



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

Company Name	<input type="text" value="Vector"/>
Disclosure Date	<input type="text" value="29 October 2020"/>
Disclosure Year (year ended)	<input type="text" value="31 March 2020"/>

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 2020**

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	15,335	225	74,060	6,820	28,131
Network	6,270	92	30,280	2,788	11,502
Non-network	9,065	133	43,780	4,032	16,630
Expenditure on assets	104,840	1,540	506,319	46,625	192,322
Network	102,672	1,508	495,847	45,661	188,344
Non-network	2,168	32	10,472	964	3,978

1(ii): Revenue metrics

	Revenue per GWh energy delivered to ICPs (\$/GWh)	Revenue per average no. of ICPs (\$/ICP)
Total consumer line charge revenue	73,870	1,085
Standard consumer line charge revenue	77,142	1,051
Non-standard consumer line charge revenue	32,018	631,194

1(iii): Service intensity measures

Demand density	92	Maximum coincident system demand per km of circuit length (for supply) (kW/km)
Volume density	445	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	14,685	Total energy delivered to ICPs per average number of ICPs (kWh/ICP)

1(iv): Composition of regulatory income

	(\$000)	% of revenue
Operational expenditure	129,235	21.15%
Pass-through and recoverable costs excluding financial incentives and wash-ups	219,236	35.87%
Total depreciation	113,475	18.57%
Total revaluations	70,964	11.61%
Regulatory tax allowance	43,510	7.12%
Regulatory profit/(loss) including financial incentives and wash-ups	173,285	28.35%
Total regulatory income	611,169	

1(v): Reliability

Interruption rate	19.67	Interruptions per 100 circuit km
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Company Name **Vector**
For Year Ended **31 March 2020**

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(ii).

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 18 %	CY-1 31 Mar 19 %	Current Year CY 31 Mar 20 %
2(i): Return on Investment			
ROI – comparable to a post tax WACC			
Reflecting all revenue earned	4.90%	5.23%	5.01%
Excluding revenue earned from financial incentives	4.90%	5.34%	5.11%
Excluding revenue earned from financial incentives and wash-ups	4.97%	5.41%	5.18%
Mid-point estimate of post tax WACC	5.04%	4.75%	4.27%
25th percentile estimate	4.36%	4.07%	3.59%
75th percentile estimate	5.72%	5.43%	4.95%
ROI – comparable to a vanilla WACC			
Reflecting all revenue earned	5.49%	5.74%	5.44%
Excluding revenue earned from financial incentives	5.49%	5.85%	5.54%
Excluding revenue earned from financial incentives and wash-ups	5.56%	5.92%	5.60%
WACC rate used to set regulatory price path	7.19%	7.19%	7.19%
Mid-point estimate of vanilla WACC	5.60%	5.26%	4.69%
25th percentile estimate	4.92%	4.58%	4.01%
75th percentile estimate	6.29%	5.94%	5.37%
2(ii): Information Supporting the ROI			
			(\$000)
Total opening RAB value	3,075,471		
plus Opening deferred tax	(96,357)		
Opening RIV		2,979,114	
Line charge revenue		622,531	
Expenses cash outflow	348,471		
add Assets commissioned	815,133		
less Asset disposals	282,541		
add Tax payments	36,444		
less Other regulated income	(11,362)		
Mid-year net cash outflows		928,869	
Term credit spread differential allowance		3,392	
Total closing RAB value	3,564,758		
less Adjustment resulting from asset allocation	(794)		
less Lost and found assets adjustment	–		
plus Closing deferred tax	(103,423)		
Closing RIV		3,462,129	
ROI – comparable to a vanilla WACC			5.44%
Leverage (%)			42%
Cost of debt assumption (%)			3.61%
Corporate tax rate (%)			28%
ROI – comparable to a post tax WACC			5.01%



Company Name **Vector**
For Year Ended **31 March 2020**

SCHEDULE 2: REPORT ON RETURN ON INVESTMENT

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

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

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

sch ref

2(iii): Information Supporting the Monthly ROI

	Line charge revenue	Expenses cash outflow	Assets commissioned	Asset disposals	Other regulated income	Monthly net cash outflows
Opening RIV						2,979,114
April	47,839	28,889	9,589	1,815	(1,769)	38,432
May	52,062	28,577	15,647	676	(628)	44,176
June	56,205	27,771	17,510	993	(942)	45,230
July	60,224	29,611	7,815	608	(583)	37,401
August	61,018	30,039	12,390	622	(608)	42,415
September	54,655	29,657	9,819	638	(530)	39,368
October	52,304	29,700	15,476	896	(871)	45,151
November	48,660	29,346	20,203	1,504	(1,481)	49,526
December	48,194	27,567	21,502	789	(745)	49,025
January	47,842	27,573	14,508	1,393	(1,393)	42,081
February	45,663	27,964	26,008	876	(866)	53,962
March	47,865	31,777	644,666	271,731	(946)	405,658
Total	622,531	348,471	815,133	282,541	(11,362)	892,425
Tax payments						36,444
Term credit spread differential allowance						3,392
Closing RIV						3,462,129
Monthly ROI – comparable to a vanilla WACC						5.98%
Monthly ROI – comparable to a post tax WACC						5.56%

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

Year-end ROI – comparable to a vanilla WACC	5.33%
Year-end ROI – comparable to a post tax WACC	4.91%

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

2(v): Financial Incentives and Wash-Ups

Net recoverable costs allowed under incremental rolling incentive scheme	–
Purchased assets – avoided transmission charge	–
Energy efficiency and demand incentive allowance	–
Quality incentive adjustment	(4,449)
Other financial incentives	–
Financial incentives	(4,449)
Impact of financial incentives on ROI	–0.10%
Input methodology claw-back	–
CPP application recoverable costs	–
Catastrophic event allowance	–
Capex wash-up adjustment	(2,775)
Transmission asset wash-up adjustment	–
2013–15 NPV wash-up allowance	–
Reconsideration event allowance	–
Other wash-ups	–
Wash-up costs	(2,775)
Impact of wash-up costs on ROI	–0.06%



Company Name **Vector**
 For Year Ended **31 March 2020**

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	622,531	
9			
10	plus Gains / (losses) on asset disposals	(11,362)	
11	plus Other regulated income (other than gains / (losses) on asset disposals)	–	
12			
13	Total regulatory income	611,169	
14	Expenses		
15	less Operational expenditure	129,235	
16			
17	less Pass-through and recoverable costs excluding financial incentives and wash-ups	219,236	
18			
19	Operating surplus / (deficit)	262,698	
20			
21	less Total depreciation	113,475	
22			
23	plus Total revaluations	70,964	
24			
25	Regulatory profit / (loss) before tax	220,187	
26			
27	less Term credit spread differential allowance	3,392	
28			
29	less Regulatory tax allowance	43,510	
30			
31	Regulatory profit/(loss) including financial incentives and wash-ups	173,285	
32			
33	3(ii): Pass-through and Recoverable Costs excluding Financial Incentives and Wash-Ups	(\$000)	
34	Pass through costs		
35	Rates	7,885	
36	Commerce Act levies	1,464	
37	Industry levies	1,841	
38	CPP specified pass through costs	–	
39	Recoverable costs excluding financial incentives and wash-ups		
40	Electricity lines service charge payable to Transpower	195,877	
41	Transpower new investment contract charges	11,203	
42	System operator services	–	
43	Distributed generation allowance	966	
44	Extended reserves allowance	–	
45	Other recoverable costs excluding financial incentives and wash-ups	–	
46	Pass-through and recoverable costs excluding financial incentives and wash-ups	219,236	
47			
48	3(iii): Incremental Rolling Incentive Scheme	(\$000)	
49		CY-1	CY
50		31 Mar 19	31 Mar 20
51	Allowed controllable opex	–	–
52	Actual controllable opex	–	–
53			
54	Incremental change in year		–
55			
56		Previous years' incremental change	Previous years' incremental change adjusted for inflation
57	CY-5 31 Mar 15	–	–
58	CY-4 31 Mar 16	–	–
59	CY-3 31 Mar 17	–	–
60	CY-2 31 Mar 18	–	–
61	CY-1 31 Mar 19	–	–
62	Net incremental rolling incentive scheme		–
63			
64	Net recoverable costs allowed under incremental rolling incentive scheme		–
65	3(iv): Merger and Acquisition Expenditure	(\$000)	
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	(\$000)	
70			
71	Self-insurance allowance		–

Company Name **Vector**
For Year Ended **31 March 2020**

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

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

sch ref

4(i): Regulatory Asset Base Value (Rolled Forward)

	RAB 31 Mar 16 (\$000)	RAB 31 Mar 17 (\$000)	RAB 31 Mar 18 (\$000)	RAB 31 Mar 19 (\$000)	RAB 31 Mar 20 (\$000)
Total opening RAB value	2,660,795	2,682,398	2,879,136	2,951,716	3,075,471
less Total depreciation	94,495	96,289	108,316	108,729	113,475
plus Total revaluations	11,077	57,761	31,561	44,091	70,964
plus Assets commissioned	116,194	249,121	156,888	203,460	815,133
less Asset disposals	11,139	15,951	7,540	7,412	282,541
plus Lost and found assets adjustment	-	-	-	-	-
plus Adjustment resulting from asset allocation	(34)	2,095	(13)	(7,655)	(794)
Total closing RAB value	2,682,398	2,879,136	2,951,716	3,075,471	3,564,758

4(ii): Unallocated Regulatory Asset Base

	Unallocated RAB * (\$000)	RAB (\$000)
Total opening RAB value	3,100,307	3,075,471
less Adjustment to opening RAB value	(982)	
less Total depreciation	118,389	113,475
plus Total revaluations	71,489	70,964
plus Assets commissioned (other than below)	237,048	234,471
Assets acquired from a regulated supplier	-	-
Assets acquired from a related party	580,662	580,662
Assets commissioned	817,710	815,133
less Asset disposals (other than below)	13,145	11,951
Asset disposals to a regulated supplier	-	-
Asset disposals to a related party	270,590	270,590
Asset disposals	283,735	282,541
plus Lost and found assets adjustment	-	-
plus Adjustment resulting from asset allocation		(794)
Total closing RAB value	3,586,400	3,564,758

* 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.

