tax effect of other temporary differences).</i>			
80				
81	5a(viii): Regulatory Tax Asset Base Roll-Forward			
82				(\$000)
83	Opening sum of regulatory tax asset values		1,259,310	
84	less Tax depreciation		128,666	
85	plus Regulatory tax asset value of assets commissioned		219,279	
86	less Regulatory tax asset value of asset disposals		4,989	
87	plus Lost and found assets adjustment		-	
88	plus Adjustment resulting from asset allocation		3,466	
89	plus Other adjustments to the RAB tax value		-	
90	Closing sum of regulatory tax asset values			1,348,400



Company Name **Vector**
 For Year Ended **31 March 2021**

SCHEDULE 5b: REPORT ON RELATED PARTY TRANSACTIONS

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

sch ref

		(\$000)	(\$000)
7	5b(i): Summary—Related Party Transactions		
8	Total regulatory income		–
9			
10	Market value of asset disposals		–
11			
12	Service interruptions and emergencies	–	
13	Vegetation management	7,193	
14	Routine and corrective maintenance and inspection	–	
15	Asset replacement and renewal (opex)	–	
16	Network opex		7,193
17	Business support	–	
18	System operations and network support	10,776	
19	Operational expenditure		17,969
20	Consumer connection	–	
21	System growth	5,068	
22	Asset replacement and renewal (capex)	714	
23	Asset relocations	–	
24	Quality of supply	–	
25	Legislative and regulatory	–	
26	Other reliability, safety and environment	252	
27	Expenditure on non-network assets		129
28	Expenditure on assets		6,163
29	Cost of financing		38
30	Value of capital contributions		–
31	Value of vested assets		–
32	Capital Expenditure		6,201
33	Total expenditure		24,170
34			
35	Other related party transactions		–

			Total value of transactions (\$000)
36	5b(iii): Total Opex and Capex Related Party Transactions		
37	Name of related party	Nature of opex or capex service provided	
38			
39	PowerSmart NZ Limited	Other reliability, safety and environment	157
40	PowerSmart NZ Limited	System growth	81
41	Vector Communications Limited	Asset replacement and renewal (capex)	338
42	Vector Communications Limited	System growth	27
43	Vector Communications Limited	Other reliability, safety and environment	79
44	Vector Communications Limited	System operations and network support	4,029
45	Tree Scope Limited	Vegetation management	7,193
46	Tree Scope Limited	Asset replacement and renewal (capex)	376
47	Tree Scope Limited	Other reliability, safety and environment	16
48	Cristal Air International Limited	Expenditure on non-network assets	129
49	Vector Auckland Property Limited	System growth	1,415
50	Vector Northern Property Limited	System growth	3,545
51	Vector Technology Services Limited	System operations and network support	6,747
52	Total value of related party transactions		24,132
53			

In accordance with clause 2.3.8(1) and (2) of the ID determination, a description showing the connection between Vector and the related parties with which it has had related party transactions in the disclosure year and the principal activities of the related party is disclosed below:

Related party	Relationship	Principal activities	Amount (\$000) excluded cost of financing
Vector communications limited	a wholly owned subsidiary of Vector limited	Network communications and SCADA services	4,473
Tree Scope limited	an associate in which Vector limited holds a 50% interest	Vegetation management services	7,585
PowerSmart NZ limited	a wholly owned subsidiary of Vector limited	Energy solutions services	238
Cristal Air International limited	a wholly owned subsidiary of Vector limited	Energy solutions services	129
Vector technology services limited	a wholly owned subsidiary of Vector limited	Digital and technology services	6,747
Vector Auckland property limited	a wholly owned subsidiary of Vector limited	Asset management services	1,415
Vector Northern property limited	a wholly owned subsidiary of Vector limited	Asset management services	3,545



Company Name **Vector**
 For Year Ended **31 March 2021**

SCHEDULE 5c: REPORT ON TERM CREDIT SPREAD DIFFERENTIAL ALLOWANCE

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

sch ref

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

Issuing party	Issue date	Pricing date	Original tenor (in years)	Coupon rate (%)	Book value at issue date (NZD)	Book value at date of financial statements (NZD)	Term Credit Spread Difference	Debt issue cost readjustment
[J]VCI	2-Feb-18	19-Dec-17	3	BKBM + [J]VCI				
[J]VCI	2-Feb-18	19-Dec-17	3	BKBM + [J]VCI				
[J]VCI	2-Feb-18	19-Dec-17	3	BKBM + [J]VCI				
[J]VCI	2-Feb-18	19-Dec-17	3	BKBM + [J]VCI				
[J]VCI	31-Jul-18	17-Jul-18	3	BKBM + [J]VCI				
[J]VCI	31-Jul-18	17-Jul-18	3	BKBM + [J]VCI				
[J]VCI	31-Jul-18	17-Jul-18	3	BKBM + [J]VCI				
[J]VCI	16-Sep-19	24-Jul-19	3	BKBM + [J]VCI				
[J]VCI	16-Sep-19	24-Jul-19	3	BKBM + [J]VCI				
[J]VCI	16-Sep-19	24-Jul-19	3	BKBM + [J]VCI				
[J]VCI	16-Sep-19	24-Jul-19	3	BKBM + [J]VCI				
[J]VCI	16-Sep-19	24-Jul-19	3	BKBM + [J]VCI				
[J]VCI	16-Apr-20	15-Apr-20	3	BKBM + [J]VCI				
[J]VCI	13-Jan-20	20-Dec-19	5	BKBM + [J]VCI				
Subtotal of bank facilities- variable rate						148,683		
Capital bonds – fixed rate	15-Jun-17	14-Jun-17	5	5.7	307,205	306,511	[J]VCI	[J]VCI
Wholesale Bonds- fixed rate Mar17	14-Mar-17	3-Mar-17	7	4.996	100,000		[J]VCI	[J]VCI
Wholesale Bonds- fixed rate Jun18	25-Jun-18	21-Jun-18	5.7	4.996	140,000		[J]VCI	[J]VCI
Subtotal of wholesale bonds- variable rate					240,000	243,100	[J]VCI	[J]VCI
Senior notes - 2020 USPP 12yr	12-Mar-20	4-Mar-20	12	[J]VCI	573,888		[J]VCI	[J]VCI
Senior notes - 2020 USPP 15 yr	12-Mar-20	4-Mar-20	15	[J]VCI	223,179		[J]VCI	[J]VCI
Senior notes - 2010 USPP 12yr	20-Dec-10	22-Sep-10	12	[J]VCI	250,516		[J]VCI	[J]VCI
Senior notes - 2014 USPP 7yr	14-Oct-14	19-Jun-14	7	[J]VCI	150,000		[J]VCI	[J]VCI
Senior notes - 2017 USPP 10yr	25-Oct-17	28-Sep-17	10	[J]VCI	277,200		[J]VCI	[J]VCI
Senior notes - 2017 USPP 12yr	25-Oct-17	28-Sep-17	12	[J]VCI	138,600		[J]VCI	[J]VCI
Subtotal of senior notes - USD fixed rate					1,613,383	1,839,871	[J]VCI	[J]VCI
Floating rate notes- variable rate	26-Oct-05	26-Oct-05	15	BKBM + [J]VCI	350,000	349,899	[J]VCI	[J]VCI
Unsubordinated fixed rate bonds	27-May-19	16-May-19	6.0	3.45	250,000	247,536	[J]VCI	[J]VCI
<i>* include additional rows if needed</i>						3,135,600	11,032	(2,426)

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

Gross term credit spread differential		8,606
Total book value of interest bearing debt	3,135,600	
Leverage	42%	
Average opening and closing RAB values	3,627,048	
Attribution Rate (%)		49%
Term credit spread differential allowance		4,181



Company Name **Vector**
For Year Ended **31 March 2021**

SCHEDULE 5d: REPORT ON COST ALLOCATIONS

This schedule provides information on the allocation of operational costs. EDBs must provide explanatory comment on their cost allocation in Schedule 14 (Mandatory Explanatory Notes), including on the impact of any reclassifications. This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

		Value allocated (\$000s)				
		Arm's length deduction	Electricity distribution services	Non-electricity distribution services	Total	OVABAA allocation increase (\$000s)
5d(i): Operating Cost Allocations						
Service interruptions and emergencies						
	Directly attributable		13,329			
	Not directly attributable	-	-	-	-	-
	Total attributable to regulated service		13,329			
Vegetation management						
	Directly attributable		8,667			
	Not directly attributable	-	-	-	-	-
	Total attributable to regulated service		8,667			
Routine and corrective maintenance and inspection						
	Directly attributable		16,027			
	Not directly attributable	-	(15)	(3)	(18)	-
	Total attributable to regulated service		16,012			
Asset replacement and renewal						
	Directly attributable		11,049			
	Not directly attributable	-	-	-	-	-
	Total attributable to regulated service		11,049			
System operations and network support						
	Directly attributable		35,362			
	Not directly attributable	-	7,632	987	8,619	-
	Total attributable to regulated service		42,994			
Business support						
	Directly attributable		1,066			
	Not directly attributable	-	34,085	18,085	52,170	-
	Total attributable to regulated service		35,151			
	Operating costs directly attributable		85,500			
	Operating costs not directly attributable	-	41,702	19,069	60,771	-
	Operational expenditure		127,202			

		(\$000)	
5d(ii): Other Cost Allocations			
Pass through and recoverable costs			
Pass through costs			
	Directly attributable		11,342
	Not directly attributable		-
	Total attributable to regulated service		11,342
Recoverable costs			
	Directly attributable		179,978
	Not directly attributable		-
	Total attributable to regulated service		179,978

		(\$000)	
		CY-1	Current Year (CY)
5d(iii): Changes in Cost Allocations* †			
Change in cost allocation 1			
Cost category		Original allocation	
Original allocator or line items		New allocation	
New allocator or line items		Difference	-
Rationale for change			
Change in cost allocation 2			
Cost category		Original allocation	
Original allocator or line items		New allocation	
New allocator or line items		Difference	-
Rationale for change			
Change in cost allocation 3			
Cost category		Original allocation	
Original allocator or line items		New allocation	
New allocator or line items		Difference	-
Rationale for change			

