

EDB Information Disclosure Requirements
Information Templates
for
Schedules 1–10

Company Name

Vector

Disclosure Date

30 August 2023

Disclosure Year (year ended)

31 March 2023

Templates for Schedules 1–10 excluding 5f–5g
Template Version 5.1. Prepared 24 November 2022

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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

Changes Since Previous Version

Refer to the Targeted Information Disclosure Review - Electricity Distribution Businesses Final reasons paper - Tranche 1, for the details of changes made. A summary is provided in Chapter 2.

Company Name
For Year Ended

Vector
31 March 2023

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)	MVA of capacity from EDB-owned distribution transformers (\$/MVA)
Operational expenditure	17,246	242	82,989	7,497	29,396
Network	6,844	96	32,935	2,975	11,666
Non-network	10,402	146	50,055	4,521	17,730
Expenditure on assets	43,850	615	211,006	19,060	74,742
Network	41,223	578	198,364	17,918	70,264
Non-network	2,627	37	12,642	1,142	4,478

1(ii): Revenue metrics

	Revenue per GWh energy delivered to ICPs (\$/GWh)	Revenue per average no. of ICPs (\$/ICP)
Total consumer line charge revenue	72,419	1,015
Standard consumer line charge revenue	75,860	986
Non-standard consumer line charge revenue	28,446	602,414

1(iii): Service intensity measures

Demand density	90	Maximum coincident system demand per km of circuit length (for supply) (kW/km)
Volume density	435	Total energy delivered to ICPs per km of circuit length (for supply) (MWh/km)
Connection point density	31	Average number of ICPs per km of circuit length (for supply) (ICPs/km)
Energy intensity	14,017	Total energy delivered to ICPs per average number of ICPs (kWh/ICP)

1(iv): Composition of regulatory income

	(\$000)	% of revenue
Operational expenditure	145,942	24.35%
Pass-through and recoverable costs excluding financial incentives and wash-ups	205,188	34.24%
Total depreciation	145,856	24.34%
Total revaluations	241,014	40.21%
Regulatory tax allowance	26,890	4.49%
Regulatory profit/(loss) including financial incentives and wash-ups	313,288	52.27%
Total regulatory income	599,321	

1(v): Reliability

Interruption rate	19.59	Interruptions per 100 circuit km
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Company Name	Vector
For Year Ended	31 March 2023

SCHEDULE 2: REPORT ON RETURN ON INVESTMENT

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

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

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

sch ref

2(i): Return on Investment

ROI – comparable to a post tax WACC

Reflecting all revenue earned	
Excluding revenue earned from financial incentives	
Excluding revenue earned from financial incentives and wash-ups	

CY-2 31 Mar 21 %	CY-1 31 Mar 22 %	Current Year CY 31 Mar 23 %
3.34%	9.15%	8.37%
3.40%	9.10%	8.34%
3.40%	9.09%	8.33%

Mid-point estimate of post tax WACC

25th percentile estimate	
75th percentile estimate	

3.72%	3.52%	4.88%
3.04%	2.84%	4.20%
4.40%	4.20%	5.56%

ROI – comparable to a vanilla WACC

Reflecting all revenue earned	
Excluding revenue earned from financial incentives	
Excluding revenue earned from financial incentives and wash-ups	

3.67%	9.45%	8.88%
3.74%	9.40%	8.85%
3.74%	9.39%	8.84%

WACC rate used to set regulatory price path

4.57%	4.57%	4.57%
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Mid-point estimate of vanilla WACC

25th percentile estimate	
75th percentile estimate	

4.05%	3.82%	5.39%
3.37%	3.14%	4.71%
4.73%	4.50%	6.07%

2(ii): Information Supporting the ROI

(\$'000)

Total opening RAB value	3,641,987
plus Opening deferred tax	(131,379)

Opening RIV

3,510,608

Line charge revenue

612,823

Expenses cash outflow	351,130
add Assets commissioned	169,287
less Asset disposals	15,317
add Tax payments	12,520
less Other regulated income	(13,502)

Mid-year net cash outflows

531,121

Term credit spread differential allowance

3,171

Total closing RAB value	3,891,833
less Adjustment resulting from asset allocation	719
less Lost and found assets adjustment	–
plus Closing deferred tax	(145,749)

Closing RIV

3,745,365

ROI – comparable to a vanilla WACC

8.88%

Leverage (%)	42%
Cost of debt assumption (%)	4.38%
Corporate tax rate (%)	28%

ROI – comparable to a post tax WACC

8.37%

Company Name

Vector

For Year Ended

31 March 2023

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).

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sch ref

2(iii): Information Supporting the Monthly ROI

Opening RIV

N/A

	Line charge revenue	Expenses cash outflow	Assets commissioned	Asset disposals	Other regulated income	Monthly net cash outflows
April						—
May						—
June						—
July						—
August						—
September						—
October						—
November						—
December						—
January						—
February						—
March						—
Total	—	—	—	—	—	—

Tax payments

N/A

Term credit spread differential allowance

N/A

Closing RIV

N/A

Monthly ROI – comparable to a vanilla WACC

N/A

Monthly ROI – comparable to a post tax WACC

N/A

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

Year-end ROI – comparable to a vanilla WACC

8.67%

Year-end ROI – comparable to a post tax WACC

8.15%

* 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	(71)	
Other financial incentives	1,431	
Financial incentives		1,360
Impact of financial incentives on ROI		0.03%
Input methodology claw-back	—	
CPP application recoverable costs	—	
Catastrophic event allowance	—	
Capex wash-up adjustment	356	
Transmission asset wash-up adjustment	—	
2013–15 NPV wash-up allowance	—	
Reconsideration event allowance	—	
Other wash-ups	—	

Company Name

Vector

For Year Ended

31 March 2023

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).

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sch ref		
119	Wash-up costs	356
120		
121	Impact of wash-up costs on ROI	0.01%



Company Name **Vector**
For Year Ended **31 March 2023**

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

7	3(i): Regulatory Profit	(\$000)
8	Income	
9	Line charge revenue	612,823
10	plus Gains / (losses) on asset disposals	(13,502)
11	plus Other regulated income (other than gains / (losses) on asset disposals)	–
12		
13	Total regulatory income	599,321
14	Expenses	
15	less Operational expenditure	145,942
16		
17	less Pass-through and recoverable costs excluding financial incentives and wash-ups	205,188
18		
19	Operating surplus / (deficit)	248,191
20		
21	less Total depreciation	145,856
22		
23	plus Total revaluations	241,014
24		
25	Regulatory profit / (loss) before tax	343,349
26		
27	less Term credit spread differential allowance	3,171
28		
29	less Regulatory tax allowance	26,890
30		
31	Regulatory profit/(loss) including financial incentives and wash-ups	313,288
32		
33	3(ii): Pass-through and Recoverable Costs excluding Financial Incentives and Wash-Ups	(\$000)
34	Pass through costs	
35	Rates	18,135
36	Commerce Act levies	1,490
37	Industry levies	2,014
38	CPP specified pass through costs	
39	Recoverable costs excluding financial incentives and wash-ups	
40	Electricity lines service charge payable to Transpower	174,035
41	Transpower new investment contract charges	7,943
42	System operator services	–
43	Distributed generation allowance	1,033
44	Extended reserves allowance	–
45	Other recoverable costs excluding financial incentives and wash-ups	538
46	Pass-through and recoverable costs excluding financial incentives and wash-ups	205,188
47		

Company Name **Vector**
 For Year Ended **31 March 2023**

SCHEDULE 3: REPORT ON REGULATORY PROFIT

This schedule requires information on the calculation of regulatory profit for the EDB for the disclosure year. All EDBs must complete all sections and provide explanatory comment on their regulatory profit in Schedule 14 (Mandatory Explanatory Notes).

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

sch ref

		(\$000)	
		CY-1 31 Mar 22	CY 31 Mar 23
48	3(iii): Incremental Rolling Incentive Scheme		
49			
50			
51	Allowed controllable opex		
52	Actual controllable opex		
53			
54	Incremental change in year		
55			
		Previous years' incremental change	Previous years' incremental change adjusted for inflation
56			
57	CY-5 31 Mar 18		
58	CY-4 31 Mar 19		
59	CY-3 31 Mar 20		
60	CY-2 31 Mar 21		
61	CY-1 31 Mar 22		
62	Net incremental rolling incentive scheme		-
63			
64	Net recoverable costs allowed under incremental rolling incentive scheme		-
65	3(iv): Merger and Acquisition Expenditure		
70			(\$000)
66	Merger and acquisition expenditure		
67			
68	<i>Provide commentary on the benefits of merger and acquisition expenditure to the electricity distribution business, including required disclosures in accordance with section 2.7, in Schedule 14 (Mandatory Explanatory Notes)</i>		
69	3(v): Other Disclosures		
70			(\$000)
71	Self-insurance allowance		

Company Name **Vector**
For Year Ended **31 March 2023**

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

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

sch ref

		for year ended				
		RAB 31 Mar 19 (\$000)	RAB 31 Mar 20 (\$000)	RAB 31 Mar 21 (\$000)	RAB 31 Mar 22 (\$000)	RAB 31 Mar 23 (\$000)
7	4(i): Regulatory Asset Base Value (Rolled Forward)					
10	Total opening RAB value	2,951,716	3,075,471	3,258,721	3,385,969	3,641,987
12	less Total depreciation	108,729	116,767	125,888	133,873	145,856
14	plus Total revaluations	44,091	77,539	49,372	233,313	241,014
16	plus Assets commissioned	203,460	512,505	215,221	171,903	169,287
18	less Asset disposals	7,412	289,233	12,198	16,301	15,317
20	plus Lost and found assets adjustment	-	-	-	-	-
22	plus Adjustment resulting from asset allocation	(7,655)	(794)	741	976	719
24	Total closing RAB value	3,075,471	3,258,721	3,385,969	3,641,987	3,891,833
26	4(ii): Unallocated Regulatory Asset Base					
29	Total opening RAB value			Unallocated RAB * (\$000)	RAB (\$000)	
30	Add Adjustment to the opening RAB value			3,657,245		3,641,987
31	less Total depreciation			150,186		145,856
32	plus Total revaluations			242,044		241,014
33	plus Assets commissioned (other than below)			169,667		167,028
34	Assets acquired from a regulated supplier			-		-
35	Assets acquired from a related party			2,259		2,259
36	Assets commissioned			171,926		169,287
37	less Asset disposals (other than below)			15,483		15,317
38	Asset disposals to a regulated supplier					
39	Asset disposals to a related party					
40	Asset disposals			15,483		15,317
41	plus Lost and found assets adjustment			-		-
42	plus Adjustment resulting from asset allocation					719
43	Total closing RAB value			3,906,977		3,891,833

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

Company Name **Vector**
For Year Ended **31 March 2023**

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

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

CPI _t	1,218
CPI _{t-4}	1,142
Revaluation rate (%)	6.66%

		Unallocated RAB *		RAB	
		(\$000)	(\$000)	(\$000)	(\$000)
Add	Total opening RAB value	3,657,245		3,641,987	
	Adjustment to the opening RAB value	1,431			
	less Opening value of fully depreciated, disposed and lost assets	23,480		22,261	
Total opening RAB value subject to revaluation		3,635,196		3,619,726	
Total revaluations			242,044		241,014

4(iv): Roll Forward of Works Under Construction

Works under construction—preceding disclosure year

		Unallocated works under construction		Allocated works under construction	
			44,462		42,958
plus	Capital expenditure	210,038		207,179	
less	Assets commissioned	171,926		169,287	
plus	Adjustment resulting from asset allocation			—	

Works under construction - current disclosure year

	82,574		80,850
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Highest rate of capitalised finance applied	4.31%
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Company Name	Vector
For Year Ended	31 March 2023

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

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

sch ref

4(v): Regulatory Depreciation

Depreciation - standard
Depreciation - no standard life assets
Depreciation - modified life assets
Depreciation - alternative depreciation in accordance with CPP
Total depreciation

Unallocated RAB *		RAB	
(\$000)	(\$000)	(\$000)	(\$000)
93,635		93,337	
56,551		52,519	
	150,186		145,856

4(vi): Disclosure of Changes to Depreciation Profiles

(\$000 unless otherwise specified)

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

* 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
Total opening RAB value	76,670	374,082	353,047	457,029	847,718	313,571	315,884	844,965	59,021	3,641,987
<i>less</i> Total depreciation	2,077	11,575	13,700	14,568	27,484	10,848	12,546	30,747	22,312	145,856
<i>plus</i> Total revaluations	5,103	24,874	23,226	36,210	50,245	20,750	20,797	56,303	3,507	241,014
<i>plus</i> Assets commissioned	323	(512)	29,884	37,055	15,110	14,263	38,538	25,068	9,556	169,287
<i>less</i> Asset disposals	131	336	1,063	2,742	2,707	1,753	3,458	2,306	821	15,317
<i>plus</i> Lost and found assets adjustment	-	-	-	-	-	-	-	-	-	-
<i>plus</i> Adjustment resulting from asset allocation	(3)	-	-	(1,894)	1,740	-	-	-	876	719
<i>plus</i> Asset category transfers	38	(200)	(3,090)	89,841	(89,882)	(62)	98	3,256	-	(0)
Total closing RAB value	79,923	386,334	388,304	600,930	794,740	335,921	359,314	896,540	49,828	3,891,833
Asset Life										
Weighted average remaining asset life	40	46	32	47	34	34	29	40	6	(years)
Weighted average expected total asset life	60	63	44	59	57	50	36	47	12	(years)