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

CPI _t	1.052
CPI _{t-4}	1.026
Revaluation rate (%)	2.54%

	Unallocated RAB * (\$000)	RAB (\$000)
Total opening RAB value	3,100,307	3,075,471
less Adjustment to opening RAB value	(982)	
less Opening value of fully depreciated, disposed and lost assets	286,289	283,084
Total opening RAB value subject to revaluation	2,813,036	2,792,387
Total revaluations	71,489	70,964

4(iv): Roll Forward of Works Under Construction

	Unallocated works under construction	Allocated works under construction
Works under construction—preceding disclosure year	38,570	45,274
plus Adjustment to Works under construction—preceding disclosure year	8,954	2,312
plus Capital expenditure	808,041	805,765
less Assets commissioned	817,710	815,133
less Adjustment resulting from asset allocation		820
Works under construction - current disclosure year	37,855	37,998
Highest rate of capitalised finance applied		5.09%

4(v): Regulatory Depreciation

	Unallocated RAB * (\$000)	RAB (\$000)
Depreciation - standard	78,613	78,613
Depreciation - no standard life assets	39,776	34,862
Depreciation - modified life assets		
Depreciation - alternative depreciation in accordance with CPP		
Total depreciation	118,389	113,475

4(vi): Disclosure of Changes to Depreciation Profiles

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

* include additional rows if needed

4(vii): Disclosure by Asset Category

(\$000 unless otherwise specified)									
Subtransmission lines	Subtransmission cables	Zone substations	Distribution and LV lines	Distribution and LV cables	Distribution substations and transformers	Distribution switchgear	Other network assets	Non-network assets	Total



Company Name **Vector**
For Year Ended **31 March 2020**

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>											
103	Total opening RAB value	74,690	361,251	278,120	331,855	802,376	280,143	209,450	679,239	58,347	3,075,471
104	less Total depreciation	2,162	9,638	10,685	10,035	26,788	9,519	8,765	21,335	14,548	113,475
105	plus Total revaluations	1,893	6,319	6,960	8,487	20,243	7,061	5,204	13,471	1,326	70,964
106	plus Assets commissioned	–	275,134	24,718	48,943	15,489	17,485	42,454	363,564	27,346	815,133
107	less Asset disposals	46	111,648	3,347	2,094	1,412	1,410	4,097	146,669	11,818	282,541
108	plus Lost and found assets adjustment	–	–	–	–	–	–	–	–	–	–
109	plus Adjustment resulting from asset allocation	–	–	–	–	–	–	–	–	(794)	(794)
110	plus Asset category transfers	101	(334)	(4)	2,153	(1,970)	(5)	31	28	–	–
111	Total closing RAB value	74,476	521,084	295,762	379,309	807,938	293,755	244,277	888,298	59,859	3,564,758
112											
113	Asset Life										
114	Weighted average remaining asset life	43	47	33	43	38	35	29	32	12	(years)
115	Weighted average expected total asset life	59	72	42	58	60	45	36	41	16	(years)



Company Name **Vector**
For Year Ended **31 March 2020**

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		220,187
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	8,907	*
12	Amortisation of initial differences in asset values	34,251	
13	Amortisation of revaluations	12,711	
14			55,869
15			
16	<i>less</i> Total revaluations	70,964	
17	Income included in regulatory profit / (loss) before tax but not taxable	-	*
18	Discretionary discounts and customer rebates	-	
19	Expenditure or loss deductible but not in regulatory profit / (loss) before tax	1,992	*
20	Notional deductible interest	47,707	
21			120,664
22			
23	Regulatory taxable income		155,392
24			
25	<i>less</i> Utilised tax losses	-	
26	Regulatory net taxable income		155,392
27			
28	Corporate tax rate (%)	28%	
29	Regulatory tax allowance		43,510

* 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).

5a(iii): Amortisation of Initial Difference in Asset Values

		(\$000)	
36	Opening unamortised initial differences in asset values	1,027,534	
37	<i>less</i> Amortisation of initial differences in asset values	34,251	
38	<i>plus</i> Adjustment for unamortised initial differences in assets acquired	-	
39	<i>less</i> Adjustment for unamortised initial differences in assets disposed	64,714	
40	Closing unamortised initial differences in asset values		928,569
41			
42	Opening weighted average remaining useful life of relevant assets (years)		30
43			



Company Name **Vector**
 For Year Ended **31 March 2020**

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	2,792,726	
47			
48	Adjusted depreciation	100,764	
49	Total depreciation	113,475	
50	Amortisation of revaluations		12,711
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	(96,357)	
61			
62	plus Tax effect of adjusted depreciation	28,214	
63			
64	less Tax effect of tax depreciation	32,736	
65			
66	plus Tax effect of other temporary differences*	750	
67			
68	less Tax effect of amortisation of initial differences in asset values	9,590	
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	(7,042)	
73			
74	plus Deferred tax cost allocation adjustment	(745)	
75			
76	Closing deferred tax		(103,423)
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		(\$000)
82			
83	Opening sum of regulatory tax asset values	1,304,575	
84	less Tax depreciation	116,915	
85	plus Regulatory tax asset value of assets commissioned	248,839	
86	less Regulatory tax asset value of asset disposals	173,733	
87	plus Lost and found assets adjustment	-	
88	plus Adjustment resulting from asset allocation	(3,456)	
89	plus Other adjustments to the RAB tax value	-	
90	Closing sum of regulatory tax asset values		1,259,310



Company Name **Vector**
 For Year Ended **31 March 2020**

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

5b(i): Summary—Related Party Transactions		(\$000)	(\$000)
7	Total regulatory income		–
8			
9			
10	Market value of asset disposals		636,077
11			
12	Service interruptions and emergencies	–	
13	Vegetation management	9,750	
14	Routine and corrective maintenance and inspection	–	
15	Asset replacement and renewal (opex)	–	
16	Network opex		9,750
17	Business support	–	
18	System operations and network support	5,452	
19	Operational expenditure		15,202
20	Consumer connection	–	
21	System growth	578,985	
22	Asset replacement and renewal (capex)	1,493	
23	Asset relocations	–	
24	Quality of supply	–	
25	Legislative and regulatory	–	
26	Other reliability, safety and environment	366	
27	Expenditure on non-network assets		–
28	Expenditure on assets		580,844
29	Cost of financing		85
30	Value of capital contributions		–
31	Value of vested assets		–
32	Capital Expenditure		580,929
33	Total expenditure		596,131
34			
35	Other related party transactions		–

5b(iii): Total Opex and Capex Related Party Transactions		
Name of related party	Nature of opex or capex service provided	Total value of transactions (\$000)
PowerSmart NZ Limited	Other reliability, safety and environment	27
PowerSmart NZ Limited	System growth	1,334
Vector Communications Limited	Asset replacement and renewal (capex)	649
Vector Communications Limited	System growth	8,881
Vector Communications Limited	Other reliability, safety and environment	149
Vector Communications Limited	System operations and network support	3,741
Tree Scape Limited	Vegetation management	9,750
Tree Scape Limited	Asset replacement and renewal (capex)	844
Tree Scape Limited	Other reliability, safety and environment	190
Vector Auckland Property Limited	System growth	472,390
Vector Northern Property Limited	System growth	96,380
Digital division	System operations and network support	1,711
Total value of related party transactions		596,046



Company Name **Vector**
 For Year Ended **31 March 2020**

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
[]VCI	15-Mar-17	23-Dec-16	3	BKBM + []VCI				
[]VCI	2-Feb-18	19-Dec-17	3	BKBM + []VCI				
[]VCI	2-Feb-18	19-Dec-17	3	BKBM + []VCI				
[]VCI	2-Feb-18	19-Dec-17	3	BKBM + []VCI				
[]VCI	31-Jul-18	17-Jul-18	3	BKBM + []VCI				
[]VCI	31-Jul-18	17-Jul-18	3	BKBM + []VCI				
Subtotal of bank facilities- variable rate						393,819		
Capital bonds – fixed rate	15-Jun-17	14-Jun-17	5	5.7	307,205	306,192	[]VCI	[]VCI
Wholesale Bonds- fixed rate Mar17	14-Mar-17	3-Mar-17	7	4.996	100,000		[]VCI	[]VCI
Wholesale Bonds- fixed rate Jun18	25-Jun-18	21-Jun-18	5.7	4.996	140,000		[]VCI	[]VCI
Subtotal of wholesale bonds- variable rate					240,000	243,859	[]VCI	[]VCI
Senior notes - 2004 USPP 15yr	16-Sep-04	19-Jul-04	15	5.75	296,623		[]VCI	[]VCI
Senior notes - 2010 USPP 12yr	22-Dec-10	22-Sep-10	12	[]VCI	250,516		[]VCI	[]VCI
Senior notes - 2014 USPP 7yr	14-Oct-14	19-Jun-14	7	[]VCI	150,000		[]VCI	[]VCI
Senior notes - 2017 USPP 10yr	25-Oct-17	28-Sep-17	10	[]VCI	277,200		[]VCI	[]VCI
Senior notes - 2017 USPP 12yr	25-Oct-17	28-Sep-17	12	[]VCI	138,600		[]VCI	[]VCI
Subtotal of senior notes - USD fixed rate					1,112,939	1,220,546	[]VCI	[]VCI
Floating rate notes- variable rate	26-Oct-05	26-Oct-05	15	BKBM + []VCI	350,000	349,477	[]VCI	[]VCI
Unsubordinated fixed rate bonds	27-May-19	16-May-19	6.0	3.45	250,000	247,086	[]VCI	[]VCI
<i>* include additional rows if needed</i>						2,760,979	8,570	(1,855)

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

Gross term credit spread differential	6,715
Total book value of interest bearing debt	2,760,979
Leverage	42%
Average opening and closing RAB values	3,320,115
Attribution Rate (%)	51%
Term credit spread differential allowance	3,392



Company Name **Vector**
 For Year Ended **31 March 2020**

SCHEDULE 5d: REPORT ON COST ALLOCATIONS

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

sch ref

5d(i): Operating Cost Allocations

	Arm's length deduction	Value allocated (\$000s)		Total	OVABAA allocation increase (\$000s)
		Electricity distribution services	Non-electricity distribution services		
Service interruptions and emergencies					
Directly attributable		11,253			
Not directly attributable	-	-		-	-
Total attributable to regulated service		11,253			
Vegetation management					
Directly attributable		11,164			
Not directly attributable	-	-		-	-
Total attributable to regulated service		11,164			
Routine and corrective maintenance and inspection					
Directly attributable		16,593			
Not directly attributable	-	-		-	-
Total attributable to regulated service		16,593			
Asset replacement and renewal					
Directly attributable		13,829			
Not directly attributable	-	-		-	-
Total attributable to regulated service		13,829			
System operations and network support					
Directly attributable		29,809			
Not directly attributable	-	8,328	1,167	9,495	-
Total attributable to regulated service		38,137			
Business support					
Directly attributable		2,089			
Not directly attributable	-	36,170	16,703	52,873	-
Total attributable to regulated service		38,259			
Operating costs directly attributable		84,737			
Operating costs not directly attributable	-	44,498	17,870	62,368	-
Operational expenditure		129,235			