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



Company Name **Vector**
 For Year Ended **31 March 2021**

SCHEDULE 5e: REPORT ON ASSET ALLOCATIONS

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

sch ref

5e(i): Regulated Service Asset Values		Value allocated (\$000s)
		Electricity distribution services
Subtransmission lines		
Directly attributable		72,144
Not directly attributable		1,427
Total attributable to regulated service		73,571
Subtransmission cables		
Directly attributable		520,253
Not directly attributable		
Total attributable to regulated service		520,253
Zone substations		
Directly attributable		316,024
Not directly attributable		
Total attributable to regulated service		316,024
Distribution and LV lines		
Directly attributable		362,568
Not directly attributable		48,235
Total attributable to regulated service		410,803
Distribution and LV cables		
Directly attributable		790,595
Not directly attributable		18,254
Total attributable to regulated service		808,849
Distribution substations and transformers		
Directly attributable		298,071
Not directly attributable		-
Total attributable to regulated service		298,071
Distribution switchgear		
Directly attributable		277,498
Not directly attributable		-
Total attributable to regulated service		277,498
Other network assets		
Directly attributable		915,393
Not directly attributable		4,671
Total attributable to regulated service		920,064
Non-network assets		
Directly attributable		35,357
Not directly attributable		28,847
Total attributable to regulated service		64,204
Regulated service asset value directly attributable		3,587,903
Regulated service asset value not directly attributable		101,434
Total closing RAB value		3,689,337

5e(ii): Changes in Asset Allocations* †		(\$000)	
		CY-1	Current Year (CY)
Change in asset value allocation 1			
Asset category	Non Network Assets	Original allocation	437
Original allocator or line items	Property, plant and equipment ratio for regulated businesses	New allocation	319
New allocator or line items	Directly attributable	Difference	(61)
Rationale for change	Assets have been repurposed.		
Change in asset value allocation 2			
Asset category	Non Network Assets	Original allocation	-
Original allocator or line items	Not attributable	New allocation	425
New allocator or line items	Directly attributable	Difference	(595)
Rationale for change	Assets have been repurposed.		
Change in asset value allocation 3			
Asset category	Non Network Assets	Original allocation	1,523
Original allocator or line items	Relevant employee ratio	New allocation	933
New allocator or line items	Property, plant and equipment ratio for regulated businesses	Difference	(1,546)
Rationale for change	Assets have been repurposed.		
Change in asset value allocation 4			
Asset category		Original allocation	
Original allocator or line items		New allocation	
New allocator or line items		Difference	
Rationale for change			
Change in asset value allocation 5			
Asset category		Original allocation	
Original allocator or line items		New allocation	
New allocator or line items		Difference	
Rationale for change			

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



Company Name **Vector**
 For Year Ended **31 March 2021**

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

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

sch ref

	(\$000)	(\$000)
6a(i): Expenditure on Assets		
Consumer connection		73,289
System growth		43,465
Asset replacement and renewal		100,567
Asset relocations		31,297
Reliability, safety and environment:		
Quality of supply	400	
Legislative and regulatory	158	
Other reliability, safety and environment	23,408	
Total reliability, safety and environment		23,966
Expenditure on network assets		272,584
Expenditure on non-network assets		23,908
Expenditure on assets		296,492
plus Cost of financing		587
less Value of capital contributions		88,010
plus Value of vested assets		-
Capital expenditure		209,069
6a(ii): Subcomponents of Expenditure on Assets (where known)		(\$000)
Energy efficiency and demand side management, reduction of energy losses		-
Overhead to underground conversion		12,628
Research and development		173
6a(iii): Consumer Connection		
Consumer types defined by EDB*	(\$000)	(\$000)
Service connection	16,921	
Customer substations	16,306	
Business subdivisions	3,501	
Residential subdivisions	31,842	
Capacity change	3,150	
Street lighting	1,566	
Easement costs	3	
* include additional rows if needed		
Consumer connection expenditure		73,289
less Capital contributions funding consumer connection expenditure	71,332	
Consumer connection less capital contributions		1,957
6a(iv): System Growth and Asset Replacement and Renewal		
	System Growth (\$000)	Asset Replacement and Renewal (\$000)
Subtransmission	10,233	1,207
Zone substations	11,066	20,438
Distribution and LV lines	4,430	48,720
Distribution and LV cables	4,167	7,379
Distribution substations and transformers	943	6,074
Distribution switchgear	677	14,673
Other network assets	11,949	2,076
System growth and asset replacement and renewal expenditure	43,465	100,567
less Capital contributions funding system growth and asset replacement and renewal	26	153
System growth and asset replacement and renewal less capital contributions	43,439	100,414
6a(v): Asset Relocations		
Project or programme*	(\$000)	(\$000)
* include additional rows if needed		
All other projects or programmes - asset relocations	31,297	
Asset relocations expenditure		31,297
less Capital contributions funding asset relocations	16,495	
Asset relocations less capital contributions		14,802



Company Name **Vector**
 For Year Ended **31 March 2021**

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

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

sch ref

68				
69	6a(vi): Quality of Supply			
70	Project or programme*	(\$000)	(\$000)	
71				
72				
73				
74				
75				
76	* include additional rows if needed			
77	All other projects programmes - quality of supply	400		400
78	Quality of supply expenditure			400
79	less Capital contributions funding quality of supply	-		
80	Quality of supply less capital contributions			400
81	6a(vii): Legislative and Regulatory			
82	Project or programme*	(\$000)	(\$000)	
83				
84				
85				
86				
87				
88	* include additional rows if needed			
89	All other projects or programmes - legislative and regulatory	158		158
90	Legislative and regulatory expenditure			158
91	less Capital contributions funding legislative and regulatory	4		
92	Legislative and regulatory less capital contributions			154
93	6a(viii): Other Reliability, Safety and Environment			
94	Project or programme*	(\$000)	(\$000)	
95				
96				
97				
98				
99				
100	* include additional rows if needed			
101	All other projects or programmes - other reliability, safety and environment	23,408		23,408
102	Other reliability, safety and environment expenditure			23,408
103	less Capital contributions funding other reliability, safety and environment	-		
104	Other reliability, safety and environment less capital contributions			23,408
105				
106	6a(ix): Non-Network Assets			
107	Routine expenditure			
108	Project or programme*	(\$000)	(\$000)	
109				
110				
111				
112				
113				
114	* include additional rows if needed			
115	All other projects or programmes - routine expenditure	3,617		3,617
116	Routine expenditure			3,617
117	Atypical expenditure			
118	Project or programme*	(\$000)	(\$000)	
119				
120				
121				
122				
123				
124	* include additional rows if needed			
125	All other projects or programmes - atypical expenditure	20,291		20,291
126	Atypical expenditure			20,291
127				
128	Expenditure on non-network assets			23,908



Company Name **Vector**
 For Year Ended **31 March 2021**

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

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

sch ref

		(\$000)	(\$000)
7	6b(i): Operational Expenditure		
8	Service interruptions and emergencies	13,329	
9	Vegetation management	8,667	
10	Routine and corrective maintenance and inspection	16,012	
11	Asset replacement and renewal	11,049	
12	Network opex		49,057
13	System operations and network support	42,994	
14	Business support	35,151	
15	Non-network opex		78,145
16			
17	Operational expenditure		127,202
18	6b(ii): Subcomponents of Operational Expenditure (where known)		
19	Energy efficiency and demand side management, reduction of energy losses		
20	Direct billing*		
21	Research and development		
22	Insurance		3,140
23	<i>* Direct billing expenditure by suppliers that directly bill the majority of their consumers</i>		



Company Name	Vector
For Year Ended	31 March 2021

SCHEDULE 7: COMPARISON OF FORECASTS TO ACTUAL EXPENDITURE

This schedule compares actual revenue and expenditure to the previous forecasts that were made for the disclosure year. Accordingly, this schedule requires the forecast revenue and expenditure information from previous disclosures to be inserted.

EDBs must provide explanatory comment on the variance between actual and target revenue and forecast expenditure in Schedule 14 (Mandatory Explanatory Notes). This information is part of the audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8. For the purpose of this audit, target revenue and forecast expenditures only need to be verified back to previous disclosures

sch ref

	Target (\$000) ¹	Actual (\$000)	% variance
7(i): Revenue			
Line charge revenue	565,200	560,533	(1%)
7(ii): Expenditure on Assets	Forecast (\$000) ²	Actual (\$000)	% variance
Consumer connection	67,133	73,289	9%
System growth	46,551	43,465	(7%)
Asset replacement and renewal	111,988	100,567	(10%)
Asset relocations	32,778	31,297	(5%)
Reliability, safety and environment:			
Quality of supply	–	400	–
Legislative and regulatory	–	158	–
Other reliability, safety and environment	27,141	23,408	(14%)
Total reliability, safety and environment	27,141	23,966	(12%)
Expenditure on network assets	285,591	272,584	(5%)
Expenditure on non-network assets	43,790	23,908	(45%)
Expenditure on assets	329,381	296,492	(10%)
7(iii): Operational Expenditure			
Service interruptions and emergencies	14,173	13,329	(6%)
Vegetation management	10,217	8,667	(15%)
Routine and corrective maintenance and inspection	18,458	16,012	(13%)
Asset replacement and renewal	13,836	11,049	(20%)
Network opex	56,684	49,057	(13%)
System operations and network support	37,365	42,994	15%
Business support	37,441	35,151	(6%)
Non-network opex	74,806	78,145	4%
Operational expenditure	131,490	127,202	(3%)
7(iv): Subcomponents of Expenditure on Assets (where known)			
Energy efficiency and demand side management, reduction of energy losses	–	–	–
Overhead to underground conversion	8,056	12,628	57%
Research and development	–	173	–
7(v): Subcomponents of Operational Expenditure (where known)			
Energy efficiency and demand side management, reduction of energy losses	–	–	–
Direct billing	–	–	–
Research and development	–	–	–
Insurance	3,252	3,140	(3%)