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 70

sch ref

5a(i): Regulatory Tax Allowance		(\$000)	
	Regulatory profit / (loss) before tax		343,349
plus	Income not included in regulatory profit / (loss) before tax but taxable	–	*
	Expenditure or loss in regulatory profit / (loss) before tax but not deductible	6,442	*
	Amortisation of initial differences in asset values	31,571	
	Amortisation of revaluations	24,603	
			62,616
less	Total revaluations	241,014	
	Income included in regulatory profit / (loss) before tax but not taxable	–	*
	Discretionary discounts and customer rebates	–	
	Expenditure or loss deductible but not in regulatory profit / (loss) before tax	2,600	*
	Notional deductible interest	66,315	
			309,929
	Regulatory taxable income		96,036
less	Utilised tax losses	–	
	Regulatory net taxable income		96,036
	Corporate tax rate (%)	28%	
	Regulatory tax allowance		26,890
* 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)

	Opening unamortised initial differences in asset values	852,422	
less	Amortisation of initial differences in asset values	31,571	
plus	Adjustment for unamortised initial differences in assets acquired	–	
less	Adjustment for unamortised initial differences in assets disposed	9,930	
	Closing unamortised initial differences in asset values		810,921
	Opening weighted average remaining useful life of relevant assets (years)		27

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 7.0

sch ref

5a(iv): Amortisation of Revaluations

(\$000)

Opening sum of RAB values without revaluations

3,046,792

Adjusted depreciation

121,253

Total depreciation

145,856

Amortisation of revaluations

24,603

5a(v): Reconciliation of Tax Losses

(\$000)

Opening tax losses

—

plus Current period tax losses

—

less Utilised tax losses

—

Closing tax losses

—

5a(vi): Calculation of Deferred Tax Balance

(\$000)

Opening deferred tax

(131,379)

plus Tax effect of adjusted depreciation

33,951

less Tax effect of tax depreciation

40,956

plus Tax effect of other temporary differences*

1,183

less Tax effect of amortisation of initial differences in asset values

8,840

plus Deferred tax balance relating to assets acquired in the disclosure year

—

less Deferred tax balance relating to assets disposed in the disclosure year

(288)

plus Deferred tax cost allocation adjustment

4

Closing deferred tax

(145,749)

5a(vii): Disclosure of Temporary Differences

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).

5a(viii): Regulatory Tax Asset Base Roll-Forward

(\$000)

Opening sum of regulatory tax asset values

1,407,264

less Tax depreciation

146,272

plus Regulatory tax asset value of assets commissioned

193,525

less Regulatory tax asset value of asset disposals

7,846

plus Lost and found assets adjustment

—

plus Adjustment resulting from asset allocation

733

plus Other adjustments to the RAB tax value

—

Closing sum of regulatory tax asset values

1,447,404

Company Name
For Year Ended

Vector
31 March 2023

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)
Total regulatory income		—
Market value of asset disposals		—
Service interruptions and emergencies	—	
Vegetation management	—	
Routine and corrective maintenance and inspection	—	
Asset replacement and renewal (opex)	—	
Network opex		—
Business support	—	
System operations and network support	11,321	
Operational expenditure		11,321
Consumer connection	18	
System growth	1,884	
Asset replacement and renewal (capex)	115	
Asset relocations	—	
Quality of supply	—	
Legislative and regulatory	—	
Other reliability, safety and environment	242	
Expenditure on non-network assets		—
Expenditure on assets		2,259
Cost of financing		8
Value of capital contributions		—
Value of vested assets		—
Capital Expenditure		2,267
Total expenditure		13,588
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	220
Vector Communications Limited	Asset replacement and renewal (capex)	115
Vector Communications Limited	Consumer connection	18
Vector Communications Limited	Other reliability, safety and environment	22
Vector Communications Limited	System operations and network support	5,853
Vector Auckland Property Limited	System growth	201
Vector Northern Property Limited	System growth	1,683
Vector Technology Solutions Limited	System operations and network support	5,112
Advanced Metering Services Limited	System operations and network support	356
transactions		13,580

* include additional rows if needed

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

Related party	Relationship	Principal activities	Amount (\$000) excluded cost of financing
Vector Communications Limited	a wholly owned subsidiary of Vector limited	Network communications and SCADA services	6,008
PowerSmart NZ Limited	a wholly owned subsidiary of Vector limited	Energy solutions services	220
Advanced Metering Services Limited	a wholly owned subsidiary of Vector limited	Metering services	356
Vector Technology Solutions Limited	a wholly owned subsidiary of Vector limited	Digital and technology services	5,112
Vector Auckland Property Limited	a wholly owned subsidiary of Vector limited	Asset management services	201
Vector Northern Property Limited	a wholly owned subsidiary of Vector limited	Asset management services	1,683

Company Name
For Year Ended

Vector
31 March 2023

SCHEDULE 5c: REPORT ON TERM CREDIT SPREAD DIFFERENTIAL ALLOWANCE

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

sch ref

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

Issuing party	Issue date	Pricing date	Original tenor (in years)	Coupon rate (%)	Book value at issue date (NZD)	Book value at date of financial statements (NZD)	Term Credit Spread Difference	Debt issue cost readjustment
[IVCI]	16/9/2019	24/7/2019	3.0	BKBM + [IVCI]				
[IVCI]	16/9/2019	24/7/2019	3.0	BKBM + [IVCI]				
[IVCI]	16/9/2019	24/7/2019	3.0	BKBM + [IVCI]				
[IVCI]	16/9/2019	24/7/2019	3.0	BKBM + [IVCI]				
[IVCI]	16/4/2020	15/4/2020	3.0	BKBM + [IVCI]				
[IVCI]	13/1/2020	20/12/2019	5.0	BKBM + [IVCI]				
[IVCI]	2/2/2021	26/1/2021	3.0	BKBM + [IVCI]				
[IVCI]	2/2/2021	26/1/2021	3.0	BKBM + [IVCI]				
[IVCI]	2/2/2021	26/1/2021	3.0	BKBM + [IVCI]				
[IVCI]	2/2/2021	26/1/2021	3.0	BKBM + [IVCI]				
[IVCI]	2/2/2021	26/1/2021	3.0	BKBM + [IVCI]				
[IVCI]	1/7/2021	28/6/2021	5.0	BKBM + [IVCI]				
[IVCI]	1/7/2021	28/6/2021	5.0	BKBM + [IVCI]				
[IVCI]	30/7/2021	29/7/2021	3.0	BKBM + [IVCI]				
[IVCI]	30/7/2021	29/7/2021	3.0	BKBM + [IVCI]				
[IVCI]	30/7/2021	29/7/2021	3.0	BKBM + [IVCI]				
Subtotal of bank facilities- variable rate					636,000	634,457	[IVCI]	[IVCI]
Capital bonds – fixed rate	15/6/2022	14/6/2022	5.0	6.23	307,205	305,419	[IVCI]	[IVCI]
Wholesale Bonds- fixed rate Mar17	14/3/2017	3/3/2017	7.0	4.996	100,000		[IVCI]	[IVCI]
Wholesale Bonds- fixed rate Jun18	25/6/2018	21/6/2018	5.7	4.996	140,000		[IVCI]	[IVCI]
Wholesale Bonds- fixed rate Oct20	6/10/2020	1/10/2020	6.0	1.575	170,000		[IVCI]	[IVCI]
Subtotal of wholesale bonds- variable rate					410,000	411,248	[IVCI]	[IVCI]
Senior notes - 2020 USPP 12yr	12/3/2020	4/3/2020	12.0	[IVCI]	573,888		[IVCI]	[IVCI]
Senior notes - 2020 USPP 15 yr	12/3/2020	4/3/2020	15.0	[IVCI]	223,179		[IVCI]	[IVCI]
Senior notes - 2010 USPP 12yr	20/12/2010	22/9/2010	12.0	[IVCI]	250,516		[IVCI]	[IVCI]
Senior notes - 2017 USPP 10yr	25/10/2017	28/9/2017	10.0	[IVCI]	277,200		[IVCI]	[IVCI]
Senior notes - 2017 USPP 12yr	25/10/2017	28/9/2017	12.0	[IVCI]	138,600		[IVCI]	[IVCI]
Subtotal of senior notes - USD fixed rate					1,463,383	1,408,485	[IVCI]	[IVCI]
Unsubordinated bond May 19	27/5/2019	16/5/2019	6.0	3.5	250,000		[IVCI]	[IVCI]
Unsubordinated bond Nov 21	26/11/2021	18/11/2021	6.0	3.7	225,000		[IVCI]	[IVCI]
Unsubordinated bond					475,000	469,853	[IVCI]	[IVCI]
* include additional rows if needed						3,229,461	[IVCI]	[IVCI]

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

Gross term credit spread differential	6,473
Total book value of interest bearing debt	3,229,461
Leverage	42%
Average opening and closing RAB values	3,766,910
Attribution Rate (%)	49%
Term credit spread differential allowance	3,171

SCHEDULE 5d: REPORT ON COST ALLOCATIONS

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

sch ref

5d(i): Operating Cost Allocations

	Value allocated (\$000s)			
	Arm's length deduction	Electricity distribution services	Non-electricity distribution services	OVABAA allocation increase (\$000s)
Service interruptions and emergencies				
Directly attributable		21,262		
Not directly attributable	–	–	–	–
Total attributable to regulated service		21,262		
Vegetation management				
Directly attributable		6,046		
Not directly attributable	–	–	–	–
Total attributable to regulated service		6,046		
Routine and corrective maintenance and inspection				
Directly attributable		20,603		
Not directly attributable	–	–	–	–
Total attributable to regulated service		20,603		
Asset replacement and renewal				
Directly attributable		10,007		
Not directly attributable	–	–	–	–
Total attributable to regulated service		10,007		
System operations and network support				
Directly attributable		34,740		
Not directly attributable	–	7,174	885	8,059
Total attributable to regulated service		41,914		
Business support				
Directly attributable		2,756		
Not directly attributable	–	43,354	21,091	64,445
Total attributable to regulated service		46,110		
Operating costs directly attributable		95,414		
Operating costs not directly attributable	–	50,528	21,976	72,504
Operational expenditure		145,942		

5d(ii): Other Cost Allocations

	(\$000)
Pass through and recoverable costs	
Pass through costs	
Directly attributable	21,639
Not directly attributable	–
Total attributable to regulated service	21,639
Recoverable costs	
Directly attributable	183,549
Not directly attributable	–
Total attributable to regulated service	183,549

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

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

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

† include additional rows if needed

SCHEDULE 5e: REPORT ON ASSET ALLOCATIONS

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

sch ref

5e(i): Regulated Service Asset Values

	Value allocated (\$000s) Electricity distribution services
Subtransmission lines	
Directly attributable	77,983
Not directly attributable	1,939
Total attributable to regulated service	79,923
Subtransmission cables	
Directly attributable	386,334
Not directly attributable	–
Total attributable to regulated service	386,334
Zone substations	
Directly attributable	388,304
Not directly attributable	–
Total attributable to regulated service	388,304
Distribution and LV lines	
Directly attributable	515,008
Not directly attributable	85,922
Total attributable to regulated service	600,930
Distribution and LV cables	
Directly attributable	794,737
Not directly attributable	3
Total attributable to regulated service	794,740
Distribution substations and transformers	
Directly attributable	335,921
Not directly attributable	–
Total attributable to regulated service	335,921
Distribution switchgear	
Directly attributable	359,314
Not directly attributable	–
Total attributable to regulated service	359,314
Other network assets	
Directly attributable	893,121
Not directly attributable	3,419
Total attributable to regulated service	896,540
Non-network assets	
Directly attributable	24,152
Not directly attributable	25,676
Total attributable to regulated service	49,828
Regulated service asset value directly attributable	3,774,874
Regulated service asset value not directly attributable	116,959
Total closing RAB value	3,891,833

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

			(5000)	
			CY-1	Current Year (CY)
Change in asset value allocation 1				
Asset category		Original allocation		
Original allocator or line items		New allocation		
New allocator or line items		Difference	–	–
Rationale for change				
Change in asset value allocation 2				
Asset category		Original allocation		
Original allocator or line items		New allocation		
New allocator or line items		Difference	–	–
Rationale for change				
Change in asset value allocation 3				
Asset category		Original allocation		
Original allocator or line items		New allocation		
New allocator or line items		Difference	–	–
Rationale for change				

