COMMERCE COMMISSION NEW ZEALAND

EDB Information Disclosure Requirements
Information Templates

Schedules 1–10
excluding 5f–5h

Company Name	Vector
Disclosure Date	31 August 2024
Disclosure Year (year ended)	31 March 2024

Templates for Schedules 1–10 excluding 5f–5h

Prepared 16 February 2024

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Disclosure Template Instructions

This document forms Schedules 1–10 to the Electricity Distribution Information Disclosure (Targeted Review 2024) Amendment Determination 2024 [2024] NZCC 2.

The Schedules take the form of templates 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 2023").

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:P106 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 in rows 10 to 60 of the column "Items at end of year (quantity)" 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 schedule 4, 5b, 5c, 5d, 5e, 6a, 8, 9d, and 9e templates 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 the schedule 5c, 6a, and 9e templates 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.

The schedule 5d and 5e templates 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 L and Q, and between U and AF. If inserting additional columns, headings will need to be copied into the added columns. Additionally, 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 column headings and 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.

Description of Calculation References

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

Worksheet Completion Sequence

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

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

Company Name	**Vector**
For Year Ended	**31 March 2024**

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 this ID determination. This will include information disclosed in accordance with this and other schedules, and information disclosed under the other requirements of this determination.
This information is part of audited disclosure information (as defined in section 1.4 of this ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

1(i): Expenditure metrics

	Expenditure per GWh energy delivered to ICPs ($/GWh)	Expenditure per average no. of ICPs ($/ICP)	Expenditure per MW maximum coincident system demand ($/MW)	Expenditure per km circuit length ($/km)	Expenditure per MVA of capacity from EDB-owned distribution transformers ($/MVA)
Operational expenditure	19,326	274	88,210	8,635	33,245
Network	6,895	98	31,471	3,081	11,861
Non-network	12,431	176	56,738	5,554	21,384
Expenditure on assets	55,260	784	252,220	24,690	95,060
Network	48,160	684	219,811	21,517	82,845
Non-network	7,101	101	32,409	3,173	12,215

1(ii): Revenue metrics

	Revenue per GWh energy delivered to ICPs ($/GWh)	Revenue per average no. of ICPs ($/ICP)
Total consumer line charge revenue	75,684	1,074
Standard consumer line charge revenue	78,314	1,042
Non-standard consumer line charge revenue	36,271	735,630

1(iii): Service intensity measures

Demand density	98	*Maximum coincident system demand per km of circuit length (for supply) (kW/km)*
Volume density	447	*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	14,195	*Total energy delivered to ICPs per average number of ICPs (kWh/ICP)*

1(iv): Composition of regulatory income

	($000)	% of revenue
Operational expenditure	169,186	26.15%
Pass-through and recoverable costs excluding financial incentives and wash-ups	211,278	32.66%
Total depreciation	155,500	24.04%
Total revaluations	155,198	23.99%
Regulatory tax allowance	24,591	3.80%
Regulatory profit/(loss) including financial incentives and wash-ups	237,467	36.71%
Total regulatory income	646,903	

1(v): Reliability

Interruption rate	17.88	*Interruptions per 100 circuit km*

Company Name	**Vector**
For Year Ended	**31 March 2024**

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 this 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

2(i): Return on Investment

	CY-2 31 Mar 22 %	CY-1 31 Mar 23 %	Current Year CY 31 Mar 24 %
ROI – comparable to a post tax WACC			
Reflecting all revenue earned	9.15%	8.37%	5.51%
Excluding revenue earned from financial incentives	9.10%	8.34%	5.46%
Excluding revenue earned from financial incentives and wash-ups	9.09%	8.33%	5.45%
Mid-point estimate of post tax WACC	3.52%	4.88%	6.05%
25th percentile estimate	2.84%	4.20%	5.37%
75th percentile estimate	4.20%	5.56%	6.73%
ROI – comparable to a vanilla WACC			
Reflecting all revenue earned	9.45%	8.88%	6.21%
Excluding revenue earned from financial incentives	9.40%	8.85%	6.16%
Excluding revenue earned from financial incentives and wash-ups	9.39%	8.84%	6.16%
WACC rate used to set regulatory price path	4.57%	4.57%	4.57%
Mid-point estimate of vanilla WACC	3.82%	5.39%	6.75%
25th percentile estimate	3.14%	4.71%	6.07%
75th percentile estimate	4.50%	6.07%	7.43%

2(ii): Information Supporting the ROI

		($000)		
	Total opening RAB value	3,891,833		
plus	Opening deferred tax	(145,959)		
Opening RIV			3,745,874	
Line charge revenue			662,550	
	Expenses cash outflow	380,464		
add	Assets commissioned	313,072		
less	Asset disposals	18,055		
add	Tax payments	2,758		
less	Other regulated income	(15,647)		
Mid-year net cash outflows			693,886	
Term credit spread differential allowance			4,079	
	Total closing RAB value	4,193,945		
less	Adjustment resulting from asset allocation	7,397		
less	Lost and found assets adjustment	–		
plus	Closing deferred tax	(167,792)		
Closing RIV			4,018,756	
ROI – comparable to a vanilla WACC				6.21%
	Leverage (%)			42%
	Cost of debt assumption (%)			5.97%
	Corporate tax rate (%)			28%
ROI – comparable to a post tax WACC				5.51%

Company Name	**Vector**
For Year Ended	**31 March 2024**

SCHEDULE 2: REPORT ON RETURN ON INVESTMENT

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EDBs must provide explanatory comment on their ROI in Schedule 14 (Mandatory Explanatory Notes).
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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 — 6.01%

Year-end ROI – comparable to a post tax WACC — 5.31%

** 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

IRIS incentive adjustment	2,924	
Purchased assets – avoided transmission charge	–	
Energy efficiency and demand incentive allowance	–	
Quality incentive adjustment	(355)	
Other financial incentives	–	
Financial incentives		2,569

Impact of financial incentives on ROI — 0.05%

Input methodology claw-back	–	
CPP application recoverable costs	–	
Catastrophic event allowance	–	
Capex wash-up adjustment	366	
Transmission asset wash-up adjustment	–	
2013–15 NPV wash-up allowance	–	
Reconsideration event allowance	–	

Company Name	**Vector**
For Year Ended	**31 March 2024**

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 this 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 this ID determination), and so is subject to the assurance report required by section 2.8.

sch ref			
118	Other wash-ups	–	
119	**Wash-up costs**		366
120			
121	**Impact of wash-up costs on ROI**		0.01%

Company Name	**Vector**
For Year Ended	**31 March 2024**

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 this 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		662,550
10	*plus*	Gains / (losses) on asset disposals		(15,647)
11	*plus*	Other regulated income (other than gains / (losses) on asset disposals)		–
12				
13		**Total regulatory income**		646,903
14		**Expenses**		
15	*less*	Operational expenditure		169,186
16				
17	*less*	Pass-through and recoverable costs excluding financial incentives and wash-ups		211,278
18				
19		**Operating surplus / (deficit)**		266,439
20				
21	*less*	Total depreciation		155,500
22				
23	*plus*	Total revaluations		155,198
24				
25		**Regulatory profit / (loss) before tax**		266,137
26				
27	*less*	Term credit spread differential allowance		4,079
28				
29	*less*	Regulatory tax allowance		24,591
30				
31		**Regulatory profit/(loss) including financial incentives and wash-ups**		237,467
32				
33	**3(ii): Pass-through and Recoverable Costs excluding Financial Incentives and Wash-Ups**		**($000)**	
34		**Pass through costs**		
35		Rates	18,099	
36		Commerce Act levies	1,881	
37		Industry levies	2,139	
38		CPP specified pass through costs	–	
39		**Recoverable costs excluding financial incentives and wash-ups**		
40		Electricity lines service charge payable to Transpower	179,991	
41		Transpower new investment contract charges	7,680	
42		System operator services	–	
43		Distributed generation allowance	–	
44		Extended reserves allowance	–	
45		Other recoverable costs excluding financial incentives and wash-ups	1,488	
46		**Pass-through and recoverable costs excluding financial incentives and wash-ups**		211,278
47				
48	**3(iii): Merger and Acquisition Expenditure**			
49				**($000)**
50		Merger and acquisition expenditure		–
51				
52		*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)*		
53	**3(iv): Other Disclosures**			
54				**($000)**
55		Self-insurance allowance		–

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Company Name	**Vector**
For Year Ended	**31 March 2024**

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 this ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

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

		RAB 31 Mar 20 ($000)	RAB 31 Mar 21 ($000)	RAB 31 Mar 22 ($000)	RAB 31 Mar 23 ($000)	RAB 31 Mar 24 ($000)
	Total opening RAB value	3,075,471	3,258,721	3,385,969	3,641,987	3,891,833
less	**Total depreciation**	116,767	125,888	133,873	145,856	155,500
plus	**Total revaluations**	77,539	49,372	233,313	241,014	155,198
plus	**Assets commissioned**	512,505	215,221	171,903	169,287	313,072
less	**Asset disposals**	289,233	12,198	16,301	15,317	18,055
plus	**Lost and found assets adjustment**					–
plus	**Adjustment resulting from asset allocation**	(794)	741	976	718	7,397
	Total closing RAB value	3,258,721	3,385,969	3,641,987	3,891,833	4,193,945

4(ii): Unallocated Regulatory Asset Base

–

		Unallocated RAB * ($000)	($000)	RAB ($000)	($000)
	Total opening RAB value		3,906,977		3,891,833
less					
	Total depreciation		158,624		155,500
plus					
	Total revaluations		155,765		155,198
plus					
	Assets commissioned (other than below)	308,585		295,253	
	Assets acquired from a regulated supplier	–		–	
	Assets acquired from a related party	17,819		17,819	
	Assets commissioned		326,404		313,072
less					
	Asset disposals (other than below)	18,390		18,055	
	Asset disposals to a regulated supplier	–		–	
	Asset disposals to a related party	–		–	
	Asset disposals		18,390		18,055
plus	**Lost and found assets adjustment**		–		–
plus	**Adjustment resulting from asset allocation**				7,397
	Total closing RAB value		4,212,132		4,193,945

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

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

	CPI_4	1,267
	$CPI_4{}^{-4}$	1,218
	Revaluation rate (%)	4.02%

		Unallocated RAB * ($000)	($000)	RAB ($000)	($000)
	Total opening RAB value	3,906,977		3,891,833	
less	Opening value of fully depreciated, disposed and lost assets	31,084		30,032	
	Total opening RAB value subject to revaluation	3,875,893		3,861,801	
	Total revaluations		155,765		155,198

4(iv): Roll Forward of Works Under Construction

		Unallocated works under construction		Allocated works under construction	
	Works under construction—preceding disclosure year		82,574		80,850
plus	Capital expenditure	319,518		305,660	
less	Assets commissioned	326,404		313,072	
plus	Adjustment resulting from asset allocation			–	
	Works under construction - current disclosure year		75,688		73,438
	Highest rate of capitalised finance applied				4.44%

4(v): Regulatory Depreciation

		Unallocated RAB * ($000)	($000)	RAB ($000)	($000)
	Depreciation - standard	103,821		103,327	
	Depreciation - no standard life assets	54,803		52,173	
	Depreciation - modified life assets				
	Depreciation - alternative depreciation in accordance with CPP				
	Total depreciation		158,624		155,500

Company Name	**Vector**
For Year Ended	**31 March 2024**

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 this ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

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	79,923	386,334	388,304	600,930	794,740	335,921	359,313	896,540	49,828	3,891,833	
less	Total depreciation	2,330	12,529	15,930	16,222	30,212	11,968	14,733	33,364	18,212	155,500	
plus	Total revaluations	3,212	15,528	15,373	23,948	31,837	13,394	14,213	35,856	1,837	155,198	
plus	Assets commissioned	199	845	45,725	51,122	31,496	33,319	46,952	26,452	76,962	313,072	
less	Asset disposals	43	372	2,968	4,559	1,463	1,515	5,400	1,491	244	18,055	
plus	Lost and found assets adjustment										–	
plus	Adjustment resulting from asset allocation	4			339					7,054	7,397	
plus	Asset category transfers										–	
	Total closing RAB value	80,965	389,806	430,504	655,558	826,398	369,151	400,345	923,993	117,225	4,193,945	
	Asset Life											
	Weighted average remaining asset life	40	44	32	47	34	33	29	40	6	(years)	
	Weighted average expected total asset life	60	62	44	59	57	50	36	48	12	(years)	

Company Name	**Vector**
For Year Ended	**31 March 2024**

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 this ID determination), and so is subject to the assurance report required by section 2.8.

sch ref					
7	**5a(i): Regulatory Tax Allowance**				**($000)**
8		**Regulatory profit / (loss) before tax**			266,137
9					
10	*plus*	Income not included in regulatory profit / (loss) before tax but taxable	–	*	
11		Expenditure or loss in regulatory profit / (loss) before tax but not deductible	12,193	*	
12		Amortisation of initial differences in asset values	31,189		
13		Amortisation of revaluations	33,111		
14					76,493
15					
16	*less*	Total revaluations	155,198		
17		Income included in regulatory profit / (loss) before tax but not taxable		*	
18		Discretionary discounts and customer rebates			
19		Expenditure or loss deductible but not in regulatory profit / (loss) before tax	4,404	*	
20		Notional deductible interest	95,202		
21					254,804
22					
23		**Regulatory taxable income**			87,826
24					
25	*less*	Utilised tax losses			
26		Regulatory net taxable income			87,826
27					
28		Corporate tax rate (%)	28%		
29		**Regulatory tax allowance**			24,591
30					
31	* Workings to be provided in Schedule 14				
32	**5a(ii): Disclosure of Permanent Differences**				
33		In Schedule 14, Box 5, provide descriptions and workings of items recorded in the asterisked categories in Schedule 5a(i).			
34	**5a(iii): Amortisation of Initial Difference in Asset Values**				**($000)**
35					
36		Opening unamortised initial differences in asset values	810,921		
37	*less*	Amortisation of initial differences in asset values	31,189		
38	*plus*	Adjustment for unamortised initial differences in assets acquired	–		
39	*less*	Adjustment for unamortised initial differences in assets disposed	8,805		
40		Closing unamortised initial differences in asset values			770,927
41					
42		Opening weighted average remaining useful life of relevant assets (years)			26
43					

Company Name	**Vector**
For Year Ended	**31 March 2024**

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 this ID determination), and so is subject to the assurance report required by section 2.8.

sch ref				($000)
44	**5a(iv): Amortisation of Revaluations**			
45				
46		Opening sum of RAB values without revaluations	3,078,362	
47				
48		Adjusted depreciation	122,389	
49		Total depreciation	155,500	
50		Amortisation of revaluations		33,111
51				
52	**5a(v): Reconciliation of Tax Losses**			($000)
53				
54		**Opening tax losses**		
55	*plus*	Current period tax losses		
56	*less*	Utilised tax losses		
57		**Closing tax losses**		–
58	**5a(vi): Calculation of Deferred Tax Balance**			($000)
59				
60		**Opening deferred tax**	(145,959)	
61				
62	*plus*	Tax effect of adjusted depreciation	34,269	
63				
64	*less*	Tax effect of tax depreciation	45,276	
65				
66	*plus*	Tax effect of other temporary differences*	194	
67				
68	*less*	Tax effect of amortisation of initial differences in asset values	8,733	
69				
70	*plus*	Deferred tax balance relating to assets acquired in the disclosure year	–	
71				
72	*less*	Deferred tax balance relating to assets disposed in the disclosure year	1,060	
73				
74	*plus*	Deferred tax cost allocation adjustment	(1,227)	
75				
76		**Closing deferred tax**		(167,792)
77				
78	**5a(vii): Disclosure of Temporary Differences**			
79		*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).*		
80				
81	**5a(viii): Regulatory Tax Asset Base Roll-Forward**			
82				($000)
83		**Opening sum of regulatory tax asset values**	1,447,404	
84	*less*	Tax depreciation	161,700	
85	*plus*	Regulatory tax asset value of assets commissioned	272,980	
86	*less*	Regulatory tax asset value of asset disposals	9,649	
87	*plus*	Lost and found assets adjustment	–	
88	*plus*	Adjustment resulting from asset allocation	3,014	
89	*plus*	Other adjustments to the RAB tax value	–	
90		**Closing sum of regulatory tax asset values**		1,552,049