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

2 From the CY+1 nominal dollar expenditure forecasts disclosed in accordance with clause 2.6.6 for the forecast period starting at the beginning of the disclosure year (the second to last disclosure of Schedules 11a and 11b)



Company Name	Vector Ltd
For Year Ended	31 March 2020
Network / Sub-Network Name	Combined

SCHEDULE 8: REPORT ON BILLED QUANTITIES AND LINE CHARGE REVENUES

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

sch ref

8(i): Billed Quantities by Price Component

Billed quantities by price component

Consumer group name or price category code	Consumer type or types (eg, residential, commercial etc.)	Standard or non-standard consumer group (specify)	Average no. of ICs in disclosure year	Energy delivered to ICs in disclosure year (MWh)
ARCL	residential	Standard	47,575	263,153
ARCS	residential	Standard	32,637	313,690
ARUL	residential	Standard	11,808	42,698
ARUS	residential	Standard	9,922	53,184
ARHLC	residential	Standard	115,307	597,384
ARHSC	residential	Standard	59,628	629,698
ARHL	residential	Standard	18,129	72,930
ARHS	residential	Standard	8,153	68,337
ABSN	general	Standard	38,660	497,879
ABSU	general	Standard	1,706	26,021
ABSH	general	Standard	8,111	166,760
ALVN	low voltage	Standard	2,323	229,861
ALVT	low voltage	Standard	1,431	516,243
ATXN	transformer	Standard	162	20,515
ATXT	transformer	Standard	950	1,078,755
AHVN	high voltage	Standard	7	572
AHVT	high voltage	Standard	143	400,696
WRCL	residential	Standard	34,025	190,751
WRCS	residential	Standard	26,882	264,425
WRUL	residential	Standard	6,710	34,321
WRUS	residential	Standard	8,214	61,217
WRHLC	residential	Standard	71,145	379,077
WRHSC	residential	Standard	42,612	456,803
WRHL	residential	Standard	13,402	66,708
WRHS	residential	Standard	8,733	86,360
WBSN	general	Standard	14,855	231,221
WBSU	general	Standard	710	15,754
WBSH	general	Standard	7,916	129,843
WLVN	low voltage	Standard	906	115,074
WLVT	low voltage	Standard	258	124,787
WTKN	transformer	Standard	132	33,393
WTKH	transformer	Standard	279	342,409
WHVN	high voltage	Standard	-	-
WHVH	high voltage	Standard	24	112,644
NS	non-standard	Non-standard	31	586,758
<i>Add extra rows for additional consumer groups or price category codes as necessary</i>				
Standard consumer totals			583,452	7,623,173
Non-standard consumer totals			31	586,758
Total for all consumers			583,483	8,209,931

Unit charging basis (eg, days, kW of demand, kVA of capacity, etc.)

Price component	FIXD	AICO	24UC	OPFK	PEAK	CAPY	DAMD	DEXA	PWRP
Day	kWh	kWh	kWh	kWh	kWh	kVA/Day	kVA/Day	kVA/Day	kVA/Day
	17,461,127	263,152,728	-	-	-	-	-	-	-
	11,982,321	313,689,887	-	-	-	-	-	-	-
	4,338,725	-	42,698,065	-	-	-	-	-	-
	3,637,078	-	53,184,340	-	-	-	-	-	-
	42,013,538	-	-	414,155,210	183,228,337	-	-	-	-
	21,736,170	-	-	440,055,160	189,643,307	-	-	-	-
	6,606,676	-	-	50,517,432	22,412,496	-	-	-	-
	2,965,710	-	-	47,623,767	20,713,673	-	-	-	-
	10,443,431	-	-	497,878,559	-	-	-	-	-
	26,078,972	-	-	26,021,031	-	-	-	-	-
	2,939,847	-	-	118,309,804	48,450,281	-	-	-	-
	849,304	-	229,860,564	-	-	126,680,919	-	-	320,135
	-	-	516,242,640	-	-	138,539,806	43,717,347	-	3,688,361
	59,182	-	20,515,005	-	-	13,418,908	-	-	14,860
	-	-	1,078,755,242	-	-	252,907,685	86,254,638	-	3,834,076
	2,555	-	571,853	-	-	517,933	-	-	6,377
	-	-	400,696,729	-	-	60,672,920	29,932,667	36,468	1,243,625
	12,468,196	190,750,601	-	-	-	-	-	-	-
	9,852,089	264,424,887	-	-	-	-	-	-	-
	2,461,624	-	34,320,985	-	-	-	-	-	-
	3,021,854	-	61,217,384	-	-	-	-	-	-
	25,934,747	-	-	261,954,710	117,122,765	-	-	-	-
	15,535,327	-	-	318,310,445	138,492,180	-	-	-	-
	4,886,726	-	-	45,929,665	20,778,055	-	-	-	-
	3,182,497	-	-	59,901,528	26,458,795	-	-	-	-
	5,405,779	-	231,230,715	-	-	-	-	-	-
	16,432,967	-	15,754,340	-	-	-	-	-	-
	2,861,159	-	-	91,833,398	38,009,454	-	-	-	-
	331,752	-	115,073,730	-	-	48,916,985	-	-	283,628
	94,132	-	124,786,701	-	-	24,970,945	9,808,260	-	694,689
	48,299	-	33,393,176	-	-	11,780,426	-	-	159,999
	102,001	-	342,408,724	-	-	76,488,925	27,099,056	-	1,177,690
	8,964	-	-	-	-	-	-	-	-
	1,460	-	112,643,824	-	-	14,953,890	7,775,778	13,706	168,953
	-	-	-	-	-	-	-	-	12,277
	253,742,749	1,032,018,103	3,937,252,407	1,848,591,119	805,309,343	769,849,344	204,587,746	50,174	11,592,393
	1,460	-	-	-	-	-	-	-	12,277
	253,744,209	1,032,018,103	3,937,252,407	1,848,591,119	805,309,343	769,849,344	204,587,746	50,174	11,604,670

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

Company Name	Vector Ltd
For Year Ended	31 March 2020
Network / Sub-Network Name	Combined

SCHEDULE 8: REPORT ON BILLED QUANTITIES AND LINE CHARGE REVENUES

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

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

Line charge revenues (\$000) by price component

Consumer group name or price category code	Consumer type or types (eg, residential, commercial etc.)	Standard or non-standard consumer group (specify)	Total line charge revenue in disclosure year	Notional revenue foregone from posted discounts (if applicable)	Total distribution line charge revenue	Total transmission line charge revenue (if available)	Rate (eg, \$ per day, \$ per kWh, etc.)	Price component									
								FIXD	AICO	24UC	OPFK	PEAK	CAPY	DAMD	DEXA	PWRP	
								Day	kWh	kWh	kWh	kWh	kWh	kVA/Day	kVA/Day	kVA/Day	kVA/Day
ARCL	residential	Standard	\$25,242		\$17,163	\$8,079		\$2,610	\$22,632								
ARCS	residential	Standard	\$26,784		\$17,154	\$9,630		\$12,060	\$14,724								
ARUL	residential	Standard	\$4,585		\$3,009	\$1,576		\$649		\$3,936							
ARUS	residential	Standard	\$6,486		\$4,523	\$1,963		\$3,661		\$2,825							
ARHLC	residential	Standard	\$56,634		\$43,203	\$13,431		\$6,280		\$25,630	\$24,724						
ARHSC	residential	Standard	\$50,102		\$36,201	\$13,901		\$21,878		\$10,043	\$18,181						
ARHL	residential	Standard	\$7,558		\$5,494	\$2,064		\$988		\$3,126	\$3,444						
ARNS	residential	Standard	\$6,446		\$4,538	\$1,908		\$2,985		\$1,087	\$2,374						
ABSX	general	Standard	\$36,957		\$18,585	\$18,372		\$10,512		\$26,445							
ABSU	general	Standard	\$2,746		\$2,069	\$677		\$2,079		\$667							
ABSH	general	Standard	\$11,212		\$6,750	\$4,462		\$2,959		\$2,700	\$5,553						
ALVN	low voltage	Standard	\$19,308		\$15,010	\$4,298		\$1,507		\$12,393			\$5,315				\$93
ALVT	low voltage	Standard	\$25,766		\$17,460	\$8,306				\$6,174			\$5,812	\$12,708			\$1,072
ATXN	transformer	Standard	\$1,742		\$1,358	\$384		\$103		\$1,084			\$551				\$4
ATXT	transformer	Standard	\$48,644		\$32,256	\$16,388				\$12,578			\$10,384	\$24,567			\$1,115
ARVN	high voltage	Standard	\$56		\$45	\$11		\$4		\$29			\$21				\$2
ARVT	high voltage	Standard	\$15,588		\$9,901	\$5,687				\$4,312			\$2,413	\$8,269		\$32	\$362
WRCL	residential	Standard	\$18,293		\$12,427	\$5,856		\$1,865	\$16,418								
WRCS	residential	Standard	\$22,346		\$14,228	\$8,118		\$9,924	\$12,422								
WRUL	residential	Standard	\$3,534		\$2,268	\$1,266		\$368		\$3,166							
WRUS	residential	Standard	\$6,298		\$4,039	\$2,259		\$3,044		\$3,254							
WRHLC	residential	Standard	\$35,921		\$27,336	\$8,585		\$3,880		\$16,224	\$15,817						
WRHSC	residential	Standard	\$36,207		\$26,056	\$10,151		\$15,649		\$7,270	\$13,288						
WRHL	residential	Standard	\$6,772		\$4,858	\$1,914		\$731		\$2,845	\$3,196						
WRHS	residential	Standard	\$7,609		\$5,172	\$2,437		\$3,206		\$1,368	\$3,035						
WRBS	general	Standard	\$17,737		\$9,205	\$8,532		\$5,445		\$12,292							
WRSL	general	Standard	\$1,715		\$1,305	\$410		\$1,311		\$404							
WRSH	general	Standard	\$9,339		\$5,838	\$3,501		\$2,882		\$2,097	\$4,360						
WLVN	low voltage	Standard	\$7,481		\$5,329	\$2,152		\$1,899		\$3,845			\$1,654				\$83
WLWH	low voltage	Standard	\$5,255		\$3,391	\$1,864		\$1,016		\$622			\$844	\$2,571			\$202
WTXN	transformer	Standard	\$1,800		\$1,176	\$624		\$271		\$1,092			\$390				\$47
WTXH	transformer	Standard	\$12,588		\$7,439	\$5,149		\$1,079		\$1,673			\$2,533	\$6,960			\$343
WHVN	high voltage	Standard															
WHVH	high voltage	Standard	\$3,107		\$1,630	\$1,477		\$92		\$539			\$480	\$1,937	\$10		\$49
NIS	non-standard	Non-standard	\$18,685		\$11,424	\$7,261		\$18,482									\$203
Add extra rows for additional consumer groups or price category codes as necessary																	
Non-standard consumer totals			\$541,848		\$366,416	\$175,432		\$120,937	\$66,196	\$97,530	\$72,390	\$93,972	\$30,397	\$57,012	\$42		\$3,372
Non-standard consumer totals			\$18,685		\$11,424	\$7,261		\$18,482									\$203
Total for all consumers			\$560,533		\$377,840	\$182,693		\$139,419	\$66,196	\$97,530	\$72,390	\$93,972	\$30,397	\$57,012	\$42		\$3,575