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

† include additional rows if needed

Company Name

Vector

For Year Ended

31 March 2023

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			129,468
9	System growth			45,442
10	Asset replacement and renewal			145,389
11	Asset relocations			25,548
12	Reliability, safety and environment:			
13	Quality of supply	26		
14	Legislative and regulatory	6		
15	Other reliability, safety and environment	2,956		
16	Total reliability, safety and environment			2,988
17	Expenditure on network assets			348,835
18	Expenditure on non-network assets			22,232
19				
20	Expenditure on assets			371,067
21	plus Cost of financing			(117)
22	less Value of capital contributions			163,771
23	plus Value of vested assets			—
24				
25	Capital expenditure			207,179
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			11,133
29	Research and development			8,835
30	Cybersecurity (Commission only)			—
31	6a(iii): Consumer Connection		(\$000)	(\$000)
32	Consumer types defined by EDB*			
33	Service connection	26,011		
34	Customer substations	35,805		
35	Business subdivisions	1,312		
36	Residential subdivisions	59,322		
37	Capacity change	6,573		
38	Street lighting	445		
39				
40				
41	* include additional rows if needed			
42	Consumer connection expenditure			129,468
43	less Capital contributions funding consumer connection expenditure	128,135		
44	Consumer connection less capital contributions			1,333
45				
46	6a(iv): System Growth and Asset Replacement and Renewal		System Growth	Asset Replacement and Renewal
47		(\$000)	(\$000)	
48	Subtransmission	11,271		3,751
49	Zone substations	15,896		28,568
50	Distribution and LV lines	2,652		56,503
51	Distribution and LV cables	6,845		15,045
52	Distribution substations and transformers	5,759		16,228
53	Distribution switchgear	579		15,378
54	Other network assets	2,440		9,916
55	System growth and asset replacement and renewal expenditure	45,442		145,389
56	less Capital contributions funding system growth and asset replacement and renewal	20,672		207
57	System growth and asset replacement and renewal less capital contributions	24,770		145,182
58				
59	6a(v): Asset Relocations		(\$000)	(\$000)
60	Project or programme*			
61				
62				
63				
64	* include additional rows if needed			
65	All other projects or programmes - asset relocations	25,548		
66	Asset relocations expenditure			25,548
67	less Capital contributions funding asset relocations	14,757		
68	Asset relocations less capital contributions			10,791

Company Name

Vector

For Year Ended

31 March 2023

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

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

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

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

sch ref

6a(vi): Quality of Supply

Project or programme*

(\$000)

(\$000)

* include additional rows if needed

All other projects programmes - quality of supply

26

Quality of supply expenditure

26

less Capital contributions funding quality of supply

Quality of supply less capital contributions

26

6a(vii): Legislative and Regulatory

Project or programme*

(\$000)

(\$000)

* include additional rows if needed

All other projects or programmes - legislative and regulatory

6

Legislative and regulatory expenditure

6

less Capital contributions funding legislative and regulatory

Legislative and regulatory less capital contributions

6

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

Project or programme*

(\$000)

(\$000)

* include additional rows if needed

All other projects or programmes - other reliability, safety and environment

2,956

Other reliability, safety and environment expenditure

2,956

less Capital contributions funding other reliability, safety and environment

Other reliability, safety and environment less capital contributions

2,956

6a(ix): Non-Network Assets**Routine expenditure**

Project or programme*

(\$000)

(\$000)

* include additional rows if needed

All other projects or programmes - routine expenditure

1,025

Routine expenditure

1,025

Atypical expenditure

Project or programme*

(\$000)

(\$000)

* include additional rows if needed

All other projects or programmes - atypical expenditure

21,207

Atypical expenditure

21,207

Expenditure on non-network assets

22,232

Company Name

Vector

For Year Ended

31 March 2023

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	21,262	
9	Vegetation management	6,046	
10	Routine and corrective maintenance and inspection	20,603	
11	Asset replacement and renewal	10,007	
12	Network opex		57,918
13	System operations and network support	41,914	
14	Business support	46,110	
15	Non-network opex		88,024
16			
17	Operational expenditure		145,942
18	6b(ii): Subcomponents of Operational Expenditure (where known)		
19	<i>EDBs' must disclose both a public version of this Schedule (excluding cybersecurity cost data) and a confidential version of this Schedule (including cybersecurity costs)</i>		
20	Energy efficiency and demand side management, reduction of energy losses		
21	Direct billing*		
22	Research and development		
23	Insurance		4,124
24	Cybersecurity (Commission only)		
25	* Direct billing expenditure by suppliers that directly bill the majority of their consumers		

Company Name

Vector

For Year Ended

31 March 2023

SCHEDULE 7: COMPARISON OF FORECASTS TO ACTUAL EXPENDITURE

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

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

sch ref

7(i): Revenue

Line charge revenue

Target (\$000) ¹	Actual (\$000)	% variance
-----------------------------	----------------	------------

625,305	612,823	(2%)
---------	---------	------

7(ii): Expenditure on Assets

Consumer connection

System growth

Asset replacement and renewal

Asset relocations

Reliability, safety and environment:

Quality of supply

Legislative and regulatory

Other reliability, safety and environment

Total reliability, safety and environment**Expenditure on network assets**

Expenditure on non-network assets

Expenditure on assets

Forecast (\$000) ²	Actual (\$000)	% variance
-------------------------------	----------------	------------

89,557	129,468	45%
--------	---------	-----

73,275	45,442	(38%)
--------	--------	-------

120,865	145,389	20%
---------	---------	-----

35,582	25,548	(28%)
--------	--------	-------

—	26	—
---	----	---

—	6	—
---	---	---

26,839	2,956	(89%)
--------	-------	-------

26,839	2,988	(89%)
--------	-------	-------

346,118	348,835	1%
---------	---------	----

67,197	22,232	(67%)
--------	--------	-------

413,315	371,067	(10%)
---------	---------	-------

7(iii): Operational Expenditure

Service interruptions and emergencies

Vegetation management

Routine and corrective maintenance and inspection

Asset replacement and renewal

Network opex

System operations and network support

Business support

Non-network opex**Operational expenditure**

14,475	21,262	47%
--------	--------	-----

5,491	6,046	10%
-------	-------	-----

21,138	20,603	(3%)
--------	--------	------

14,555	10,007	(31%)
--------	--------	-------

55,659	57,918	4%
--------	--------	----

46,322	41,914	(10%)
--------	--------	-------

40,890	46,110	13%
--------	--------	-----

87,212	88,024	1%
--------	--------	----

142,871	145,942	2%
---------	---------	----

7(iv): Subcomponents of Expenditure on Assets (where known)

Energy efficiency and demand side management, reduction of energy losses

Overhead to underground conversion

Research and development

—	—	—
---	---	---

8,214	11,133	36%
-------	--------	-----

—	8,835	—
---	-------	---

7(v): Subcomponents of Operational Expenditure (where known)

Energy efficiency and demand side management, reduction of energy losses

Direct billing

Research and development

Insurance

—	—	—
---	---	---

—	—	—
---	---	---

—	—	—
---	---	---

3,677	4,124	12%
-------	-------	-----

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)

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(i): Billed Quantities by Price Component					Unit charging basis (eg, days, kW of demand, kVA of capacity, etc.)	Billed quantities by price component									Add extra columns for additional billed quantities by price component as necessary
						FIXD	AICO	24UC	OPFK	PEAK	CAPY	DAMD	DEXA	PWRF	
						Day	kWh	kWh	kWh	kWh	kVA/Day	kVA/Day	kVA/Day	kVA/Day	
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	41,186	224,027		15,035,023	224,026,724	—	—	—	—	—	—	—	—
ARCS	residential	Standard	30,167	270,718		11,022,740	270,718,197	—	—	—	—	—	—	—	—
ARUL	residential	Standard	13,286	51,184		4,853,385	—	51,184,183	—	—	—	—	—	—	—
ARUS	residential	Standard	14,035	75,014		5,102,791	—	75,013,640	—	—	—	—	—	—	—
ARHLC	residential	Standard	119,459	607,318		43,619,532	—	—	433,755,329	183,562,399	—	—	—	—	—
ARHSC	residential	Standard	60,890	642,227		22,239,467	—	—	450,931,765	191,295,594	—	—	—	—	—
ARHL	residential	Standard	23,195	93,172		8,452,100	—	—	65,908,494	27,263,748	—	—	—	—	—
ARHS	residential	Standard	10,394	86,363		3,796,395	—	—	61,288,580	25,074,651	—	—	—	—	—
ABSN	general	Standard	25,290	412,583		9,213,382	—	412,582,907	—	—	—	—	—	—	—
ABSU	general	Standard	1,727	15,675		26,748,627	—	15,675,495	—	—	—	—	—	—	—
ABSH	general	Standard	11,996	272,983		4,368,005	—	—	194,451,717	78,531,505	—	—	—	—	—
ALVN	low voltage	Standard	2,337	231,806		852,949	—	231,806,190	—	—	125,873,414	—	—	—	11,569
ALVT	low voltage	Standard	1,484	539,182		—	—	539,182,326	—	—	145,376,907	45,280,068	—	—	3,637,410
ATXN	transformer	Standard	159	21,871		57,928	—	21,870,952	—	—	13,077,167	—	—	—	1,456
ATXT	transformer	Standard	1,008	1,127,475		—	—	1,127,475,303	—	—	268,494,710	89,118,597	—	—	3,604,270
ARVNH	high voltage	Standard	7	576		2,404	—	575,595	—	—	487,097	—	—	—	2,201
ARVHT	high voltage	Standard	159	432,268		—	—	432,267,989	—	—	70,573,679	32,190,867	21,431	—	1,219,667
WRCL	residential	Standard	29,534	165,579		10,722,048	165,578,723	—	—	—	—	—	—	—	—
WRCS	residential	Standard	24,869	238,628		9,031,741	238,627,597	—	—	—	—	—	—	—	—
WRUL	residential	Standard	8,051	40,920		2,926,972	—	40,919,764	—	—	—	—	—	—	—
WRUS	residential	Standard	12,191	81,426		4,413,687	—	81,425,710	—	—	—	—	—	—	—
WRHLC	residential	Standard	73,299	388,939		26,822,128	—	—	270,993,719	117,945,099	—	—	—	—	—
WRHSC	residential	Standard	45,494	477,681		16,666,291	—	—	334,799,569	142,881,461	—	—	—	—	—
WRHL	residential	Standard	16,342	83,151		5,072,132	—	—	58,472,265	24,678,451	—	—	—	—	—
WRHS	residential	Standard	11,205	109,651		4,106,948	—	—	77,445,959	32,205,102	—	—	—	—	—
WBSN	general	Standard	13,343	182,961		4,812,451	—	182,960,941	—	—	—	—	—	—	—
WBSU	general	Standard	737	9,714		17,185,963	—	9,713,641	—	—	—	—	—	—	—
WBSH	general	Standard	10,151	192,857		3,755,141	—	—	136,952,142	55,904,768	—	—	—	—	—
WLVN	low voltage	Standard	839	95,654		306,087	—	95,654,421	—	—	44,396,419	—	—	—	411
WLVH	low voltage	Standard	374	151,694		137,728	—	151,694,184	—	—	33,260,934	12,260,975	—	—	848,951
WTXN	transformer	Standard	81	16,444		29,696	—	16,444,471	—	—	6,908,785	—	—	—	—
WTXH	transformer	Standard	381	387,493		134,278	—	387,493,466	—	—	93,250,810	31,405,355	—	—	1,349,730
WHVNH	high voltage	Standard	—	—		—	—	—	—	—	—	—	—	—	—
WHVH	high voltage	Standard	26	120,861		9,675	—	120,861,344	—	—	17,436,324	8,750,659	49,751	—	254,536
NS	non-standard	Non-standard	29	614,140		10,585	—	—	—	—	—	—	—	—	22,299
Add extra rows for additional consumer groups or price category codes as necessary															
Standard consumer totals			603,678	7,848,095		262,397,694	898,951,241	3,994,802,522	2,074,999,539	879,342,738	819,146,246	219,006,521	71,182	10,930,201	
Non-standard consumer totals			29	614,140		10,585	—	—	—	—	—	—	—	22,299	
Total for all consumers			603,707	8,462,235		262,408,279	898,951,241	3,994,802,522	2,074,999,539	879,342,738	819,146,246	219,006,521	71,182	10,952,500	

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

Price component	Line charge revenues (\$000) by price component								
	FIXD	AICO	24UC	OPFK	PEAK	CAPY	DAMD	DEXA	PWRP
(eg. \$ per day, \$ per kWh, etc.)	Day	kWh	kWh	kWh	kWh	kVA/Day	kVA/Day	kVA/Day	kVA/Day