Company Name	**Vector**
For Year Ended	**31 March 2024**

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 this ID determination.
This information is part of audited disclosure information (as defined in clause 1.4 of this 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)	
8	**Total regulatory income**		–	
10	**Market value of asset disposals**		–	
12	Service interruptions and emergencies	–		
13	Vegetation management	–		
14	Routine and corrective maintenance and inspection	–		
15	Asset replacement and renewal (opex)	–		
16	**Network opex**		–	
17	Business support	6,311		
18	System operations and network support	11,991		
19	Non-network solutions provided by a related party or third party (not required before RY25)	–		*Not Required before DY2025*
20	**Operational expenditure**		18,302	
21	Consumer connection	90		
22	System growth	17,519		
23	Asset replacement and renewal (capex)	114		
24	Asset relocations	–		
25	Quality of supply	–		
26	Legislative and regulatory	–		
27	Other reliability, safety and environment	–		
28	**Expenditure on non-network assets**		–	
29	**Expenditure on assets**		17,723	
30	Cost of financing		–	
31	Value of capital contributions		–	
32	Value of vested assets		–	
33	**Capital Expenditure**		17,723	
34	**Total expenditure**		36,025	
36	**Other related party transactions**		–	

5b(iii): Total Opex and Capex Related Party Transactions

38	Name of related party	Nature of opex or capex service provided	Total value of transactions
39	PowerSmart NZ Limited	Asset replacement and renewal (capex)	14
40	Vector Communications Limited	Asset replacement and renewal (capex)	100
41	Vector Communications Limited	Consumer connection	90
42	Vector Communications Limited	System growth	76
43	Vector Communications Limited	System operations and network support	6,539
44	Vector Auckland Property Limited	System growth	8,791
45	Vector Northern Property Limited	System growth	8,652
46	Vector Technology Solutions Limited	System operations and network support	4,607
47	Advanced Metering Services Limited	System operations and network support	42
48	Bluecurrent Limited	System operations and network support	803
49	Vector Limited - directors and key management personnel	Business support	6,311
54	**Total value of related party transactions**		36,025

55 ** 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	6,805
PowerSmart NZ Limited	a wholly owned subsidiary of Vector limited	Energy solutions services	14
Bluecurrent Limited	An associate in which Vector Li mited holds a 50% interest	Metering services	803
Advanced Metering Services Limited	a wholly owned subsidiary of Vector limited	Metering services	42
Vector Technology Solutions Limited	a wholly owned subsidiary of Vector limited	Digital and technology services	4,607
Vector Auckland Property Limited	a wholly owned subsidiary of Vector limited	Asset management services	8,791
Vector Northern Property Limited	a wholly owned subsidiary of Vector limited	Asset management services	8,652
Vector Limited	Directors and Key management personnel	Business support	6,311

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Company Name	**Vector**
For Year Ended	**31 March 2024**

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 this 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)	date of financial statements (NZD)	Term Credit Spread Difference	Debt issue cost readjustment
[]VCI	13-Jan-20	20-Dec-19	5	BKBM + []VCI				
[]VCI	1-Jul-21	28-Jun-21	5	BKBM + []VCI				
[]VCI	1-Jul-21	28-Jun-21	5	BKBM + []VCI				
[]VCI	30-Jul-21	29-Jul-21	3	BKBM + []VCI				
[]VCI	30-Jul-21	29-Jul-21	3	BKBM + []VCI				
[]VCI	30-Jul-21	29-Jul-21	3	BKBM + []VCI				
[]VCI	16-Sep-22	29-Jul-21	3	BKBM + []VCI				
Subtotal of bank facilities- variable rate					-	-565		
Capital bonds – fixed rate	**15-Jun-22**	**14-Jun-22**	**5**	**6.23**	**307,205**	**305,730**	**[]VCI**	**[]VCI**
Wholesale Bonds- fixed rate Mar17	14-Mar-17	3-Mar-17	7	4.996	100,000		[]VCI	[]VCI
Wholesale Bonds- fixed rate Jun18	25-Jun-18	21-Jun-18	5.7	4.996	140,000		[]VCI	[]VCI
Wholesale Bonds- fixed rate Oct20	6-Oct-20	1-Oct-20	6	1.575	170,000		[]VCI	[]VCI
Subtotal of wholesale bonds- variable rate					**410,000**	**410,443**	**[]VCI**	**[]VCI**
Senior notes - 2020 USPP 12yr	12-Mar-20	4-Mar-20	12	[]VCI	573,888		[]VCI	[]VCI
Senior notes - 2020 USPP 15 yr	12-Mar-20	4-Mar-20	15	[]VCI	223,179		[]VCI	[]VCI
Senior notes - 2017 USPP 10yr	25-Oct-17	28-Sep-17	10	[]VCI	277,200		[]VCI	[]VCI
Senior notes - 2017 USPP 12yr	25-Oct-17	28-Sep-17	12	[]VCI	138,600		[]VCI	[]VCI
Subtotal of senior notes - USD fixed rate					**1,212,867**	**1,083,645**	**[]VCI**	**[]VCI**
Unsubordinated bond May 19	27-May-19	16-May-19	6	3.45	250,000		[]VCI	[]VCI
Unsubordinated bond Nov 21	26-Nov-21	18-Nov-21	6	3.69	225,000		[]VCI	[]VCI
Unsubordinated bond					**475,000**	**469,649**	**[]VCI**	**[]VCI**
** include additional rows if needed*						2,268,902	–	–

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

Gross term credit spread differential		5,450
Total book value of interest bearing debt	2,268,902	
Leverage	42%	
Average opening and closing RAB values	4,042,889	
Attribution Rate (%)		75%
Term credit spread differential allowance		4,079

Company Name	**Vector**
For Year Ended	**31 March 2024**

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 this 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	Total	OVABAA allocation increase ($000s)
Service interruptions and emergencies					
Directly attributable		14,055			
Not directly attributable	–	–	–	–	–
Total attributable to regulated service		14,055			
Vegetation management					
Directly attributable		7,963			
Not directly attributable	–	–	–	–	–
Total attributable to regulated service		7,963			
Routine and corrective maintenance and inspection					
Directly attributable		22,185			
Not directly attributable	–	–	–	–	–
Total attributable to regulated service		22,185			
Asset replacement and renewal					
Directly attributable		16,159			
Not directly attributable	–	–	–	–	–
Total attributable to regulated service		16,159			
Non-network solutions provided by a related party or third party *Not required before DY2025*					
Directly attributable		–			
Not directly attributable	–	–	–	–	–
Total attributable to regulated service		–			
System operations and network support					
Directly attributable		39,575			
Not directly attributable	–	8,955	1,027	9,982	–
Total attributable to regulated service		48,530			
Business support		–			
Directly attributable		3,177			
Not directly attributable	–	57,117	15,319	72,436	–
Total attributable to regulated service		60,294			
Operating costs directly attributable		103,114			
Operating costs not directly attributable	–	66,072	16,346	82,418	–
Operational expenditure		169,186			

Company Name	**Vector**
For Year Ended	**31 March 2024**

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 this ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

5d(ii): Other Cost Allocations

		($000)
	Pass through and recoverable costs	
	Pass through costs	
	Directly attributable	22,119
	Not directly attributable	–
	Total attributable to regulated service	22,119
	Recoverable costs	
	Directly attributable	189,159
	Not directly attributable	–
	Total attributable to regulated service	189,159

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

Change in cost allocation 1

			($000)	
			CY-1	**Current Year (CY)**
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

			($000)	
			CY-1	**Current Year (CY)**
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

			($000)	
			CY-1	**Current Year (CY)**
Cost category		Original allocation		
Original allocator or line items		New allocation		
New allocator or line items		Difference	–	–
Rationale for change				

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

Company Name	**Vector**
For Year Ended	**31 March 2024**

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 this 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	78,788
Not directly attributable	2,177
Total attributable to regulated service	80,965
Subtransmission cables	
Directly attributable	389,806
Not directly attributable	–
Total attributable to regulated service	389,806
Zone substations	
Directly attributable	430,504
Not directly attributable	–
Total attributable to regulated service	430,504
Distribution and LV lines	
Directly attributable	561,447
Not directly attributable	94,111
Total attributable to regulated service	655,558
Distribution and LV cables	
Directly attributable	826,395
Not directly attributable	3
Total attributable to regulated service	826,398
Distribution substations and transformers	
Directly attributable	369,151
Not directly attributable	–
Total attributable to regulated service	369,151
Distribution switchgear	
Directly attributable	400,345
Not directly attributable	–
Total attributable to regulated service	400,345
Other network assets	
Directly attributable	921,492
Not directly attributable	2,501
Total attributable to regulated service	923,993
Non-network assets	
Directly attributable	59,616
Not directly attributable	57,609
Total attributable to regulated service	117,225
Regulated service asset value directly attributable	4,037,544
Regulated service asset value not directly attributable	156,401
Total closing RAB value	4,193,945

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

Change in asset value allocation 1

			($000) CY-1	($000) Current Year (CY)
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

			($000) CY-1	($000) Current Year (CY)
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

			($000) CY-1	($000) Current Year (CY)
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 2024**

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 this ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

6a(i): Expenditure on Assets

			($000)	($000)
8		Consumer connection		122,875
9		System growth		78,774
10		Asset replacement and renewal		186,924
11		Asset relocations		26,020
12		Reliability, safety and environment:		
13		Quality of supply	–	
14		Legislative and regulatory	1,232	
15		Other reliability, safety and environment	5,772	
16		**Total reliability, safety and environment**		7,004
17		**Expenditure on network assets**		421,597
18		Expenditure on non-network assets		62,161
19				
20		**Expenditure on assets**		483,758
21	*plus*	Cost of financing		1,547
22	*less*	Value of capital contributions		179,645
23	*plus*	Value of vested assets		–
24				
25		**Capital expenditure**		305,660

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	12,820
29	Research and development	2,269

6a(iii): Consumer Connection

		*Consumer types defined by EDB**	($000)	($000)
33		Service connection	21,478	
34		Customer substations	44,533	
35		Business subdivisions	2,005	
35		Residential subdivisions	48,116	
36		Capacity change	6,177	
37		Street lighting	566	
38		** include additional rows if needed*		
39		**Consumer connection expenditure**		122,875
40				
41	*less*	Capital contributions funding consumer connection expenditure	128,235	
42		**Consumer connection less capital contributions**		(5,360)

6a(iv): System Growth and Asset Replacement and Renewal

			System Growth ($000)	Asset Replacement and Renewal ($000)
46		Subtransmission	19,246	2,901
47		Zone substations	3,288	43,048
48		Distribution and LV lines	2,845	63,631
49		Distribution and LV cables	17,881	25,105
50		Distribution substations and transformers	15,864	36,373
51		Distribution switchgear	521	11,463
52		Other network assets	19,129	4,403
53		**System growth and asset replacement and renewal expenditure**	78,774	186,924
54	*less*	Capital contributions funding system growth and asset replacement and renewal	36,562	626
55		**System growth and asset replacement and renewal less capital contributions**	42,212	186,298
56				

6a(v): Asset Relocations

		*Project or programme**	($000)	($000)
59				
60				
61				
62				
63				
64		** include additional rows if needed*		
65		All other projects or programmes - asset relocations	26,020	
66		**Asset relocations expenditure**		26,020
67	*less*	Capital contributions funding asset relocations	14,222	
68		**Asset relocations less capital contributions**		11,798

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Company Name	**Vector**
For Year Ended	**31 March 2024**

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 this 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		
		Quality of supply expenditure		–
	less	Capital contributions funding quality of supply		
		Quality of supply less capital contributions		–

6a(vii): Legislative and Regulatory

		*Project or programme**	($000)	($000)
		** include additional rows if needed*		
		All other projects or programmes - legislative and regulatory	1,232	
		Legislative and regulatory expenditure		1,232
	less	Capital contributions funding legislative and regulatory		
		Legislative and regulatory less capital contributions		1,232

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	5,772	
		Other reliability, safety and environment expenditure		5,772
	less	Capital contributions funding other reliability, safety and environment		
		Other reliability, safety and environment less capital contributions		5,772

6a(ix): Non-Network Assets

Routine expenditure

		*Project or programme**	($000)	($000)
		** include additional rows if needed*		
		All other projects or programmes - routine expenditure	3,350	
		Routine expenditure		3,350

Atypical expenditure

		*Project or programme**	($000)	($000)
		** include additional rows if needed*		
		All other projects or programmes - atypical expenditure	58,811	
		Atypical expenditure		58,811
		Expenditure on non-network assets		62,161

Company Name	**Vector**
For Year Ended	**31 March 2024**

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 this ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

			($000)	($000)
7	**6b(i): Operational Expenditure** *Required for DY2024 and DY2025 only*			
8	Service interruptions and emergencies		14,055	
9	Vegetation management		7,963	
10	Routine and corrective maintenance and inspection		22,185	
11	Asset replacement and renewal		16,159	
12	**Network opex**			60,362
13	Non-network solutions provided by a related party or third party	*Required for DY2025 only*	–	
14	System operations and network support		48,530	
15	Business support		60,294	
16	**Non-network opex**			108,824
17				
18	**Operational expenditure**			169,186

		($000)	($000)
19	**6b(i): Operational Expenditure** *Not Required before DY2026*		
20	Service interruptions and emergencies:		
21	Vegetation-related		
22	Other		
23	**Total service interruptions and emergencies**	–	
24	Vegetation management:		
25	Assessment and notification costs		
26	Felling or trimming vegetation - in-zone		
27	Felling or trimming vegetation - out-of-zone		
28	Other		
29	**Total vegetation management**	–	
30			
31	Routine and corrective maintenance and inspection:		
32	Asset replacement and renewal		
33	**Network opex**		–
34	Non-network solutions provided by a related party or third party		
35	System operations and network support		
36	Business support		
37	**Non-network opex**		–
38			
39	**Operational expenditure**		–

40	**6b(ii): Subcomponents of Operational Expenditure (where known)**	
41	Energy efficiency and demand side management, reduction of energy losses	
42	Direct billing*	
43	Research and development	
44	Insurance	4,671
45	** Direct billing expenditure by suppliers that directly bill the majority of their consumers*	

KPMG

Company Name	**Vector**
For Year Ended	**31 March 2024**

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 this ID determination), and so is subject to the assurance report required by section 2.8. For the purpose of this audit, target revenue and forecast expenditures only need to be verified back to previous disclosures.