5d(ii): Other Cost Allocations

	(\$000)
Pass through and recoverable costs	
Pass through costs	
Directly attributable	11,190
Not directly attributable	-
Total attributable to regulated service	11,190
Recoverable costs	
Directly attributable	208,046
Not directly attributable	-
Total attributable to regulated service	208,046

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

		Original allocation	(\$000)	
			CY-1	Current Year (CY)
Change in cost allocation 1				
Cost category				
Original allocator or line items				
New allocator or line items				
		Difference	-	-
Rationale for change				
Change in cost allocation 2				
Cost category				
Original allocator or line items				
New allocator or line items				
		Difference	-	-
Rationale for change				
Change in cost allocation 3				
Cost category				
Original allocator or line items				
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 2020**

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 (5000s) Electricity distribution services
Subtransmission lines	
Directly attributable	73,144
Not directly attributable	1,332
Total attributable to regulated service	74,476
Subtransmission cables	
Directly attributable	521,084
Not directly attributable	-
Total attributable to regulated service	521,084
Zone substations	
Directly attributable	295,762
Not directly attributable	-
Total attributable to regulated service	295,762
Distribution and LV lines	
Directly attributable	339,277
Not directly attributable	40,032
Total attributable to regulated service	379,309
Distribution and LV cables	
Directly attributable	790,077
Not directly attributable	17,861
Total attributable to regulated service	807,938
Distribution substations and transformers	
Directly attributable	293,755
Not directly attributable	-
Total attributable to regulated service	293,755
Distribution switchgear	
Directly attributable	244,277
Not directly attributable	-
Total attributable to regulated service	244,277
Other network assets	
Directly attributable	882,804
Not directly attributable	5,494
Total attributable to regulated service	888,298
Non-network assets	
Directly attributable	24,439
Not directly attributable	35,420
Total attributable to regulated service	59,859
Regulated service asset value directly attributable	3,464,619
Regulated service asset value not directly attributable	100,139
Total closing RAB value	3,564,758

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

		(5000)	
		CY-1	Current Year (CY)
Change in asset value allocation 1			
Asset category	Non Network Assets	Original allocation	129
Original allocator or line items	Directly attributable	New allocation	80
New allocator or line items	Property, plant and equipment ratio for regulated businesses	Difference	16
Rationale for change	Assets have been repurposed.		
Change in asset value allocation 2			
Asset category	Non Network Assets	Original allocation	65
Original allocator or line items	Directly attributable	New allocation	32
New allocator or line items	Property, plant and equipment ratio	Difference	18
Rationale for change	Assets have been repurposed.		
Change in asset value allocation 3			
Asset category	Non Network Assets	Original allocation	6
Original allocator or line items	Directly attributable	New allocation	-
New allocator or line items	Not attributable	Difference	6
Rationale for change	These assets are now solely used by unregulated business.		
Change in asset value allocation 4			
Asset category	Non Network Assets	Original allocation	639
Original allocator or line items	Property, plant and equipment ratio	New allocation	377
New allocator or line items	Not attributable	Difference	639
Rationale for change	These assets are now solely used by unregulated business.		
Change in asset value allocation 5			
Asset category	Non Network Assets	Original allocation	110
Original allocator or line items	Relevant employee ratio	New allocation	-
New allocator or line items	Not attributable	Difference	110
Rationale for change	These assets are now solely used by unregulated business.		

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



Company Name **Vector**
For Year Ended **31 March 2020**

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

This schedule requires a breakdown of capital expenditure on assets incurred in the disclosure year, including any assets in respect of which capital contributions are received, but excluding assets that are vested assets. Information on expenditure on assets must be provided on an accounting accruals basis and must exclude finance costs.

EDBs must provide explanatory comment on their expenditure on assets in Schedule 14 (Explanatory Notes to Templates).

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

sch ref

7	6a(i): Expenditure on Assets		(\$000)	(\$000)
8	Consumer connection			70,441
9	System growth			615,001
10	Asset replacement and renewal			118,534
11	Asset relocations			28,279
12	Reliability, safety and environment:			
13	Quality of supply	1,991		
14	Legislative and regulatory	334		
15	Other reliability, safety and environment	30,673		
16	Total reliability, safety and environment			32,998
17	Expenditure on network assets			865,253
18	Expenditure on non-network assets			18,273
19				
20	Expenditure on assets			883,526
21	plus Cost of financing			1,648
22	less Value of capital contributions			79,409
23	plus Value of vested assets			-
24				
25	Capital expenditure			805,765
26	6a(ii): Subcomponents of Expenditure on Assets (where known)			(\$000)
27	Energy efficiency and demand side management, reduction of energy losses			-
28	Overhead to underground conversion			9,270
29	Research and development			4,900
30	6a(iii): Consumer Connection			
31	Consumer types defined by EDB*		(\$000)	(\$000)
32	Service connection		15,468	
33	Customer substations		17,582	
34	Business subdivisions		2,130	
35	Residential subdivisions		28,578	
36	Capacity change		5,354	
37	Street lighting		1,329	
38	Easement costs		-	
39	* include additional rows if needed			
40	Consumer connection expenditure			70,441
41	less Capital contributions funding consumer connection expenditure		61,551	
42	Consumer connection less capital contributions			8,890
43	6a(iv): System Growth and Asset Replacement and Renewal			
44			Asset	Replacement and
45			System Growth	Renewal
46			(\$000)	(\$000)
47	Subtransmission	287,213		5,417
48	Zone substations	12,987		24,465
49	Distribution and LV lines	1,493		49,042
50	Distribution and LV cables	4,052		7,986
51	Distribution substations and transformers	2,744		5,870
52	Distribution switchgear	1,990		17,892
53	Other network assets	304,522		7,862
54	System growth and asset replacement and renewal expenditure	615,001		118,534
55	less Capital contributions funding system growth and asset replacement and renewal		102	67
56	System growth and asset replacement and renewal less capital contributions	614,899		118,467
57	6a(v): Asset Relocations			
58	Project or programme*		(\$000)	(\$000)
59			-	
60			-	
61			-	
62			-	
63	* include additional rows if needed			
64	All other projects or programmes - asset relocations		28,279	
65	Asset relocations expenditure			28,279
66	less Capital contributions funding asset relocations		17,680	
67	Asset relocations less capital contributions			10,599



Company Name **Vector**
 For Year Ended **31 March 2020**

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	1,991		
78	Quality of supply expenditure		1,991	
79	less Capital contributions funding quality of supply	-		
80	Quality of supply less capital contributions		1,991	
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	334		
90	Legislative and regulatory expenditure		334	
91	less Capital contributions funding legislative and regulatory	9		
92	Legislative and regulatory less capital contributions		325	
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	30,673		
102	Other reliability, safety and environment expenditure		30,673	
103	less Capital contributions funding other reliability, safety and environment	-		
104	Other reliability, safety and environment less capital contributions		30,673	
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	4,701		
116	Routine expenditure		4,701	
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	13,572		
126	Atypical expenditure		13,572	
127				
128	Expenditure on non-network assets		18,273	



Company Name **Vector**
 For Year Ended **31 March 2020**

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	11,253	
9	Vegetation management	11,164	
10	Routine and corrective maintenance and inspection	16,593	
11	Asset replacement and renewal	13,829	
12	Network opex		52,839
13	System operations and network support	38,137	
14	Business support	38,259	
15	Non-network opex		76,396
16			
17	Operational expenditure		129,235
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		3,056
23	* Direct billing expenditure by suppliers that directly bill the majority of their consumers		



Company Name **Vector**
For Year Ended **31 March 2020**

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	623,553	622,531	(0%)
7(ii): Expenditure on Assets			
Consumer connection	72,214	70,441	(2%)
System growth	50,140	615,001	1,127%
Asset replacement and renewal	109,368	118,534	8%
Asset relocations	30,140	28,279	(6%)
Reliability, safety and environment:			
Quality of supply	924	1,991	115%
Legislative and regulatory	398	334	(16%)
Other reliability, safety and environment	18,684	30,673	64%
Total reliability, safety and environment	20,006	32,998	65%
Expenditure on network assets	281,868	865,253	207%
Expenditure on non-network assets	28,003	18,273	(35%)
Expenditure on assets	309,871	883,526	185%
7(iii): Operational Expenditure			
Service interruptions and emergencies	12,607	11,253	(11%)
Vegetation management	7,837	11,164	42%
Routine and corrective maintenance and inspection	17,772	16,593	(7%)
Asset replacement and renewal	13,227	13,829	5%
Network opex	51,443	52,839	3%
System operations and network support	42,198	38,137	(10%)
Business support	37,232	38,259	3%
Non-network opex	79,430	76,396	(4%)
Operational expenditure	130,873	129,235	(1%)
7(iv): Subcomponents of Expenditure on Assets (where known)			
Energy efficiency and demand side management, reduction of energy losses	-	-	-
Overhead to underground conversion	9,808	9,270	(5%)
Research and development	-	4,900	-
7(v): Subcomponents of Operational Expenditure (where known)			
Energy efficiency and demand side management, reduction of energy losses	-	-	-
Direct billing	-	-	-
Research and development	-	-	-
Insurance	2,864	3,056	7%

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 ICPs that are included in each consumer group or price category code, and the energy delivered to these ICPs.