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	\$23,299	
ARCS	residential	Standard	\$24,935	
ARUL	residential	Standard	\$6,063	
ARUS	residential	Standard	\$9,669	
ARHLC	residential	Standard	\$63,729	
ARHSC	residential	Standard	\$54,267	
ARHL	residential	Standard	\$10,781	
ARHS	residential	Standard	\$8,649	
ABSN	general	Standard	\$32,083	
ABSU	general	Standard	\$2,570	
ABSH	general	Standard	\$18,749	
ALVN	low voltage	Standard	\$20,222	
ALVT	low voltage	Standard	\$28,562	
ATXN	transformer	Standard	\$1,899	
ATXT	transformer	Standard	\$53,549	
ARVN	high voltage	Standard	\$58	
ARVT	high voltage	Standard	\$17,953	
WRCL	residential	Standard	\$17,079	
WRCS	residential	Standard	\$21,185	
WRUL	residential	Standard	\$4,556	
WRUS	residential	Standard	\$9,215	
WRHLC	residential	Standard	\$40,451	
WRHSC	residential	Standard	\$40,489	
WRHL	residential	Standard	\$9,171	
WRHS	residential	Standard	\$10,206	
WBSN	general	Standard	\$15,017	
WBSU	general	Standard	\$1,639	
WBSH	general	Standard	\$14,013	
WLVN	low voltage	Standard	\$6,791	
WLVT	low voltage	Standard	\$7,454	
WTXN	transformer	Standard	\$993	
WTXH	transformer	Standard	\$16,227	
WHVN	high voltage	Standard	–	
WHVH	high voltage	Standard	\$3,839	
NS	non-standard	Non-standard	\$17,470	

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

Standard consumer totals	\$595,353	–
Non-standard consumer totals	\$17,470	–
Total for all consumers	\$612,823	–

Total distribution line charge revenue	Total transmission line charge revenue (if available)	Rate (eg, \$ per day, \$ per kWh, etc.)
\$17,365	\$5,937	
\$17,764	\$7,174	
\$4,391	\$1,674	
\$7,208	\$2,453	
\$49,511	\$14,226	
\$39,448	\$14,825	
\$8,121	\$2,661	
\$6,203	\$2,447	
\$18,596	\$13,491	
\$1,722	\$848	
\$11,085	\$7,665	
\$16,421	\$5,802	
\$21,057	\$7,507	
\$1,540	\$359	
\$38,777	\$14,776	
\$49	\$9	
\$12,618	\$5,337	
\$12,691	\$4,388	
\$14,860	\$6,324	
\$3,218	\$1,338	
\$6,552	\$2,663	
\$31,310	\$9,141	
\$29,416	\$11,073	
\$6,762	\$2,409	
\$7,063	\$3,143	
\$9,034	\$5,983	
\$1,094	\$545	
\$8,557	\$5,456	
\$5,222	\$1,569	
\$5,421	\$2,033	
\$723	\$270	
\$11,020	\$5,207	
–	–	
\$2,388	\$1,451	
\$10,296	\$7,136	

\$427,207	\$168,184
\$10,296	\$7,136
\$437,503	\$175,320

\$4,496	\$18,803	–	–	–	–	–	–	–	–
\$12,306	\$12,629	–	–	–	–	–	–	–	–
\$1,451	–	\$4,612	–	–	–	–	–	–	–
\$5,697	–	\$3,963	–	–	–	–	–	–	–
\$13,044	–	–	\$25,471	\$25,214	–	–	–	–	–
\$24,829	–	–	\$10,293	\$19,145	–	–	–	–	–
\$2,528	–	–	\$3,962	\$4,291	–	–	–	–	–
\$4,238	–	–	\$1,399	\$3,012	–	–	–	–	–
\$10,286	–	\$21,797	–	–	–	–	–	–	–
\$2,168	–	\$402	–	–	–	–	–	–	–
\$4,877	–	–	\$4,439	\$9,433	–	–	–	–	–
\$1,556	–	\$12,778	–	–	\$5,885	–	–	–	\$3
–	–	\$6,611	–	–	\$6,797	\$14,096	–	–	\$1,058
\$106	–	\$1,206	–	–	\$587	–	–	–	–
–	–	\$13,824	–	–	\$12,044	\$26,633	–	–	\$1,048
\$4	–	\$32	–	–	\$21	–	–	–	\$1
–	–	\$5,304	–	–	\$3,039	\$9,235	\$20	–	\$355
\$3,202	\$13,877	–	–	–	–	–	–	–	–
\$10,069	\$11,116	–	–	–	–	–	–	–	–
\$874	–	\$3,682	–	–	–	–	–	–	–
\$4,920	–	\$4,295	–	–	–	–	–	–	–
\$8,009	–	–	\$16,265	\$16,177	–	–	–	–	–
\$18,579	–	–	\$7,631	\$14,279	–	–	–	–	–
\$1,783	–	–	\$3,509	\$3,879	–	–	–	–	–
\$4,578	–	–	\$1,765	\$3,863	–	–	–	–	–
\$5,365	–	\$9,652	–	–	–	–	–	–	–
\$1,391	–	\$248	–	–	–	–	–	–	–
\$4,186	–	–	\$3,122	\$6,705	–	–	–	–	–
\$1,804	–	\$3,237	–	–	\$1,750	–	–	–	–
\$1,529	–	\$800	–	–	\$1,311	\$3,568	–	–	\$246
\$175	–	\$557	–	–	–	\$263	–	–	–
\$1,490	–	\$2,044	–	–	\$3,527	\$8,774	–	–	\$392
–	–	–	–	–	–	–	–	–	–
\$107	–	\$638	–	–	\$633	\$2,347	\$40	–	\$74
\$17,293	–	–	–	–	–	–	–	–	\$177

\$155,647	\$56,425	\$95,682	\$77,856	\$105,998	\$35,855	\$64,653	\$60	\$3,177
\$17,293	–	–	–	–	–	–	–	\$177
\$172,940	\$56,425	\$95,682	\$77,856	\$105,998	\$35,855	\$64,653	\$60	\$3,354

8(iii): Number of ICPs directly billed

Number of directly billed ICPs at year end

42

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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	8(i): Billed Quantities by Price Component									
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Billed quantities by price component									
Price component									
FIXD	AICD	24UC	OPFK	PEAK	CAPY	DIAMD	DEKA	PWRP	
Day	kWh	kWh	kWh	kWh	kVA/Day	kVA/Day	kVA/Day	kVA/Day	
15,035,023	224,026,724	–	–	–	–	–	–	–	–
11,022,740	270,718,197	–	–	–	–	–	–	–	–
4,853,385	–	51,184,183	–	–	–	–	–	–	–
5,102,791	–	75,013,640	–	–	–	–	–	–	–
43,619,532	–	–	423,755,329	183,562,359	–	–	–	–	–
22,239,467	–	–	450,931,765	191,295,594	–	–	–	–	–
8,452,100	–	–	65,908,494	27,263,748	–	–	–	–	–
3,796,395	–	–	61,288,580	25,074,651	–	–	–	–	–
9,213,382	–	412,582,907	–	–	–	–	–	–	–
26,748,627	–	15,675,495	–	–	–	–	–	–	–
4,388,095	–	194,451,717	78,531,505	–	–	–	–	–	–
852,949	–	231,806,190	–	–	125,873,414	–	–	–	11,569
–	–	539,182,326	–	–	145,376,907	45,280,068	–	–	3,637,410
57,928	–	21,870,952	–	–	13,077,167	–	–	–	1,456
–	–	1,127,475,303	–	–	268,494,710	89,118,597	–	–	3,604,270
2,404	–	575,595	–	–	497,097	–	–	–	2,201
–	–	432,267,989	–	–	70,573,679	32,190,867	21,431	–	1,219,667
9,125	–	–	–	–	–	–	–	–	11,479
155,364,728	494,744,921	2,907,634,580	1,196,335,884	505,727,857	623,892,974	166,589,533	21,431	–	8,476,574
9,125	–	–	–	–	–	–	–	–	11,479
155,373,853	494,744,921	2,907,634,580	1,196,335,884	505,727,857	623,892,974	166,589,533	21,431	–	8,488,052

Add extra rows for additional consumer groups or price category codes as necessary									
Standard consumer totals				356,761	5,104,443				
Non-standard consumer totals				25	513,092				
Total for all consumers				356,786	5,617,536				

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

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.

31	8(ii): Line Charge Revenues (\$000) by Price Component									
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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.)

Line charge revenues (\$000) by price component

FIXD	AICD	24UC	OPFK	PEAK	CAPY	DIAMD	DEKA	PWRP
Day	kWh	kWh	kWh	kWh	kVA/Day	kVA/Day	kVA/Day	kVA/Day
\$4,496	\$18,803	—	—	—	—	—	—	—
\$12,306	\$12,629	—	—	—	—	—	—	—
\$1,451	—	\$4,612	—	—	—	—	—	—
\$5,697	—	\$3,963	—	—	—	—	—	—
\$13,044	—	—	\$25,471	\$25,214	—	—	—	—
\$24,829	—	—	\$10,293	\$19,145	—	—	—	—
\$2,528	—	—	\$3,962	\$4,291	—	—	—	—
\$4,238	—	—	\$1,399	\$3,012	—	—	—	—
\$10,286	—	\$21,797	—	—	—	—	—	—
\$2,168	—	\$402	—	—	—	—	—	—
\$4,877	—	—	\$4,439	\$9,433	—	—	—	—
\$1,556	—	\$12,778	—	—	\$5,885	—	—	\$3
—	—	\$6,611	—	—	\$6,797	\$14,096	—	\$1,058
\$106	—	\$1,206	—	—	\$587	—	—	—
—	—	\$13,824	—	—	\$12,044	\$26,633	—	\$1,048
\$4	—	\$32	—	—	\$21	—	—	\$1
—	—	\$5,304	—	—	\$3,039	\$9,235	\$20	\$355
\$14,753	—	—	—	—	—	—	—	\$91
\$87,586	\$31,432	\$70,529	\$45,564	\$61,095	\$28,373	\$49,964	\$20	\$2,465
\$14,753	—	—	—	—	—	—	—	\$91
\$102,339	\$31,432	\$70,529	\$45,564	\$61,095	\$28,373	\$49,964	\$20	\$2,556

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

Standard consumer totals	\$377,028	—	\$271,837	\$105,191
Non-standard consumer totals	\$14,844	—	\$8,524	\$6,320
Total for all consumers	\$391,872	—	\$280,361	\$111,511

8(iii): Number of ICPs directly billed

Number of directly billed ICPs at year end

32

Check

OK

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

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 type (eg. residential, commercial etc.)	Standard or non-standard consumer group (specify)	Average no. of ICIs in disclosure year	Energy delivered to ICIs in disclosure year (MWh)
WRCL	residential	Standard	29,534	165,579
WRCS	residential	Standard	24,489	238,438
WRUL	residential	Standard	8,051	49,020
WRUS	residential	Standard	12,191	81,426
WRHLC	residential	Standard	73,299	388,939
WRHSC	residential	Standard	45,404	477,681
WRHL	residential	Standard	16,342	83,151
WRHS	residential	Standard	11,205	109,651
WRBN	general	Standard	13,343	182,961
WRSS	general	Standard	737	9,714
WRSH	general	Standard	10,163	192,857
WLVLN	low voltage	Standard	839	95,054
WLVLH	low voltage	Standard	374	151,694
WTKN	transformer	Standard	81	16,444
WTKH	transformer	Standard	381	387,493
WHYN	high voltage	Standard	–	–
WHVH	high voltage	Standard	26	120,861
h/s	non-standard	Non-standard	4	1,013,048
Add extra rows for additional consumer groups or price category codes as necessary				
Standard consumer totals			246,917	2,733,653
Non-standard consumer totals			4	101,048
Total for all consumers			246,921	2,844,700

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

Price component	Billed quantities by price component								
	FIXD	AICO	24UC	OPFK	PEAK	CAPY	DAMD	DEXA	PWRF
Days, kW of demand, (kVAr, etc.)	Day	kWh	kWh	kWh	kWh	kVA/Day	kVA/Day	kVA/Day	kVA/Day
	10,722,048	165,578,723	—	—	—	—	—	—	—
	9,031,741	238,627,597	—	—	—	—	—	—	—
	2,926,972	—	40,919,764	—	—	—	—	—	—
	4,413,687	—	81,425,710	—	—	—	—	—	—
	26,822,128	—	—	270,993,719	117,945,099	—	—	—	—
	16,666,291	—	—	334,799,569	142,881,461	—	—	—	—
	5,972,132	—	—	58,472,265	24,678,451	—	—	—	—
	4,106,948	—	—	77,445,959	32,205,102	—	—	—	—
	4,812,451	—	182,960,941	—	—	—	—	—	—
	17,185,963	—	9,713,641	—	—	—	—	—	—
	3,755,141	—	—	136,952,142	55,904,768	—	—	—	—
	306,087	—	95,654,421	—	—	44,396,419	—	—	411,390
	137,728	—	151,694,184	—	—	33,260,934	12,260,975	—	848,950,780
	29,696	—	16,444,471	—	—	6,908,785	—	—	—
	134,278	—	387,493,466	—	—	93,290,810	31,405,355	—	1,349,780,000
	—	—	—	—	—	—	—	—	—
	9,675	—	120,861,344	—	—	17,436,324	8,750,659	49,751	254,536,740
	1,460	—	—	—	—	—	—	—	10,820,000
	107,032,966	404,206,320	1,087,167,942	878,663,653	373,614,881	195,253,272	52,416,988	49,751	2,453,628
	1,460	—	—	—	—	—	—	—	10,820
	107,034,426	404,206,320	1,087,167,942	878,663,653	373,614,881	195,253,272	52,416,988	49,751	2,464,448