sch ref

		Target ($000) [1]	Actual ($000)	% variance
7	**7(i): Revenue**			
8	Line charge revenue	649,807	662,550	2%
		Forecast ($000) [2]	**Actual ($000)**	**% variance**
9	**7(ii): Expenditure on Assets**			
10	Consumer connection	156,797	122,875	(22%)
11	System growth	103,324	78,774	(24%)
12	Asset replacement and renewal	159,879	186,924	17%
13	Asset relocations	34,593	26,020	(25%)
14	Reliability, safety and environment:			
15	Quality of supply	–	–	–
16	Legislative and regulatory	–	1,232	–
17	Other reliability, safety and environment	25,161	5,772	(77%)
18	**Total reliability, safety and environment**	25,161	7,004	(72%)
19	**Expenditure on network assets**	479,754	421,597	(12%)
20	Expenditure on non-network assets	54,603	62,161	14%
21	Expenditure on assets	534,357	483,758	(9%)
22	**7(iii): Operational Expenditure**			
23	Service interruptions and emergencies	16,087	14,055	(13%)
24	Vegetation management	5,667	7,963	41%
25	Routine and corrective maintenance and inspection	22,637	22,185	(2%)
26	Asset replacement and renewal	15,876	16,159	2%
27	**Network opex**	60,267	60,362	0%
28	Non-network solutions provided by a related party or third party *Not Required before DY2025*	–	–	–
29	System operations and network support	52,084	48,530	(7%)
30	Business support	48,324	60,294	25%
31	**Non-network opex**	100,408	108,824	8%
32	**Operational expenditure**	160,675	169,186	5%
33	**7(iv): Subcomponents of Expenditure on Assets (where known)**			
34	Energy efficiency and demand side management, reduction of energy losses	–	–	–
35	Overhead to underground conversion	12,296	12,820	4%
36	Research and development	–	2,269	–
37				
38	**7(v): Subcomponents of Operational Expenditure (where known)**			
39	Energy efficiency and demand side management, reduction of energy losses	–	–	–
40	Direct billing	–	–	–
41	Research and development	–	–	–
42	Insurance	4,467	4,671	5%
43				

44 *1 From the nominal dollar target revenue for the disclosure year disclosed under clause 2.4.3(3) of this determination*

45 *2 From the CY+1 nominal dollar expenditure forecasts disclosed in accordance with clause 2.6.6 for the forecast period starting at the beginning of the disclosure year (the second to last disclosure of Schedules 11a and 11b)*

Company Name	**Vector**
For Year Ended	**31 March 2024**
Network / Sub-Network Name	**Combined**

SCHEDULE 8: REPORT ON BILLED QUANTITIES AND LINE CHARGE REVENUES

This schedule requires the billed quantities and associated line charge revenues for each price category code used by the EDB in its pricing schedules. Information is also required on the number of ICPs that are included in each consumer group or price category code, and the energy delivered to these ICPs.
EDBs should feel free to adjust the page break of this schedule to assist with readibility if needed.

sch ref

8(i): Billed Quantities by Price Component

Billed quantities by price component — *Not Required after DY2024* (CAPY, DAMD, DEXA, PWRF)

Consumer group name or price category code	Standardised connection types	Standard or non-standard consumer group (specify)	Average no. of ICPs in disclosure year	Energy delivered to ICPs in disclosure year (MWh)	FIXD	AICO	24UC	OFPK (Summer)	PEAK (Summer)	OFPK (Winter)	PEAK (Winter)	CAPY	DAMD	DEXA	PWRF
Unit charging basis (eg, days, kW of demand, kVA of capacity, etc.)					Day	kWh	kWh	kWh	kWh	kWh	kWh	kVA/Day	kVA/Day	kVA/Day	kVAr/Day
ARNLC	residential	Standard	34,989	202,612	12,825,633	202,612,378	–	–	–	–	–	–	–	–	–
ARNSC	residential	Standard	26,575	243,135	9,652,525	243,134,844	–	–	–	–	–	–	–	–	–
ARNLU	residential	Standard	18,153	81,858	6,642,190	–	81,857,612	–	–	–	–	–	–	–	–
ARNSU	residential	Standard	20,252	121,642	7,304,506	–	121,641,908	–	–	–	–	–	–	–	–
ARHLC	residential	Standard	106,208	609,497	40,090,467	–	–	212,108,624	85,535,255	215,448,147	96,404,515	–	–	–	–
ARHSC	residential	Standard	49,417	508,186	16,979,523	–	–	129,504,658	51,314,573	228,230,516	99,136,655	–	–	–	–
ARHLU	residential	Standard	45,281	215,918	16,604,084	–	–	68,078,660	28,753,855	81,281,469	37,804,000	–	–	–	–
ARHSU	residential	Standard	19,758	204,713	7,249,174	–	–	65,730,942	27,845,877	75,979,335	35,156,486	–	–	–	–
ABSU	general	Standard	1,758	15,738	27,100,147	–	15,737,964	–	–	–	–	–	–	–	–
ABSN	general	Standard	22,043	354,978	8,066,605	–	354,978,122	–	–	–	–	–	–	–	–
ABSH	general	Standard	14,670	337,116	5,377,138	–	–	122,353,786	47,318,226	118,120,887	49,323,015	–	–	–	–
ALVN	low voltage	Standard	2,298	225,279	840,102	–	225,278,570	–	–	–	–	123,792,846	–	–	6,670
ALVT	low voltage	Standard	1,573	549,521	575,891	–	549,521,079	–	–	–	–	153,351,741	46,842,549	–	3,486,590
ATXN	transformer	Standard	155	21,806	56,844	–	21,806,347	–	–	–	–	12,890,637	–	–	–
ATXT	transformer	Standard	1,027	1,139,944	375,574	–	1,139,943,807	–	–	–	–	275,507,646	90,849,886	–	3,868,565
AHVN	high voltage	Standard	6	532	2,196	–	531,571	–	–	–	–	468,846	–	–	2,651
AHVT	high voltage	Standard	153	426,496	55,858	–	426,496,057	–	–	–	–	71,065,167	32,364,781	69,502	1,094,794
AZST	zone substation	Standard	2	60,132	732	–	60,131,635	–	–	–	–	10,324,860	5,407,178	68,453	250,366
ASTT	sub transtransmis	Standard	–	–	–	–	–	–	–	–	–	–	–	–	–
WRNLC	residential	Standard	21,690	128,850	7,948,168	128,850,374	–	–	–	–	–	–	–	–	–
WRNSC	residential	Standard	18,652	185,806	6,815,981	185,806,265	–	–	–	–	–	–	–	–	–
WRNLU	residential	Standard	9,619	51,689	3,518,622	–	51,689,387	–	–	–	–	–	–	–	–
WRNSU	residential	Standard	13,310	91,652	4,787,843	–	91,652,048	–	–	–	–	–	–	–	–
WRHLC	residential	Standard	68,710	371,032	25,160,822	–	–	119,972,849	48,207,540	140,127,480	62,724,217	–	–	–	–
WRHSC	residential	Standard	45,282	486,814	16,594,284	–	–	159,825,703	63,450,861	183,636,938	79,900,500	–	–	–	–
WRHLU	residential	Standard	30,501	162,077	11,177,645	–	–	54,845,772	21,966,057	58,041,782	27,223,613	–	–	–	–
WRHSU	residential	Standard	19,324	197,084	7,094,501	–	–	70,222,793	28,017,247	67,145,800	31,698,603	–	–	–	–
WBSU	general	Standard	745	9,852	17,427,906	–	9,851,594	–	–	–	–	–	–	–	–
WBSN	general	Standard	9,972	139,301	3,638,555	–	139,301,146	–	–	–	–	–	–	–	–
WBSH	general	Standard	12,782	240,500	4,689,458	–	–	90,916,101	35,430,664	80,223,372	33,930,302	–	–	–	–
WLVN	low voltage	Standard	826	95,615	301,993	–	95,614,560	–	–	–	–	43,690,904	–	–	–
WLVH	low voltage	Standard	427	158,120	156,868	–	158,119,721	–	–	–	–	37,223,357	13,099,187	–	922,024
WTXN	transformer	Standard	79	15,125	28,835	–	15,124,650	–	–	–	–	6,703,594	–	–	–
WTXH	transformer	Standard	410	409,048	145,018	–	409,047,754	–	–	–	–	100,939,071	32,817,674	–	1,472,100
WHVN	high voltage	Standard	–	–	–	–	–	–	–	–	–	–	–	–	–
WHVH	high voltage	Standard	31	144,901	11,498	–	144,901,449	–	–	–	–	21,893,442	10,563,337	770,135	283,657
WZSH	zone substation	Standard	–	–	–	–	–	–	–	–	–	–	–	–	–
WSTH	sub transtransmis	Standard	–	–	–	–	–	–	–	–	–	–	–	–	–
NS	non-standard	Non-standard	27	547,601	9,882	–	–	–	–	–	–	–	–	–	26,768
Add extra rows for additional consumer groups or price category codes as necessary															
		Standard consumer totals	616,678	8,206,569	269,297,186	760,403,861	4,113,226,981	1,093,559,888	437,840,155	1,248,235,726	553,301,906	857,852,111	231,944,592	908,090	11,387,417
		Non-standard consumer totals	27	547,601	9,882	–	–	–	–	–	–	–	–	–	26,768
		Total for all consumers	616,705	8,754,170	269,307,068	760,403,861	4,113,226,981	1,093,559,888	437,840,155	1,248,235,726	553,301,906	857,852,111	231,944,592	908,090	11,414,185

Billed quantities by price component — *Not Required before DY2025*

	[Select one]		[Select one]		[Select one]		[Select one]	
Standardised price component / EDB defined price component	Distribution billed quantity	Transmission billed quantity	Distribution billed quantity	Transmission billed quantity	Distribution billed quantity	Transmission billed quantity	Distribution billed quantity	Transmission billed quantity
Standard consumer totals	–	–	–	–	–	–	–	–
Non-standard consumer totals	–	–	–	–	–	–	–	–
Total for all consumers	–	–	–	–	–	–	–	–

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

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

Line charge revenues ($000) by price component — *Not Required after DY2024* (CAPY, DAMD, DEXA, PWRF)

Consumer group name or price category code	Standardised connection types	Standard or non-standard consumer group (specify)	Total line charge revenue in disclosure year	Total distribution line charge revenue (*Not Required after DY2024*)	Total transmission line charge revenue (*Not Required after DY2024*)	FIXD	AICO	24UC	OFPK (summer)	PEAK (summer)	OFPK (winter)	PEAK (winter)	CAPY	DAMD	DEXA	PWRF	Total distribution line charge revenue	Total transmission line charge revenue
Rate (eg, $ per day, $ per kWh, etc.)						Day	kWh	kWh	kWh	kWh	kWh	kWh	kVA/Day	kVA/Day	kVA/Day	kVAr/Day		
ARNLC	residential	Standard	$16,685	16,685		$5,748	$10,937	–	–	–	–	–	–	–	–	–	–	–
ARNSC	residential	Standard	$16,276	16,276		$12,305	$3,971	–	–	–	–	–	–	–	–	–		
ARNLU	residential	Standard	$7,469	7,469		$2,977	–	$4,492	–	–	–	–	–	–	–	–		
ARNSU	residential	Standard	$11,445	11,445		$9,458	–	$1,987	–	–	–	–	–	–	–	–		
ARHLC	residential	Standard	$49,891	49,891		$17,968	–	–	$7,985	$3,220	$8,111	$12,607	–	–	–	–		
ARHSC	residential	Standard	$30,878	30,878		$21,646	–	–	–	–	–	$9,232	–	–	–	–		
ARHLU	residential	Standard	$19,285	19,285		$7,442	–	–	$2,624	$1,108	$3,133	$4,978	–	–	–	–		
ARHSU	residential	Standard	$12,660	12,660		$9,386	–	–	–	–	–	$3,274	–	–	–	–		
ABSU	general	Standard	$1,838	1,838		$1,484	–	$354	–	–	–	–	–	–	–	–		
ABSN	general	Standard	$18,010	18,010		$12,212	–	$5,798	–	–	–	–	–	–	–	–		
ABSH	general	Standard	$12,733	12,733		$8,140	–	–	–	–	–	$4,593	–	–	–	–		
ALVN	low voltage	Standard	$17,054	17,054		$1,757	–	$9,513	–	–	–	–	$5,782	–	–	$2		
ALVT	low voltage	Standard	$22,804	22,804		$1,204	–	$7,060	–	–	–	–	$7,163	$6,364	–	$1,013		
ATXN	transformer	Standard	$1,618	1,618		$119	–	$921	–	–	–	–	$578	–	–	–		
ATXT	transformer	Standard	$40,748	40,748		$786	–	$14,646	–	–	–	–	$12,348	$11,844	–	$1,124		
AHVN	high voltage	Standard	$48	48		$5	–	$22	–	–	–	–	$20	–	–	$1		
AHVT	high voltage	Standard	$13,080	13,080		$117	–	$5,480	–	–	–	–	$3,058	$4,052	$55	$318		
AZST	zone substation	Standard	$1,704	1,704		$2	–	$353	–	–	–	–	$1,080	$141	$55	$73		
ASTT	transtransmission	Standard	–	–		–	–	–	–	–	–	–	–	–	–	–		
WRNLC	residential	Standard	$10,775	10,775		$3,610	$7,165	–	–	–	–	–	–	–	–	–		
WRNSC	residential	Standard	$12,018	12,018		$8,943	$3,075	–	–	–	–	–	–	–	–	–		
WRNLU	residential	Standard	$4,472	4,472		$1,598	–	$2,874	–	–	–	–	–	–	–	–		
WRNSU	residential	Standard	$7,799	7,799		$6,282	–	$1,517	–	–	–	–	–	–	–	–		
WRHLC	residential	Standard	$31,838	31,838		$11,427	–	–	$4,686	$1,883	$5,473	$8,369	–	–	–	–		
WRHSC	residential	Standard	$29,313	29,313		$21,773	–	–	–	–	–	$7,540	–	–	–	–		
WRHLU	residential	Standard	$13,976	13,976		$5,077	–	–	$2,142	$858	$2,267	$3,632	–	–	–	–		
WRHSU	residential	Standard	$12,299	12,299		$9,308	–	–	–	–	–	$2,991	–	–	–	–		
WBSU	general	Standard	$1,192	1,192		$967	–	$225	–	–	–	–	–	–	–	–		
WBSN	general	Standard	$7,888	7,888		$5,582	–	$2,306	–	–	–	–	–	–	–	–		
WBSH	general	Standard	$10,396	10,396		$7,194	–	–	–	–	–	$3,202	–	–	–	–		
WLVN	low voltage	Standard	$5,676	5,676		$1,804	–	$1,949	–	–	–	–	$1,923	–	–	–		
WLVH	low voltage	Standard	$6,267	6,267		$1,765	–	$942	–	–	–	–	$1,638	$1,651	–	$271	–	–
WTXN	transformer	Standard	$763	763		$172	–	$308	–	–	–	–	$283	–	–	–	–	–
WTXH	transformer	Standard	$12,741	12,741		$1,632	–	$2,436	–	–	–	–	$4,269	$3,971	–	$433	–	–
WHVN	high voltage	Standard	–	–		–	–	–	–	–	–	–	–	–	–	–	–	–
WHVH	high voltage	Standard	$3,814	3,814		$130	–	$863	–	–	–	–	$888	$1,227	$622	$84	–	–
WZSH	zone substation	Standard	–	–		–	–	–	–	–	–	–	–	–	–	–	–	–
WSTH	transtransmission	Standard	–	–		–	–	–	–	–	–	–	–	–	–	–	–	–
Transmission	retailers	Standard	$177,235	–	177,235												–	–
NS	non-standard	Non-standard	$19,862	9,123	10,739	$8,910	–	–	–	–	–	–	–	–	–	$213	–	–
Add extra rows for additional consumer groups or price category codes as necessary																		
		Standard consumer totals	$642,688	$465,453	$177,235	$200,020	$25,148	$64,046	$17,437	$7,069	$18,984	$60,418	$39,030	$29,250	$732	$3,319	–	–
		Non-standard consumer totals	$19,862	$9,123	$10,739	$8,910	–	–	–	–	–	–	–	–	–	$213	–	–
		Total for all consumers	$662,550	$474,576	$187,974	$208,930	$25,148	$64,046	$17,437	$7,069	$18,984	$60,418	$39,030	$29,250	$732	$3,532	–	–
				Check	**OK**												**Check**	**Error**