sch ref

8(i): Billed Quantities by Price Component

Consumer group name or price category code	Consumer type or types (eg, residential, commercial etc.)	Standard or non-standard consumer group (specify)	Average no. of ICPs in disclosure year	Energy delivered to ICPs in disclosure year (MWh)	Unit charging basis (eg, days, kW of demand, kVA of capacity, etc.)
ARCL	residential	Standard	128,945	687,176	
ARCS	residential	Standard	75,004	742,998	
ARUL	residential	Standard	29,793	116,115	
ARUS	residential	Standard	18,103	127,940	
ARHL	residential	Standard	2,570	12,902	
ARHS	residential	Standard	1,232	12,380	
ARGL	residential	Standard	28,047	136,099	
ARGS	residential	Standard	14,432	150,865	
ABSN	general	Standard	36,072	711,357	
ABSU	general	Standard	1,706	29,324	
ABSH	general	Standard	465	26,961	
ALVN	low voltage	Standard	2,253	240,654	
ALVT	low voltage	Standard	1,446	554,082	
ATXN	transformer	Standard	158	22,275	
ATXT	transformer	Standard	926	1,144,642	
AHVN	high voltage	Standard	7	654	
AHVT	high voltage	Standard	138	432,604	
WRCL	residential	Standard	87,902	479,538	
WRCS	residential	Standard	62,429	631,846	
WRUL	residential	Standard	16,189	80,645	
WRUS	residential	Standard	16,679	131,510	
WRHL	residential	Standard	2,188	12,282	
WRHS	residential	Standard	1,592	16,824	
WRGL	residential	Standard	13,950	68,123	
WRGS	residential	Standard	6,950	68,126	
WBSN	general	Standard	22,130	375,657	
WBSU	general	Standard	636	17,481	
WBSH	general	Standard	257	15,968	
WLVN	low voltage	Standard	881	120,721	
WLVT	low voltage	Standard	258	120,459	
WTXN	transformer	Standard	128	35,672	
WTXH	transformer	Standard	278	361,833	
WHVN	high voltage	Standard	1	-	
WHVT	high voltage	Standard	24	121,525	
NS	non-standard	Non-standard	31	611,124	
<i>Add extra rows for additional consumer groups or price category codes as necessary.</i>					
Standard consumer totals			573,829	7,816,238	
Non-standard consumer totals			31	611,124	
Total for all consumers			573,860	8,427,362	

Billed quantities by price component

Price component	FIXD	AICO	24UC	OPFK	PEAK	CAPY	DAMD	DEXA	PWRP
	Day	kWh	kWh	kWh	kWh	kVA/Day	kVA/Day	kVA/Day	kVA/Day
	47,221,911	687,175,675	-	-	-	-	-	-	-
	27,473,957	742,997,873	-	-	-	-	-	-	-
	10,905,140	-	116,114,704	-	-	-	-	-	-
	6,622,112	-	127,939,506	-	-	-	-	-	-
	936,123	-	-	9,027,738	3,873,838	-	-	-	-
	448,995	-	-	8,715,756	3,664,452	-	-	-	-
	10,268,737	-	136,099,449	-	-	-	-	-	-
	5,284,705	-	150,864,827	-	-	-	-	-	-
	13,179,981	-	711,356,935	-	-	-	-	-	-
	25,790,084	-	29,323,906	-	-	-	-	-	-
	170,743	-	-	18,086,910	8,874,184	-	-	-	-
	825,094	-	240,654,239	-	-	122,818,665	-	-	367,349
	-	-	554,081,638	-	-	137,950,271	46,891,384	-	4,048,147
	57,688	-	22,274,721	-	-	13,005,038	-	-	30,391
	-	-	1,144,642,133	-	-	243,151,474	91,276,944	-	4,054,413
	2,768	-	654,351	-	-	550,254	-	-	8,759
	-	-	432,603,681	-	-	58,292,666	32,482,990	130,041	1,342,080
	32,188,380	479,538,407	-	-	-	-	-	-	-
	22,865,308	631,846,285	-	-	-	-	-	-	-
	5,921,483	-	80,644,668	-	-	-	-	-	-
	6,116,044	-	131,510,396	-	-	-	-	-	-
	796,838	-	-	8,676,041	3,605,634	-	-	-	-
	580,168	-	-	11,810,946	5,013,265	-	-	-	-
	5,107,256	-	68,123,135	-	-	-	-	-	-
	2,544,829	-	68,126,278	-	-	-	-	-	-
	8,090,408	-	375,656,552	-	-	-	-	-	-
	16,004,177	-	17,481,178	-	-	-	-	-	-
	94,196	-	-	10,802,484	5,165,751	-	-	-	-
	322,564	-	120,720,687	-	-	47,336,885	-	-	311,954
	94,548	-	129,458,613	-	-	24,330,497	9,943,698	-	671,772
	46,669	-	35,672,069	-	-	11,265,342	-	-	164,971
	101,768	-	361,832,981	-	-	76,456,940	28,816,387	-	1,404,237
	-	-	-	-	-	-	-	-	-
	8,768	-	121,524,537	-	-	14,501,498	8,726,198	113,288	426,829
	1,464	-	-	-	-	-	-	-	11,172
	250,071,442	2,541,558,240	5,177,361,194	67,119,875	30,197,124	749,659,530	218,137,601	243,329	12,830,902
	31	-	-	-	-	-	-	-	11,172
	250,072,906	2,541,558,240	5,177,361,194	67,119,875	30,197,124	749,659,530	218,137,601	243,329	12,842,074

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

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	\$7,070	\$63,653	-	-	-	-	-	-	-
ARCS	\$27,698	\$39,751	-	-	-	-	-	-	-
ARUL	\$1,833	-	\$11,590	-	-	-	-	-	-
ARUS	\$6,676	-	\$7,764	-	-	-	-	-	-
ARHL	\$140	-	-	\$580	\$600	-	-	-	-
ARHS	\$453	-	-	\$219	\$424	-	-	-	-
ARGL	\$10,330	-	\$12,607	-	-	-	-	-	-
ARGS	\$9,171	-	\$4,228	-	-	-	-	-	-
ABSN	\$31,469	-	\$24,989	-	-	-	-	-	-
ABSU	\$4,821	-	\$1,030	-	-	-	-	-	-
ABSH	\$861	-	\$1,990	-	-	-	-	-	-
ALVN	\$172	-	-	\$455	\$1,027	-	-	-	-
ALVT	\$16,723	-	\$15,181	-	-	\$5,161	-	-	\$107
ATXN	\$19,092	-	\$10,573	-	-	\$5,797	\$15,001	-	\$1,178
ATXT	\$1,539	-	\$481	-	-	\$535	-	-	\$9
AHVN	\$34,787	-	\$20,580	-	-	\$9,899	\$28,535	-	\$1,180
AHVT	\$55	-	\$39	-	-	\$22	-	-	\$3
WRCL	\$11,008	-	\$7,324	-	-	\$2,322	\$9,805	\$114	\$301
WRGL	\$35,877	-	\$13,438	-	-	-	-	-	-
WRCS	\$4,827	\$44,488	-	-	-	-	-	-	-
WRUL	\$23,087	\$33,857	-	-	-	-	-	-	-
WRUS	\$6,117	-	\$8,062	-	-	-	-	-	-
WRHL	\$9,548	-	\$7,993	-	-	-	-	-	-
WRHS	\$119	-	\$559	\$559	-	-	-	-	-
WRGL	\$1,016	-	\$449	\$298	\$581	-	-	-	-
WRCS	\$5,177	-	\$1,909	\$766	\$320	-	-	-	-
WRUS	\$4,310	-	\$3,650	\$2,569	\$3,650	-	-	-	-
WBSU	\$17,806	-	\$13,196	\$8,169	\$22,833	-	-	-	-
WBSN	\$2,400	-	\$1,188	\$2,400	-	-	-	-	-
WBSH	\$95	-	\$272	\$599	-	-	-	-	-
WLVN	\$2,019	-	\$5,189	-	-	\$1,604	-	-	\$91
WLVT	\$1,114	-	\$764	-	-	\$825	\$2,891	-	\$196
WTXN	\$263	-	\$1,366	-	-	\$374	-	-	\$48
WTXH	\$1,079	-	\$2,098	-	-	\$2,538	\$8,187	-	\$409
WHVN	-	-	-	-	-	-	-	-	-
WHVT	\$90	-	\$680	-	-	\$467	\$2,395	\$80	\$124
NS	\$19,350	-	-	-	-	-	-	-	\$217
Standard consumer totals	\$123,680	\$181,749	\$190,973	\$2,383	\$3,790	\$29,644	\$66,814	\$194	\$3,737
Non-standard consumer totals	\$19,350	-	-	-	-	-	-	-	\$217
Total for all consumers	\$143,030	\$181,749	\$190,973	\$2,383	\$3,790	\$29,644	\$66,814	\$194	\$3,954

Add extra columns for additional line charge revenues 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)	Total line charge revenue in disclosure year	Notional revenue foregone from posted discounts (if applicable)
ARCL	residential	Standard	\$70,723	-
ARCS	residential	Standard	\$67,449	-
ARUL	residential	Standard	\$13,223	-
ARUS	residential	Standard	\$14,440	-
ARHL	residential	Standard	\$1,320	-
ARHS	residential	Standard	\$1,096	-
ARGL	residential	Standard	\$14,144	-
ARGS	residential	Standard	\$13,399	-
ABSN	general	Standard	\$56,458	-
ABSU	general	Standard	\$5,851	-
ABSH	general	Standard	\$1,654	-
ALVN	low voltage	Standard	\$21,923	-
ALVT	low voltage	Standard	\$29,665	-
ATXN	transformer	Standard	\$2,000	-
ATXT	transformer	Standard	\$55,367	-
AHVN	high voltage	Standard	\$69	-
AHVT	high voltage	Standard	\$18,332	-
WRCL	residential	Standard	\$49,315	-
WRCS	residential	Standard	\$56,944	-
WRUL	residential	Standard	\$8,950	-
WRUS	residential	Standard	\$14,168	-
WRHL	residential	Standard	\$1,237	-
WRHS	residential	Standard	\$1,465	-
WRGL	residential	Standard	\$7,086	-
WRCS	residential	Standard	\$6,219	-
WBSU	general	Standard	\$31,002	-
WBSN	general	Standard	\$3,588	-
WBSH	general	Standard	\$966	-
WLVN	low voltage	Standard	\$8,903	-
WLVT	low voltage	Standard	\$5,790	-
WTXN	transformer	Standard	\$2,051	-
WTXH	transformer	Standard	\$14,311	-
WHVN	high voltage	Standard	-	-
WHVT	high voltage	Standard	\$3,836	-
NS	non-standard	Non-standard	\$19,567	-
Standard consumer totals			\$602,964	-
Non-standard consumer totals			\$19,567	-
Total for all consumers			\$622,531	-

Add extra rows for additional consumer groups or price category codes as necessary

Total distribution line charge revenue	Total transmission line charge revenue (if available)	Rate (eg, \$ per day, \$ per kWh, etc.)
\$51,466	\$19,257	
\$46,628	\$30,821	
\$9,144	\$4,079	
\$9,946	\$4,494	
\$973	\$347	
\$768	\$328	
\$10,330	\$3,814	
\$9,171	\$4,228	
\$31,469	\$24,989	
\$4,821	\$1,030	
\$861	\$794	
\$16,723	\$5,200	
\$19,092	\$10,573	
\$1,539	\$481	
\$34,787	\$20,580	
\$55	\$14	
\$11,008	\$7,324	
\$35,877	\$13,438	
\$4,827	\$44,488	
\$23,087	\$17,707	
\$6,117	\$2,833	
\$9,548	\$4,620	
\$119	\$323	
\$1,016	\$449	
\$5,177	\$1,909	
\$4,310	\$3,650	
\$17,806	\$13,196	
\$2,400	\$1,188	
\$95	\$462	
\$2,019	\$2,609	
\$1,114	\$2,242	
\$263	\$771	
\$1,079	\$6,497	
-	-	
\$1,868	\$1,968	
\$11,421	\$8,146	
\$403,064	\$199,900	
\$11,421	\$8,146	
\$414,485	\$208,046	

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.