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

SCHEDULE 8: REPORT ON BILLED QUANTITIES AND LINE CHARGE REVENUES

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

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

Consumer group name or price category code	Consumer type or types (eg, residential, commercial etc.)	Standard or non-standard consumer group (specify)	Total line charge revenue in disclosure year	Notional revenue foregone from posted discounts (if applicable)
WRCL	residential	Standard	\$17,079	
WRCS	residential	Standard	\$21,185	
WRUL	residential	Standard	\$4,556	
WRUS	residential	Standard	\$9,215	
WRHLC	residential	Standard	\$40,451	
WRHSC	residential	Standard	\$40,489	
WRHL	residential	Standard	\$9,171	
WRHS	residential	Standard	\$10,206	
WBSN	general	Standard	\$15,017	
WBSU	general	Standard	\$1,639	
WBSH	general	Standard	\$14,013	
WLVN	low voltage	Standard	\$6,791	
WLVH	low voltage	Standard	\$7,454	
WTXN	transformer	Standard	\$993	
WTXH	transformer	Standard	\$16,227	
WHVN	high voltage	Standard	–	
WHVH	high voltage	Standard	\$3,839	
NS	non-standard	Non-standard	\$2,626	
Add extra rows for additional consumer groups or price category codes as necessary				
Standard consumer totals			\$218,325	–
Non-standard consumer totals			\$2,626	–
Total for all consumers			\$220,951	–

Total distribution line charge revenue	Total transmission line charge revenue (if available)
\$12,691	\$4,388
\$14,861	\$6,324
\$3,218	\$1,338
\$6,552	\$2,683
\$33,310	\$9,141
\$29,416	\$11,073
\$6,762	\$2,409
\$7,063	\$3,143
\$9,034	\$5,983
\$1,094	\$545
\$8,557	\$5,456
\$5,222	\$1,569
\$5,421	\$2,033
\$723	\$270
\$11,020	\$5,207
–	–
\$2,388	\$1,451
\$1,810	\$816
\$155,332	\$62,993
\$1,810	\$816
\$157,142	\$63,809

Price component

Line charge revenues (\$000) by price component

FIXD	AICO	24UC	OPFK	PEAK	CAPY	DAMD	DEXA	PWRF
Day	kWh	kWh	kWh	kWh	kVA/Day	kVA/Day	kVA/Day	kVA/Day
\$3,202	\$13,877	–	–	–	–	–	–	–
\$10,069	\$11,116	–	–	–	–	–	–	–
\$874	–	\$3,682	–	–	–	–	–	–
\$4,920	–	\$4,295	–	–	–	–	–	–
\$8,009	–	–	\$16,265	\$16,177	–	–	–	–
\$18,579	–	–	\$7,631	\$14,279	–	–	–	–
\$1,783	–	–	\$3,509	\$3,879	–	–	–	–
\$4,578	–	–	\$1,765	\$3,863	–	–	–	–
\$5,365	–	\$9,652	–	–	–	–	–	–
\$1,391	–	\$248	–	–	–	–	–	–
\$4,186	–	–	\$3,122	\$6,705	–	–	–	–
\$1,804	–	\$3,237	–	–	\$1,750	–	–	–
\$1,529	–	\$800	–	–	\$1,311	\$3,568	–	\$246
\$175	–	\$557	–	–	\$261	–	–	–
\$1,490	–	\$2,044	–	–	\$3,527	\$8,774	–	\$392
–	–	–	–	–	–	–	–	–
\$107	–	\$638	–	–	\$633	\$2,347	\$40	\$74
\$2,540	–	–	–	–	–	–	–	\$86
\$68,061	\$24,993	\$25,153	\$32,292	\$44,903	\$7,482	\$14,689	\$40	\$712
\$2,540	–	–	–	–	–	–	–	\$86
\$70,601	\$24,993	\$25,153	\$32,292	\$44,903	\$7,482	\$14,689	\$40	\$798

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

8(iii): Number of ICPs directly billed

Number of directly billed ICPs at year end

10

Check

OK

Company Name	Vector
For Year Ended	31 March 2023
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

					Units	Items at start of year (quantity)	Items at end of year (quantity)	Net change	Data accuracy (1-4)
8	Voltage	Asset category	Asset class						
9	All	Overhead Line	Concrete poles / steel structure		No.	67,668	67,954	286	4
10	All	Overhead Line	Wood poles		No.	1,999	1,961	(38)	3
11	All	Overhead Line	Other pole types		No.	682	840	158	3
12	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor		km	315	314	(1)	4
13	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor		km	27	27	—	4
14	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)		km	146	148	2	4
15	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)		km	2	2	—	4
16	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressurised)		km	0	0	—	N/A
17	HV	Subtransmission Cable	Subtransmission UG up to 66kV (PILC)		km	1	0	(1)	4
18	HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)		km	0	0	—	N/A
19	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Oil pressurised)		km	0	0	—	N/A
20	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Gas Pressurised)		km	0	0	—	N/A
21	HV	Subtransmission Cable	Subtransmission UG 110kV+ (PILC)		km	0	0	—	N/A
22	HV	Subtransmission Cable	Subtransmission submarine cable		km	1	1	—	4
23	HV	Zone substation Buildings	Zone substations up to 66kV		No.	53	53	—	4
24	HV	Zone substation Buildings	Zone substations 110kV+		No.	2	2	—	4
25	HV	Zone substation switchgear	50/66/110kV CB (Indoor)		No.	0	0	—	N/A
26	HV	Zone substation switchgear	50/66/110kV CB (Outdoor)		No.	2	2	—	4
27	HV	Zone substation switchgear	33kV Switch (Ground Mounted)		No.	0	0	—	N/A
28	HV	Zone substation switchgear	33kV Switch (Pole Mounted)		No.	174	157	(17)	4
29	HV	Zone substation switchgear	33kV RMU		No.	6	6	—	4
30	HV	Zone substation switchgear	22/33kV CB (Indoor)		No.	132	144	12	4
31	HV	Zone substation switchgear	22/33kV CB (Outdoor)		No.	119	107	(12)	4
32	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)		No.	529	540	11	4
33	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)		No.	0	0	—	N/A
34	HV	Zone Substation Transformer	Zone Substation Transformers		No.	92	94	2	4
35	HV	Distribution Line	Distribution OH Open Wire Conductor		km	2,842	2,842	(0)	4
36	HV	Distribution Line	Distribution OH Aerial Cable Conductor		km	0	0	—	N/A
37	HV	Distribution Line	SWER conductor		km	0	0	—	N/A
38	HV	Distribution Cable	Distribution UG XLPE or PVC		km	921	954	33	4
39	HV	Distribution Cable	Distribution UG PILC		km	606	599	(7)	4
40	HV	Distribution Cable	Distribution Submarine Cable		km	6	6	—	4
41	HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers		No.	251	255	4	4
42	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)		No.	85	111	26	4
43	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)		No.	8,917	9,108	191	3
44	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU		No.	834	819	(15)	3
45	HV	Distribution switchgear	3.3/6.6/11/22kV RMU		No.	1,601	1,693	92	4
46	HV	Distribution Transformer	Pole Mounted Transformer		No.	5,624	5,646	22	4
47	HV	Distribution Transformer	Ground Mounted Transformer		No.	7,694	7,802	108	4
48	HV	Distribution Transformer	Voltage regulators		No.	7	7	—	4
49	HV	Distribution Substations	Ground Mounted Substation Housing		No.	7,545	7,869	324	3
50	LV	LV Line	LV OH Conductor		km	2,214	2,222	8	3
51	LV	LV Cable	LV UG Cable		km	2,637	2,725	88	4
52	LV	LV Street lighting	LV OH/UG Streetlight circuit		km	209	232	23	3
53	LV	Connections	OH/UG consumer service connections		No.	244,139	249,465	5,326	4
54	All	Protection	Protection relays (electromechanical, solid state and numeric)		No.	2,031	2,203	172	3
55	All	SCADA and communications	SCADA and communications equipment operating as a single system		Lot	184	197	13	3
56	All	Capacitor Banks	Capacitors including controls		No	59	57	(2)	4
57	All	Load Control	Centralised plant		Lot	11	11	—	4
58	All	Load Control	Relays		No	0	0	—	N/A
59	All	Civils	Cable Tunnels		km	0	0	—	N/A

Company Name
For Year Ended
Network / Sub-network Name

Vector
31 March 2023
Combined

SCHEDULE 9b: ASSET AGE PROFILE

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

a			Disclosure Year (year ended)		31 March 2023		Number of assets at disclosure year end by installation date																																				No. with age unknown		Items at end of year		No. with default dates		Data accuracy (1-4)																			
			pre-1940	1940-1949	1950-1959	1960-1969	1970-1979	1980-1989	1990-1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025																																	
9	Voltage	Asset category	Asset class	Units																																																																
10	All	Overhead Line	Concrete poles / steel structure	No.	8	256	4,519	13,931	14,533	14,747	9,402	593	735	899	737	302	1,030	1,865	2,094	2,105	2,098	1,616	1,149	1,876	1,916	1,754	1,835	2,689	3,440	4,762	3,993	4,138	3,240	2,880	2,474	12,116	118,152	3																														
11	All	Overhead Line	Wood poles	No.	5	8	104	313	423	544	723	152	47	66	71	24	85	115	112	82	60	108	14	26	33	24	15	9	4	39	22	44	86	31	25	1,841	5,213	2																														
12	All	Overhead Line	Other pole types	No.	1	—	—	—	—	—	12	86	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—																													
13	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	2	2	24	72	154	26	1	—	—	—	—	1	1	6	2	1	16	1	7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—																														
14	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km	—	—	7	12	7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—																														
15	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km	0	16	7	55	56	1	21	6	1	5	7	33	7	25	20	4	10	7	3	16	16	13	4	3	5	25	8	8	0	0	380	4																																
16	HV	Subtransmission Cable	Subtransmission UG up to 66kV (OH pressurised)	km	—	—	39	75	24	7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—																														
17	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressurised)	km	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—																														
18	HV	Subtransmission Cable	Subtransmission UG up to 66kV (PILC)	km	3	3	0	13	2	1	0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—																														
19	HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	km	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—																														
20	HV	Subtransmission Cable	Subtransmission UG 110kV+ (OH pressurised)	km	—	—	11	5	0	0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—																														
21	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Gas Pressurised)	km	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—																														
22	HV	Subtransmission Cable	Subtransmission UG 110kV+ (PILC)	km	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—																														
23	HV	Subtransmission Cable	Subtransmission submarine cable	km	—	—	0	—	11	0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—																														
24	HV	Zone substation Buildings	Zone substations up to 66kV	No.	1	2	22	24	17	9	3	1	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—																															
25	HV	Zone substation Buildings	Zone substations 110kV+	No.	—	—	—	2	4	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—																															
26	HV	Zone substation switchgear	50/66/110kV CB (Indoor)	No.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—																															
27	HV	Zone substation switchgear	50/66/110kV CB (Outdoor)	No.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—																															
28	HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—																															
29	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.	—	—	31	65	31	8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—																															
30	HV	Zone substation switchgear	33kV RMU	No.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—																															
31	HV	Zone substation switchgear	22/33kV CB (Indoor)	No.	—	—	—	13	22	9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—																															
32	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.	—	—	5	17	12	26	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—																															
33	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.	—	—	7	129	134	218	99	11	6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—																															
34	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—																															
35	HV	Zone Substation Transformers	Zone Substation Transformers	No.	—	—	2	37	48	26	27	4	1	2	1	1	1	1	2	3	6	5	8	5	1	2	7	4	4	—	—	—	—	—	—	—	—																															
36	HV	Distribution Line	Distribution OH Open Wire Conductor	km	0	4	137	523	965	1,342	265	94	10	6	11	3	20	51	81	30	31	11	7	5	7	7	8	5	7	4	6	16	8	6	9	17																																
37	HV	Distribution Line	Distribution OH Aerial Cable Conductor	km	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—																															
38	HV	Distribution Line	SWER conductor	km	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—																															
39	HV	Distribution Cable	Distribution UG XLPE or PVC	km	1	0	0	2	18	34	154	33	37	29	20	7	100	133	110	64	104	61	68	41	40	64	62	67	65	76	63	58	65	70	71	4	1,744																															
40	HV	Distribution Cable	Distribution UG PILC	km	12	4	24	189	612	684	509	34	12	4	1	0	17	13	27	13	8	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	—																															
41	HV	Distribution Cable	Distribution Submarine Cable	km	6	0	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—																															
42	HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalizers	No.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—																															
43	HV	Distribution switchgear	3.3/6.6/11/22kV CB (indoor)	No.	—	—	2	4	6	4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—																															
44	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	2	8	178	821	1,481	1,217	225	146	118	127	88	198	243	254	248	275	145	97	153	250	309	386	468	560	444	494	620	593	601	548	629	11,880																																
45	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	5	1	262	717	603	403	67	63	61	55	56	75	74	49	26	44	39	38	40	52	40	21	24	20	15	18	31	19	17	30	40	3,000																																
46	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.	4	—	3	173	662	1,035	562	79	60	74	133	118	136	89	61	48	44	82	104	108	168	138	174	151	219	296	319	169	268	347	318	12	6,461																															
47	HV	Distribution Transformer	Pole Mounted Transformer	No.	8	24	107	264	305	1,091	1,112	234	100	151	125	36	208	203	237	285	205	111	200	159	180	194	176	202	249	260	237	144	142	143	1	7,196																																
48	HV	Distribution Transformer	Ground Mounted Transformer	No.	6	28	115	665	1,703	2,075	2,099	240	259	233	197	26	167	439	529	331	312	268	110	251	318	174	144	299	367	461	451	473	367	454	550	1	15,128																															
49	HV	Distribution Transformer	Voltage regulators	No.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—																															
50	HV	Distribution Substations	Ground Mounted Substation Housing	No.	13	60	177	1,308	3,951	3,458	2,079	184	205	92	72	23	379	89	137	77	76	54	47	67	108	186	186	194	194	185	225	289	198	205	283	330	14,369																															
51	LV	LV Line	LV OH Conductor	km	1	3	110	520</																																																												