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

Line charge revenues ($000) by price component — *Not Required before DY2025*

	[Select one]			[Select one]			[Select one]			[Select one]		
Standardised price component / EDB defined price component	Distribution line charge revenue	Transmission line charge revenue	Total line charge revenue (distribution and transmission)	Distribution line charge revenue	Transmission line charge revenue	Total line charge revenue (distribution and transmission)	Distribution line charge revenue	Transmission line charge revenue	Total line charge revenue (distribution and transmission)	Distribution line charge revenue	Transmission line charge revenue	Total line charge revenue (distribution and transmission)
Standard consumer totals	–	–	–	–	–	–	–	–	–	–	–	–
Non-standard consumer totals	–	–	–	–	–	–	–	–	–	–	–	–
Total for all consumers	–	–	–	–	–	–	–	–	–	–	–	–

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	41

Company Name: **Vector**
For Year Ended: **31 March 2024**
Network / Sub-Network Name: **Southern**

SCHEDULE 8: REPORT ON BILLED QUANTITIES AND LINE CHARGE REVENUES

This schedule requires the billed quantities and associated line charge revenues for each price category code used by the EDB in its pricing schedules. Information is also required on the number of ICPs that are included in each consumer group or price category code, and the energy delivered to these ICPs.
EDBs should feel free to adjust the page break of this schedule to assist with readibility if needed.

sch ref

8(i): Billed Quantities by Price Component

Billed quantities by price component — *Not Required after DY2024*

Consumer group name or price category code	Standardised connection types	Standard or non-standard consumer group (specify)	Average no. of ICPs in disclosure year	Energy delivered to ICPs in disclosure year (MWh)	Price component	FIXD	AICO	24UC	OFPK (Summer)	PEAK (Summer)	OFPK (Winter)	PEAK (Winter)	CAPY	DAMD	DEXA	PWRF
					Unit charging basis (eg, days, kW of demand, kVA of capacity, etc.)	Day	kWh	kWh	kWh	kWh	kWh	kWh	kVA/Day	kVA/Day	kVA/Day	kVAr/Day
ARNLC	residential	Standard	34,989	202,612		12,825,633	202,612,378	–	–	–	–	–	–	–	–	–
ARNSC	residential	Standard	26,575	243,135		9,652,525	243,134,844	–	–	–	–	–	–	–	–	–
ARNLU	residential	Standard	18,153	81,858		6,642,190	–	81,857,612	–	–	–	–	–	–	–	–
ARNSU	residential	Standard	20,252	121,642		7,304,506	–	121,641,908	–	–	–	–	–	–	–	–
ARHLC	residential	Standard	106,208	609,497		40,090,467	–	–	212,108,624	85,535,255	215,448,147	96,404,515	–	–	–	–
ARHSC	residential	Standard	49,417	508,186		16,979,523	–	–	129,504,658	51,314,573	228,230,516	99,136,655	–	–	–	–
ARHLU	residential	Standard	45,281	215,918		16,604,084	–	–	68,078,660	28,753,855	81,281,469	37,804,000	–	–	–	–
ARHSU	residential	Standard	19,758	204,713		7,249,174	–	–	65,730,942	27,845,877	75,979,335	35,156,486	–	–	–	–
ABSU	general	Standard	1,758	15,738		27,100,147	–	15,737,964	–	–	–	–	–	–	–	–
ABSN	general	Standard	22,043	354,978		8,066,605	–	354,978,122	–	–	–	–	–	–	–	–
ABSH	general	Standard	14,670	337,116		5,377,138	–	–	122,353,786	47,318,226	118,120,887	49,323,015	–	–	–	–
ALVN	low voltage	Standard	2,298	225,279		840,102	–	225,278,570	–	–	–	–	123,792,846	–	–	6,670
ALVT	low voltage	Standard	1,573	549,521		575,891	–	549,521,079	–	–	–	–	153,351,741	46,842,549	–	3,486,590
ATXN	transformer	Standard	155	21,806		56,844	–	21,806,347	–	–	–	–	12,890,637	–	–	–
ATXT	transformer	Standard	1,027	1,139,944		375,574	–	1,139,943,807	–	–	–	–	275,507,646	90,849,886	–	3,868,565
AHVN	high voltage	Standard	6	532		2,196	–	531,571	–	–	–	–	468,846	–	–	2,651
AHVT	high voltage	Standard	153	426,496		55,858	–	426,496,057	–	–	–	–	71,065,167	32,364,781	69,502	1,094,794
AZST	zone substation	Standard	2	60,132		732	–	60,131,635	–	–	–	–	10,324,860	5,407,178	68,453	250,366
ASTT	sub transtransmiss	Standard	–	–		–	–	–	–	–	–	–	–	–	–	–
NS	non-standard	Non-standard	23	446,599		8,418	–	–	–	–	–	–	–	–	–	14,054
Add extra rows for additional consumer groups or price category codes as necessary																
		Standard consumer totals	364,318	5,319,103		159,799,189	445,747,222	2,997,924,672	597,776,670	240,767,786	719,060,354	317,824,671	647,401,743	175,464,394	137,955	8,709,636
		Non-standard consumer totals	23	446,599		8,418	–	–	–	–	–	–	–	–	–	14,054
		Total for all consumers	364,341	5,765,702		159,807,607	445,747,222	2,997,924,672	597,776,670	240,767,786	719,060,354	317,824,671	647,401,743	175,464,394	137,955	8,723,690

Billed quantities by price component — *Not Required before DY2025*

Standardised price component	[Select one]		[Select one]		[Select one]		[Select one]	
EDB defined price component								
	Distribution billed quantity	Transmission billed quantity	Distribution billed quantity	Transmission billed quantity	Distribution billed quantity	Transmission billed quantity	Distribution billed quantity	Transmission billed quantity
	–	–	–	–	–	–	–	–
	–	–	–	–	–	–	–	–
	–	–	–	–	–	–	–	–

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

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

Line charge revenues ($000) by price component — *Not Required after DY2024*

Consumer group name or price category code	Standardised connection types	Standard or non-standard consumer group (specify)	Total line charge revenue in disclosure year	Total distribution line charge revenue	Total transmission line charge revenue	Price component	FIXD	AICO	24UC	OFPK (summer)	PEAK (summer)	OFPK (winter)	PEAK (winter)	CAPY	DAMD	DEXA	PWRF
				Not Required after DY2024	*Not Required after DY2024*	Rate (eg, $ per day, $ per kWh, etc.)	Day	kWh	kWh	kWh	kWh	kWh	kWh	kVA/Day	kVA/Day	kVA/Day	kVAr/Day
ARNLC	residential	Standard	$16,685	16,685			$5,748	$10,937	–	–	–	–	–	–	–	–	–
ARNSC	residential	Standard	$16,276	16,276			$12,305	$3,971	–	–	–	–	–	–	–	–	–
ARNLU	residential	Standard	$7,469	7,469			$2,977	–	$4,492	–	–	–	–	–	–	–	–
ARNSU	residential	Standard	$11,445	11,445			$9,458	–	$1,987	–	–	–	–	–	–	–	–
ARHLC	residential	Standard	$49,891	49,891			$17,968	–	–	$7,985	$3,220	$8,111	$12,607	–	–	–	–
ARHSC	residential	Standard	$30,878	30,878			$21,646	–	–	–	–	–	$9,232	–	–	–	–
ARHLU	residential	Standard	$19,285	19,285			$7,442	–	–	$2,624	$1,108	$3,133	$4,978	–	–	–	–
ARHSU	residential	Standard	$12,660	12,660			$9,386	–	–	–	–	–	$3,274	–	–	–	–
ABSU	general	Standard	$1,838	1,838			$1,484	–	$354	–	–	–	–	–	–	–	–
ABSN	general	Standard	$18,010	18,010			$12,212	–	$5,798	–	–	–	–	–	–	–	–
ABSH	general	Standard	$12,733	12,733			$8,140	–	–	–	–	–	$4,593	–	–	–	–
ALVN	low voltage	Standard	$17,054	17,054			$1,757	–	$9,513	–	–	–	–	$5,782	–	–	$2
ALVT	low voltage	Standard	$22,804	22,804			$1,204	–	$7,060	–	–	–	–	$7,163	$6,364	–	$1,013
ATXN	transformer	Standard	$1,618	1,618			$119	–	$921	–	–	–	–	$578	–	–	–
ATXT	transformer	Standard	$40,748	40,748			$786	–	$14,646	–	–	–	–	$12,348	$11,844	–	$1,124
AHVN	high voltage	Standard	$48	48			$5	–	$22	–	–	–	–	$20	–	–	$1
AHVT	high voltage	Standard	$13,080	13,080			$117	–	$5,480	–	–	–	–	$3,058	$4,052	$55	$318
AZST	zone substation	Standard	$1,705	1,705			$3	–	$353	–	–	–	–	$1,080	$141	$55	$73
ASTT	transtransmission	Standard	–	–			–	–	–	–	–	–	–	–	–	–	–
Transmission	retailers	Standard	$116,057	–	116,057		–	–	–	–	–	–	–	–	–	–	–
NS	non-standard	Non-standard	$17,086	7,224	9,862		$7,114	–	–	–	–	–	–	–	–	–	$110
		Standard consumer totals	$410,284	$294,227	$116,057		$112,757	$14,908	$50,626	$10,609	$4,328	$11,244	$34,684	$30,029	$22,401	$110	$2,531
		Non-standard consumer totals	$17,086	$7,224	$9,862		$7,114	–	–	–	–	–	–	–	–	–	$110
		Total for all consumers	$427,370	$301,451	$125,919		$119,871	$14,908	$50,626	$10,609	$4,328	$11,244	$34,684	$30,029	$22,401	$110	$2,641

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

Check: **OK**

Line charge revenues ($000) by price component — *Not Required before DY2025*

Standardised price component	[Select one]			[Select one]			[Select one]			[Select one]		
EDB defined price component												
	Distribution line charge revenue	Transmission line charge revenue	Total line charge revenue (distribution and transmission)	Distribution line charge revenue	Transmission line charge revenue	Total line charge revenue (distribution and transmission)	Distribution line charge revenue	Transmission line charge revenue	Total line charge revenue (distribution and transmission)	Distribution line charge revenue	Transmission line charge revenue	Total line charge revenue (distribution and transmission)
	–	–	–	–	–	–	–	–	–	–	–	–
	–	–	–	–	–	–	–	–	–	–	–	–
	–	–	–	–	–	–	–	–	–	–	–	–

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

Total distribution line charge revenue: – Total transmission line charge revenue: –

Check: **Error**

8(iii): Number of ICPs directly billed

Number of directly billed ICPs at year end: 31

Company Name: **Vector**
For Year Ended: **31 March 2024**
Network / Sub-Network Name: **Northern**

SCHEDULE 8: REPORT ON BILLED QUANTITIES AND LINE CHARGE REVENUES

This schedule requires the billed quantities and associated line charge revenues for each price category code used by the EDB in its pricing schedules. Information is also required on the number of ICPs that are included in each consumer group or price category code, and the energy delivered to these ICPs.
EDBs should feel free to adjust the page break of this schedule to assist with readibility if needed.

sch ref

8(i): Billed Quantities by Price Component

Consumer group name or price category code	Standardised connection types	Standard or non-standard consumer group (specify)	Average no. of ICPs in disclosure year	Energy delivered to ICPs in disclosure year (MWh)
WRNLC	residential	Standard	21,690	128,850
WRNSC	residential	Standard	18,652	185,806
WRNLU	residential	Standard	9,619	51,689
WRNSU	residential	Standard	13,310	91,652
WRHLC	residential	Standard	68,710	371,032
WRHSC	residential	Standard	45,282	486,814
WRHLU	residential	Standard	30,501	162,077
WRHSU	residential	Standard	19,324	197,084
WBSU	general	Standard	745	9,852
WBSN	general	Standard	9,972	139,301
WBSH	general	Standard	12,782	240,500
WLVN	low voltage	Standard	826	95,615
WLVH	low voltage	Standard	427	158,120
WTXN	transformer	Standard	79	15,125
WTXH	transformer	Standard	410	409,048
WHVN	high voltage	Standard	–	–
WHVH	high voltage	Standard	31	144,901
WZSH	zone substation	Standard	–	–
WSTH	sub transtransmis	Standard	–	–
NS	non-standard	Non-standard	4	101,002

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

Standard consumer totals	252,360	2,887,466
Non-standard consumer totals	4	101,002
Total for all consumers	252,364	2,988,468

Billed quantities by price component *Not Required after DY2024*

Price component	FIXD	AICO	24UC	OFPK (Summer)	PEAK (Summer)	OFPK (Winter)	PEAK (Winter)	CAPY	DAMD	DEXA	PWRF
Unit charging basis (eg, days, kW of demand, kVA of capacity, etc.)	Day	kWh	kWh	kWh	kWh	kWh	kWh	kVA/Day	kVA/Day	kVA/Day	kVAr/Day
WRNLC	7,948,168	128,850,374	–	–	–	–	–	–	–	–	–
WRNSC	6,815,981	185,806,265	–	–	–	–	–	–	–	–	–
WRNLU	3,518,622	–	51,689,387	–	–	–	–	–	–	–	–
WRNSU	4,787,843	–	91,652,048	–	–	–	–	–	–	–	–
WRHLC	25,160,822	–	–	119,972,849	48,207,540	140,127,480	62,724,217	–	–	–	–
WRHSC	16,594,284	–	–	159,825,703	63,450,861	183,636,938	79,900,500	–	–	–	–
WRHLU	11,177,645	–	–	54,845,772	21,966,057	58,041,782	27,223,613	–	–	–	–
WRHSU	7,094,501	–	–	70,222,793	28,017,247	67,145,800	31,698,603	–	–	–	–
WBSU	17,427,906	–	9,851,594	–	–	–	–	–	–	–	–
WBSN	3,638,555	–	139,301,146	–	–	–	–	–	–	–	–
WBSH	4,689,458	–	–	90,916,101	35,430,664	80,223,372	33,930,302	–	–	–	–
WLVN	301,993	–	95,614,560	–	–	–	–	43,690,904	–	–	–
WLVH	156,868	–	158,119,721	–	–	–	–	37,223,357	13,099,187	–	922,024
WTXN	28,835	–	15,124,650	–	–	–	–	6,703,594	–	–	–
WTXH	145,018	–	409,047,754	–	–	–	–	100,939,071	32,817,674	–	1,472,100
WHVN	–	–	–	–	–	–	–	–	–	–	–
WHVH	11,498	–	144,901,449	–	–	–	–	21,893,442	10,563,337	770,135	283,657
WZSH	–	–	–	–	–	–	–	–	–	–	–
WSTH	–	–	–	–	–	–	–	–	–	–	–
NS	1,464	–	–	–	–	–	–	–	–	–	12,714
	109,497,997	314,656,639	1,115,302,309	495,783,218	197,072,369	529,175,372	235,477,235	210,450,368	56,480,198	770,135	2,677,781
	1,464	–	–	–	–	–	–	–	–	–	12,714
	109,499,461	314,656,639	1,115,302,309	495,783,218	197,072,369	529,175,372	235,477,235	210,450,368	56,480,198	770,135	2,690,495