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

8(iii): Number of ICPs directly billed

Number of directly billed ICPs at year end

Check OK

Company Name	Vector Ltd
For Year Ended	31 March 2020
Network / Sub-Network Name	Southern

SCHEDULE 8: REPORT ON BILLED QUANTITIES AND LINE CHARGE REVENUES

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

sch ref

8(i): Billed Quantities by Price Component

Billed quantities by price component

Price component

Unit charging basis (eg, days, kW of demand, kVA of capacity, etc.)

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

Consumer group name or price category code	Consumer type or types (eg, residential, commercial etc.)	Standard or non-standard consumer group (specify)	Average no. of ICPs in disclosure year	Energy delivered to ICPs in disclosure year (MWh)	Billed quantities by price component								
					FIXD	AICO	24UC	OPFK	PEAK	CAPY	DAMD	DEXA	PWRF
					Day	kWh	kWh	kWh	kWh	kVA/Day	kVA/Day	kVA/Day	kVA/Day
ARCL	residential	Standard	47,575	263,153	17,461,127	263,152,728	-	-	-	-	-	-	-
ARCS	residential	Standard	32,637	313,690	11,982,321	313,689,887	-	-	-	-	-	-	-
ARUL	residential	Standard	11,806	42,698	4,338,725	-	42,698,065	-	-	-	-	-	-
ARUS	residential	Standard	9,922	53,184	3,637,078	-	53,184,340	-	-	-	-	-	-
ARHLC	residential	Standard	115,307	597,384	42,013,538	-	-	414,155,210	183,228,337	-	-	-	-
ARHSC	residential	Standard	59,628	629,698	21,736,170	-	-	440,055,160	189,643,307	-	-	-	-
ARHL	residential	Standard	18,125	72,930	5,606,678	-	-	50,517,432	22,412,496	-	-	-	-
ARHS	residential	Standard	8,151	88,337	2,965,710	-	-	47,623,767	20,713,673	-	-	-	-
ABSN	general	Standard	28,660	497,879	10,443,431	-	497,878,559	-	-	-	-	-	-
ABSU	general	Standard	1,706	26,021	26,078,972	-	26,021,031	-	-	-	-	-	-
ABSH	general	Standard	8,111	166,760	2,939,847	-	-	118,309,804	48,450,281	-	-	-	-
ALVN	low voltage	Standard	2,323	229,861	849,304	-	229,860,564	-	-	126,680,919	-	-	320,135
ALVT	low voltage	Standard	1,431	516,243	-	-	516,242,640	-	-	138,539,806	43,717,347	-	3,688,361
ATXN	transformer	Standard	162	20,515	59,182	-	20,515,005	-	-	13,418,908	-	-	14,860
ATXT	transformer	Standard	950	1,078,755	-	-	1,078,755,242	-	-	252,907,685	86,254,638	-	3,834,076
AMVN	high voltage	Standard	74	572	2,555	-	571,653	-	-	517,935	-	-	6,377
AMHT	high voltage	Standard	142	400,696	-	-	400,695,729	-	-	60,672,920	29,932,667	36,468	1,243,625
NS	non-standard	Non-standard	27	481,513	9,855	-	-	-	-	-	-	-	13,599
<i>Add extra rows for additional consumer groups or price category codes as necessary</i>													
Standard consumer totals			346,649	4,978,376	151,114,636	576,842,615	2,866,422,828	1,070,661,373	464,448,094	592,738,173	159,904,652	36,468	9,107,434
Non-standard consumer totals			27	481,513	9,855	-	-	-	-	-	-	-	13,599
Total for all consumers			346,676	5,459,889	151,124,491	576,842,615	2,866,422,828	1,070,661,373	464,448,094	592,738,173	159,904,652	36,468	9,121,033

Company Name	Vector Ltd
For Year Ended	31 March 2020
Network / Sub-Network Name	Southern

SCHEDULE 8: REPORT ON BILLED QUANTITIES AND LINE CHARGE REVENUES

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

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

Line charge revenues (\$000) by price component

Consumer group name or price category code	Consumer type or types (eg, residential, commercial etc.)	Standard or non-standard consumer group (specify)	Total line charge revenue in disclosure year	Notional revenue foregone from posted discounts (if applicable)	Total distribution line charge revenue	Total transmission line charge revenue (if available)	Rate (eg, \$ per day, \$ per kWh, etc.)	Price component											
								FIXD	AICO	24UC	OPFK	PEAK	CAPY	DAMD	DEXA	PWRF			
								Day	kWh	kWh	kWh	kWh	kWh	kVA/Day	kVA/Day	kVA/Day	kVA/Day		
ARCL	residential	Standard	\$25,242		\$17,163	\$8,079		\$2,610	\$22,632										
ARCS	residential	Standard	\$26,784		\$17,154	\$9,630		\$12,060	\$14,724										
ARUL	residential	Standard	\$4,585		\$3,009	\$1,576		\$649		\$3,936									
ARUS	residential	Standard	\$6,486		\$4,523	\$1,963		\$3,661		\$2,825									
ARHLC	residential	Standard	\$56,634		\$43,203	\$13,431		\$6,280		\$25,630	\$24,724								
ARHSC	residential	Standard	\$50,102		\$36,201	\$13,901		\$21,878		\$10,043	\$18,181								
ARHL	residential	Standard	\$7,558		\$5,494	\$2,064		\$988		\$5,126	\$3,444								
ARHS	residential	Standard	\$6,446		\$4,538	\$1,908		\$2,985		\$1,087	\$2,374								
ABSN	general	Standard	\$36,957		\$18,585	\$18,372		\$10,512		\$26,445									
ABSU	general	Standard	\$2,746		\$2,069	\$677		\$2,079		\$667									
ABSH	general	Standard	\$11,212		\$6,750	\$4,462		\$2,959		\$2,700	\$5,553								
ALVN	low voltage	Standard	\$19,308		\$15,010	\$4,298		\$1,507		\$12,393			\$5,315					\$93	
ALVT	low voltage	Standard	\$25,766		\$17,460	\$8,306				\$6,174			\$5,812	\$12,708				\$1,072	
ATXN	transformer	Standard	\$1,742		\$1,358	\$384		\$103		\$1,084			\$551					\$4	
ATXT	transformer	Standard	\$48,644		\$32,256	\$16,388				\$12,578			\$10,384	\$24,567				\$1,115	
ARVW	high voltage	Standard	\$56		\$45	\$11		\$4		\$29			\$21					\$2	
ARVT	high voltage	Standard	\$15,588		\$9,901	\$5,687				\$4,512			\$2,413	\$8,269	\$32			\$362	
N5	non-standard	Non-standard	\$15,707		\$9,273	\$6,434		\$15,602										\$105	
Standard consumer totals			\$345,856		\$234,719	\$111,137		\$68,275	\$37,356	\$70,643	\$42,586	\$54,276	\$24,496	\$45,544	\$32			\$2,648	
Non-standard consumer totals			\$15,707		\$9,273	\$6,434		\$15,602											\$105
Total for all consumers			\$361,563		\$243,992	\$117,571		\$83,877	\$37,356	\$70,643	\$42,586	\$54,276	\$24,496	\$45,544	\$32				\$2,753

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

8(iii): Number of ICPs directly billed

Number of directly billed ICPs at year end	34	Check	OK
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Company Name	Vector Ltd
For Year Ended	31 March 2020
Network / Sub-Network Name	Northern