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

Village	Asset category	Asset class	Units	Year of construction per year of construction class																													No. with age	Items at end of default	No. with data accuracy																																																																																																																																																																																																																																																									
				pre-1940	1940-1949	1950-1959	1960-1969	1970-1979	1980-1989	1990-1999	2000-2001	2002-2003	2004-2005	2006-2007	2008-2009	2010-2011	2012-2013	2014-2015	2016-2017	2018-2019	2020-2021	2022-2023	2024-2025	2026-2027	2028-2029	2030-2031	2032-2033	2034-2035	2036-2037	2038-2039	2040-2041	2042-2043				2044-2045	2046-2047	2048-2049	2050-2051	2052-2053	2054-2055	2056-2057	2058-2059	2060-2061	2062-2063	2064-2065	2066-2067	2068-2069	2070-2071	2072-2073	2074-2075	2076-2077	2078-2079	2080-2081	2082-2083	2084-2085	2086-2087	2088-2089	2090-2091	2092-2093	2094-2095	2096-2097	2098-2099	2100-2101	2102-2103	2104-2105	2106-2107	2108-2109	2110-2111	2112-2113	2114-2115	2116-2117	2118-2119	2120-2121	2122-2123	2124-2125	2126-2127	2128-2129	2130-2131	2132-2133	2134-2135	2136-2137	2138-2139	2140-2141	2142-2143	2144-2145	2146-2147	2148-2149	2150-2151	2152-2153	2154-2155	2156-2157	2158-2159	2160-2161	2162-2163	2164-2165	2166-2167	2168-2169	2170-2171	2172-2173	2174-2175	2176-2177	2178-2179	2180-2181	2182-2183	2184-2185	2186-2187	2188-2189	2190-2191	2192-2193	2194-2195	2196-2197	2198-2199	2200-2201	2202-2203	2204-2205	2206-2207	2208-2209	2210-2211	2212-2213	2214-2215	2216-2217	2218-2219	2220-2221	2222-2223	2224-2225	2226-2227	2228-2229	2230-2231	2232-2233	2234-2235	2236-2237	2238-2239	2240-2241	2242-2243	2244-2245	2246-2247	2248-2249	2250-2251	2252-2253	2254-2255	2256-2257	2258-2259	2260-2261	2262-2263	2264-2265	2266-2267	2268-2269	2270-2271	2272-2273	2274-2275	2276-2277	2278-2279	2280-2281	2282-2283	2284-2285	2286-2287	2288-2289	2290-2291	2292-2293	2294-2295	2296-2297	2298-2299	2300-2301	2302-2303	2304-2305	2306-2307	2308-2309	2310-2311	2312-2313	2314-2315	2316-2317	2318-2319	2320-2321	2322-2323	2324-2325	2326-2327	2328-2329	2330-2331	2332-2333	2334-2335	2336-2337	2338-2339	2340-2341	2342-2343	2344-2345	2346-2347	2348-2349	2350-2351	2352-2353	2354-2355	2356-2357	2358-2359	2360-2361	2362-2363	2364-2365	2366-2367	2368-2369	2370-2371	2372-2373	2374-2375	2376-2377	2378-2379	2380-2381	2382-2383	2384-2385	2386-2387	2388-2389	2390-2391	2392-2393	2394-2395	2396-2397	2398-2399	2400-2401	2402-2403	2404-2405	2406-2407	2408-2409	2410-2411	2412-2413	2414-2415	2416-2417	2418-2419	2420-2421	2422-2423	2424-2425	2426-2427	2428-2429	2430-2431	2432-2433	2434-2435	2436-2437	2438-2439	2440-2441	2442-2443	2444-2445	2446-2447	2448-2449	2450-2451	2452-2453	2454-2455	2456-2457	2458-2459	2460-2461	2462-2463	2464-2465	2466-2467	2468-2469	2470-2471	2472-2473	2474-2475	2476-2477	2478-2479	2480-2481	2482-2483	2484-2485	2486-2487	2488-2489	2490-2491	2492-2493	2494-2495	2496-2497	2498-2499	2500-2501	2502-2503	2504-2505	2506-2507	2508-2509	2510-2511	2512-2513	2514-2515	2516-2517	2518-2519	2520-2521	2522-2523	2524-2525	2526-2527	2528-2529	2530-2531	2532-2533	2534-2535	2536-2537	2538-2539	2540-2541

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

#	Disclosure Year (year ended)		15 March 2023		Number of assets at disclosure year end by installation date																																															No. with unknown	Items at end of default period	No. with default days	Data accuracy																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
#	Voltage	Asset category	Asset class	Units	Pre-1940	1940-1949	1950-1959	1960-1969	1970-1979	1980-1989	1990-1999	2000-2009	2010-2019	2020-2029	2030-2039	2040-2049	2050-2059	2060-2069	2070-2079	2080-2089	2090-2099	2100-2109	2110-2119	2120-2129	2130-2139	2140-2149	2150-2159	2160-2169	2170-2179	2180-2189	2190-2199	2200-2209	2210-2219	2220-2229	2230-2239	2240-2249	2250-2259	2260-2269	2270-2279	2280-2289	2290-2299	2300-2309	2310-2319	2320-2329	2330-2339	2340-2349	2350-2359	2360-2369	2370-2379	2380-2389	2390-2399	2400-2409	2410-2419	2420-2429	2430-2439	2440-2449	2450-2459	2460-2469	2470-2479	2480-2489	2490-2499	2500-2509	2510-2519	2520-2529	2530-2539	2540-2549	2550-2559	2560-2569	2570-2579	2580-2589	2590-2599	2600-2609	2610-2619	2620-2629	2630-2639	2640-2649	2650-2659	2660-2669	2670-2679	2680-2689	2690-2699	2700-2709	2710-2719	2720-2729	2730-2739	2740-2749	2750-2759	2760-2769	2770-2779	2780-2789	2790-2799	2800-2809	2810-2819	2820-2829	2830-2839	2840-2849	2850-2859	2860-2869	2870-2879	2880-2889	2890-2899	2900-2909	2910-2919	2920-2929	2930-2939	2940-2949	2950-2959	2960-2969	2970-2979	2980-2989	2990-2999	3000-3009	3010-3019	3020-3029	3030-3039	3040-3049	3050-3059	3060-3069	3070-3079	3080-3089	3090-3099	3100-3109	3110-3119	3120-3129	3130-3139	3140-3149	3150-3159	3160-3169	3170-3179	3180-3189	3190-3199	3200-3209	3210-3219	3220-3229	3230-3239	3240-3249	3250-3259	3260-3269	3270-3279	3280-3289	3290-3299	3300-3309	3310-3319	3320-3329	3330-3339	3340-3349	3350-3359	3360-3369	3370-3379	3380-3389	3390-3399	3400-3409	3410-3419	3420-3429	3430-3439	3440-3449	3450-3459	3460-3469	3470-3479	3480-3489	3490-3499	3500-3509	3510-3519	3520-3529	3530-3539	3540-3549	3550-3559	3560-3569	3570-3579	3580-3589	3590-3599	3600-3609	3610-3619	3620-3629	3630-3639	3640-3649	3650-3659	3660-3669	3670-3679	3680-3689	3690-3699	3700-3709	3710-3719	3720-3729	3730-3739	3740-3749	3750-3759	3760-3769	3770-3779	3780-3789	3790-3799	3800-3809	3810-3819	3820-3829	3830-3839	3840-3849	3850-3859	3860-3869	3870-3879	3880-3889	3890-3899	3900-3909	3910-3919	3920-3929	3930-3939	3940-3949	3950-3959	3960-3969	3970-3979	3980-3989	3990-3999	4000-4009	4010-4019	4020-4029	4030-4039	4040-4049	4050-4059	4060-4069	4070-4079	4080-4089	4090-4099	4100-4109	4110-4119	4120-4129	4130-4139	4140-4149	4150-4159	4160-4169	4170-4179	4180-4189	4190-4199	4200-4209	4210-4219	4220-4229	4230-4239	4240-4249	4250-4259	4260-4269	4270-4279	4280-4289	4290-4299	4300-4309	4310-4319	4320-4329	4330-4339	4340-4349	4350-4359	4360-4369	4370-4379	4380-4389	4390-4399	4400-4409	4410-4419	4420-4429	4430-4439	4440-4449	4450-4459	4460-4469	4470-4479	4480-4489	4490-4499	4500-4509	4510-4519	4520-4529	4530-4539	4540-4549	4550-4559	4560-4569	4570-4579	4580-4589	4590-4599	4600-4609	4610-4619	4620-4629	4630-4639	4640-4649	4650-4659	4660-4669	4670-4679	4680-4689	4690-4699	4700-4709	4710-4719	4720-4729	4730-4739	4740-4749	4750-4759	4760-4769	4770-4779	4780-4789	4790-4799	4800-4809	4810-4819	4820-4829	4830-4839	4840-4849	4850-4859	4860-4869	4870-4879	4880-4889	4890-4899	4900-4909	4910-4919	4920-4929	4930-4939	4940-4949	4950-4959	4960-4969	4970-4979	4980-4989	4990-4999	5000-5009	5010-5019	5020-5029	5030-5039	5040-5049	5050-5059	5060-5069	5070-5079	5080-5089	5090-5099	5100-5109	5110-5119	5120-5129	5130-5139	5140-5149	5150-5159	5160-5169	5170-5179	5180-5189	5190-5199	5200-5209	5210-5219	5220-5229	5230-5239	5240-5249	5250-5259	5260-5269	5270-5279	5280-5289	5290-5299	5300-5309	5310-5319	5320-5329	5330-5339	5340-5349	5350-5359	5360-5369	5370-5379	5380-5389	5390-5399	5400-5409	5410-5419	5420-5429	5430-5439	5440-5449	5450-5459	5460-5469	5470-5479	5480-5489	5490-5499	5500-5509	5510-5519	5520-5529	5530-5539	5540-5549	5550-5559	5560-5569	5570-5579	5580-5589	5590-5599	5600-5609	5610-5619	5620-5629	5630-5639	5640-5649	5650-5659	5660-5669	5670-5679	5680-5689	5690-5699	5700-5709	5710-5719	5720-5729	5730-5739	5740-5749	5750-5759	5760-5769	5770-5779	5780-5789	5790-5799	5800-5809	5810-5819	5820-5829	5830-5839	5840-5849	5850-5859	5860-5869	5870-5879	5880-5889	5890-5899	5900-5909	5910-5919	5920-5929	5930-5939	5940-5949	5950-5959	5960-5969	5970-5979	5980-5989	5990-5999	6000-6009	6010-6019	6020-6029	6030-6039	6040-6049	6050-6059	6060-6069	6070-6079	6080-6089	6090-6099	6100-6109	6110-6119	6120-6129	6130-6139	6140-6149	6150-6159	6160-6169	6170-6179	6180-6189	6190-6199	6200-6209	6210-6219	6220-6229	6230-6239	6240-6249	6250-6259	6260-6269	6270-6279	6280-6289	6290-6299	6300-6309	6310-6319	6320-6329	6330-6339	6340-6349	6350-6359	6360-6369	6370-6379	6380-6389	6390-6399	6400-6409	6410-6419	6420-6429	6430-6439	6440-6449	6450-6459	6460-6469	6470-6479	6480-6489	6490-6499	6500-6509	6510-6519	6520-6529	6530-6539	6540-6549	6550-6559	6560-6569	6570-6579	6580-6589	6590-6599	6600-6609	6610-6619	6620-6629	6630-6639	6640-6649	6650-6659	6660-6669	6670-6679	6680-6689	6690-6699	6700-6709	6710-6719	6720-6729	6730-6739	6740-6749	6750-6759	6760-6769	6770-6779	6780-6789	6790-6799	6800-6809	6810-6819	6820-6829	6830-6839	6840-6849	6850-6859	6860-6869	6870-6879	6880-6889	6890-6899	6900-6909	6910-6919	6920-6929	6930-6939	6940-6949	6950-6959	6960-6969	6970-6979	6980-6989	6990-6999	7000-7009	7010-7019	7020-7029	7030-7039	7040-7049	7050-7059	7060-7069	7070-7079	7080-7089	7090-7099	7100-7109	7110-7119	7120-7129	7130-7139	7140-7149	7150-7159	7160-7169	7170-7179	7180-7189	7190-7199	7200-7209	7210-7219	7220-7229	7230-7239	7240-7249	7250-7259	7260-7269	7270-7279	7280-7289	7290-7299	7300-7309	7310-7319	7320-7329	7330-7339	7340-7349	7350-7359	7360-7369	7370-7379	7380-7389	7390-7399	7400-7409	7410-7419	7420-7429	7430-7439	7440-7449	7450-7459	7460-7469	7470-7479	7480-7489	7490-7499	7500-7509	7510-7519	7520-7529	7530-7539	7540-7549	7550-7559	7560-7569	7570-7579	7580-7589	7590-7599	7600-7609	7610-7619	7620-7629	7630-7639	7640-7649	7650-7659	7660-7669	7670-7679	7680-7689	7690-7699	7700-7709	7710-7719	7720-7729	7730-7739	7740-7749	7750-7759	7760-7769	7770-7779	7780-7789	7790-7799	7800-7809	7810-7819	7820-7829	7830-7839	7840-7849	7850-7859	7860-7869	7870-7879	7880-7889	7890-7899	7900-7909	7910-7919	7920-7929	7930-7939	7940-7949	7950-7959	7960-7969	7970-7979	7980-7989	7990-7999	8000-8009	8010-8019	8020-8029	8030-8039	8040-8049	8050-8059	8060-8069	8070-8079	8080-8089	8090-8099	8100-8109	8110-8119	8120-8129	8130-8139	8140-8149	8150-8159	8160-8169	8170-8179	8180-8189	8190-8199	8200-8209	8210-8219	8220-8229	8230-8239	8240-8249	8250-8259	8260-8269	8270-8279	8280-8289	8290-8299	8300-8309	8310-8319	8320-8329	8330-8339	8340-8349	8350-8359	8360-8369	8370-8379	8380-8389	8390-8399	8400-8409	8410-8419	8420-8429	8430-8439	8440-8449	8450-8459	8460-8469	8470-8479	8480-8489	8490-8499	8500-8509	8510-8519	8520-8529	8530-8539	8540-8549	8550-8559	8560-8569	8570-8579	8580-8589	8590-8599	8600-8609	8610-8619	8620-8629	8630-8639	8640-8649	8650-8659	8660-8669	8670-8679	8680-8689	8690-8699	8700-8709	8710-8719	8720-8729	8730-8739	8740-8749	8750-8759	8760-8769	8770-8779	8780-8789	8790-8799	8800-8809	8810-8819	8820-8829	8830-8839	8840-8849	8850-8859	8860-8869	8870-8879	8880-8889	8890-8899	8900-8909	8910-8919	8920-8929	8930-8939	8940-8949	8950-8959	8960-8969	8970-8979	8980-8989	8990-8999	9000-9009	9010-9019	9020-9029	9030-9039	9040-9049	9050-9059	9060-9069	9070-9079	9080-9089	9090-9099	9100-9109	9110-9119	9120-9129	9130-9139	9140-9149	9150-9159	9160-9169	9170-9179	9180-9189	9190-9199	9200-9209	9210-9219	9220-9229	9230-9239	9240-9249	9250-9259	9260-9269	9270-9279	9280-9289	9290-9299	9300-9309	9310-9319	9320-9329	9330-9339	9340-9349	9350-9359	9360-9369	9370-9379	9380-9389	9390-9399	9400-9409	9410-9419	9420-9429	9430-9439	9440-9449	9450-9459	9460-9469	9470-9479	9480-9489	9490-9499	9500-9509	9510-9519	9520-9529	9530-9539	9540-9549	9550-9559	9560-9569	9570-9579	9580-9589	9590-9599	9600-9609	9610-9619	9620-9629	9630-9639	9640-9649	9650-9659	9660-9669	9670-9679	9680-9689	9690-9699	9700-9709	9710-9719	9720-9729	9730-9739	9740-9749	9750-9759	9760-9769	9770-9779	9780-9789	9790-9799	9800-9809	9810-9819	9820-9829	9830-9839	9840-9849	9850-9859	9860-9869	9870-9879	9880-9889	9890-9899	9900-9909	9910-9919	9920-9929	9930-9939	9940-9949	9950-9959	9960-9969	9970-9979	9980-9989	9990-9999	10000-10009	10010-10019	10020-10029	10030-10039	10040-10049	10050-10059	10060-10069	10070-10079	10080-10089	10090-10099	10100-10109	10110-10119	10120-10129	10130-10139	10140-10149	10150-10159	10160-10169	10170-10179	10180-10189	10190-10199	10200-10209	10210-10219	10220-10229	10230-10239	10240-10249	10250-10259	10260-10269	10270-10279	10280-10289	10290-10299	10300-10309	10310-10319	10320-10329	10330-10339	10340-10349	10350-10359	10360-10369	10370-10379	10380-10389	10390-10399	10400-10409	10410-10419	10420-10429	10430-10439	10440-10449	10450-10459	10460-10469	10470-10479	10480-10489	10490-10499	10500-10509	10510-10519	10520-10529	10530-10539	10540-10549	10550-10559	10560-10569	10570-10579	10580-10589	10590