Billed quantities by price component *Not Required before DY2025*

Standardised price component	[Select one]		[Select one]		[Select one]		[Select one]	
EDB defined price component								
	Distribution billed quantity	Transmission billed quantity	Distribution billed quantity	Transmission billed quantity	Distribution billed quantity	Transmission billed quantity	Distribution billed quantity	Transmission billed quantity
	–	–	–	–	–	–	–	–
	–	–	–	–	–	–	–	–
	–	–	–	–	–	–	–	–

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

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

Consumer group name or price category code	Standardised connection types	Standard or non-standard consumer group (specify)	Total line charge revenue in disclosure year	Total distribution line charge revenue	Total transmission line charge revenue
				Not Required after DY2024	*Not Required after DY2024*
WRNLC	residential	Standard	$10,775	10,775	
WRNSC	residential	Standard	$12,018	12,018	
WRNLU	residential	Standard	$4,472	4,472	
WRNSU	residential	Standard	$7,799	7,799	
WRHLC	residential	Standard	$31,838	31,838	
WRHSC	residential	Standard	$29,313	29,313	
WRHLU	residential	Standard	$13,976	13,976	
WRHSU	residential	Standard	$12,299	12,299	
WBSU	general	Standard	$1,192	1,192	
WBSN	general	Standard	$7,888	7,888	
WBSH	general	Standard	$10,396	10,396	
WLVN	low voltage	Standard	$5,676	5,676	
WLVH	low voltage	Standard	$6,267	6,267	
WTXN	transformer	Standard	$763	763	
WTXH	transformer	Standard	$12,741	12,741	
WHVN	high voltage	Standard	–	–	
WHVH	high voltage	Standard	$3,813	3,813	
WZSH	zone substation	Standard	–	–	
WSTH	transtransmissio	Standard	–	–	
Transmission	retailers	Standard	$61,178	–	61,178
NS	non-standard	Non-standard	$2,776	1,899	877

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

Standard consumer totals	$232,404	$171,226	$61,178
Non-standard consumer totals	$2,776	$1,899	$877
Total for all consumers	$235,180	$173,125	$62,055

Check OK

Line charge revenues ($000) by price component *Not Required after DY2024*

Price component	FIXD	AICO	24UC	OFPK (summer)	PEAK (summer)	OFPK (winter)	PEAK (winter)	CAPY	DAMD	DEXA	PWRF
Rate (eg, 5 per day, 5 per kWh, etc.)	Day	kWh	kWh	kWh	kWh	kWh	kWh	kVA/Day	kVA/Day	kVA/Day	kVAr/Day
WRNLC	$3,610	$7,165	–	–	–	–	–	–	–	–	–
WRNSC	$8,943	$3,075	–	–	–	–	–	–	–	–	–
WRNLU	$1,598	–	$2,874	–	–	–	–	–	–	–	–
WRNSU	$6,282	–	$1,517	–	–	–	–	–	–	–	–
WRHLC	$11,427	–	–	$4,686	$1,883	$5,473	$8,369	–	–	–	–
WRHSC	$21,773	–	–	–	–	–	$7,540	–	–	–	–
WRHLU	$5,077	–	–	$2,142	$858	$2,267	$3,632	–	–	–	–
WRHSU	$9,308	–	–	–	–	–	$2,991	–	–	–	–
WBSU	$967	–	$225	–	–	–	–	–	–	–	–
WBSN	$5,582	–	$2,306	–	–	–	–	–	–	–	–
WBSH	$7,194	–	–	–	–	–	$3,202	–	–	–	–
WLVN	$1,804	–	$1,949	–	–	–	–	$1,923	–	–	–
WLVH	$1,765	–	$942	–	–	–	–	$1,638	$1,651	–	$271
WTXN	$172	–	$308	–	–	–	–	$283	–	–	–
WTXH	$1,632	–	$2,436	–	–	–	–	$4,269	$3,971	–	$433
WHVN	–	–	–	–	–	–	–	–	–	–	–
WHVH	$129	–	$863	–	–	–	–	$888	$1,227	$622	$84
WZSH	–	–	–	–	–	–	–	–	–	–	–
WSTH	–	–	–	–	–	–	–	–	–	–	–
Transmission	–	–	–	–	–	–	–	–	–	–	–
NS	$1,796	–	–	–	–	–	–	–	–	–	$103
	$87,263	$10,240	$13,420	$6,828	$2,741	$7,740	$25,734	$9,001	$6,849	$622	$788
	$1,796	–	–	–	–	–	–	–	–	–	$103
	$89,059	$10,240	$13,420	$6,828	$2,741	$7,740	$25,734	$9,001	$6,849	$622	$891

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

Total distribution line charge revenue | **Total transmission line charge revenue** *Not Required before DY2025*

–	–
–	–
–	–
–	–

Check Error

Line charge revenues ($000) by price c *Not Required before DY2025*

Standardised price component	[Select one]			[Select one]			[Select one]			[Select one]		
EDB defined price component												
	Distribution line charge revenue	Transmission line charge revenue	Total line charge revenue (distribution and transmission)	Distribution line charge revenue	Transmission line charge revenue	Total line charge revenue (distribution and transmission)	Distribution line charge revenue	Transmission line charge revenue	Total line charge revenue (distribution and transmission)	Distribution line charge revenue	Transmission line charge revenue	Total line charge revenue (distribution and transmission)
	–	–	–	–	–	–	–	–	–	–	–	–
	–	–	–	–	–	–	–	–	–	–	–	–
	–	–	–	–	–	–	–	–	–	–	–	–

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

Company Name	**Vector**
For Year Ended	**31 March 2024**
Network / Sub-network Name	**Combined**

SCHEDULE 9a: ASSET REGISTER

This schedule requires a summary of the quantity of assets that make up the network, by asset category and asset class. All units relating to cable and line assets, that are expressed in km, refer to circuit lengths.

sch ref

9a: Asset Register

8	Voltage	Asset category	Asset class	Units	Items at start of year (quantity)	Items at end of year (quantity)	Net change	Data accuracy (1–4)
9	All	Overhead Line	Concrete poles / steel structure	No.	119,152	118,905	(247)	3
10	All	Overhead Line	Wood poles	No.	5,213	4,816	(397)	2
11	All	Overhead Line	Other pole types	No.	1,343	1,423	80	3
12	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	362	369	7	4
13	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km	27	27	(0)	4
14	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km	380	400	20	4
15	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km	145	145	(0)	4
16	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressurised)	km	–	–	–	N/A
17	HV	Subtransmission Cable	Subtransmission UG up to 66kV (PILC)	km	22	22	(0)	4
18	HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	km	31	31	(0)	4
19	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Oil pressurised)	km	17	17	–	4
20	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Gas Pressurised)	km	–	–	–	N/A
21	HV	Subtransmission Cable	Subtransmission UG 110kV+ (PILC)	km	–	–	–	N/A
22	HV	Subtransmission Cable	Subtransmission submarine cable	km	12	12	(0)	4
23	HV	Zone substation Buildings	Zone substations up to 66kV	No.	104	107	3	4
24	HV	Zone substation Buildings	Zone substations 110kV+	No.	7	7	–	4
25	HV	Zone substation switchgear	50/66/110kV CB (Indoor)	No.	22	22	–	4
26	HV	Zone substation switchgear	50/66/110kV CB (Outdoor)	No.	2	2	–	4
27	HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No.	–	–	–	N/A
28	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.	157	152	(5)	4
29	HV	Zone substation switchgear	33kV RMU	No.	6	6	–	4
30	HV	Zone substation switchgear	22/33kV CB (Indoor)	No.	298	314	16	4
31	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.	107	105	(2)	4
32	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.	1,409	1,404	(5)	4
33	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.	–	–	–	N/A
34	HV	Zone Substation Transformer	Zone Substation Transformers	No.	224	234	10	4
35	HV	Distribution Line	Distribution OH Open Wire Conductor	km	3,717	3,699	(18)	4
36	HV	Distribution Line	Distribution OH Aerial Cable Conductor	km	–	–	–	N/A
37	HV	Distribution Line	SWER conductor	km	–	–	–	N/A
38	HV	Distribution Cable	Distribution UG XLPE or PVC	km	1,744	1,800	56	4
39	HV	Distribution Cable	Distribution UG PILC	km	2,168	2,157	(10)	4
40	HV	Distribution Cable	Distribution Submarine Cable	km	8	8	0	4
41	HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers	No.	341	338	(3)	4
42	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.	386	403	17	3
43	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	11,880	12,147	267	3
44	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	3,000	2,827	(173)	3
45	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.	6,461	6,613	152	4
46	HV	Distribution Transformer	Pole Mounted Transformer	No.	7,596	7,535	(61)	4
47	HV	Distribution Transformer	Ground Mounted Transformer	No.	15,128	15,287	159	4
48	HV	Distribution Transformer	Voltage regulators	No.	15	17	2	4
49	HV	Distribution Substations	Ground Mounted Substation Housing	No.	14,269	14,545	276	3
50	LV	LV Line	LV OH Conductor	km	4,121	4,098	(23)	3
51	LV	LV Cable	LV UG Cable	km	6,714	6,809	95	4
52	LV	LV Street lighting	LV OH/UG Streetlight circuit	km	503	502	(1)	3
53	LV	Connections	OH/UG consumer service connections	No.	609,550	621,983	12,433	4
54	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.	4,600	4,758	158	3
55	All	SCADA and communications	SCADA and communications equipment operating as a single system	Lot	406	431	25	3
56	All	Capacitor Banks	Capacitors including controls	No	66	60	(6)	4
57	All	Load Control	Centralised plant	Lot	32	32	–	3
58	All	Load Control	Relays	No	–	–	–	N/A
59	All	Civils	Cable Tunnels	km	10	10	–	3

Company Name	**Vector**
For Year Ended	**31 March 2024**
Network / Sub-network Name	**Southern**

SCHEDULE 9a: ASSET REGISTER

This schedule requires a summary of the quantity of assets that make up the network, by asset category and asset class. All units relating to cable and line assets, that are expressed in km, refer to circuit lengths.

sch ref

9a: Asset Register

8	Voltage	Asset category	Asset class	Units	Items at start of year (quantity)	Items at end of year (quantity)	Net change	Data accuracy (1–4)
9	All	Overhead Line	Concrete poles / steel structure	No.	51,198	50,911	(287)	2
10	All	Overhead Line	Wood poles	No.	3,252	3,008	(244)	2
11	All	Overhead Line	Other pole types	No.	503	516	13	3
12	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	48	48	(0)	4
13	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km	–	–	–	N/A
14	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km	232	233	0	4
15	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km	143	143	(0)	4
16	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressurised)	km	–	–	–	N/A
17	HV	Subtransmission Cable	Subtransmission UG up to 66kV (PILC)	km	22	22	(0)	4
18	HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	km	31	31	(0)	4
19	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Oil pressurised)	km	17	17	–	4
20	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Gas Pressurised)	km	–	–	–	N/A
21	HV	Subtransmission Cable	Subtransmission UG 110kV+ (PILC)	km	–	–	–	N/A
22	HV	Subtransmission Cable	Subtransmission submarine cable	km	11	11	0	4
23	HV	Zone substation Buildings	Zone substations up to 66kV	No.	51	52	1	4
24	HV	Zone substation Buildings	Zone substations 110kV+	No.	5	5	–	4
25	HV	Zone substation switchgear	50/66/110kV CB (Indoor)	No.	22	22	–	4
26	HV	Zone substation switchgear	50/66/110kV CB (Outdoor)	No.	–	–	–	N/A
27	HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No.	–	–	–	N/A
28	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.	–	–	–	N/A
29	HV	Zone substation switchgear	33kV RMU	No.	–	–	–	N/A
30	HV	Zone substation switchgear	22/33kV CB (Indoor)	No.	154	154	–	4
31	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.	–	–	–	N/A
32	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.	869	858	(11)	4
33	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.	–	–	–	N/A
34	HV	Zone Substation Transformer	Zone Substation Transformers	No.	130	134	4	4
35	HV	Distribution Line	Distribution OH Open Wire Conductor	km	875	869	(6)	3
36	HV	Distribution Line	Distribution OH Aerial Cable Conductor	km	–	–	–	N/A
37	HV	Distribution Line	SWER conductor	km	–	–	–	N/A
38	HV	Distribution Cable	Distribution UG XLPE or PVC	km	790	816	26	4
39	HV	Distribution Cable	Distribution UG PILC	km	1,569	1,561	(8)	4
40	HV	Distribution Cable	Distribution Submarine Cable	km	2	2	0	4
41	HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers	No.	86	87	1	4
42	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.	275	288	13	3
43	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	2,772	2,840	68	3
44	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	2,181	2,053	(128)	3
45	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.	4,768	4,839	71	4
46	HV	Distribution Transformer	Pole Mounted Transformer	No.	1,950	1,921	(29)	4
47	HV	Distribution Transformer	Ground Mounted Transformer	No.	7,326	7,395	69	4
48	HV	Distribution Transformer	Voltage regulators	No.	8	8	–	4
49	HV	Distribution Substations	Ground Mounted Substation Housing	No.	6,400	6,495	95	3
50	LV	LV Line	LV OH Conductor	km	1,899	1,878	(21)	3
51	LV	LV Cable	LV UG Cable	km	3,988	4,033	45	4
52	LV	LV Street lighting	LV OH/UG Streetlight circuit	km	271	271	(1)	4
53	LV	Connections	OH/UG consumer service connections	No.	360,085	367,707	7,622	4
54	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.	2,397	2,425	28	3
55	All	SCADA and communications	SCADA and communications equipment operating as a single system	Lot	209	216	7	3
56	All	Capacitor Banks	Capacitors including controls	No	9	5	(4)	4
57	All	Load Control	Centralised plant	Lot	21	21	–	3
58	All	Load Control	Relays	No	–	–	–	N/A
59	All	Civils	Cable Tunnels	km	10	10	–	3

Company Name	**Vector**
For Year Ended	**31 March 2024**
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