SCHEDULE 8: REPORT ON BILLED QUANTITIES AND LINE CHARGE REVENUES

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

sch ref

8(i): Billed Quantities by Price Component

sch ref	Consumer group name or price category code	Consumer type or types (eg, residential, commercial etc.)	Standard or non-standard consumer group (specify)	Average no. of ICPs in disclosure year	Energy delivered to ICPs in disclosure year (MWh)	Unit charging basis (eg, days, kW of demand, kVA of capacity, etc.)	Billed quantities by price component									Add extra columns for additional billed quantities by price component as necessary				
							Price component													
							FIXD	AICO	24UC	OPFK	PEAK	CAPY	DAMD	DEXA	PWRF					
Day	kWh	kWh	kWh	kWh	kVA/Day	kVA/Day	kVA/Day	kVA/Day	kVA/Day											
14	WRCL	residential	Standard	34,025	190,751		12,468,196	190,750,601	-	-	-	-	-	-	-	-	-	-	-	
15	WRCS	residential	Standard	26,882	264,425		9,852,089	264,424,887	-	-	-	-	-	-	-	-	-	-	-	
16	WRUL	residential	Standard	6,710	34,321		2,461,624	-	34,320,985	-	-	-	-	-	-	-	-	-	-	
17	WRUS	residential	Standard	8,214	61,217		3,021,854	-	61,217,384	-	-	-	-	-	-	-	-	-	-	
18	WRHLC	residential	Standard	71,145	379,077		25,934,747	-	-	261,954,710	117,122,765	-	-	-	-	-	-	-	-	
19	WRHSC	residential	Standard	42,612	456,803		15,535,327	-	-	318,310,445	138,492,180	-	-	-	-	-	-	-	-	
20	WRHL	residential	Standard	13,402	66,708		4,886,726	-	-	45,929,665	20,778,055	-	-	-	-	-	-	-	-	
21	WRHS	residential	Standard	8,731	86,360		3,182,497	-	-	59,901,528	26,458,795	-	-	-	-	-	-	-	-	
22	WBSN	general	Standard	14,855	231,231		5,405,779	-	231,230,715	-	-	-	-	-	-	-	-	-	-	
23	WBSU	general	Standard	710	15,754		16,432,967	-	15,754,340	-	-	-	-	-	-	-	-	-	-	
24	WBSH	general	Standard	7,916	129,843		2,861,159	-	-	91,833,398	38,009,454	-	-	-	-	-	-	-	-	
25	WLVN	low voltage	Standard	906	115,074		331,752	-	115,073,730	-	-	48,916,985	-	-	-	-	-	283,628	-	
26	WLVB	low voltage	Standard	258	124,787		94,132	-	124,786,701	-	-	24,970,945	9,808,260	-	-	-	-	694,689	-	
27	WTVN	transformer	Standard	132	33,393		48,299	-	33,393,176	-	-	11,780,426	-	-	-	-	-	159,999	-	
28	WTVR	transformer	Standard	279	342,409		102,001	-	342,408,724	-	-	76,488,925	27,099,056	-	-	-	-	1,177,690	-	
29	WTVN	high voltage	Standard	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	
30	WTVH	high voltage	Standard	24	112,644		8,964	-	112,643,824	-	-	14,953,890	7,775,778	-	-	-	-	13,706	168,953	
31	NS	non-standard	Non-standard	4	105,245		1,460	-	-	-	-	-	-	-	-	-	-	-	12,277	
32	Add extra rows for additional consumer groups or price category codes as necessary																			
33			Standard consumer totals	236,803	2,644,797		102,628,113	455,175,488	1,070,829,579	777,929,746	340,861,249	177,111,171	44,683,094	13,706	-	-	-	-	2,484,959	-
34			Non-standard consumer totals	4	105,245		1,460	-	-	-	-	-	-	-	-	-	-	-	-	12,277
35			Total for all consumers	236,807	2,750,042		102,629,573	455,175,488	1,070,829,579	777,929,746	340,861,249	177,111,171	44,683,094	13,706	-	-	-	-	2,497,236	-

Company Name	Vector Ltd
For Year Ended	31 March 2020
Network / Sub-Network Name	Northern

SCHEDULE 8: REPORT ON BILLED QUANTITIES AND LINE CHARGE REVENUES

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

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

Line charge revenues (\$000) by price component

Consumer group name or price category code	Consumer type or types (eg, residential, commercial etc.)	Standard or non-standard consumer group (specify)	Total line charge revenue in disclosure year	Notional revenue foregone from posted discounts (if applicable)	Total distribution line charge revenue	Total transmission line charge revenue (if available)	Rate (eg, \$ per day, \$ per kWh, etc.)	Price component											
								FIXD	AICO	24UC	OPFK	PEAK	CAPY	DAMD	DEXA	PWRF			
								Day	kWh	kWh	kWh	kWh	kWh	kVA/Day	kVA/Day	kVA/Day	kVA/Day		
WRCL	residential	Standard	\$18,283		\$12,427	\$5,856		\$1,865	\$16,418										
WRCS	residential	Standard	\$22,346		\$14,228	\$8,118		\$9,924	\$12,422										
WRUL	residential	Standard	\$3,534		\$2,268	\$1,266		\$368		\$3,166									
WRUS	residential	Standard	\$6,298		\$4,039	\$2,259		\$3,044		\$3,254									
WRHLC	residential	Standard	\$35,921		\$27,336	\$8,585		\$3,880		\$16,224	\$15,817								
WRHSC	residential	Standard	\$36,207		\$26,056	\$10,151		\$15,649			\$7,270	\$13,288							
WRHL	residential	Standard	\$6,772		\$4,858	\$1,914		\$731			\$2,845	\$3,196							
WRHS	residential	Standard	\$7,409		\$5,172	\$2,237		\$3,286			\$1,368	\$3,035							
WBSN	general	Standard	\$17,737		\$9,205	\$8,532		\$5,445		\$12,292									
WBSU	general	Standard	\$1,715		\$1,305	\$410		\$1,311		\$404									
WBSH	general	Standard	\$9,339		\$5,838	\$3,501		\$2,882			\$2,097	\$4,360							
WLVN	low voltage	Standard	\$7,481		\$5,329	\$2,152		\$1,899		\$3,845			\$1,654					\$83	
WLVH	low voltage	Standard	\$5,255		\$3,391	\$1,864		\$1,016		\$622			\$844	\$2,571				\$202	
WTXN	transformer	Standard	\$1,800		\$1,176	\$624		\$271		\$1,092			\$390					\$47	
WTXH	transformer	Standard	\$12,588		\$7,439	\$5,149		\$1,079		\$1,673			\$2,533	\$6,960				\$343	
WHVN	high voltage	Standard																	
WHVH	high voltage	Standard	\$3,107		\$1,630	\$1,477		\$92		\$539			\$480	\$1,937	\$10			\$49	
NS	non-standard	Non-standard	\$2,978		\$2,151	\$827		\$2,880										\$98	
Standard consumer totals			\$195,992		\$131,697	\$64,295		\$52,662	\$28,840	\$26,887	\$29,804	\$39,696	\$5,901	\$11,468	\$10			\$724	
Non-standard consumer totals			\$2,978		\$2,151	\$827		\$2,880											\$98
Total for all consumers			\$198,970		\$133,848	\$65,122		\$55,542	\$28,840	\$26,887	\$29,804	\$39,696	\$5,901	\$11,468	\$10			\$822	

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

8(iii): Number of ICPs directly billed

Number of directly billed ICPs at year end	10	Check	OK
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Company Name	Vector
For Year Ended	31 March 2021
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.

sch ref

					Items at start of year (quantity)	Items at end of year (quantity)	Net change	Data accuracy (1-4)
8	Voltage	Asset category	Asset class	Units				
9	All	Overhead Line	Concrete poles / steel structure	No.	117,263	118,014	751	3
10	All	Overhead Line	Wood poles	No.	5,826	5,714	-112	2
11	All	Overhead Line	Other pole types	No.	935	1,022	87	4
12	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	368	365	-3	4
13	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km	27	27	0	4
14	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km	354	376	22	4
15	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km	145	147	2	4
16	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressurised)	km	2	0	-2	N/A
17	HV	Subtransmission Cable	Subtransmission UG up to 66kV (PILC)	km	50	29	-20	4
18	HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	km	30	31	1	4
19	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Oil pressurised)	km	17	17	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	0	4
22	HV	Subtransmission Cable	Subtransmission submarine cable	km	12	12	0	4
23	HV	Zone substation Buildings	Zone substations up to 66kV	No.	102	104	2	4
24	HV	Zone substation Buildings	Zone substations 110kV+	No.	7	7	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.	183	184	1	4
29	HV	Zone substation switchgear	33kV RMU	No.	13	7	-6	4
30	HV	Zone substation switchgear	22/33kV CB (Indoor)	No.	260	257	-3	4
31	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.	105	121	16	N/A
32	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.	1,369	1,478	109	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.	219	219	0	4
35	HV	Distribution Line	Distribution OH Open Wire Conductor	km	3,746	3,738	-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	0	N/A
38	HV	Distribution Cable	Distribution UG XLPE or PVC	km	1,561	1,623	62	3
39	HV	Distribution Cable	Distribution UG PILC	km	2,184	2,178	-6	4
40	HV	Distribution Cable	Distribution Submarine Cable	km	8	8	0	4
41	HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers	No.	274	301	27	4
42	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.	293	314	21	3
43	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	10,536	10,848	312	3
44	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	3,246	3,186	-60	3
45	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.	6,216	6,072	-144	4
46	HV	Distribution Transformer	Pole Mounted Transformer	No.	7,600	7,604	4	4
47	HV	Distribution Transformer	Ground Mounted Transformer	No.	14,559	14,721	162	4
48	HV	Distribution Transformer	Voltage regulators	No.	12	12	0	4
49	HV	Distribution Substations	Ground Mounted Substation Housing	No.	13,075	13,218	143	3
50	LV	LV Line	LV OH Conductor	km	4,154	4,154	-1	3
51	LV	LV Cable	LV UG Cable	km	6,290	6,439	149	4
52	LV	LV Street lighting	LV OH/UG Streetlight circuit	km	479	479	0	3
53	LV	Connections	OH/UG consumer service connections	No.	578,106	588,018	9,912	4
54	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.	3,934	4,163	229	3
55	All	SCADA and communications	SCADA and communications equipment operating as a single system	Lot	356	375	19	3
56	All	Capacitor Banks	Capacitors including controls	No	76	74	-2	4
57	All	Load Control	Centralised plant	Lot	33	32	-1	3
58	All	Load Control	Relays	No	0	0	0	N/A
59	All	Civils	Cable Tunnels	km	10	10	0	3

Company Name	Vector
For Year Ended	31 March 2021
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.