Company Name

Vector

For Year Ended

31 March 2023

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

9			
10	Circuit length by operating voltage (at year end)	Overhead (km)	Total circuit length Underground (km) (km)
11	> 66kV	27	49 76
12	50kV & 66kV	-	- -
13	33kV	362	439 801
14	SWER (all SWER voltages)	-	- -
15	22kV (other than SWER)	2	172 174
16	6.6kV to 11kV (inclusive—other than SWER)	3,715	3,867 7,582
17	Low voltage (< 1kV)	4,121	6,714 10,835
18	Total circuit length (for supply)	8,227	11,241 19,468
19			
20	Dedicated street lighting circuit length (km)	17	486 503
21	Circuit in sensitive areas (conservation areas, iwi territory etc) (km)		5,192
22			
23	Overhead circuit length by terrain (at year end)	Circuit length (km)	(% of total overhead length)
24	Urban	4,632	56%
25	Rural	3,595	44%
26	Remote only		-
27	Rugged only		-
28	Remote and rugged		-
29	Unallocated overhead lines		-
30	Total overhead length	8,227	100%
31			
32		Circuit length (km)	(% of total circuit length)
33	Length of circuit within 10km of coastline or geothermal areas (where known)	19,448	99.90%
34			
35	Overhead circuit requiring vegetation management	Circuit length (km)	(% of total overhead length)
		8,227	100.00%

Company Name

Vector

For Year Ended

31 March 2023

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)	Total circuit length Underground (km) (km)
11	> 66kV	–	49
12	50kV & 66kV	–	–
13	33kV	48	289
14	SWER (all SWER voltages)	–	–
15	22kV (other than SWER)	2	172
16	6.6kV to 11kV (inclusive—other than SWER)	873	2,308
17	Low voltage (< 1kV)	1,899	3,988
18	Total circuit length (for supply)	2,822	6,806
19			
20	Dedicated street lighting circuit length (km)	5	267
21	Circuit in sensitive areas (conservation areas, iwi territory etc) (km)		2,733
22			
23	Overhead circuit length by terrain (at year end)	Circuit length (km)	(% of total overhead length)
24	Urban	2,301	82%
25	Rural	521	18%
26	Remote only		–
27	Rugged only		–
28	Remote and rugged		–
29	Unallocated overhead lines		–
30	Total overhead length	2,822	100%
31			
32		Circuit length (km)	(% of total circuit length)
33	Length of circuit within 10km of coastline or geothermal areas (where known)	9,627	99.99%
34			
35	Overhead circuit requiring vegetation management	Circuit length (km)	(% of total overhead length)
		2,822	100.00%

Company Name

Vector

For Year Ended

31 March 2023

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

9			
10	Circuit length by operating voltage (at year end)	Overhead (km)	Total circuit length Underground (km) (km)
11	> 66kV	27	27
12	50kV & 66kV	—	—
13	33kV	314	150 464
14	SWER (all SWER voltages)	—	—
15	22kV (other than SWER)	—	—
16	6.6kV to 11kV (inclusive—other than SWER)	2,842	1,559 4,401
17	Low voltage (< 1kV)	2,222	2,725 4,947
18	Total circuit length (for supply)	5,405	4,434 9,839
19			
20	Dedicated street lighting circuit length (km)	12	219 231
21	Circuit in sensitive areas (conservation areas, iwi territory etc) (km)		2,459
22			
23	Overhead circuit length by terrain (at year end)	Circuit length (km)	(% of total overhead length)
24	Urban	2,328	43%
25	Rural	3,077	57%
26	Remote only		—
27	Rugged only		—
28	Remote and rugged		—
29	Unallocated overhead lines		—
30	Total overhead length	5,405	100%
31			
32		Circuit length (km)	(% of total circuit length)
33	Length of circuit within 10km of coastline or geothermal areas (where known)	9,821	99.82%
34			
35	Overhead circuit requiring vegetation management	Circuit length (km)	(% of total overhead length)
		5,405	100.00%

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

		Number of ICPs served	Line charge revenue (\$000)
8	Location *		
9	N/A		
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26	* Extend embedded distribution networks table as necessary to disclose each embedded network owned by the EDB which is embedded in another EDB’s network or in another embedded network		

Company Name

Vector

For Year Ended

31 March 2023

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

9e(i): Consumer Connections and Decommissionings

Number of ICPs connected in year by consumer type

Consumer types defined by EDB*

Residential

Commercial

Number of
connections (ICPs)

10,697

4,812

* include additional rows if needed

Connections total

15,509

Number of ICPs decommissioned in year by consumer type

Consumer types defined by EDB*

Residential

Commercial

Number of
decommissionings

1,739

530

* include additional rows if needed

Decommissionings total

2,269

Distributed generation

Number of connections made in year

1,799

connections

Capacity of distributed generation installed in year

15

MVA

9e(ii): System Demand**Maximum coincident system demand**

GXP demand

Demand at time
of maximum
coincident
demand (MW)

1,747

plus Distributed generation output at HV and above

12

Maximum coincident system demand

1,759

less Net transfers to (from) other EDBs at HV and above

Demand on system for supply to consumers' connection points

1,759

Electricity volumes carried

Electricity supplied from GXPs

Energy (GWh)

8,660

less Electricity exports to GXPs

0

plus Electricity supplied from distributed generation

153

less Net electricity supplied to (from) other EDBs

0

Electricity entering system for supply to consumers' connection points

8,813

less Total energy delivered to ICPs

8,462

Electricity losses (loss ratio)

351

4.0%

Load factor

0.57

9e(iii): Transformer Capacity

Distribution transformer capacity (EDB owned)

(MVA)

4,965

Distribution transformer capacity (Non-EDB owned, estimated)

770

Total distribution transformer capacity

5,734

Zone substation transformer capacity

4,677

Company Name

Vector

For Year Ended

31 March 2023

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

9e(i): Consumer Connections and Decommissionings

Number of ICPs connected in year by consumer type

Consumer types defined by EDB*

Residential

Commercial

Number of
connections (ICPs)

6,274

2,387

* include additional rows if needed

Connections total

8,661

Number of ICPs decommissioned in year by consumer type

Consumer types defined by EDB*

Residential

Commercial

Number of
decommissionings

1,198

315

* include additional rows if needed

Decommissionings total

1,513

Distributed generation

Number of connections made in year

908

connections

Capacity of distributed generation installed in year

8.97

MVA

9e(ii): System Demand**Maximum coincident system demand**

GXP demand

1,090

plus Distributed generation output at HV and above

5

Maximum coincident system demand

1,095

less Net transfers to (from) other EDBs at HV and above

Demand on system for supply to consumers' connection points

1,095

Demand at time
of maximum
coincident
demand (MW)**Electricity volumes carried**

Electricity supplied from GXPs

5,753

less Electricity exports to GXPs

0

plus Electricity supplied from distributed generation

67

less Net electricity supplied to (from) other EDBs

0

Electricity entering system for supply to consumers' connection points

5,820

less Total energy delivered to ICPs

5,618

Electricity losses (loss ratio)

202

3.5%

Load factor

0.61

Energy (GWh)

9e(iii): Transformer Capacity

Distribution transformer capacity (EDB owned)

3,080

Distribution transformer capacity (Non-EDB owned, estimated)

298

Total distribution transformer capacity

3,378

(MVA)