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8(i): Billed Quantities by Price Component

Consumer group name or price category code	Consumer type or types (eg, residential, commercial etc.)	Standard or non-standard consumer group (specify)	Average no. of ICPs in disclosure year	Energy delivered to ICPs in disclosure year (MWh)
ARCL	residential	Standard	128,945	687,176
ARCS	residential	Standard	75,004	742,998
ARUL	residential	Standard	29,793	116,115
ARUS	residential	Standard	18,103	127,940
ARHL	residential	Standard	2,570	12,902
ARHS	residential	Standard	1,232	12,380
ARGL	residential	Standard	28,047	136,099
ARGS	residential	Standard	14,432	150,865
ABSN	general	Standard	36,072	711,357
ABSU	general	Standard	1,706	29,324
ABSH	general	Standard	465	26,961
ALVN	low voltage	Standard	2,253	240,654
ALVT	low voltage	Standard	1,446	554,082
ATXN	transformer	Standard	158	22,275
ATXT	transformer	Standard	926	1,144,642
AHVN	high voltage	Standard	7	654
AHVT	high voltage	Standard	138	432,604
NS	non-standard	Non-standard	27	516,094
<i>Add extra rows for additional consumer groups or price category codes as necessary</i>				
Standard consumer totals			341,297	5,149,028
Non-standard consumer totals			27	516,094
Total for all consumers			341,324	5,665,122

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

Billed quantities by price component

Price component	FIXD	AICO	24UC	OPFK	PEAK	CAPY	DAMD	DEXA	PWRP
	Day	kWh	kWh	kWh	kWh	kVA/Day	kVA/Day	kVA/Day	kVA/Day
	47,221,911	687,175,675	--	--	--	--	--	--	--
	22,473,957	742,997,873	--	--	--	--	--	--	--
	10,905,140	--	116,114,704	--	--	--	--	--	--
	6,622,112	--	127,939,506	--	--	--	--	--	--
	936,123	--	--	9,027,738	3,873,838	--	--	--	--
	448,995	--	--	8,715,756	3,664,452	--	--	--	--
	10,268,737	--	136,099,449	--	--	--	--	--	--
	5,284,705	--	150,864,827	--	--	--	--	--	--
	13,179,981	--	711,356,935	--	--	--	--	--	--
	25,790,084	--	29,323,906	--	--	--	--	--	--
	170,743	--	--	18,086,910	8,874,184	--	--	--	--
	825,094	--	240,654,239	--	--	122,818,665	--	--	367,345
	--	--	554,081,638	--	--	137,950,271	46,891,384	--	4,048,147
	57,688	--	22,274,731	--	--	13,005,038	--	--	30,391
	--	--	1,144,642,133	--	--	243,151,474	91,276,944	--	4,054,413
	2,768	--	654,351	--	--	550,254	--	--	8,750
	--	--	432,603,681	--	--	58,292,666	32,482,990	130,041	1,342,080
	9,882	--	--	--	--	--	--	--	17,221
	149,188,038	1,430,173,548	3,666,610,100	35,830,404	16,412,474	575,768,368	170,651,318	130,041	9,851,139
	9,882	--	--	--	--	--	--	--	17,221
	149,197,920	1,430,173,548	3,666,610,100	35,830,404	16,412,474	575,768,368	170,651,318	130,041	9,868,360

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 **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.)
ARCL	residential	Standard	\$70,723		\$51,466	\$19,257	
ARCS	residential	Standard	\$67,449		\$46,628	\$20,821	
ARUL	residential	Standard	\$13,223		\$9,144	\$4,079	
ARUS	residential	Standard	\$14,440		\$9,946	\$4,494	
ARHL	residential	Standard	\$1,320		\$973	\$347	
ARHS	residential	Standard	\$1,096		\$768	\$328	
ARGL	residential	Standard	\$14,144		\$10,330	\$3,814	
ARG5	residential	Standard	\$13,399		\$9,171	\$4,228	
ABSN	general	Standard	\$56,458		\$31,469	\$24,989	
ABSJ	general	Standard	\$5,851		\$4,821	\$1,030	
ABSH	general	Standard	\$1,654		\$860	\$794	
ALVN	low voltage	Standard	\$21,923		\$16,723	\$5,200	
ALVT	low voltage	Standard	\$29,665		\$19,092	\$10,573	
ATXN	transformer	Standard	\$2,020		\$1,339	\$681	
ATXT	transformer	Standard	\$55,367		\$34,787	\$20,580	
AHVN	high voltage	Standard	\$69		\$55	\$14	
AHVT	high voltage	Standard	\$18,332		\$11,008	\$7,324	
NS	non-standard	Non-standard	\$16,747		\$9,344	\$7,403	
Standard consumer totals			\$387,133	--	\$258,780	\$128,353	
Non-standard consumer totals			\$16,747	--	\$9,344	\$7,403	
Total for all consumers			\$403,880	--	\$268,124	\$135,756	

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
	\$7,070	\$63,653	--	--	--	--	--	--	--
	\$27,698	\$39,751	--	--	--	--	--	--	--
	\$1,633	--	\$11,590	--	--	--	--	--	--
	\$6,676	--	\$7,764	--	--	--	--	--	--
	\$140	--	--	\$580	\$600	--	--	--	--
	\$453	--	--	\$219	\$424	--	--	--	--
	\$1,537	--	\$12,607	--	--	--	--	--	--
	\$5,328	--	\$8,071	--	--	--	--	--	--
	\$13,287	--	\$43,171	--	--	--	--	--	--
	\$3,861	--	\$1,990	--	--	--	--	--	--
	\$172	--	--	\$455	\$1,027	--	--	--	--
	\$1,474	--	\$15,181	--	--	\$5,161	--	--	\$107
	--	--	\$7,688	--	--	\$5,797	\$15,001	--	\$1,175
	\$100	--	\$1,316	--	--	\$335	--	--	\$9
	--	--	\$15,653	--	--	\$9,999	\$28,535	--	\$1,180
	\$5	--	\$39	--	--	\$22	--	--	\$3
	--	--	\$5,700	--	--	\$2,322	\$9,805	\$114	\$991
	\$16,619	--	--	--	--	--	--	--	\$128
	\$69,434	\$103,404	\$130,830	\$1,254	\$2,051	\$23,836	\$53,341	\$114	\$2,869
	\$16,619	--	--	--	--	--	--	--	\$128
	\$86,053	\$103,404	\$130,830	\$1,254	\$2,051	\$23,836	\$53,341	\$114	\$2,997

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

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 ICs that are included in each consumer group or price category code, and the energy delivered to these ICs.

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8(i): Billed Quantities by Price Component

Consumer group name or price category code	Consumer type or types (eg, residential, commercial etc.)	Standard or non-standard consumer group (specify)	Average no. of ICs in disclosure year	Energy delivered to ICs in disclosure year (MWh)	
WRCL	residential	Standard	87,902	479,538	
WRCS	residential	Standard	62,425	631,846	
WRLL	residential	Standard	16,189	80,645	
WRLS	residential	Standard	16,679	131,510	
WRHL	residential	Standard	2,188	12,282	
WRHS	residential	Standard	1,592	16,824	
WRGL	residential	Standard	13,950	68,123	
WRGS	residential	Standard	6,950	68,126	
WBSN	general	Standard	22,190	375,657	
WBSU	general	Standard	636	17,481	
WBSH	general	Standard	257	15,968	
WLVN	low voltage	Standard	881	120,721	
WLVH	low voltage	Standard	258	129,459	
WTKN	transformer	Standard	128	35,672	
WTKH	transformer	Standard	278	361,833	
WHVN	high voltage	Standard	1	-	
WHVH	high voltage	Standard	24	121,525	
NS	non-standard	Non-standard	4	95,030	
Standard consumer totals				232,532	2,667,210
Non-standard consumer totals				4	95,030
Total for all consumers				232,536	2,762,240

Add extra rows for additional consumer groups or price category codes as necessary

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

Billed quantities by price component

Price component	FIXD	AICO	24UC	OPFK	PEAK	CAPY	DAMD	DEXA	PWRF
	Day	kWh	kWh	kWh	kWh	kVA/Day	kVA/Day	kVA/Day	kVA/Day
	32,188,380	479,538,407	-	-	-	-	-	-	-
	22,865,308	631,846,285	-	-	-	-	-	-	-
	5,921,483	-	80,644,668	-	-	-	-	-	-
	6,116,044	-	131,510,396	-	-	-	-	-	-
	796,838	-	-	8,676,041	3,605,634	-	-	-	-
	580,168	-	-	11,810,946	5,013,265	-	-	-	-
	5,107,256	-	68,123,135	-	-	-	-	-	-
	2,544,829	-	68,126,278	-	-	-	-	-	-
	8,090,408	-	375,656,552	-	-	-	-	-	-
	16,004,177	-	17,481,178	-	-	-	-	-	-
	94,196	-	-	10,802,484	5,165,751	-	-	-	-
	327,564	-	120,720,687	-	-	47,136,885	-	-	311,954
	94,548	-	129,458,613	-	-	24,330,497	9,943,698	-	671,772
	46,669	-	35,672,069	-	-	11,365,342	-	-	164,971
	101,768	-	361,832,981	-	-	76,456,940	28,816,387	-	1,404,237
	-	-	-	-	-	-	-	-	-
	8,768	-	121,524,537	-	-	14,501,498	8,726,198	113,288	426,829
	1,464	-	-	-	-	-	-	-	11,172
	100,883,404	1,111,384,692	1,510,751,094	31,289,471	13,784,650	173,891,162	47,486,283	113,288	2,979,763
	1,464	-	-	-	-	-	-	-	11,172
	100,884,868	1,111,384,692	1,510,751,094	31,289,471	13,784,650	173,891,162	47,486,283	113,288	2,990,935