sch ref

					Items at start of year (quantity)	Items at end of year (quantity)	Net change	Data accuracy (1-4)
8	Voltage	Asset category	Asset class	Units				
9	All	Overhead Line	Concrete poles / steel structure	No.	50,392	50,668	276	3
10	All	Overhead Line	Wood poles	No.	3,706	3,649	-57	2
11	All	Overhead Line	Other pole types	No.	437	442	5	4
12	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	51	48	-3	4
13	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km	0	0	0	N/A
14	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km	209	230	21	4
15	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km	142	145	2	4
16	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressurised)	km	2	0	-2	N/A
17	HV	Subtransmission Cable	Subtransmission UG up to 66kV (PILC)	km	49	28	-20	4
18	HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	km	30	31	1	4
19	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Oil pressurised)	km	17	17	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	0	4
22	HV	Subtransmission Cable	Subtransmission submarine cable	km	11	11	0	4
23	HV	Zone substation Buildings	Zone substations up to 66kV	No.	50	51	1	4
24	HV	Zone substation Buildings	Zone substations 110kV+	No.	5	5	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.	0	0	0	N/A
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.	0	0	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.	124	131	7	4
31	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.	0	2	2	N/A
32	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.	859	958	99	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.	129	128	-1	4
35	HV	Distribution Line	Distribution OH Open Wire Conductor	km	883	881	-2	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	697	728	31	3
39	HV	Distribution Cable	Distribution UG PILC	km	1,564	1,562	-2	4
40	HV	Distribution Cable	Distribution Submarine Cable	km	2	2	0	4
41	HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers	No.	60	71	11	4
42	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.	235	255	20	3
43	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	2,438	2,532	94	3
44	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	2,463	2,406	-57	3
45	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.	4,535	4,590	55	4
46	HV	Distribution Transformer	Pole Mounted Transformer	No.	1,977	1,969	-8	4
47	HV	Distribution Transformer	Ground Mounted Transformer	No.	7,027	7,134	107	4
48	HV	Distribution Transformer	Voltage regulators	No.	5	5	0	4
49	HV	Distribution Substations	Ground Mounted Substation Housing	No.	6,187	6,225	38	3
50	LV	LV Line	LV OH Conductor	km	1,934	1,926	-8	3
51	LV	LV Cable	LV UG Cable	km	3,799	3,880	81	4
52	LV	LV Street lighting	LV OH/UG Streetlight circuit	km	264	264	0	3
53	LV	Connections	OH/UG consumer service connections	No.	343,703	349,020	5,317	4
54	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.	2,161	2,175	14	3
55	All	SCADA and communications	SCADA and communications equipment operating as a single system	Lot	197	204	7	2
56	All	Capacitor Banks	Capacitors including controls	No.	13	13	0	4
57	All	Load Control	Centralised plant	Lot	22	21	-1	3
58	All	Load Control	Relays	No.	0	0	0	N/A
59	All	Civils	Cable Tunnels	km	10	10	0	3

Company Name	Vector
For Year Ended	31 March 2021
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.

sch ref

					Items at start of year (quantity)	Items at end of year (quantity)	Net change	Data accuracy (1-4)
8	Voltage	Asset category	Asset class	Units				
9	All	Overhead Line	Concrete poles / steel structure	No.	66,871	67,346	475	3
10	All	Overhead Line	Wood poles	No.	2,120	2,065	-55	2
11	All	Overhead Line	Other pole types	No.	498	580	82	4
12	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	317	317	0	4
13	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km	27	27	0	4
14	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km	145	146	1	4
15	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km	2	2	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	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	1	0	4
23	HV	Zone substation Buildings	Zone substations up to 66kV	No.	52	53	1	4
24	HV	Zone substation Buildings	Zone substations 110kV+	No.	2	2	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.	183	184	1	4
29	HV	Zone substation switchgear	33kV RMU	No.	13	7	-6	4
30	HV	Zone substation switchgear	22/33kV CB (Indoor)	No.	136	126	-10	4
31	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.	105	119	14	N/A
32	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.	510	520	10	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.	90	91	1	4
35	HV	Distribution Line	Distribution OH Open Wire Conductor	km	2,863	2,857	-6	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	864	895	31	3
39	HV	Distribution Cable	Distribution UG PILC	km	620	616	-4	4
40	HV	Distribution Cable	Distribution Submarine Cable	km	7	7	0	4
41	HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers	No.	214	230	16	4
42	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.	58	59	1	3
43	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	8,098	8,316	218	3
44	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	783	780	-3	3
45	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.	1,681	1,482	-199	4
46	HV	Distribution Transformer	Pole Mounted Transformer	No.	5,623	5,635	12	4
47	HV	Distribution Transformer	Ground Mounted Transformer	No.	7,532	7,587	55	4
48	HV	Distribution Transformer	Voltage regulators	No.	7	7	0	4
49	HV	Distribution Substations	Ground Mounted Substation Housing	No.	6,888	6,993	105	3
50	LV	LV Line	LV OH Conductor	km	2,221	2,228	7	3
51	LV	LV Cable	LV UG Cable	km	2,491	2,559	68	4
52	LV	LV Street lighting	LV OH/UG Streetlight circuit	km	215	215	0	3
53	LV	Connections	OH/UG consumer service connections	No.	234,403	238,998	4,595	4
54	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.	1,773	1,988	215	3
55	All	SCADA and communications	SCADA and communications equipment operating as a single system	Lot	159	171	12	2
56	All	Capacitor Banks	Capacitors including controls	No	63	61	-2	4
57	All	Load Control	Centralised plant	Lot	11	11	0	3
58	All	Load Control	Relays	No	0	0	0	N/A
59	All	Civils	Cable Tunnels	km	0	0	0	N/A

Company Name	Vector
For Year Ended	31 March 2021
Network / Sub-network Name	Southern

SCHEDULE 9b: ASSET AGE PROFILE

This schedule requires a summary of the age profile (based on year of installation) of the assets that make up the network, by asset category and asset class. All units relating to cable and line assets, that are expressed in km, refer to circuit lengths.

Ref	Disclosure Year (year ended)	31 March 2021	Number of assets at disclosure year end by installation date																							No. with age unknown	Items at end of year	No. with default dates	Data accuracy (1-4)																			
			1940	1950	1960	1970	1980	1990	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016					2017	2018	2019	2020	2021	2022	2023	2024	2025										
9	Voltage	Asset category	Asset class	Units	pre-1940	-1949	-1959	-1969	-1979	-1989	-1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025											
10	All	Overhead Line	Concrete poles / steel structure	No.	0	0	151	6,380	788	2,646	3,889	238	479	677	141	191	92	1,520	1,700	1,388	1,128	1,174	870	989	1,201	1,013	904	1,420	1,704	2,405	2,843	2,213	481				12,886	50,668	3									
11	All	Overhead Line	Wood poles	No.	0	0	0	209	107	93	439	170	37	24	58	27	48	25	52	42	48	26	13	5	14	3	1	2	1	17	19	14	15					2,165	3,649	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
13	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	0	0	0	34.361	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	0	0	0	0	0	0	0	0			
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	0	0	0	0	0	0	0	0	0	0	0	0			
15	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km	0	0	0	0	0.135	1.688	31.720	47.561	1.093	20.624	5.466	0.031	1.235	1.162	14.657	0.841	2.815	17.254	0.419	9.905	4.566	2.332	14.180	22.537	9.124	1.561	0.946	4.319	23.427															
16	HV	Subtransmission Cable	Subtransmission UG up to 66kV (OH pressurised)	km	0	0	0	38.789	72.165	24.297	6.713	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	0	0	0	0	0	0		
17	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressurised)	km	0	0	0	0.009	0.001	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	0	0	0	0	0	0	0	0		
18	HV	Subtransmission Cable	Subtransmission UG up to 66kV (PILC)	km	7.481	2.818	0.446	12.587	1.902	2.232	0.224	0.000	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	0	0	0	0	0		
19	HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20	HV	Subtransmission Cable	Subtransmission UG 110kV+ (OH 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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
22	HV	Subtransmission Cable	Subtransmission UG 110kV+ (PILC)	km	0	0	0	0	0.001	0.001	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	0	0	0	0	0	0	0	0	0
23	HV	Subtransmission Cable	Subtransmission submarine cable	km	0	0	0	0	0	10.742	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	0	0	0	0	0	0	0	0	
24	HV	Zone substation Buildings	Zone substations up to 66kV	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
25	HV	Zone substation Buildings	Zone substations 110kV+	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
28	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
29	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
30	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	HV	Zone substation switchgear	22/33kV 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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
32	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.	0	0	0	2	139	94	194	61	11	10	0	0	0	0	0	0	0	23	17	30	26	40	27	25	18	21	50	61	21	43	44	27												
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
35	HV	Zone Substation Transformer	Zone Substation Transformers	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	HV	Distribution Line	Distribution OH Open Wire Conductor	km	0.482	0	0	0.112	64.706	628.821	34.481	86.902	2.214	4.222	0.132	0.910	5.482	5.100	9.898	9.181	3.100	3.821	2.681	2.900	1.600	1.127	0.900	0.200	2.221	0.320	2.010	2.800	2.700															
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
39	HV	Distribution Cable	Distribution UG XLPE or PVC	km	0.212	0	0	2.222	12.341	17.704	7.095	16.979	14.192	11.576	4.997	64.789	54.571	59.510	30.103	31.021	25.944	40.769	22.184	24.190	44.284	27.247	14.698	28.889	30.080	38.821	26.570	34.531																
40	HV	Distribution Cable	Distribution UG PILC	km	13.025	2.813	24.857	176.262	102.962	432.050	311.920	26.521	11.274	2.544	0.800	0.001	11																															

Company Name	Vector
For Year Ended	31 March 2021
Network / Sub-network Name	Combined

SCHEDULE 9c: REPORT ON OVERHEAD LINES AND UNDERGROUND CABLES

This schedule requires a summary of the key characteristics of the overhead line and underground cable network. All units relating to cable and line assets, that are expressed in km, refer to circuit lengths.