Zone substation transformer capacity

3,019

Company Name

Vector

For Year Ended

31 March 2023

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

9e(i): Consumer Connections and Decommissionings

Number of ICPs connected in year by consumer type

Consumer types defined by EDB*

Residential

Commercial

Number of
connections (ICPs)

4,423

2,425

* include additional rows if needed

Connections total

6,848

Number of ICPs decommissioned in year by consumer type

Consumer types defined by EDB*

Residential

Commercial

Number of
decommissionings

541

215

* include additional rows if needed

Decommissionings total

756

Distributed generation

Number of connections made in year

891

connections

Capacity of distributed generation installed in year

6

MVA

9e(ii): System Demand**Maximum coincident system demand**

GXP demand

667

plus Distributed generation output at HV and above

7

Maximum coincident system demand

674

less Net transfers to (from) other EDBs at HV and above

Demand on system for supply to consumers' connection points

674

Demand at time
of maximum
coincident
demand (MW)**Electricity volumes carried**

Electricity supplied from GXPs

2,906

less Electricity exports to GXPs

0

plus Electricity supplied from distributed generation

86

less Net electricity supplied to (from) other EDBs

0

Electricity entering system for supply to consumers' connection points

2,992

less Total energy delivered to ICPs

2,845

Electricity losses (loss ratio)

147

4.9%

Load factor

0.51

Energy (GWh)

9e(iii): Transformer Capacity

Distribution transformer capacity (EDB owned)

1,884

Distribution transformer capacity (Non-EDB owned, estimated)

472

Total distribution transformer capacity

2,356

(MVA)

Zone substation transformer capacity

1,658

Company Name	Vector
For Year Ended	31 March 2023
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	Number of interruptions	
10	Class A (planned interruptions by Transpower)	9	
11	Class B (planned interruptions on the network)	1,471	
12	Class C (unplanned interruptions on the network)	2,333	
13	Class D (unplanned interruptions by Transpower)	1	
14	Class E (unplanned interruptions of EDB owned generation)		
15	Class F (unplanned interruptions of generation owned by others)		
16	Class G (unplanned interruptions caused by another disclosing entity)		
17	Class H (planned interruptions caused by another disclosing entity)		
18	Class I (interruptions caused by parties not included above)		
19	Total	3,814	
20			
21	Interruption restoration	≤3Hrs	>3hrs
22	Class C interruptions restored within	1,018	1,315
23			
24	SAIFI and SAIDI by class	SAIFI	SAIDI
25	Class A (planned interruptions by Transpower)	0	0.2
26	Class B (planned interruptions on the network)	0.26	74.1
27	Class C (unplanned interruptions on the network)	1.61	410.6
28	Class D (unplanned interruptions by Transpower)	0.03	1.3
29	Class E (unplanned interruptions of EDB owned generation)		
30	Class F (unplanned interruptions of generation owned by others)		
31	Class G (unplanned interruptions caused by another disclosing entity)		
32	Class H (planned interruptions caused by another disclosing entity)		
33	Class I (interruptions caused by parties not included above)		
34	Total	1.90	486.2
35			
36	Normalised SAIFI and SAIDI	Normalised SAIFI	Normalised SAIDI
37	Classes B & C (interruptions on the network)	1.87	232.5
38			
39	Transitional SAIDI and SAIDI (previous method)	SAIFI	SAIDI
40	Where EDBs do not currently record their SAIFI and SAIDI values using the 'multi-count' approach, they shall continue to record their SAIFI and SAIDI values on the same basis that they employed as at 31 March 2023 as 'Transitional SAIFI' and 'Transitional SAIDI' values, in addition to their SAIFI and SAIDI values (Classes B & C) using the 'multi-count approach'. This is a transitional reporting requirement that shall be in place for the 2024, 2025, and 2026 disclosure years.		
41	Class B (planned interruptions on the network)		
42	Class C (unplanned interruptions on the network)		
43			

Company Name	Vector
For Year Ended	31 March 2023
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.

10(ii): Class C Interruptions and Duration by Cause

Cause

Lightning
Vegetation
Adverse weather
Adverse environment
Third party interference
Wildlife
Human error
Defective equipment
Cause unknown

SAIFI	SAIDI
0.00	0.4
0.45	188.4
0.07	21.7
0.04	41.7
0.18	19.6
0.04	2.8
0.05	0.6
0.41	88.8
0.36	46.6

Breakdown of third party interference

Dig-in
Overhead contact
Vandalism
Vehicle damage
Other

SAIFI	SAIDI

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

Main equipment involved

Subtransmission lines
Subtransmission cables
Subtransmission other
Distribution lines (excluding LV)
Distribution cables (excluding LV)
Distribution other (excluding LV)

SAIFI	SAIDI
0.09	34.3
0.01	2.1
0.16	37.7

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

Main equipment involved

Subtransmission lines
Subtransmission cables
Subtransmission other
Distribution lines (excluding LV)
Distribution cables (excluding LV)
Distribution other (excluding LV)

SAIFI	SAIDI
0.29	43.6
0.02	0.4
0.05	8.2
0.90	289.8
0.15	15.6
0.20	52.9

10(v): Fault Rate

Main equipment involved

Subtransmission lines
Subtransmission cables
Subtransmission other
Distribution lines (excluding LV)
Distribution cables (excluding LV)
Distribution other (excluding LV)

Number of Faults	Circuit length (km)	Fault rate (faults per 100km)
59	389	15.17
3	607	0.49
7		
1,612	3,717	43.36
258	3,920	6.58
394		
2,333		

Total

Company Name	Vector
For Year Ended	31 March 2023
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)		
11	Class B (planned interruptions on the network)	709	
12	Class C (unplanned interruptions on the network)	629	
13	Class D (unplanned interruptions by Transpower)		
14	Class E (unplanned interruptions of EDB owned generation)		
15	Class F (unplanned interruptions of generation owned by others)		
16	Class G (unplanned interruptions caused by another disclosing entity)		
17	Class H (planned interruptions caused by another disclosing entity)		
18	Class I (interruptions caused by parties not included above)		
19	Total	1,338	
20			
21	Interruption restoration	≤3Hrs	>3hrs
22	Class C interruptions restored within	324	305
23			
24	SAIFI and SAIDI by class	SAIFI	SAIDI
25	Class A (planned interruptions by Transpower)		
26	Class B (planned interruptions on the network)	0.22	50
27	Class C (unplanned interruptions on the network)	0.92	83.8
28	Class D (unplanned interruptions by Transpower)		
29	Class E (unplanned interruptions of EDB owned generation)		
30	Class F (unplanned interruptions of generation owned by others)		
31	Class G (unplanned interruptions caused by another disclosing entity)		
32	Class H (planned interruptions caused by another disclosing entity)		
33	Class I (interruptions caused by parties not included above)		
34	Total	1.14	133.8
35			
36	Normalised SAIFI and SAIDI	Normalised SAIFI	Normalised SAIDI
37	Classes B & C (interruptions on the network)	1.14	133.3
38			
39	Transitional SAIDI and SAIDI (previous method)	SAIFI	SAIDI
40	Where EDBs do not currently record their SAIFI and SAIDI values using the 'multi-count' approach, they shall continue to record their SAIFI and SAIDI values on the same basis that they employed as at 31 March 2023 as 'Transitional SAIFI' and 'Transitional SAIDI' values, in addition to their SAIFI and SAIDI values (Classes B & C) using the 'multi-count approach'. This is a transitional reporting requirement that shall be in place for the 2024, 2025, and 2026 disclosure years.		
41	Class B (planned interruptions on the network)		
42	Class C (unplanned interruptions on the network)		
43			

Company Name	Vector
For Year Ended	31 March 2023
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.

10(ii): Class C Interruptions and Duration by Cause

Cause

Lightning
Vegetation
Adverse weather
Adverse environment
Third party interference
Wildlife
Human error
Defective equipment
Cause unknown

SAIFI	SAIDI
0.00	0.1
0.21	26.3
0.02	2.4
0.01	3.1
0.17	14.4
0.03	1.7
0.03	0.4
0.23	24.9
0.22	10.6

Breakdown of third party interference

Dig-in
Overhead contact
Vandalism
Vehicle damage
Other

SAIFI	SAIDI

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

Main equipment involved

Subtransmission lines
Subtransmission cables
Subtransmission other
Distribution lines (excluding LV)
Distribution cables (excluding LV)
Distribution other (excluding LV)

SAIFI	SAIDI
0.08	24.3
0.01	2.8
0.14	22.9

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

Main equipment involved

Subtransmission lines
Subtransmission cables
Subtransmission other
Distribution lines (excluding LV)
Distribution cables (excluding LV)
Distribution other (excluding LV)

SAIFI	SAIDI
0.11	1.7
0.47	50.2
0.18	15.5
0.16	16.4

10(v): Fault Rate

Main equipment involved

Subtransmission lines
Subtransmission cables
Subtransmission other
Distribution lines (excluding LV)
Distribution cables (excluding LV)
Distribution other (excluding LV)

Number of Faults	Circuit length (km)	Fault rate (faults per 100km)
12	47.9	25.05
–	456.9	–
344	875.2	39.30
137	2,360.3	5.80
136		
629		

Total

Company Name	Vector
For Year Ended	31 March 2023
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)	9	
11	Class B (planned interruptions on the network)	762	
12	Class C (unplanned interruptions on the network)	1,704	
13	Class D (unplanned interruptions by Transpower)	1	
14	Class E (unplanned interruptions of EDB owned generation)		
15	Class F (unplanned interruptions of generation owned by others)		
16	Class G (unplanned interruptions caused by another disclosing entity)		
17	Class H (planned interruptions caused by another disclosing entity)		
18	Class I (interruptions caused by parties not included above)		
19	Total	2,476	
20			
21	Interruption restoration	≤3Hrs	>3hrs
22	Class C interruptions restored within	694	1,010
23			
24	SAIFI and SAIDI by class	SAIFI	SAIDI
25	Class A (planned interruptions by Transpower)	0	0.5
26	Class B (planned interruptions on the network)	0.31	108.9
27	Class C (unplanned interruptions on the network)	2.6	883.1
28	Class D (unplanned interruptions by Transpower)	0.07	3.2
29	Class E (unplanned interruptions of EDB owned generation)		
30	Class F (unplanned interruptions of generation owned by others)		
31	Class G (unplanned interruptions caused by another disclosing entity)		
32	Class H (planned interruptions caused by another disclosing entity)		
33	Class I (interruptions caused by parties not included above)		
34	Total	2.98	995.7
35			
36	Normalised SAIFI and SAIDI	Normalised SAIFI	Normalised SAIDI
37	Classes B & C (interruptions on the network)	2.91	391.9
38			
39	Transitional SAIDI and SAIDI (previous method)	SAIFI	SAIDI
40	Where EDBs do not currently record their SAIFI and SAIDI values using the 'multi-count' approach, they shall continue to record their SAIFI and SAIDI values on the same basis that they employed as at 31 March 2023 as 'Transitional SAIFI' and 'Transitional SAIDI' values, in addition to their SAIFI and SAIDI values (Classes B & C) using the 'multi-count approach'. This is a transitional reporting requirement that shall be in place for the 2024, 2025, and 2026 disclosure years.		
41	Class B (planned interruptions on the network)		
42	Class C (unplanned interruptions on the network)		
43			

Company Name	Vector
For Year Ended	31 March 2023
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.

10(ii): Class C Interruptions and Duration by Cause

Cause

Lightning
Vegetation
Adverse weather
Adverse environment
Third party interference
Wildlife
Human error
Defective equipment
Cause unknown

SAIFI	SAIDI
0.01	0.9
0.81	422.9
0.13	49.7
0.09	97.5
0.20	27.0
0.05	4.3
0.09	0.9
0.65	181.2
0.55	98.6

Breakdown of third party interference

Dig-in
Overhead contact
Vandalism
Vehicle damage
Other

SAIFI	SAIDI

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

Main equipment involved

Subtransmission lines
Subtransmission cables
Subtransmission other
Distribution lines (excluding LV)
Distribution cables (excluding LV)
Distribution other (excluding LV)

SAIFI	SAIDI
0.12	48.8
0.01	1.1
0.18	59.1

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

Main equipment involved

Subtransmission lines
Subtransmission cables
Subtransmission other
Distribution lines (excluding LV)
Distribution cables (excluding LV)
Distribution other (excluding LV)

SAIFI	SAIDI
0.55	104.2
0.05	1.1
0.12	20.0
1.51	636.2
0.11	15.9
0.25	105.7

10(v): Fault Rate

Main equipment involved

Subtransmission lines
Subtransmission cables
Subtransmission other
Distribution lines (excluding LV)
Distribution cables (excluding LV)
Distribution other (excluding LV)

	Number of Faults	Circuit length (km)	Fault rate (faults per 100km)
Subtransmission lines	47	341.0	13.78
Subtransmission cables	3	150.5	1.99
Subtransmission other	7		
Distribution lines (excluding LV)	1,268	2,842.2	44.61
Distribution cables (excluding LV)	121	1,559.3	7.76
Distribution other (excluding LV)	258		
Total	1,704		