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 **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	\$49,315		\$35,877	\$13,438		\$4,827	\$44,488										
WRCS	residential	Standard	\$56,944		\$39,237	\$17,707		\$23,087	\$33,857										
WRLL	residential	Standard	\$8,950		\$6,117	\$2,833		\$988											
WRLS	residential	Standard	\$14,168		\$9,548	\$4,620		\$6,175											
WRHL	residential	Standard	\$1,237		\$914	\$323		\$119											
WRHS	residential	Standard	\$1,465		\$1,016	\$449		\$586											
WRGL	residential	Standard	\$7,086		\$5,177	\$1,909		\$766											
WRGS	residential	Standard	\$6,219		\$4,310	\$1,909		\$2,569											
WBSN	general	Standard	\$31,002		\$17,806	\$13,196		\$8,169											
WBSLJ	general	Standard	\$3,588		\$2,974	\$614		\$2,400											
WBSH	general	Standard	\$966		\$504	\$462		\$95											
WLVN	low voltage	Standard	\$8,903		\$6,294	\$2,609		\$2,019											
DLVH	low voltage	Standard	\$5,790		\$3,548	\$2,242		\$1,114											
WTKN	transformer	Standard	\$2,051		\$1,280	\$771		\$263											
WTKH	transformer	Standard	\$14,311		\$7,814	\$6,497		\$1,079											
WHVN	high voltage	Standard																	
WHVH	high voltage	Standard	\$3,836		\$1,868	\$1,968		\$90											
NS	non-standard	Non-standard	\$2,820		\$2,077	\$743		\$2,731											
Standard consumer totals				\$215,831		\$144,284	\$71,547	\$54,246	\$78,345	\$60,143	\$1,129	\$1,739	\$5,808	\$13,473	\$80		\$868		
Non-standard consumer totals				\$2,820		\$2,077	\$743	\$2,731										\$89	
Total for all consumers				\$218,651		\$146,361	\$72,290	\$56,977	\$78,345	\$60,143	\$1,129	\$1,739	\$5,808	\$13,473	\$80		\$957		

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

Company Name	Vector
For Year Ended	31 March 2020
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.	115,938	117,263	1,325	3
10	All	Overhead Line	Wood poles	No.	6,171	5,826	-345	2
11	All	Overhead Line	Other pole types	No.	831	935	104	4
12	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	369	368	-1	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	348	354	5	4
15	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km	145	145	0	4
16	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressurised)	km	2	2	0	4
17	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Gas Pressurised)	km	50	50	0	4
18	HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	km	30	30	0	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.	101	102	1	4
24	HV	Zone substation Buildings	Zone substations 110kV+	No.	6	7	1	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.	245	183	-62	4
29	HV	Zone substation switchgear	33kV RMU	No.	9	13	4	4
30	HV	Zone substation switchgear	22/33kV CB (Indoor)	No.	245	260	15	4
31	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.	130	105	-25	4
32	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.	1,330	1,369	39	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.	216	219	3	4
35	HV	Distribution Line	Distribution OH Open Wire Conductor	km	3,758	3,746	-12	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	1,510	1,561	51	4
39	HV	Distribution Cable	Distribution UG PILC	km	2,201	2,184	-17	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.	261	274	13	4
42	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.	272	293	21	3
43	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	10,343	10,536	193	3
44	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	3,204	3,246	42	3
45	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.	6,160	6,216	56	4
46	HV	Distribution Transformer	Pole Mounted Transformer	No.	7,577	7,600	23	4
47	HV	Distribution Transformer	Ground Mounted Transformer	No.	14,317	14,559	242	4
48	HV	Distribution Transformer	Voltage regulators	No.	11	12	1	4
49	HV	Distribution Substations	Ground Mounted Substation Housing	No.	12,847	13,075	228	3
50	LV	LV Line	LV OH Conductor	km	4,028	4,154	127	3
51	LV	LV Cable	LV UG Cable	km	6,202	6,290	88	4
52	LV	LV Street lighting	LV OH/UG Streetlight circuit	km	463	479	15	3
53	LV	Connections	OH/UG consumer service connections	No.	568,897	578,106	9,209	4
54	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.	3,748	3,934	186	3
55	All	SCADA and communications	SCADA and communications equipment operating as a single system	Lot	332	356	24	2
56	All	Capacitor Banks	Capacitors including controls	No.	77	76	-1	4
57	All	Load Control	Centralised plant	Lot	33	33	0	3
58	All	Load Control	Relays	No.	0	0	0	N/A
59	All	Civils	Cable Tunnels	km	10	10	0	3

Company Name	Vector
For Year Ended	31 March 2020
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

	Voltage	Asset category	Asset class	Units	Items at start of year (quantity)	Items at end of year (quantity)	Net change	Data accuracy (1-4)
8	All	Overhead Line	Concrete poles / steel structure	No.	49,982	50,392	410	3
9	All	Overhead Line	Wood poles	No.	3,868	3,706	-162	2
10	All	Overhead Line	Other pole types	No.	407	437	30	4
11	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	51	51	0	4
12	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km	0	0	0	N/A
13	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km	205	209	4	4
14	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km	143	142	0	4
15	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressurised)	km	2	2	0	4
16	HV	Subtransmission Cable	Subtransmission UG 110kV+ (PILC)	km	49	49	0	4
17	HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	km	30	30	0	4
18	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Oil pressurised)	km	17	17	0	4
19	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Gas Pressurised)	km	0	0	0	N/A
20	HV	Subtransmission Cable	Subtransmission UG 110kV+ (PILC)	km	0	0	0	4
21	HV	Subtransmission Cable	Subtransmission submarine cable	km	11	11	0	4
22	HV	Zone substation Buildings	Zone substations up to 66kV	No.	50	50	0	4
23	HV	Zone substation Buildings	Zone substations 110kV+	No.	5	5	0	4
24	HV	Zone substation switchgear	50/66/110kV CB (Indoor)	No.	20	20	0	4
25	HV	Zone substation switchgear	50/66/110kV CB (Outdoor)	No.	0	0	0	N/A
26	HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No.	0	0	0	N/A
27	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.	0	0	0	N/A
28	HV	Zone substation switchgear	33kV RMU	No.	0	0	0	N/A
29	HV	Zone substation switchgear	22/33kV CB (Indoor)	No.	132	124	-8	4
30	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.	0	0	0	N/A
31	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.	833	859	26	4
32	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.	0	0	0	N/A
33	HV	Zone Substation Transformer	Zone Substation Transformers	No.	129	129	0	4
34	HV	Distribution Line	Distribution OH Open Wire Conductor	km	885	883	-2	3
35	HV	Distribution Line	Distribution OH Aerial Cable Conductor	km	0	0	0	N/A
36	HV	Distribution Line	SWER conductor	km	0	0	0	N/A
37	HV	Distribution Cable	Distribution UG XLPE or PVC	km	674	697	22	4
38	HV	Distribution Cable	Distribution UG PILC	km	1,576	1,564	-12	4
39	HV	Distribution Cable	Distribution Submarine Cable	km	2	2	0	4
40	HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers	No.	58	60	2	4
41	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.	216	235	19	3
42	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	2,428	2,438	10	3
43	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	2,503	2,463	-40	3
44	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.	4,535	4,535	0	4
45	HV	Distribution Transformer	Pole Mounted Transformer	No.	1,975	1,977	2	4
46	HV	Distribution Transformer	Ground Mounted Transformer	No.	6,893	7,027	134	4
47	HV	Distribution Transformer	Voltage regulators	No.	4	5	1	4
48	HV	Distribution Substations	Ground Mounted Substation Housing	No.	6,103	6,187	84	3
49	LV	LV Line	LV OH Conductor	km	1,900	1,934	34	3
50	LV	LV Cable	LV UG Cable	km	3,757	3,799	42	4
51	LV	LV Street lighting	LV OH/UG Streetlight circuit	km	260	264	4	3
52	LV	Connections	OH/UG consumer service connections	No.	338,487	343,703	5,216	4
53	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.	2,080	2,161	81	3
54	All	SCADA and communications	SCADA and communications equipment operating as a single system	Lot	180	197	17	2
55	All	Capacitor Banks	Capacitors including controls	No.	13	13	0	4
56	All	Load Control	Centralised plant	Lot	22	22	0	3
57	All	Load Control	Relays	No.	0	0	0	N/A
58	All	Civils	Cable Tunnels	km	10	10	0	3

Company Name	Vector
For Year Ended	31 March 2020
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