sch ref

sch ref		Circuit length by operating voltage (at year end)		
		Overhead (km)	Underground (km)	Total circuit length (km)
9				
10	Circuit length by operating voltage (at year end)			
11	> 66kV	27	49	75
12	50kV & 66kV	-	-	-
13	33kV	365	441	806
14	SWER (all SWER voltages)	-	-	-
15	22kV (other than SWER)	2	172	174
16	6.6kV to 11kV (inclusive—other than SWER)	3,736	3,759	7,495
17	Low voltage (< 1kV)	4,154	6,439	10,593
18	Total circuit length (for supply)	8,284	10,860	19,144
19				
20	Dedicated street lighting circuit length (km)	18	461	479
21	Circuit in sensitive areas (conservation areas, iwi territory etc) (km)			4,559
22				
23	Overhead circuit length by terrain (at year end)			
24	Urban	4,754		57%
25	Rural	3,530		43%
26	Remote only			-
27	Rugged only			-
28	Remote and rugged			-
29	Unallocated overhead lines			-
30	Total overhead length	8,284		100%
31				
32				
33	Length of circuit within 10km of coastline or geothermal areas (where known)	19,094		99.7%
34				
35	Overhead circuit requiring vegetation management	8,284		100%

Company Name	Vector
For Year Ended	31 March 2021
Network / Sub-network Name	Southern

SCHEDULE 9c: REPORT ON OVERHEAD LINES AND UNDERGROUND CABLES

This schedule requires a summary of the key characteristics of the overhead line and underground cable network. All units relating to cable and line assets, that are expressed in km, refer to circuit lengths.

sch ref

	Overhead (km)	Underground (km)	Total circuit length (km)
9			
10	Circuit length by operating voltage (at year end)		
11	-	49	49
12	-	-	-
13	48	290	338
14	-	-	-
15	2	172	174
16	879	2,242	3,121
17	1,926	3,880	5,806
18	2,855	6,633	9,489
19			
20	5	259	264
21			2,406
22			
23	Overhead circuit length by terrain (at year end)		
24	2,389		84%
25	466		16%
26			-
27			-
28			-
29			-
30	2,855		100%
31			
32			
33	9,479		99.9%
34			
35	2,855		100%

Company Name	Vector
For Year Ended	31 March 2021
Network / Sub-network Name	Northern

SCHEDULE 9c: REPORT ON OVERHEAD LINES AND UNDERGROUND CABLES

This schedule requires a summary of the key characteristics of the overhead line and underground cable network. All units relating to cable and line assets, that are expressed in km, refer to circuit lengths.

sch ref

	Overhead (km)	Underground (km)	Total circuit length (km)
9			
10	Circuit length by operating voltage (at year end)		
11	27	-	27
12	-	-	-
13	317	150	468
14	-	-	-
15	-	-	-
16	2,857	1,517	4,374
17	2,228	2,559	4,787
18	5,429	4,226	9,655
19			
20	13	202	215
21			2,153
22			
23	Overhead circuit length by terrain (at year end)		
24	2,365		44%
25	3,064		56%
26	-		-
27	-		-
28	-		-
29	-		-
30	5,429		100%
31			
32			
33	9,615		99.58%
34			
35	5,429		100%

Company Name **Vector**
 For Year Ended **31 March 2021**

SCHEDULE 9d: REPORT ON EMBEDDED NETWORKS

This schedule requires information concerning embedded networks owned by an EDB that are embedded in another EDB's network or in another embedded network.

sch ref

	Location *	Number of ICPs served	Line charge revenue (\$000)
8			
9	None		
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			

* Extend embedded distribution networks table as necessary to disclose each embedded network owned by the EDB which is embedded in another EDB's network or in another embedded network

Company Name	Vector
For Year Ended	31 March 2021
Network / Sub-network Name	Combined

SCHEDULE 9e: REPORT ON NETWORK DEMAND

This schedule requires a summary of the key measures of network utilisation for the disclosure year (number of new connections including distributed generation, peak demand and electricity volumes conveyed).

sch ref

8	9e(i): Consumer Connections		
9	Number of ICPs connected in year by consumer type		
10			
11	Consumer types defined by EDB*		Number of connections (ICPs)
12	Residential		8,545
13	Commercial		5,309
14			
15			
16	* include additional rows if needed		
17	Connections total		13,854
18			
19	Distributed generation		
20	Number of connections made in year	901	connections
21	Capacity of distributed generation installed in year	4.79	MVA
22	9e(ii): System Demand		
23			
24			Demand at time of maximum coincident demand (MW)
25	Maximum coincident system demand		
26	GXP demand	1,715	
27	plus Distributed generation output at HV and above	15	
28	Maximum coincident system demand	1,730	
29	less Net transfers to (from) other EDBs at HV and above	-	
30	Demand on system for supply to consumers' connection points	1,730	
31	Electricity volumes carried		Energy (GWh)
32	Electricity supplied from GXPs	8,395	
33	less Electricity exports to GXPs	-	
34	plus Electricity supplied from distributed generation	147	
35	less Net electricity supplied to (from) other EDBs	-	
36	Electricity entering system for supply to consumers' connection points	8,542	
37	less Total energy delivered to ICPs	8,210	
38	Electricity losses (loss ratio)	332	3.9%
39			
40	Load factor	0.56	
41	9e(iii): Transformer Capacity		
42			(MVA)
43	Distribution transformer capacity (EDB owned)	4,682	
44	Distribution transformer capacity (Non-EDB owned, estimated)	646	
45	Total distribution transformer capacity	5,328	
46			
47	Zone substation transformer capacity	4,506	

Company Name	Vector
For Year Ended	31 March 2021
Network / Sub-network Name	Southern

SCHEDULE 9e: REPORT ON NETWORK DEMAND

This schedule requires a summary of the key measures of network utilisation for the disclosure year (number of new connections including distributed generation, peak demand and electricity volumes conveyed).

sch ref

8	9e(i): Consumer Connections		
9	Number of ICPs connected in year by consumer type		
10			
11	Consumer types defined by EDB*		Number of connections (ICPs)
12	Residential		5,589
13	Commercial		2,539
14			
15			
16	* include additional rows if needed		
17	Connections total		8,128
18			
19	Distributed generation		
20	Number of connections made in year	479	connections
21	Capacity of distributed generation installed in year	2.51	MVA
22	9e(ii): System Demand		
23			
24			Demand at time of maximum coincident demand (MW)
25	Maximum coincident system demand		
26	GXP demand	1,100	
27	plus Distributed generation output at HV and above	4	
28	Maximum coincident system demand	1,104	
29	less Net transfers to (from) other EDBs at HV and above	-	
30	Demand on system for supply to consumers' connection points	1,104	
31	Electricity volumes carried		Energy (GWh)
32	Electricity supplied from GXPs	5,601	
33	less Electricity exports to GXPs	-	
34	plus Electricity supplied from distributed generation	50	
35	less Net electricity supplied to (from) other EDBs	-	
36	Electricity entering system for supply to consumers' connection points	5,651	
37	less Total energy delivered to ICPs	5,460	
38	Electricity losses (loss ratio)	191	3.4%
39			
40	Load factor	0.58	
41	9e(iii): Transformer Capacity		
42			(MVA)
43	Distribution transformer capacity (EDB owned)	2,965	
44	Distribution transformer capacity (Non-EDB owned, estimated)	283	
45	Total distribution transformer capacity	3,248	
46			
47	Zone substation transformer capacity	2,990	

Company Name	Vector
For Year Ended	31 March 2021
Network / Sub-network Name	Northern

SCHEDULE 9e: REPORT ON NETWORK DEMAND

This schedule requires a summary of the key measures of network utilisation for the disclosure year (number of new connections including distributed generation, peak demand and electricity volumes conveyed).

sch ref

8	9e(i): Consumer Connections		
9	Number of ICPs connected in year by consumer type		
10			
11	Consumer types defined by EDB*		Number of connections (ICPs)
12	Residential		2,956
13	Commercial		2,770
14			
15			
16	* include additional rows if needed		
17	Connections total		5,726
18			
19	Distributed generation		
20	Number of connections made in year	422	connections
21	Capacity of distributed generation installed in year	2.28	MVA
22	9e(ii): System Demand		
23			
24			Demand at time of maximum coincident demand (MW)
25	Maximum coincident system demand		
26	GXP demand	688	
27	plus Distributed generation output at HV and above	11	
28	Maximum coincident system demand	699	
29	less Net transfers to (from) other EDBs at HV and above	-	
30	Demand on system for supply to consumers' connection points	699	
31	Electricity volumes carried		Energy (GWh)
32	Electricity supplied from GXPs	2,793	
33	less Electricity exports to GXPs	-	
34	plus Electricity supplied from distributed generation	97	
35	less Net electricity supplied to (from) other EDBs	-	
36	Electricity entering system for supply to consumers' connection points	2,890	
37	less Total energy delivered to ICPs	2,750	
38	Electricity losses (loss ratio)	140	4.8%
39			
40	Load factor	0.47	
41	9e(iii): Transformer Capacity		
42			(MVA)
43	Distribution transformer capacity (EDB owned)	1,717	
44	Distribution transformer capacity (Non-EDB owned, estimated)	362	
45	Total distribution transformer capacity	2,079	
46			
47	Zone substation transformer capacity	1,516	

Company Name	Vector
For Year Ended	31 March 2021
Network / Sub-network Name	Combined