9a: Asset Register

8	Voltage	Asset category	Asset class	Units	Items at start of year (quantity)	Items at end of year (quantity)	Net change	Data accuracy (1–4)
9	All	Overhead Line	Concrete poles / steel structure	No.	67,954	67,994	40	4
10	All	Overhead Line	Wood poles	No.	1,961	1,808	(153)	3
11	All	Overhead Line	Other pole types	No.	840	907	67	3
12	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	314	321	7	4
13	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km	27	27	(0)	4
14	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km	148	167	19	4
15	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km	2	2	(0)	4
16	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressurised)	km	–	–	–	N/A
17	HV	Subtransmission Cable	Subtransmission UG up to 66kV (PILC)	km	0	0	0	4
18	HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	km	–	–	–	N/A
19	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Oil pressurised)	km	–	–	–	N/A
20	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Gas Pressurised)	km	–	–	–	N/A
21	HV	Subtransmission Cable	Subtransmission UG 110kV+ (PILC)	km	–	–	–	N/A
22	HV	Subtransmission Cable	Subtransmission submarine cable	km	1	1	(0)	4
23	HV	Zone substation Buildings	Zone substations up to 66kV	No.	53	55	2	4
24	HV	Zone substation Buildings	Zone substations 110kV+	No.	2	2	–	4
25	HV	Zone substation switchgear	50/66/110kV CB (Indoor)	No.	–	–	–	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.	–	–	–	N/A
28	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.	157	152	(5)	4
29	HV	Zone substation switchgear	33kV RMU	No.	6	6	–	4
30	HV	Zone substation switchgear	22/33kV CB (Indoor)	No.	144	160	16	4
31	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.	107	105	(2)	4
32	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.	540	546	6	4
33	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.	–	–	–	N/A
34	HV	Zone Substation Transformer	Zone Substation Transformers	No.	94	100	6	4
35	HV	Distribution Line	Distribution OH Open Wire Conductor	km	2,842	2,831	(12)	4
36	HV	Distribution Line	Distribution OH Aerial Cable Conductor	km	–	–	–	N/A
37	HV	Distribution Line	SWER conductor	km	–	–	–	N/A
38	HV	Distribution Cable	Distribution UG XLPE or PVC	km	954	984	30	4
39	HV	Distribution Cable	Distribution UG PILC	km	599	596	(2)	4
40	HV	Distribution Cable	Distribution Submarine Cable	km	6	6	(0)	4
41	HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers	No.	255	251	(4)	4
42	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.	111	115	4	4
43	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	9,108	9,307	199	3
44	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	819	774	(45)	3
45	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.	1,693	1,774	81	4
46	HV	Distribution Transformer	Pole Mounted Transformer	No.	5,646	5,614	(32)	4
47	HV	Distribution Transformer	Ground Mounted Transformer	No.	7,802	7,892	90	4
48	HV	Distribution Transformer	Voltage regulators	No.	7	9	2	4
49	HV	Distribution Substations	Ground Mounted Substation Housing	No.	7,869	8,050	181	3
50	LV	LV Line	LV OH Conductor	km	2,222	2,220	(2)	3
51	LV	LV Cable	LV UG Cable	km	2,725	2,775	50	4
52	LV	LV Street lighting	LV OH/UG Streetlight circuit	km	232	231	(0)	3
53	LV	Connections	OH/UG consumer service connections	No.	249,465	254,276	4,811	4
54	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.	2,203	2,333	130	3
55	All	SCADA and communications	SCADA and communications equipment operating as a single system	Lot	197	215	18	3
56	All	Capacitor Banks	Capacitors including controls	No	57	55	(2)	4
57	All	Load Control	Centralised plant	Lot	11	11	–	4
58	All	Load Control	Relays	No	–	–	–	N/A
59	All	Civils	Cable Tunnels	km	–	–	–	N/A

Company Name: **Vector**
For Year Ended: **31 March 2024**
Network / Sub-network Name: **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.

sch ref

9b: Asset Age Profile

8 **Disclosure Year (year ended)**

Number of assets at disclosure year end by installation date

9	Voltage	Asset category	Asset class	Units	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	No. with age unknown	Items at end of year	No. with default dates	Data accuracy (1–4)
10	All	Overhead Line	Concrete poles / steel structure	No.	8	243	4,375	13,371	13,996	14,499	9,224	586	713	885	730	296	1,010	1,843	2,075	2,073	2,084	1,592	1,135	1,370	1,883	1,746	1,838	2,569	3,416	4,719	3,937	4,103	3,189	2,800	2,454	2,365		11,778	118,905		3
11	All	Overhead Line	Wood poles	No.	5	6	89	272	376	512	679	140	46	64	68	24	56	112	110	79	59	96	13	25	28	23	15	7	3	19	20	43	83	32	23	25		1,664	4,816		2
12	All	Overhead Line	Other pole types	No.				–	3	4	11	90	2			1				1			1		5	10	18	44	178	262	136	204	148	74	59	132		40	1,423		3
13	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	2	2	24	72	159	70	1				1		1	6	2	1	16	1	7		0	0	2	1	0			0				1		0	369		4
14	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km				7	12										7					0				0											27		4
15	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km			0		12	5	55	55	1	21	6	1	5	7	33	7	25	19	4	10	7	3	16	16	13	6	3	5	25	8	7	27		0	400		4
16	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km				39	71	24	7		0	0		0	1	1	1		0	0			0				0										145		4
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						0			1																			22		4
19	HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	km							8			18			1			0			2		0								1		0				31		4
20	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Oil pressurised)	km				11		5	0	0					1	0																					17		4
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																												12		4
24	HV	Zone substation Buildings	Zone substations up to 66kV	No.		1	2	22	24	17	9	3	1		2			1	1	1	2	2	5	2		2	2	2			1	1	1			3			107		4
25	HV	Zone substation Buildings	Zone substations 110kV+	No.					2	4	1																												7		4
26	HV	Zone substation switchgear	50/66/110kV CB (Indoor)	No.							9																11							1	1				22		4
27	HV	Zone substation switchgear	50/66/110kV CB (Outdoor)	No.							2																												2		4
28	HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No.																																			–		
29	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.			26	65	31	7								1	2	8	2		2		1		1		3					2		1			152		4
30	HV	Zone substation switchgear	33kV RMU	No.											3		2													1									6		4
31	HV	Zone substation switchgear	22/33kV CB (Indoor)	No.					13	22	9		10		4		9		6	32	11			6		35	24	52	11		9	5	1	14	29	12			314		4
32	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.			5	17	12	25	2		1		1		1	1	2	7	18	3	4		1			2	1							2			105		4
33	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.			7	92	132	210	99	11	6		6		7	10	33	90	59	39	34	25	49	29	17	53	97	37	44	44	46	28	55	45			1,404		4
34	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.																																			–		
35	HV	Zone Substation Transformer	Zone Substation Transformers	No.			2	36	46	33	27	4	1	2	1	1		1	3	3	6	5	8	5	1	2	7	4	4		2	4	5	2	8	11			234		4
36	HV	Distribution Line	Distribution OH Open Wire Conductor	km	0	4	134	520	956	1,331	285	91	10	6	11	3	20	51	81	30	30	10	7	5	7	7	8	5	7	4	6	15	8	6	9	14		17	3,699		4
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	17	34	163	33	37	29	20	7	99	133	109	64	104	61	68	41	48	64	62	67	65	77	65	57	64	69	70	63		4	1,800		4
40	HV	Distribution Cable	Distribution UG PILC	km	12	4	23	188	610	680	506	34	12	4	1	0	17	13	26	13	8	2	1	0	0	0	1	0		0	0	0	0	0	0	0		1	2,157		4
41	HV	Distribution Cable	Distribution Submarine Cable	km			6	0	1		1																									0		0	8		4
42	HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers	No.							1							6	29	65	38	4		6	8			4	2		15	36	65	12	11	36			338		4
43	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.			2		4	6	4		11		4	1	6	2	13	1	11	9	10	3	26	8	9	18	30	10	36	36	21	46	29	20		27	403		3
44	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	2		8	175	785	1,419	1,181	239	140	113	121	36	190	237	249	239	263	142	94	145	244	303	383	466	551	436	484	607	580	597	502	587		629	12,147		3
45	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	5		1	240	643	570	380	65	60	58	51	52	72	69	48	26	42	39	37	47	28	39	20	23	20	13	17	30	19	17	29	22		45	2,827		3
46	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.	4		3	160	594	990	528	71	58	71	129	104	130	86	80	69	44	81	103	106	158	114	173	188	237	295	320	368	292	326	371	348		12	6,613		4
47	HV	Distribution Transformer	Pole Mounted Transformer	No.	8	21	102	186	464	1,010	1,073	229	98	148	120	10	205	198	293	235	256	197	109	197	156	185	195	169	201	246	256	233	144	126	253	209		3	7,535		4
48	HV	Distribution Transformer	Ground Mounted Transformer	No.	5	27	106	629	1,630	2,017	2,054	253	259	228	197	20	563	436	521	326	308	263	305	250	315	373	341	298	364	455	445	465	358	440	537	497		2	15,287		4
49	HV	Distribution Transformer	Voltage regulators	No.							3								2				1	3	2	1									3	2			17		4
50	HV	Distribution Substations	Ground Mounted Substation Housing	No.	13	60	177	1,301	3,034	3,437	2,066	169	195	89	69	17	375	85	135	76	76	50	46	63	107	162	179	193	191	172	205	256	185	259	304	325		474	14,545		3
51	LV	LV Line	LV OH Conductor	km	1	3	108	514	992	1,707	152	126	6	6	11	3	16	26	55	14	16	8	11	11	10	9	10	9	16	27	28	41	31	23	16	24		68	4,098		3
52	LV	LV Cable	LV UG Cable	km	4	18	41	432	1,068	1,051	1,253	117	93	53	44	7	203	284	182	88	123	74	67	49	69	100	124	130	134	162	153	136	116	148	139	125		21	6,809		4
53	LV	LV Street lighting	LV OH/UG Streetlight circuit	km	2	1	9	23	45	52	85	9	7	4	2	1	14	16	17	12	17	7	18	9	8	16	12	21	17	13	13	11	13	14	9	0		3	502		3
54	LV	Connections	OH/UG consumer service connections	No.	2	1	49	6	26,454	159,409	102,456	15,898	23,042	8,264	7,730	10,880	13,231	18,091	22,112	18,811	12,829	9,015	8,718	8,842	8,424	10,143	11,547	11,887	13,370	11,324	10,854	10,009	13,002	13,465	13,868	28,246		4	621,983		4
55	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.			3	73	318	238	154	30	17	7	10	11	47	89	92	200	280	185	138	51	256	70	177	178	232	90	225	220	316	212	188	415		236	4,758		3
56	All	SCADA and communications	SCADA and communications equipment operating as a single syst	Lot							3					4	3	4	20	11	10	14	7	14	24	2	3	33	57	21	24	21	22	18	26	25		65	431		3
57	All	Capacitor Banks	Capacitors including controls	No							3	36			1			2				1			9			4					3	1					60		4
58	All	Load Control	Centralised plant	Lot				8	1	4	11						1		1	3														2				1	32		3
59	All	Load Control	Relays	No																																			–		
60	All	Civils	Cable Tunnels	km								0		9			0								0													1	10		3

Company Name	**Vector**
For Year Ended	**31 March 2024**
Network / Sub-network Name	**Southern**

SCHEDULE 9b: ASSET AGE PROFILE

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

sch ref

9b: Asset Age Profile

		Disclosure Year (year ended)			Number of assets at disclosure year end by installation date																																						
	Voltage	Asset category	Asset class	Units	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	No. with age unknown	Items at end of year	No. with default dates	Data accuracy (1–4)
10	All	Overhead Line	Concrete poles / steel structure	No.	4		139	4,028	707	2,469	3,554	228	450	638	515	180	798	1,383	1,627	1,542	1,271	1,122	838	980	1,170	1,003	878	1,393	1,762	2,345	2,135	1,809	1,362	1,256	840	840		11,645	50,911		2
11	All	Overhead Line	Wood poles	No.				128	79	80	363	129	35	22	51	19	42	71	50	41	20	20	12	7	11	4	1		1	14	13	30	66	20	14	15		1,650	3,008		2
12	All	Overhead Line	Other pole types	No.																			1			2	7	26	144	168	48	32	3	10	19	23		33	516		3
13	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km					34						1					0	5		6			0	2											0	48		4
14	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km																																			–		
15	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km					0	2	32	48	1	20	5	0	1	1	15	1	3	17	0	9	5	2	14	13	9	2	1	4	23	0	4	0		0	233		4
16	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km				38	70	24	7		0	0		0	1	1	1		0	0			0				0										143		4
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						0			1																			22		4
19	HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	km	1					8				18			1			0			2		0								1		0			31		4
20	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Oil pressurised)	km				11		5	0	0					1	0																				17		4
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						11																													11		4
24	HV	Zone substation Buildings	Zone substations up to 66kV	No.		1	2	11	15	7	4	3			1			1	1			1	2					1				1				1		52		4
25	HV	Zone substation Buildings	Zone substations 110kV+	No.					1	4																													5		4
26	HV	Zone substation switchgear	50/66/110kV CB (Indoor)	No.							9																11							1	1				22		4
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.																																			–		
30	HV	Zone substation switchgear	33kV RMU	No.																																			–		
31	HV	Zone substation switchgear	22/33kV CB (Indoor)	No.					13	22	9		10					–		8	9			6		6	17	39	2				1			12		154		4
32	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.																																			–		
33	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.				66	75	155	59	11						8	23	37	31	13	27	16	25	12	6	26	59	23	43	44	26	3	32	38			858		4
34	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.																																			–		
35	HV	Zone Substation Transformer	Zone Substation Transformers	No.			1	22	29	17	19	4		1	1			1		3		5	5	4		1	3	3	1		2	1	1	1	2	7			134		4
36	HV	Distribution Line	Distribution OH Open Wire Conductor	km	0			0	64	595	34	83	2	4	9	1	6	6	12	11	5	3	3	3	1	1	0	0	2	0	2	3	3	1	1	5		9	869		3
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	0			2	12	12	18	6	17	14	13	3	67	53	63	31	31	32	37	23	25	39	28	34	30	31	39	28	33	28	34	30		2	816		4
40	HV	Distribution Cable	Distribution UG PILC	km	12	4	23	172	498	426	319	26	11	3	1	0	13	10	23	11	5	2	1		0	0		0		0		0		0	0		1	1,561		4
41	HV	Distribution Cable	Distribution Submarine Cable	km					1		1																									0			2		4
42	HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers	No.							1							6	12	11	3	2		2	1			1			5	12	25	2	1	3			87		4
43	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.			2		3	3	4		11		4	1	5	1	13	1	4	8	8	3	25	8	8	11	16	4	25	32	20	11	15	15		27	288		3
44	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	1			3	31	375	90	71	33	29	35		68	49	70	75	35	31	29	52	113	136	98	111	121	97	113	159	169	134	106	169		237	2,840		3
45	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	5			222	605	468	225	35	41	21	29	27	42	40	27	14	22	14	24	25	12	20	12	11	9	8	12	17	12	7	18	10		19	2,053		3
46	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.	4		3	159	594	914	390	44	37	45	86	66	95	59	52	43	32	37	72	60	122	76	104	115	127	159	217	256	212	203	232	212		12	4,839		4
47	HV	Distribution Transformer	Pole Mounted Transformer	No.				25	93	163	202	89	27	65	54		46	43	81	88	82	66	32	66	56	69	69	39	62	69	70	63	37	40	58	65		2	1,921		4
48	HV	Distribution Transformer	Ground Mounted Transformer	No.			2	68	942	1,334	1,226	121	143	103	98	1	157	176	262	155	115	87	109	121	176	184	158	126	149	157	198	252	187	193	216	177		2	7,395		4
49	HV	Distribution Transformer	Voltage regulators	No.							3													2											3			8		4
50	HV	Distribution Substations	Ground Mounted Substation Housing	No.	2	1	2	164	1,381	2,094	1,078	70	86	46	37	11	139	43	79	36	37	20	18	32	47	63	61	53	24	37	71	92	51	64	96	118		342	6,495		3
51	LV	LV Line	LV OH Conductor	km	0			2	223	1,301	86	104	5	5	10	2	7	4	7	5	5	3	4	4	5	4	3	3	3	3	2	4	6	7	5	8		46	1,878		3
52	LV	LV Cable	LV UG Cable	km	3	16	32	229	660	771	758	54	65	34	34	3	157	116	114	50	63	53	36	26	38	52	55	64	52	69	71	69	68	84	65	60		15	4,033		4
53	LV	LV Street lighting	LV OH/UG Streetlight circuit	km	2	0	8	14	27	33	50	3	5	3	2	0	12	11	13	9	9	4	6	4	4	4	4	9	7	6	6	4	3	5	4	0		1	271		4
54	LV	Connections	OH/UG consumer service connections	No.	2	1	1	3	5,389	127,520	29,046	12,805	18,756	5,074	4,191	6,907	8,735	13,408	15,801	12,495	7,601	4,966	4,568	4,870	4,530	5,156	5,823	6,012	6,781	5,712	6,131	5,741	8,052	7,609	7,637	16,380		4	367,707		4
55	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.				41	174	117	73	29	13	3	2	4	1	73	27	89	134	96	64	29	94	38	96	122	126	26	174	137	151	91	87	200		114	2,425		3
56	All	SCADA and communications	SCADA and communications equipment operating as a single syst	Lot							1					4		4	9	6	9	7	4	8	11	2	3	21	34	11	12	13	8	8	5	11		25	216		3
57	All	Capacitor Banks	Capacitors including controls	No							3	–																1					1					5		4
58	All	Load Control	Centralised plant	Lot						2	11						1		1	3														2				1	21		3
59	All	Load Control	Relays	No																																			–		
60	All	Civils	Cable Tunnels	km								0		9			0								0														1	10		3