	Voltage	Asset category	Asset class	Units	Items at start of year (quantity)	Items at end of year (quantity)	Net change	Data accuracy (1-4)
8	All	Overhead Line	Concrete poles / steel structure	No.	65,956	66,871	915	3
9	All	Overhead Line	Wood poles	No.	2,303	2,120	-183	2
10	All	Overhead Line	Other pole types	No.	424	498	74	4
11	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	318	317	-1	4
12	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km	27	27	0	4
13	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km	144	145	1	4
14	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km	2	2	0	4
15	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressurised)	km	0	0	0	N/A
16	HV	Subtransmission Cable	Subtransmission UG up to 66kV (PILC)	km	1	1	0	4
17	HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	km	0	0	0	N/A
18	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Oil pressurised)	km	0	0	0	N/A
19	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Gas Pressurised)	km	0	0	0	N/A
20	HV	Subtransmission Cable	Subtransmission UG 110kV+ (PILC)	km	0	0	0	N/A
21	HV	Subtransmission Cable	Subtransmission submarine cable	km	1	1	0	4
22	HV	Zone substation Buildings	Zone substations up to 66kV	No.	51	52	1	4
23	HV	Zone substation Buildings	Zone substations 110kV+	No.	1	2	1	4
24	HV	Zone substation switchgear	50/66/110kV CB (Indoor)	No.	0	0	0	N/A
25	HV	Zone substation switchgear	50/66/110kV CB (Outdoor)	No.	2	2	0	4
26	HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No.	0	0	0	N/A
27	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.	245	183	-62	4
28	HV	Zone substation switchgear	33kV RMU	No.	9	13	4	4
29	HV	Zone substation switchgear	22/33kV CB (Indoor)	No.	113	136	23	4
30	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.	130	105	-25	4
31	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.	497	510	13	4
32	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.	0	0	0	N/A
33	HV	Zone Substation Transformer	Zone Substation Transformers	No.	87	90	3	4
34	HV	Distribution Line	Distribution OH Open Wire Conductor	km	2,873	2,863	-11	3
35	HV	Distribution Line	Distribution OH Aerial Cable Conductor	km	0	0	0	N/A
36	HV	Distribution Line	SWER conductor	km	0	0	0	N/A
37	HV	Distribution Cable	Distribution UG XLPE or PVC	km	835	864	29	4
38	HV	Distribution Cable	Distribution UG PILC	km	625	620	-5	4
39	HV	Distribution Cable	Distribution Submarine Cable	km	7	7	0	4
40	HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers	No.	203	214	11	4
41	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.	56	58	2	3
42	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	7,915	8,098	183	3
43	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	701	783	82	3
44	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.	1,625	1,681	56	4
45	HV	Distribution Transformer	Pole Mounted Transformer	No.	5,602	5,623	21	4
46	HV	Distribution Transformer	Ground Mounted Transformer	No.	7,424	7,532	108	4
47	HV	Distribution Transformer	Voltage regulators	No.	7	7	0	4
48	HV	Distribution Substations	Ground Mounted Substation Housing	No.	6,744	6,888	144	3
49	LV	LV Line	LV OH Conductor	km	2,128	2,221	93	3
50	LV	LV Cable	LV UG Cable	km	2,445	2,491	46	4
51	LV	LV Street lighting	LV OH/UG Streetlight circuit	km	203	215	12	3
52	LV	Connections	OH/UG consumer service connections	No.	230,410	234,403	3,993	4
53	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.	1,668	1,773	105	3
54	All	SCADA and communications	SCADA and communications equipment operating as a single system	Lot	152	159	7	2
55	All	Capacitor Banks	Capacitors including controls	No.	64	63	-1	4
56	All	Load Control	Centralised plant	Lot	11	11	0	3
57	All	Load Control	Relays	No.	0	0	0	N/A
58	All	Civils	Cable Tunnels	km	0	0	0	N/A

Company Name	Vector
For Year Ended	31 March 2020
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		Overhead (km)	Underground (km)	Total circuit length (km)
9				
10	Circuit length by operating voltage (at year end)			
11	> 66kV	27	47	74
12	50kV & 66kV	-	-	-
13	33kV	365	422	787
14	SWER (all SWER voltages)	-	-	-
15	22kV (other than SWER)	3	187	190
16	6.6kV to 11kV (inclusive—other than SWER)	3,746	3,708	7,454
17	Low voltage (< 1kV)	4,154	6,290	10,445
18	Total circuit length (for supply)	8,295	10,655	18,950
19				
20	Dedicated street lighting circuit length (km)	17	461	479
21	Circuit in sensitive areas (conservation areas, iwi territory etc) (km)			4,481
22				
23	Overhead circuit length by terrain (at year end)			
24	Urban	4,762		57%
25	Rural	3,533		43%
26	Remote only	-		-
27	Rugged only	-		-
28	Remote and rugged	-		-
29	Unallocated overhead lines	-		-
30	Total overhead length	8,295		100%
31				
32				
33	Length of circuit within 10km of coastline or geothermal areas (where known)	18,915		99.8%
34				
35	Overhead circuit requiring vegetation management	8,295		100%

Company Name	Vector
For Year Ended	31 March 2020
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

9				
10	Circuit length by operating voltage (at year end)	Overhead (km)	Underground (km)	Total circuit length (km)
11	> 66kV	-	47	47
12	50kV & 66kV	-	-	-
13	33kV	48	273	321
14	SWER (all SWER voltages)	-	-	-
15	22kV (other than SWER)	3	187	190
16	6.6kV to 11kV (inclusive—other than SWER)	883	2,216	3,099
17	Low voltage (< 1kV)	1,934	3,799	5,733
18	Total circuit length (for supply)	2,868	6,522	9,390
19				
20	Dedicated street lighting circuit length (km)	5	259	264
21	Circuit in sensitive areas (conservation areas, iwi territory etc) (km)			2,370
22				
23	Overhead circuit length by terrain (at year end)	Circuit length (km)	(% of total overhead length)	
24	Urban	2,395	84%	
25	Rural	473	16%	
26	Remote only	-	-	
27	Rugged only	-	-	
28	Remote and rugged	-	-	
29	Unallocated overhead lines	-	-	
30	Total overhead length	2,868	100%	
31				
32		Circuit length (km)	(% of total circuit length)	
33	Length of circuit within 10km of coastline or geothermal areas (where known)	9,382	99.9%	
34		Circuit length (km)	(% of total overhead length)	
35	Overhead circuit requiring vegetation management	2,868	100%	

Company Name	Vector
For Year Ended	31 March 2020
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

sch ref		Overhead (km)	Underground (km)	Total circuit length (km)
9				
10	Circuit length by operating voltage (at year end)			
11	> 66kV	27	–	27
12	50kV & 66kV	–	–	–
13	33kV	317	149	466
14	SWER (all SWER voltages)	–	–	–
15	22kV (other than SWER)	–	–	–
16	6.6kV to 11kV (inclusive—other than SWER)	2,863	1,492	4,355
17	Low voltage (< 1kV)	2,221	2,491	4,712
18	Total circuit length (for supply)	5,427	4,132	9,559
19				
20	Dedicated street lighting circuit length (km)	12	202	215
21	Circuit in sensitive areas (conservation areas, iwi territory etc) (km)			2,111
22				
23	Overhead circuit length by terrain (at year end)			
24	Urban	2,367		44%
25	Rural	3,060		56%
26	Remote only	–		–
27	Rugged only	–		–
28	Remote and rugged	–		–
29	Unallocated overhead lines	–		–
30	Total overhead length	5,427		100%
31				
32				
33	Length of circuit within 10km of coastline or geothermal areas (where known)	9,533		99.72%
34				
35	Overhead circuit requiring vegetation management	5,427		100%

Company Name **Vector**
 For Year Ended **31 March 2020**

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 2020
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			Number of
11	Consumer types defined by EDB*		connections (ICPs)
12	Residential		7,650
13	Commercial		4,828
14			
15			
16	* include additional rows if needed		
17	Connections total		12,478
18			
19	Distributed generation		
20	Number of connections made in year	519	connections
21	Capacity of distributed generation installed in year	3.37	MVA
22	9e(ii): System Demand		
23			
24			Demand at time
25			of maximum
26			coincident
27			demand (MW)
28	Maximum coincident system demand		
29	GXP demand	1,731	
30	plus Distributed generation output at HV and above	14	
31	Maximum coincident system demand	1,745	
32	less Net transfers to (from) other EDBs at HV and above	-	
33	Demand on system for supply to consumers' connection points	1,745	
34			
35	Electricity volumes carried		Energy (GWh)
36	Electricity supplied from GXPs	8,612	
37	less Electricity exports to GXPs	-	
38	plus Electricity supplied from distributed generation	136	
39	less Net electricity supplied to (from) other EDBs	-	
40	Electricity entering system for supply to consumers' connection points	8,748	
41	less Total energy delivered to ICPs	8,427	
42	Electricity losses (loss ratio)	321	3.7%
43			
44	Load factor	0.57	
45			
46	9e(iii): Transformer Capacity		
47			(MVA)
48	Distribution transformer capacity (EDB owned)	4,594	
49	Distribution transformer capacity (Non-EDB owned, estimated)	531	
50	Total distribution transformer capacity	5,125	
51			
52	Zone substation transformer capacity	4,566	

Company Name	Vector
For Year Ended	31 March 2020
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			Number of
11	Consumer types defined by EDB*		connections (ICPs)
12	Residential		5,207
13	Commercial		2,364
14			
15			
16	* include additional rows if needed		
17	Connections total		7,571
18			
19	Distributed generation		
20	Number of connections made in year	219	connections
21	Capacity of distributed generation installed in year	1.76	MVA
22	9e(ii): System Demand		
23			
24			Demand at time
25	Maximum coincident system demand		of maximum
26	GXP demand	1,076	coincident
27	plus Distributed generation output at HV and above	4	demand (MW)
28	Maximum coincident system demand	1,080	
29	less Net transfers to (from) other EDBs at HV and above	-	
30	Demand on system for supply to consumers' connection points	1,080	
31	Electricity volumes carried		Energy (GWh)
32	Electricity supplied from GXPs	5,798	
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	5,848	
37	less Total energy delivered to ICPs	5,665	
38	Electricity losses (loss ratio)	183	3.1%
39			
40	Load factor	0.62	
41	9e(iii): Transformer Capacity		
42			(MVA)
43	Distribution transformer capacity (EDB owned)	2,900	
44	Distribution transformer capacity (Non-EDB owned, estimated)	475	
45	Total distribution transformer capacity	3,375	
46			
47	Zone substation transformer capacity	2,992	

Company Name	Vector
For Year Ended	31 March 2020
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			Number of
11	Consumer types defined by EDB*		connections (ICPs)
12	Residential		2,443
13	Commercial		2,464
14			
15			
16	* include additional rows if needed		
17	Connections total		4,907
18			
19	Distributed generation		
20	Number of connections made in year	300	connections
21	Capacity of distributed generation installed in year	1.61	MVA
22	9e(ii): System Demand		
23			
24			Demand at time
25	Maximum coincident system demand		of maximum
26	GXP demand	694	coincident
27	plus Distributed generation output at HV and above	10	demand (MW)
28	Maximum coincident system demand	704	
29	less Net transfers to (from) other EDBs at HV and above	-	
30	Demand on system for supply to consumers' connection points	704	
31	Electricity volumes carried		Energy (GWh)
32	Electricity supplied from GXPs	2,814	
33	less Electricity exports to GXPs	-	
34	plus Electricity supplied from distributed generation	86	
35	less Net electricity supplied to (from) other EDBs	-	
36	Electricity entering system for supply to consumers' connection points	2,900	
37	less Total energy delivered to ICPs	2,762	
38	Electricity losses (loss ratio)	138	4.8%
39			
40	Load factor	0.47	
41	9e(iii): Transformer Capacity		
42			(MVA)
43	Distribution transformer capacity (EDB owned)	1,694	
44	Distribution transformer capacity (Non-EDB owned, estimated)	394	
45	Total distribution transformer capacity	2,088	
46			
47	Zone substation transformer capacity	1,574	