SCHEDULE 10: REPORT ON NETWORK RELIABILITY

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

sch ref

8	10(i): Interruptions			
9	Interruptions by class			
10		Number of interruptions		
11	Class A (planned interruptions by Transpower)	3		
12	Class B (planned interruptions on the network)	1,616		
13	Class C (unplanned interruptions on the network)	1,388		
14	Class D (unplanned interruptions by Transpower)	2		
15	Class E (unplanned interruptions of EDB owned generation)	0		
16	Class F (unplanned interruptions of generation owned by others)	0		
17	Class G (unplanned interruptions caused by another disclosing entity)	0		
18	Class H (planned interruptions caused by another disclosing entity)	0		
19	Class I (interruptions caused by parties not included above)	0		
20	Total	3,009		
21	Interruption restoration			
22		≤3Hrs	>3hrs	
23	Class C interruptions restored within	772	616	
24	SAIFI and SAIDI by class			
25		SAIFI	SAIDI	
26	Class A (planned interruptions by Transpower)	0.00	0.4	
27	Class B (planned interruptions on the network)	0.35	79.1	
28	Class C (unplanned interruptions on the network)	1.1	85.0	
29	Class D (unplanned interruptions by Transpower)	0.04	2.6	
30	Class E (unplanned interruptions of EDB owned generation)	0.00	0.0	
31	Class F (unplanned interruptions of generation owned by others)	0.00	0.0	
32	Class G (unplanned interruptions caused by another disclosing entity)	0.00	0.0	
33	Class H (planned interruptions caused by another disclosing entity)	0.00	0.0	
34	Class I (interruptions caused by parties not included above)	0.00	0.0	
35	Total	1.49	167.1	
36	Normalised SAIFI and SAIDI			
37	Classes B & C (interruptions on the network)	1.45	164.1	
38				
39	10(ii): Class C Interruptions and Duration by Cause			
40		SAIFI	SAIDI	
41	Cause			
42	Lightning	0	0.1	
43	Vegetation	0.18	16.4	
44	Adverse weather	0	0	
45	Adverse environment	0.02	1.5	
46	Third party interference	0.21	18.8	
47	Wildlife	0.07	3	
48	Human error	0.03	0.8	
49	Defective equipment	0.41	34.9	
50	Cause unknown	0.18	9.5	
51				
52	10(iii): Class B Interruptions and Duration by Main Equipment Involved			
53		SAIFI	SAIDI	
54	Main equipment involved			
55	Subtransmission lines	0.00	0.0	
56	Subtransmission cables	0.00	0.0	
57	Subtransmission other	0.00	0.0	
58	Distribution lines (excluding LV)	0.13	37.4	
59	Distribution cables (excluding LV)	0.02	2.2	
60	Distribution other (excluding LV)	0.21	39.5	
61	10(iv): Class C Interruptions and Duration by Main Equipment Involved			
62		SAIFI	SAIDI	
63	Main equipment involved			
64	Subtransmission lines	0.14	5.5	
65	Subtransmission cables	0.02	1.4	
66	Subtransmission other	0.03	0.7	
67	Distribution lines (excluding LV)	0.54	45.4	
68	Distribution cables (excluding LV)	0.15	10.9	
69	Distribution other (excluding LV)	0.22	21.1	
70	10(v): Fault Rate			
71		Number of Faults	Circuit length (km)	Fault rate (faults per 100km)
72	Main equipment involved			
73	Subtransmission lines	31	392	7.92
74	Subtransmission cables	2	613	0.33
75	Subtransmission other	6		
76	Distribution lines (excluding LV)	830	3738	22.20
77	Distribution cables (excluding LV)	181	3808	4.75
78	Distribution other (excluding LV)	338		
	Total	1,388		



Company Name	Vector
For Year Ended	31 March 2021
Network / Sub-network Name	Southern

SCHEDULE 10: REPORT ON NETWORK RELIABILITY

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

sch ref

8	10(i): Interruptions			
9	Interruptions by class			
10		Number of interruptions		
11	Class A (planned interruptions by Transpower)	1		
12	Class B (planned interruptions on the network)	866		
13	Class C (unplanned interruptions on the network)	498		
14	Class D (unplanned interruptions by Transpower)	1		
15	Class E (unplanned interruptions of EDB owned generation)	0		
16	Class F (unplanned interruptions of generation owned by others)	0		
17	Class G (unplanned interruptions caused by another disclosing entity)	0		
18	Class H (planned interruptions caused by another disclosing entity)	0		
19	Class I (interruptions caused by parties not included above)	0		
20	Total	1,366		
21	Interruption restoration			
22	Class C interruptions restored within	≤3Hrs	>3hrs	
23		262	236	
24	SAIFI and SAIDI by class			
25		SAIFI	SAIDI	
26	Class A (planned interruptions by Transpower)	0.00	0.0	
27	Class B (planned interruptions on the network)	0.31	56	
28	Class C (unplanned interruptions on the network)	0.83	64.5	
29	Class D (unplanned interruptions by Transpower)	0.03	1.2	
30	Class E (unplanned interruptions of EDB owned generation)	0.00	0.0	
31	Class F (unplanned interruptions of generation owned by others)	0.00	0.0	
32	Class G (unplanned interruptions caused by another disclosing entity)	0.00	0.0	
33	Class H (planned interruptions caused by another disclosing entity)	0.00	0.0	
34	Class I (interruptions caused by parties not included above)	0.00	0.0	
35	Total	1.17	121.7	
36	Normalised SAIFI and SAIDI			
37	Classes B & C (interruptions on the network)	Normalised SAIFI	Normalised SAIDI	
38		1.14	120.6	
39	10(ii): Class C Interruptions and Duration by Cause			
40		SAIFI	SAIDI	
41	Cause			
42	Lightning	0.00	0.1	
43	Vegetation	0.09	8.5	
44	Adverse weather	0.00	0.0	
45	Adverse environment	0.01	0.6	
46	Third party interference	0.22	20.6	
47	Wildlife	0.04	2.4	
48	Human error	0.04	1.0	
49	Defective equipment	0.37	27.7	
50	Cause unknown	0.07	3.6	
51				
52	10(iii): Class B Interruptions and Duration by Main Equipment Involved			
53		SAIFI	SAIDI	
54	Main equipment involved			
55	Subtransmission lines	0.00	0.0	
56	Subtransmission cables	0.00	0.0	
57	Subtransmission other	0.00	0.0	
58	Distribution lines (excluding LV)	0.12	29.9	
59	Distribution cables (excluding LV)	0.02	2.5	
60	Distribution other (excluding LV)	0.17	23.7	
61	10(iv): Class C Interruptions and Duration by Main Equipment Involved			
62		SAIFI	SAIDI	
63	Main equipment involved			
64	Subtransmission lines	0.01	0	
65	Subtransmission cables	0.03	2.3	
66	Subtransmission other	0.02	0.4	
67	Distribution lines (excluding LV)	0.36	28.1	
68	Distribution cables (excluding LV)	0.17	12.3	
69	Distribution other (excluding LV)	0.24	21.5	
70	10(v): Fault Rate			
71		Number of Faults	Circuit length (km)	Fault rate (faults per 100km)
72	Main equipment involved			
73	Subtransmission lines	2	48	4.17
74	Subtransmission cables	1	462	0.22
75	Subtransmission other	2		
76	Distribution lines (excluding LV)	223	881	25.31
77	Distribution cables (excluding LV)	107	2,291	4.67
78	Distribution other (excluding LV)	163		
79	Total	498		



Company Name	Vector
For Year Ended	31 March 2021
Network / Sub-network Name	Northern

SCHEDULE 10: REPORT ON NETWORK RELIABILITY

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

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8	10(i): Interruptions			
9	Interruptions by class			
10	Class A (planned interruptions by Transpower)	Number of interruptions		
11	Class B (planned interruptions on the network)	2		
12	Class C (unplanned interruptions on the network)	750		
13	Class D (unplanned interruptions by Transpower)	890		
14	Class E (unplanned interruptions of EDB owned generation)	1		
15	Class F (unplanned interruptions of generation owned by others)	0		
16	Class G (unplanned interruptions caused by another disclosing entity)	0		
17	Class H (planned interruptions caused by another disclosing entity)	0		
18	Class I (interruptions caused by parties not included above)	0		
19	Total	1,643		
20	Interruption restoration			
21	Class C interruptions restored within	≤3Hrs	>3hrs	
22		510	380	
23	SAIFI and SAIDI by class			
24		SAIFI	SAIDI	
25	Class A (planned interruptions by Transpower)	0.00	0.90	
26	Class B (planned interruptions on the network)	0.42	112.80	
27	Class C (unplanned interruptions on the network)	1.49	115.00	
28	Class D (unplanned interruptions by Transpower)	0.07	4.60	
29	Class E (unplanned interruptions of EDB owned generation)	0.00	0.00	
30	Class F (unplanned interruptions of generation owned by others)	0.00	0.00	
31	Class G (unplanned interruptions caused by another disclosing entity)	0.00	0.00	
32	Class H (planned interruptions caused by another disclosing entity)	0.00	0.00	
33	Class I (interruptions caused by parties not included above)	0.00	0.00	
34	Total	1.98	233.3	
35	Normalised SAIFI and SAIDI			
36	Classes B & C (interruptions on the network)	Normalised SAIFI	Normalised SAIDI	
37		1.91	227.8	
38	10(ii): Class C Interruptions and Duration by Cause			
39		SAIFI	SAIDI	
40	Cause			
41	Lightning	0.00	0.3	
42	Vegetation	0.32	27.9	
43	Adverse weather	0.00	0	
44	Adverse environment	0.03	2.8	
45	Third party interference	0.21	16.2	
46	Wildlife	0.10	3.9	
47	Human error	0.02	0.4	
48	Defective equipment	0.47	45.4	
49	Cause unknown	0.34	18.1	
50				
51				
52	10(iii): Class B Interruptions and Duration by Main Equipment Involved			
53		SAIFI	SAIDI	
54	Main equipment involved			
55	Subtransmission lines	0.00	0.0	
56	Subtransmission cables	0.00	0.0	
57	Subtransmission other	0.00	0.0	
58	Distribution lines (excluding LV)	0.14	48.3	
59	Distribution cables (excluding LV)	0.01	1.7	
60	Distribution other (excluding LV)	0.27	62.7	
61	10(iv): Class C Interruptions and Duration by Main Equipment Involved			
62		SAIFI	SAIDI	
63	Main equipment involved			
64	Subtransmission lines	0.34	13.5	
65	Subtransmission cables	0.01	0.2	
66	Subtransmission other	0.04	1	
67	Distribution lines (excluding LV)	0.81	70.8	
68	Distribution cables (excluding LV)	0.11	9	
69	Distribution other (excluding LV)	0.17	20.5	
70	10(v): Fault Rate			
71		Number of Faults	Circuit length (km)	Fault rate (faults per 100km)
72	Main equipment involved			
73	Subtransmission lines	29	344	8.44
74	Subtransmission cables	1	150	0.67
75	Subtransmission other	4		
76	Distribution lines (excluding LV)	607	2,857	21.25
77	Distribution cables (excluding LV)	74	1,517	4.88
78	Distribution other (excluding LV)	175		
79	Total	890		