Company Name	**Vector**
For Year Ended	**31 March 2024**
Network / Sub-network Name	**Northern**

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.

sch ref

9b: Asset Age Profile

						Disclosure Year (year ended)	Number of assets at disclosure year end by installation date																																
	Voltage	Asset category	Asset class	Units	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	No. with age unknown	Items at end of year	No. with default dates	Data accuracy (1–4)
10	All	Overhead Line	Concrete poles / steel structure	No.	4	243	4,236	9,343	13,289	12,030	5,670	358	263	247	215	116	212	460	448	531	813	470	297	390	713	743	960	1,176	1,654	2,374	1,802	2,294	1,827	1,544	1,614	1,525		133	67,994		4
11	All	Overhead Line	Wood poles	No.	5	6	89	144	297	432	316	11	11	42	17	5	14	41	60	38	39	76	1	18	17	19	14	7	2	5	7	13	17	12	9	10		14	1,808		3
12	All	Overhead Line	Other pole types	No.				–	3	4	11	90	2			1				1				5	8	11	18	34	94	88	172	145	64	40	109		7	907		3
13	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	2	2	24	72	125	70	1				0		1	6	2	1	11	1	2		0			1	0			0				1		0	321		4
14	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km				7	12										7					0				0										27		4
15	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km			0		12	3	23	7	0	1	1	1	4	6	18	6	22	2	3	1	3	1	2	3	4	4	2	1	1	8	3	27		0	167		4
16	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km				0	1																													2		4
17	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressurised)	km																																		–		
18	HV	Subtransmission Cable	Subtransmission UG up to 66kV (PILC)	km					0	0																												0		4
19	HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	km																																		–		
20	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Oil pressurised)	km																																		–		
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		0	0																											1		4
24	HV	Zone substation Buildings	Zone substations up to 66kV	No.				11	9	10	5		1		1					1	2	1	3	2		2	2	1			1		1			2		55		4
25	HV	Zone substation Buildings	Zone substations 110kV+	No.					1		1																											2		4
26	HV	Zone substation switchgear	50/66/110kV CB (Indoor)	No.																																		–		
27	HV	Zone substation switchgear	50/66/110kV CB (Outdoor)	No.							2																											2		4
28	HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No.																																		–		
29	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.			26	65	31	7								1	2	8	2		2		1		1		3				2		1			152		4
30	HV	Zone substation switchgear	33kV RMU	No.											3		2														1							6		4
31	HV	Zone substation switchgear	22/33kV CB (Indoor)	No.											4		9		6	24	2					29	7	13	9		9	5		14	29			160		4
32	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.			5	17	12	25	2		1		1		1	1	2	7	18	3	4		1			2	1						2			105		4
33	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.			7	26	57	55	40		6		6		7	2	10	53	28	26	7	9	24	17	11	27	38	14	1		20	25	23	7			546		4
34	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.																																		–		
35	HV	Zone Substation Transformer	Zone Substation Transformers	No.			1	14	17	16	8		1	1		1			3		6		3	1	1	1	4	1	3			3	4	1	6	4			100		4
36	HV	Distribution Line	Distribution OH Open Wire Conductor	km		4	134	520	892	737	251	8	8	2	2	2	15	45	69	18	26	7	5	3	6	6	8	5	5	4	4	12	5	5	8	10		8	2,831		4
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	0	5	21	145	27	20	15	7	4	32	80	46	32	73	28	30	18	24	26	34	33	35	47	26	30	31	41	36	33		3	984		4
40	HV	Distribution Cable	Distribution UG PILC	km			1	16	112	253	187	7	1	1			3	3	4	3	3	0	0	0	0	0	1	0		0	0		0	0	0	0		0	596		4
41	HV	Distribution Cable	Distribution Submarine Cable	km			6	0			0																											0	6		4
42	HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers	No.															17	54	35	2		4	7			3	2		10	24	40	10	10	33			251		4
43	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.					1	3							1	1			7	1	2		1		1	7	14	6	11	4	1	35	14	5			115		4
44	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	1		8	172	754	1,044	1,091	168	107	84	86	36	122	188	179	164	228	111	65	93	131	167	285	355	430	339	371	448	411	463	396	418		392	9,307		3
45	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.			1	18	38	102	155	30	19	37	22	25	30	29	21	12	20	25	13	22	16	19	8	12	11	5	5	13	7	10	11	12		26	774		3
46	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.			1	1	76	138	27	21	26	43	38	35	27	28	26	12	44	31	46	36	38	69	73	110	136	103	112	80	123	139	136			1,774		4
47	HV	Distribution Transformer	Pole Mounted Transformer	No.	8	21	102	161	371	847	871	140	71	83	66	10	159	155	212	147	174	131	77	131	100	116	126	130	139	177	186	170	107	86	195	144		1	5,614		4
48	HV	Distribution Transformer	Ground Mounted Transformer	No.	5	27	104	561	688	683	828	132	116	125	99	19	406	260	259	171	193	176	196	129	139	189	183	172	215	298	247	213	171	247	321	320			7,892		4
49	HV	Distribution Transformer	Voltage regulators	No.															2				1	1	2	1										2			9		4
50	HV	Distribution Substations	Ground Mounted Substation Housing	No.	11	59	175	1,137	1,653	1,343	988	99	109	43	32	6	236	42	56	40	39	30	28	31	60	99	118	140	167	135	134	164	134	195	208	207		132	8,050		3
51	LV	LV Line	LV OH Conductor	km	0	3	108	512	769	405	66	21	2	1	0	2	9	21	47	10	12	6	7	6	5	5	7	6	12	24	26	37	25	15	11	15		22	2,220		3
52	LV	LV Cable	LV UG Cable	km	1	3	10	203	409	281	495	63	29	19	9	4	46	168	68	38	60	22	31	22	31	47	69	66	82	93	82	67	48	64	75	65		6	2,775		4
53	LV	LV Street lighting	LV OH/UG Streetlight circuit	km		1	1	9	18	19	35	6	2	1	1	1	2	5	4	3	8	3	12	5	4	12	7	13	9	8	7	8	10	10	5	0		2	231		3
54	LV	Connections	OH/UG consumer service connections	No.			48	3	21,065	31,889	73,410	3,093	4,286	3,190	3,539	3,973	4,496	4,683	6,311	6,316	5,228	4,049	4,150	3,972	3,894	4,987	5,724	5,875	6,589	5,612	4,723	4,268	4,950	5,856	6,231	11,866			254,276		4
55	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.			3	32	144	121	81	1	4	4	8	7	46	16	65	111	146	89	74	22	162	32	81	56	106	64	51	83	165	121	101	215		122	2,333		3
56	All	SCADA and communications	SCADA and communications equipment operating as a single syst	Lot							2						3		11	5	1	7	3	6	13			12	23	10	12	8	14	10	21	14		40	215		3
57	All	Capacitor Banks	Capacitors including controls	No								36			1			2				1			9			3					2	1				55		4
58	All	Load Control	Centralised plant	Lot				8	1	2																												11		4
59	All	Load Control	Relays	No																																		–		
60	All	Civils	Cable Tunnels	km																																		–		

Company Name	**Vector**
For Year Ended	**31 March 2024**
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

9c: Overhead Lines and Underground Cables

	Overhead (km)	Underground (km)	Total circuit length (km)
Circuit length by operating voltage (at year end)			
> 66kV	27	49	75
50kV & 66kV	–	–	–
33kV	369	459	828
SWER (all SWER voltages)	–	–	–
22kV (other than SWER)	2	174	177
6.6kV to 11kV (inclusive—other than SWER)	3,697	3,910	7,607
Low voltage (< 1kV)	4,098	6,809	10,907
Total circuit length (for supply)	8,193	11,401	19,594
Dedicated street lighting circuit length (km)	17	485	501
Circuit in sensitive areas (conservation areas, iwi territory etc) (km)			5,289

	Circuit length (km)	(% of total overhead length)
Overhead circuit length by terrain (at year end)		
Urban	4,591	56%
Rural	3,602	44%
Remote only		–
Rugged only		–
Remote and rugged		–
Unallocated overhead lines		–
Total overhead length	8,193	100%

	Circuit length (km)	(% of total circuit length)
Length of circuit within 10km of coastline or geothermal areas (where known)	19,572	100%

	Circuit length (km)	(% of total overhead length)	
Overhead circuit requiring vegetation management	8,193	100%	*Not required after DY2025*

	Total newly identified throughout the disclosure year	Total remaining at high risk at the disclosure year-end	
Number of overhead circuit sites at high risk from vegetation damage		–	*Not required before DY2026*

Breakdown of overhead circuit sites at high risk from vegetation damage at disclosure year-end

Category of overhead circuit site	Number of overhead circuit sites at high risk from vegetation damage at disclosure year-end	Number of overhead circuit sites involving critical assets at disclosure year-end	
[Single tree]			*Not required before DY2026*
[Single tree - Urban]			*Not required before DY2026*
[Single tree - Rural]			*Not required before DY2026*
[Row of trees]			*Not required before DY2026*
[Span between two poles (X metres)]			*Not required before DY2026*
[Other]			*Not required before DY2026*
Total number of sites	–	–	*Not required before DY2026*

** Insert new rows in table above Total line as necessary*

Company Name	**Vector**
For Year Ended	**31 March 2024**
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

9c: Overhead Lines and Underground Cables

	Overhead (km)	Underground (km)	Total circuit length (km)
Circuit length by operating voltage (at year end)			
> 66kV	–	49	49
50kV & 66kV	–	–	–
33kV	48	289	337
SWER (all SWER voltages)	–	–	–
22kV (other than SWER)	2	174	177
6.6kV to 11kV (inclusive—other than SWER)	866	2,324	3,190
Low voltage (< 1kV)	1,878	4,033	5,911
Total circuit length (for supply)	2,795	6,869	9,664
Dedicated street lighting circuit length (km)	5	266	271
Circuit in sensitive areas (conservation areas, iwi territory etc) (km)			2,760

	Circuit length (km)	(% of total overhead length)
Overhead circuit length by terrain (at year end)		
Urban	2,271	81%
Rural	524	19%
Remote only		–
Rugged only		–
Remote and rugged		–
Unallocated overhead lines		–
Total overhead length	2,795	100%

	Circuit length (km)	(% of total circuit length)
Length of circuit within 10km of coastline or geothermal areas (where known)	9,662	100%

	Circuit length (km)	(% of total overhead length)	
Overhead circuit requiring vegetation management	2,795	100%	*Not required after DY2025*

	Total newly identified throughout the disclosure year	Total remaining at high risk at the disclosure year-end	
Number of overhead circuit sites at high risk from vegetation damage		–	*Not required before DY2026*

Breakdown of overhead circuit sites at high risk from vegetation damage at disclosure year-end

Category of overhead circuit site	Number of overhead circuit sites at high risk from vegetation damage at disclosure year-end	Number of overhead circuit sites involving critical assets at disclosure year-end	
[Single tree]			*Not required before DY2026*
[Single tree - Urban]			*Not required before DY2026*
[Single tree - Rural]			*Not required before DY2026*
[Row of trees]			*Not required before DY2026*
[Span between two poles (X metres)]			*Not required before DY2026*
[Other]			*Not required before DY2026*
Total number of sites	–	–	*Not required before DY2026*

** Insert new rows in table above Total line as necessary*

Company Name	**Vector**
For Year Ended	**31 March 2024**
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

9c: Overhead Lines and Underground Cables

	Overhead (km)	Underground (km)	Total circuit length (km)
Circuit length by operating voltage (at year end)			
> 66kV	27	0	27
50kV & 66kV	–	–	–
33kV	321	170	491
SWER (all SWER voltages)	–	–	–
22kV (other than SWER)	–	–	–
6.6kV to 11kV (inclusive—other than SWER)	2,831	1,586	4,417
Low voltage (< 1kV)	2,220	2,775	4,995
Total circuit length (for supply)	5,398	4,532	9,930
Dedicated street lighting circuit length (km)	12	219	231
Circuit in sensitive areas (conservation areas, iwi territory etc) (km)			2,530

	Circuit length (km)	(% of total overhead length)
Overhead circuit length by terrain (at year end)		
Urban	2,320	43%
Rural	3,078	57%
Remote only		–
Rugged only		–
Remote and rugged		–
Unallocated overhead lines		–
Total overhead length	5,398	100%

	Circuit length (km)	(% of total circuit length)
Length of circuit within 10km of coastline or geothermal areas (where known)	9,910	100%

	Circuit length (km)	(% of total overhead length)	
Overhead circuit requiring vegetation management	5,398	100%	*Not required after DY2025*

	Total newly identified throughout the disclosure year	Total remaining at high risk at the disclosure year-end	
Number of overhead circuit sites at high risk from vegetation damage		–	*Not required before DY2026*

Breakdown of overhead circuit sites at high risk from vegetation damage at disclosure year-end

Category of overhead circuit site	Number of overhead circuit sites at high risk from vegetation damage at disclosure year-end	Number of overhead circuit sites involving critical assets at disclosure year-end	
[Single tree]			*Not required before DY2026*
[Single tree - Urban]			*Not required before DY2026*
[Single tree - Rural]			*Not required before DY2026*
[Row of trees]			*Not required before DY2026*
[Span between two poles (X metres)]			*Not required before DY2026*
[Other]			*Not required before DY2026*
Total number of sites	–	–	*Not required before DY2026*

** Insert new rows in table above Total line as necessary*

Company Name	**Vector**
For Year Ended	**31 March 2024**

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			
8	**Location ***	**Average number of ICPs in disclosure year**	**Line charge revenue ($000)**
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 2024**
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 during year by consumer type

	*Consumer types defined by EDB**	**Number of connections (ICPs)**
Residential		13,173
Commercial		3,597

** include additional rows if needed*

Connections total 16,770

Number of ICPs decommissioned during year by consumer type

	*Consumer types defined by EDB**	**Number of decommissionings**
Residential		1,865
Commercial		811

** include additional rows if needed*

Decommissionings total 2,676

Distributed generation

Number of connections made in year	1,653	**connections**
Capacity of distributed generation installed in year	12	**MVA**

9e(ii): System Demand

		Demand at time of maximum coincident demand (MW)	
Maximum coincident system demand			
	GXP demand	1,888	
plus	Distributed generation output at HV and above	30	
	Maximum coincident system demand	1,918	
less	Net transfers to (from) other EDBs at HV and above		
	Demand on system for supply to consumers' connection points	1,918	