Company Name	Vector
For Year Ended	31 March 2020
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	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)	1,949		
13	Class D (unplanned interruptions by Transpower)	1,773		
14	Class E (unplanned interruptions of EDB owned generation)	3		
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	3,727		
20	Interruption restoration			
21		≤3hrs	>3hrs	
22	Class C interruptions restored within	1,033	740	
23	SAIFI and SAIDI by class			
24		SAIFI	SAIDI	
25	Class A (planned interruptions by Transpower)	0.00	0.2	
26	Class B (planned interruptions on the network)	0.44	101.6	
27	Class C (unplanned interruptions on the network)	1.36	119.7	
28	Class D (unplanned interruptions by Transpower)	0.09	4.3	
29	Class E (unplanned interruptions of EDB owned generation)	0.00	0.0	
30	Class F (unplanned interruptions of generation owned by others)	0.00	0.0	
31	Class G (unplanned interruptions caused by another disclosing entity)	0.00	0.0	
32	Class H (planned interruptions caused by another disclosing entity)	0.00	0.0	
33	Class I (interruptions caused by parties not included above)	0.00	0.0	
34	Total	1.89	225.8	
35	Normalised SAIFI and SAIDI			
36		Normalised SAIFI	Normalised SAIDI	
37	Classes B & C (interruptions on the network) (under the 2015 DPP)	1.57	167.5	
38	Classes B & C (interruptions on the network) (under the ID Determination 2012)	1.78	219.8	
39	10(ii): Class C Interruptions and Duration by Cause			
40		SAIFI	SAIDI	
41	Cause			
42	Lightning	0.01	1.2	
43	Vegetation	0.20	21.8	
44	Adverse weather	0.01	1.3	
45	Adverse environment	0.00	0.1	
46	Third party interference	0.25	24.8	
47	Wildlife	0.12	8.4	
48	Human error	0.04	1.3	
49	Defective equipment	0.55	48.0	
50	Cause unknown	0.17	12.7	
51	10(iii): Class B Interruptions and Duration by Main Equipment Involved			
52		SAIFI	SAIDI	
53	Main equipment involved			
54	Subtransmission lines	0.00	0.0	
55	Subtransmission cables	0.00	0.0	
56	Subtransmission other	0.00	0.1	
57	Distribution lines (excluding LV)	0.14	42.4	
58	Distribution cables (excluding LV)	0.02	3.8	
59	Distribution other (excluding LV)	0.27	55.3	
60	10(iv): Class C Interruptions and Duration by Main Equipment Involved			
61		SAIFI	SAIDI	
62	Main equipment involved			
63	Subtransmission lines	0.16	6.3	
64	Subtransmission cables	0.01	0.0	
65	Subtransmission other	0.07	2.4	
66	Distribution lines (excluding LV)	0.62	60.0	
67	Distribution cables (excluding LV)	0.21	19.4	
68	Distribution other (excluding LV)	0.29	31.6	
69	10(v): Fault Rate			
70		Number of Faults	Circuit length (km)	Fault rate (faults per 100km)
71	Main equipment involved			
72	Subtransmission lines	31	395	7.85
73	Subtransmission cables	1	609	0.16
74	Subtransmission other	8		
75	Distribution lines (excluding LV)	1,095	3746	29.23
76	Distribution cables (excluding LV)	248	3753	6.61
77	Distribution other (excluding LV)	390		
78	Total	1,773		



Company Name	Vector
For Year Ended	31 March 2020
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	Number of interruptions	
10	Class A (planned interruptions by Transpower)	0	
11	Class B (planned interruptions on the network)	1175	
12	Class C (unplanned interruptions on the network)	570	
13	Class D (unplanned interruptions by Transpower)	1	
14	Class E (unplanned interruptions of EDB owned generation)	0	
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	1,746	
20			
21	Interruption restoration	≤3Hrs >3hrs	
22	Class C interruptions restored within	314	256
23			
24	SAIFI and SAIDI by class	SAIFI SAIDI	
25	Class A (planned interruptions by Transpower)	0.00	0.0
26	Class B (planned interruptions on the network)	0.44	81.5
27	Class C (unplanned interruptions on the network)	1.03	83.7
28	Class D (unplanned interruptions by Transpower)	0.01	0.3
29	Class E (unplanned interruptions of EDB owned generation)	0.00	0.0
30	Class F (unplanned interruptions of generation owned by others)	0.00	0.0
31	Class G (unplanned interruptions caused by another disclosing entity)	0.00	0.0
32	Class H (planned interruptions caused by another disclosing entity)	0.00	0.0
33	Class I (interruptions caused by parties not included above)	0.00	0.0
34	Total	1.48	165.5
35			
36	Normalised SAIFI and SAIDI	Normalised SAIFI Normalised SAIDI	
37	Classes B & C (interruptions on the network) (under the 2015 DPP)	1.20	116.4
38	Classes B & C (interruptions on the network) (under the ID Determination 2012)	1.45	163.8
39	10(ii): Class C Interruptions and Duration by Cause		
40			
41	Cause	SAIFI SAIDI	
42	Lightning	0.00	0.6
43	Vegetation	0.09	8.8
44	Adverse weather	0.01	0.6
45	Adverse environment	0.00	0.0
46	Third party interference	0.29	27.3
47	Wildlife	0.07	5.6
48	Human error	0.05	0.8
49	Defective equipment	0.47	35.3
50	Cause unknown	0.06	4.6
51			
52	10(iii): Class B Interruptions and Duration by Main Equipment Involved		
53			
54	Main equipment involved	SAIFI SAIDI	
55	Subtransmission lines	0.00	0.0
56	Subtransmission cables	0.00	0.0
57	Subtransmission other	0.00	0.1
58	Distribution lines (excluding LV)	0.14	33.4
59	Distribution cables (excluding LV)	0.02	3.6
60	Distribution other (excluding LV)	0.27	44.4
61	10(iv): Class C Interruptions and Duration by Main Equipment Involved		
62			
63	Main equipment involved	SAIFI SAIDI	
64	Subtransmission lines	0.02	0.7
65	Subtransmission cables	0.00	0.0
66	Subtransmission other	0.08	2.1
67	Distribution lines (excluding LV)	0.35	26.6
68	Distribution cables (excluding LV)	0.27	26.6
69	Distribution other (excluding LV)	0.31	27.7
70	10(v): Fault Rate		
71	Main equipment involved	Number of Faults	Circuit length (km)
72	Subtransmission lines	6	51
73	Subtransmission cables	0	460
74	Subtransmission other	3	
75	Distribution lines (excluding LV)	247	883
76	Distribution cables (excluding LV)	155	2762
77	Distribution other (excluding LV)	159	
78	Total	570	
			Fault rate (faults per 100km)
			11.79
			-
			27.97
			6.85



Company Name	Vector
For Year Ended	31 March 2020
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.

sch ref

8	10(i): Interruptions			
9	Interruptions by class	Number of interruptions		
10	Class A (planned interruptions by Transpower)	2		
11	Class B (planned interruptions on the network)	774		
12	Class C (unplanned interruptions on the network)	1,203		
13	Class D (unplanned interruptions by Transpower)	2		
14	Class E (unplanned interruptions of EDB owned generation)	0		
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	1,981		
20				
21	Interruption restoration	≤3Hrs	>3hrs	
22	Class C interruptions restored within	719	484	
23				
24	SAIFI and SAIDI by class	SAIFI	SAIDI	
25	Class A (planned interruptions by Transpower)	0.00	0.6	
26	Class B (planned interruptions on the network)	0.44	130.9	
27	Class C (unplanned interruptions on the network)	1.84	172.3	
28	Class D (unplanned interruptions by Transpower)	0.20	10.2	
29	Class E (unplanned interruptions of EDB owned generation)	0.00	0.0	
30	Class F (unplanned interruptions of generation owned by others)	0.00	0.0	
31	Class G (unplanned interruptions caused by another disclosing entity)	0.00	0.0	
32	Class H (planned interruptions caused by another disclosing entity)	0.00	0.0	
33	Class I (interruptions caused by parties not included above)	0.00	0.0	
34	Total	2.48	314.0	
35				
36	Normalised SAIFI and SAIDI	Normalised SAIFI	Normalised SAIDI	
37	Classes B & C (interruptions on the network) (under the 2015 DPP)	1.92	212.4	
38	Classes B & C (interruptions on the network) (under the ID Determination 2012)	2.27	302.0	
39				
40	10(ii): Class C Interruptions and Duration by Cause			
41	Cause	SAIFI	SAIDI	
42	Lightning	0.02	2.1	
43	Vegetation	0.37	40.9	
44	Adverse weather	0.01	2.4	
45	Adverse environment	0.00	0.2	
46	Third party interference	0.21	21.2	
47	Wildlife	0.20	12.4	
48	Human error	0.04	2.1	
49	Defective equipment	0.66	66.5	
50	Cause unknown	0.33	24.5	
51				
52	10(iii): Class B Interruptions and Duration by Main Equipment Involved			
53	Main equipment involved	SAIFI	SAIDI	
54	Subtransmission lines	0.00	0.0	
55	Subtransmission cables	0.00	0.0	
56	Subtransmission other	0.00	0.0	
57	Distribution lines (excluding LV)	0.14	55.5	
58	Distribution cables (excluding LV)	0.02	4.1	
59	Distribution other (excluding LV)	0.28	71.2	
60				
61	10(iv): Class C Interruptions and Duration by Main Equipment Involved			
62	Main equipment involved	SAIFI	SAIDI	
63	Subtransmission lines	0.36	14.6	
64	Subtransmission cables	0.01	0.0	
65	Subtransmission other	0.07	2.9	
66	Distribution lines (excluding LV)	1.02	108.7	
67	Distribution cables (excluding LV)	0.11	8.8	
68	Distribution other (excluding LV)	0.27	37.2	
69				
70	10(v): Fault Rate			
71	Main equipment involved	Number of Faults	Circuit length (km)	Fault rate (faults per 100km)
72	Subtransmission lines	25	344	7.27
73	Subtransmission cables	1	149	0.67
74	Subtransmission other	5		
75	Distribution lines (excluding LV)	848	2863	29.62
76	Distribution cables (excluding LV)	93	1490	6.24
77	Distribution other (excluding LV)	231		
78	Total	1,203		