		Energy (GWh)	
Electricity volumes carried			
	Electricity supplied from GXPs	8,926	
less	Electricity exports to GXPs	–	
plus	Electricity supplied from distributed generation	182	
less	Net electricity supplied to (from) other EDBs	–	
	Electricity entering system for supply to consumers' connection points	9,108	
less	Total energy delivered to ICPs	8,754	
	Electricity losses (loss ratio)	354	3.9%
	Load factor	0.54	

9e(iii): Transformer Capacity

	(MVA)
Distribution transformer capacity (EDB owned)	5,089
Distribution transformer capacity (Non-EDB owned)	806
Total distribution transformer capacity	5,895

	(MVA)
Zone substation transformer capacity (EDB owned)	4,951
Zone substation transformer capacity (Non-EDB owned)	–
Total zone substation transformer capacity	4,951

Company Name	**Vector**
For Year Ended	**31 March 2024**
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 during year by consumer type

	*Consumer types defined by EDB**	**Number of connections (ICPs)**
Residential		8,198
Commercial		1,778

** include additional rows if needed*

Connections total 9,976

Number of ICPs decommissioned during year by consumer type

	*Consumer types defined by EDB**	**Number of decommissionings**
Residential		1,300
Commercial		516

** include additional rows if needed*

Decommissionings total 1,816

Distributed generation

Number of connections made in year	933	**connections**
Capacity of distributed generation installed in year	7	**MVA**

9e(ii): System Demand

		Demand at time of maximum coincident demand (MW)	
	Maximum coincident system demand		
	GXP demand	1,172	
plus	Distributed generation output at HV and above	18	
	Maximum coincident system demand	1,190	
less	Net transfers to (from) other EDBs at HV and above		
	Demand on system for supply to consumers' connection points	1,190	

		Energy (GWh)	
	Electricity volumes carried		
	Electricity supplied from GXPs	5,886	
less	Electricity exports to GXPs	–	
plus	Electricity supplied from distributed generation	80	
less	Net electricity supplied to (from) other EDBs	–	
	Electricity entering system for supply to consumers' connection points	5,966	
less	Total energy delivered to ICPs	5,766	
	Electricity losses (loss ratio)	200	3.4%
	Load factor	0.57	

9e(iii): Transformer Capacity

	(MVA)
Distribution transformer capacity (EDB owned)	3,118
Distribution transformer capacity (Non-EDB owned)	648
Total distribution transformer capacity	3,766

	(MVA)
Zone substation transformer capacity (EDB owned)	3,128
Zone substation transformer capacity (Non-EDB owned)	–
Total zone substation transformer capacity	3,128

Company Name	**Vector**
For Year Ended	**31 March 2024**
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 during year by consumer type

	*Consumer types defined by EDB**	**Number of connections (ICPs)**
Residential		4,975
Commercial		1,819
	Connections total	6,794

** include additional rows if needed*

Number of ICPs decommissioned during year by consumer type

	*Consumer types defined by EDB**	**Number of decommissionings**
Residential		565
Commercial		295
	Decommissionings total	860

** include additional rows if needed*

Distributed generation

Number of connections made in year	720	**connections**
Capacity of distributed generation installed in year	5	**MVA**

9e(ii): System Demand

		Demand at time of maximum coincident demand (MW)	
	Maximum coincident system demand		
	GXP demand	716	
plus	Distributed generation output at HV and above	12	
	Maximum coincident system demand	728	
less	Net transfers to (from) other EDBs at HV and above		
	Demand on system for supply to consumers' connection points	728	
	Electricity volumes carried	**Energy (GWh)**	
	Electricity supplied from GXPs	3,039	
less	Electricity exports to GXPs	–	
plus	Electricity supplied from distributed generation	102	
less	Net electricity supplied to (from) other EDBs	–	
	Electricity entering system for supply to consumers' connection points	3,141	
less	Total energy delivered to ICPs	2,988	
	Electricity losses (loss ratio)	153	4.9%
	Load factor	0.49	

9e(iii): Transformer Capacity

	(MVA)
Distribution transformer capacity (EDB owned)	1,972
Distribution transformer capacity (Non-EDB owned)	158
Total distribution transformer capacity	2,130

	(MVA)
Zone substation transformer capacity (EDB owned)	1,823
Zone substation transformer capacity (Non-EDB owned)	–
Total zone substation transformer capacity	1,823

Company Name	**Vector**
For Year Ended	**31 March 2024**
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 this ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

8 **10(i): Interruptions**

9	**Interruptions by class**	**Number of interruptions**
10	Class A (planned interruptions by Transpower)	2
11	Class B (planned interruptions on the network)	1,854
12	Class C (unplanned interruptions on the network)	1,645
13	Class D (unplanned interruptions by Transpower)	2
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**	3,503

20			
21	**Interruption restoration**	**≤3Hrs**	**>3hrs**
22	Class C interruptions restored within	858	787

23			
24	**SAIFI and SAIDI by class**	**SAIFI**	**SAIDI**
25	Class A (planned interruptions by Transpower)	0.00	0
26	Class B (planned interruptions on the network)	0.33	94.7
27	Class C (unplanned interruptions on the network)	1.29	112
28	Class D (unplanned interruptions by Transpower)	0.05	0.4
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**	1.67	207.10

35				
36	**Normalised SAIFI and SAIDI**	**Normalised SAIFI**	**Normalised SAIDI**	
37	Classes B & C (interruptions on the network)	1.62	204.6	*Not required after DY2024*
38	ID			

39	**Transitional SAIFI and SAIDI (previous method)**	**SAIFI**	**SAIDI**
40	Class B (planned interruptions on the network)	0.31	94.7
41	Class C (unplanned interruptions on the network)	1.16	112

42 *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*

43 *'multi-count approach'.* ***This is a transitional reporting requirement that shall be in place for the 2024, 2025, and 2026 disclosure years.***

44 **10(ii): Class C Interruptions and Duration by Cause**

45

46	**Cause**	**SAIFI**	**SAIDI**	
47	Lightning	0.00	0.4	
48	Vegetation	0.19	18.3	
49	Adverse weather	0.03	4.1	
50	Adverse environment	0.00	0.3	
51	Third party interference	0.16	18.3	
52	Wildlife	0.07	4.5	
53	Human error	0.05	1.2	
54	Defective equipment	0.44	43.5	
55	Cause unknown	0.33	21.3	*Not required after DY2024*
56	Other cause			*Not required before DY2025*
57	Unknown			*Not required before DY2025*

58			
59	**Breakdown of third party interference**	**SAIFI**	**SAIDI**
60	Dig-in	0.01	1.9
61	Overhead contact	0.04	2.5
62	Vandalism	0.00	0.0
63	Vehicle damage	0.10	13.7
64	Other	0.00	0.3

Company Name	**Vector**
For Year Ended	**31 March 2024**
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 this ID determination), and so is subject to the assurance report required by section 2.8.

Breakdown of vegetation interruptions (vegetation cause)	**SAIFI**	**SAIDI**	
In-zone			*Not required before DY2026*
Out-of-zone			*Not required before DY2026*

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

Main equipment involved	**SAIFI**	**SAIDI**
Subtransmission lines		
Subtransmission cables		
Subtransmission other		
Distribution lines (excluding LV)	0.14	46.9
Distribution cables (excluding LV)	0.01	2.5
Distribution other (excluding LV)	0.18	45.3

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

Main equipment involved	**SAIFI**	**SAIDI**
Subtransmission lines	0.20	17.2
Subtransmission cables		
Subtransmission other	0.03	1.2
Distribution lines (excluding LV)	0.64	58.1
Distribution cables (excluding LV)	0.20	16.3
Distribution other (excluding LV)	0.22	19.2

10(v): Fault Rate

Main equipment involved	**Number of Faults**	**Circuit length (km)**	**Fault rate (faults per 100km)**
Subtransmission lines	19	396	4.80
Subtransmission cables	–	627	–
Subtransmission other	9		
Distribution lines (excluding LV)	973	3,699	26.30
Distribution cables (excluding LV)	292	3,965	7.36
Distribution other (excluding LV)	352		
Total	1,645		

Company Name	**Vector**
For Year Ended	**31 March 2024**
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 this ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

10(i): Interruptions

	Number of interruptions
Interruptions by class	
Class A (planned interruptions by Transpower)	
Class B (planned interruptions on the network)	888
Class C (unplanned interruptions on the network)	556
Class D (unplanned interruptions by Transpower)	2
Class E (unplanned interruptions of EDB owned generation)	
Class F (unplanned interruptions of generation owned by others)	
Class G (unplanned interruptions caused by another disclosing entity)	
Class H (planned interruptions caused by another disclosing entity)	
Class I (interruptions caused by parties not included above)	
Total	1,446

Interruption restoration	≤3Hrs	>3hrs
Class C interruptions restored within	300	256

SAIFI and SAIDI by class	SAIFI	SAIDI
Class A (planned interruptions by Transpower)		
Class B (planned interruptions on the network)	0.27	67.0
Class C (unplanned interruptions on the network)	0.78	64.2
Class D (unplanned interruptions by Transpower)	0.08	0.7
Class E (unplanned interruptions of EDB owned generation)		
Class F (unplanned interruptions of generation owned by others)		
Class G (unplanned interruptions caused by another disclosing entity)		
Class H (planned interruptions caused by another disclosing entity)		
Class I (interruptions caused by parties not included above)		
Total	1.13	131.9

Normalised SAIFI and SAIDI	Normalised SAIFI	Normalised SAIDI	
Classes B & C (interruptions on the network)	1.06	131.2	*Not required after DY2024*

Transitional SAIFI and SAIDI (previous method)	SAIFI	SAIDI
Class B (planned interruptions on the network)	0.26	67.0
Class C (unplanned interruptions on the network)	0.73	64.2

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.***

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

Cause	SAIFI	SAIDI	
Lightning	0.01	0.6	
Vegetation	0.08	7.3	
Adverse weather	0.01	1.0	
Adverse environment	0.00	–	
Third party interference	0.15	18.9	
Wildlife	0.06	2.8	
Human error	0.02	0.6	
Defective equipment	0.31	24.0	
Cause unknown	0.14	9.0	*Not required after DY2024*
Other cause			*Not required before DY2025*
Unknown			*Not required before DY2025*

Breakdown of third party interference	SAIFI	SAIDI
Dig-in	0.02	3.0
Overhead contact	0.02	1.1
Vandalism	0.00	0.1
Vehicle damage	0.11	14.5
Other	0.00	0.3

Company Name	**Vector**
For Year Ended	**31 March 2024**
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 this ID determination), and so is subject to the assurance report required by section 2.8.

	SAIFI	SAIDI	
Breakdown of vegetation interruptions (vegetation cause)			
In-zone			*Not required before DY2026*
Out-of-zone			*Not required before DY2026*

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

Main equipment involved	SAIFI	SAIDI
Subtransmission lines		
Subtransmission cables		
Subtransmission other		
Distribution lines (excluding LV)	0.12	35.9
Distribution cables (excluding LV)	0.01	2.3
Distribution other (excluding LV)	0.14	28.8

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

Main equipment involved	SAIFI	SAIDI
Subtransmission lines		
Subtransmission cables		
Subtransmission other	0.00	1.3
Distribution lines (excluding LV)	0.33	25.2
Distribution cables (excluding LV)	0.26	20.2
Distribution other (excluding LV)	0.19	17.5

10(v): Fault Rate

Main equipment involved	Number of Faults	Circuit length (km)	Fault rate (faults per 100km)
Subtransmission lines	–	48	–
Subtransmission cables	–	457	–
Subtransmission other	3		
Distribution lines (excluding LV)	229	869	26.36
Distribution cables (excluding LV)	190	2,379	7.99
Distribution other (excluding LV)	134		
Total	556		

Company Name	**Vector**
For Year Ended	**31 March 2024**
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 this ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

10(i): Interruptions

	Number of interruptions
Interruptions by class	
Class A (planned interruptions by Transpower)	2
Class B (planned interruptions on the network)	966
Class C (unplanned interruptions on the network)	1,089
Class D (unplanned interruptions by Transpower)	–
Class E (unplanned interruptions of EDB owned generation)	
Class F (unplanned interruptions of generation owned by others)	
Class G (unplanned interruptions caused by another disclosing entity)	
Class H (planned interruptions caused by another disclosing entity)	
Class I (interruptions caused by parties not included above)	
Total	2,057

Interruption restoration	≤3Hrs	>3hrs
Class C interruptions restored within	558	531

SAIFI and SAIDI by class	SAIFI	SAIDI
Class A (planned interruptions by Transpower)	0.00	–
Class B (planned interruptions on the network)	0.42	134.7
Class C (unplanned interruptions on the network)	2.01	181.1
Class D (unplanned interruptions by Transpower)		
Class E (unplanned interruptions of EDB owned generation)		
Class F (unplanned interruptions of generation owned by others)		
Class G (unplanned interruptions caused by another disclosing entity)		
Class H (planned interruptions caused by another disclosing entity)		
Class I (interruptions caused by parties not included above)		
Total	2.43	315.8

Normalised SAIFI and SAIDI	Normalised SAIFI	Normalised SAIDI
Classes B & C (interruptions on the network)	2.43	306.1

Transitional SAIFI and SAIDI (previous method)	SAIFI	SAIDI
Class B (planned interruptions on the network)	0.39	134.7
Class C (unplanned interruptions on the network)	1.77	181.1

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.***

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

Cause	SAIFI	SAIDI	
Lightning	0.00	0.1	
Vegetation	0.35	34.2	
Adverse weather	0.05	8.6	
Adverse environment	0.00	0.7	
Third party interference	0.17	17.5	
Wildlife	0.08	7.0	
Human error	0.11	2.0	
Defective equipment	0.63	71.8	
Cause unknown	0.60	39.2	*Not required after DY2024*
Other cause			*Not required before DY2025*
Unknown			*Not required before DY2025*

Breakdown of third party interference	SAIFI	SAIDI
Dig-in	0.00	0.3
Overhead contact	0.08	4.6
Vandalism	0.00	0.0
Vehicle damage	0.09	12.5
Other	0.00	0.2

KPMG

Company Name	**Vector**
For Year Ended	**31 March 2024**
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 this ID determination), and so is subject to the assurance report required by section 2.8.

	SAIFI	SAIDI	
Breakdown of vegetation interruptions (vegetation cause)			
In-zone			*Not required before DY2026*
Out-of-zone			*Not required before DY2026*

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

Main equipment involved	SAIFI	SAIDI
Subtransmission lines		
Subtransmission cables		
Subtransmission other		
Distribution lines (excluding LV)	0.16	62.9
Distribution cables (excluding LV)	0.01	2.7
Distribution other (excluding LV)	0.24	69.1

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

Main equipment involved	SAIFI	SAIDI
Subtransmission lines	0.49	42.0
Subtransmission cables		
Subtransmission other	0.06	1.1
Distribution lines (excluding LV)	1.08	105.6
Distribution cables (excluding LV)	0.12	10.7
Distribution other (excluding LV)	0.27	21.8

10(v): Fault Rate

Main equipment involved	Number of Faults	Circuit length (km)	Fault rate (faults per 100km)
Subtransmission lines	19	348	5.46
Subtransmission cables	–	170	–
Subtransmission other	6		
Distribution lines (excluding LV)	744	2,831	26.28
Distribution cables (excluding LV)	102	1,586	6.43
Distribution other (excluding LV)	218		
Total	1,089		