



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

Company Name

Vector

Disclosure Date

31 August 2022

Disclosure Year (year ended)

31 March 2022

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

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Disclosure Template Instructions

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

Company Name and Dates

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

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

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

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

Data Entry Cells and Calculated Cells

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

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

Validation Settings on Data Entry Cells

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

Conditional Formatting Settings on Data Entry Cells

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

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

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

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

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

Inserting Additional Rows and Columns

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

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

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

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

Disclosures by Sub-Network

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

Schedule References

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

Description of Calculation References

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

Worksheet Completion Sequence

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

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

Company Name **Vector**
For Year Ended **31 March 2022**

SCHEDULE 1: ANALYTICAL RATIOS

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

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

sch ref

1(i): Expenditure metrics

	Expenditure per GWh energy delivered to ICPs (\$/GWh)	Expenditure per average no. of ICPs (\$/ICP)	Expenditure per MW maximum coincident system demand (\$/MW)	Expenditure per km circuit length (\$/km)	Expenditure per MVA of capacity from EDB-owned distribution transformers (\$/MVA)
Operational expenditure	16,329	230	75,669	7,093	28,480
Network	6,574	93	30,466	2,856	11,467
Non-network	9,755	138	45,204	4,237	17,014
Expenditure on assets	38,826	548	179,918	16,865	67,718
Network	36,163	510	167,579	15,708	63,073
Non-network	2,663	38	12,339	1,157	4,644

1(ii): Revenue metrics

	Revenue per GWh energy delivered to ICPs (\$/GWh)	Revenue per average no. of ICPs (\$/ICP)
Total consumer line charge revenue	71,601	1,010
Standard consumer line charge revenue	74,859	982
Non-standard consumer line charge revenue	28,948	593,241

1(iii): Service intensity measures

Demand density	94	Maximum coincident system demand per km of circuit length (for supply) (kW/km)
Volume density	434	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	14,112	Total energy delivered to ICPs per average number of ICPs (kWh/ICP)

1(iv): Composition of regulatory income

	(\$000)	% of revenue
Operational expenditure	136,753	23.22%
Pass-through and recoverable costs excluding financial incentives and wash-ups	201,296	34.18%
Total depreciation	133,873	22.73%
Total revaluations	233,313	39.62%
Regulatory tax allowance	36,039	6.12%
Regulatory profit/(loss) including financial incentives and wash-ups	311,064	52.83%
Total regulatory income	588,845	

1(v): Reliability

Interruption rate	18.26	Interruptions per 100 circuit km
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Company Name **Vector**
For Year Ended **31 March 2022**

SCHEDULE 2: REPORT ON RETURN ON INVESTMENT

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

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

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

sch ref

2(i): Return on Investment

ROI – comparable to a post tax WACC

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

CY-2	CY-1	Current Year CY
31 Mar 20	31 Mar 21	31 Mar 22
%	%	%
5.42%	3.34%	9.15%
5.53%	3.40%	9.10%
5.60%	3.40%	9.09%

Mid-point estimate of post tax WACC

25th percentile estimate
75th percentile estimate

4.27%	3.72%	3.52%
3.59%	3.04%	2.84%
4.95%	4.40%	4.20%

ROI – comparable to a vanilla WACC

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

5.85%	3.67%	9.45%
5.95%	3.74%	9.40%
6.02%	3.74%	9.39%

WACC rate used to set regulatory price path

7.19%	4.57%	4.57%
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Mid-point estimate of vanilla WACC

25th percentile estimate
75th percentile estimate

4.69%	4.05%	3.82%
4.01%	3.37%	3.14%
5.37%	4.73%	4.50%

2(ii): Information Supporting the ROI

(\$'000)

Total opening RAB value
plus Opening deferred tax

3,385,969	
(113,891)	
	3,272,078

Opening RIV

Line charge revenue

	599,637
--	---------

Expenses cash outflow

add Assets commissioned
less Asset disposals
add Tax payments
less Other regulated income

338,049	
171,903	
16,301	
19,189	
(10,792)	

Mid-year net cash outflows

	523,632
--	---------

Term credit spread differential allowance

	3,133
--	-------

Total closing RAB value
less Adjustment resulting from asset allocation
less Lost and found assets adjustment
plus Closing deferred tax

3,641,987	
976	
–	
(130,741)	

Closing RIV

	3,510,270
--	-----------

ROI – comparable to a vanilla WACC

Leverage (%)
Cost of debt assumption (%)
Corporate tax rate (%)

9.45%
42%
2.55%
28%

ROI – comparable to a post tax WACC

9.15%



Company Name

Vector

For Year Ended

31 March 2022

SCHEDULE 2: REPORT ON RETURN ON INVESTMENT

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

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

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

sch ref

2(iii): Information Supporting the Monthly ROI

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

9.18%

Year-end ROI – comparable to a post tax WACC

8.88%

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

2(v): Financial Incentives and Wash-Ups

Net recoverable costs allowed under incremental rolling incentive scheme

–

Purchased assets – avoided transmission charge

–

Energy efficiency and demand incentive allowance

–

Quality incentive adjustment

(4,449)

Other financial incentives

6,759

Financial incentives

2,310

Impact of financial incentives on ROI

0.05%

Input methodology claw-back

–

CPP application recoverable costs

–

Catastrophic event allowance

–

Capex wash-up adjustment

346

Transmission asset wash-up adjustment

–

2013–15 NPV wash-up allowance

–

Reconsideration event allowance

–

Other wash-ups

–

Wash-up costs

346

Impact of wash-up costs on ROI

0.01%

Company Name **Vector**
For Year Ended **31 March 2022**

SCHEDULE 3: REPORT ON REGULATORY PROFIT

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

sch ref

3(i): Regulatory Profit

(\$000)

Income

Line charge revenue

599,637

plus Gains / (losses) on asset disposals

(10,792)

plus Other regulated income (other than gains / (losses) on asset disposals)

—

Total regulatory income

588,845

Expenses

less Operational expenditure

136,753

less Pass-through and recoverable costs excluding financial incentives and wash-ups

201,296

Operating surplus / (deficit)

250,796

less Total depreciation

133,873

plus Total revaluations

233,313

Regulatory profit / (loss) before tax

350,236

less Term credit spread differential allowance

3,133

less Regulatory tax allowance

36,039

Regulatory profit/(loss) including financial incentives and wash-ups

311,064

3(ii): Pass-through and Recoverable Costs excluding Financial Incentives and Wash-Ups

(\$000)

Pass through costs

Rates

16,233

Commerce Act levies

1,869

Industry levies

1,850

CPP specified pass through costs

—

Recoverable costs excluding financial incentives and wash-ups

Electricity lines service charge payable to Transpower

171,904

Transpower new investment contract charges

7,881

System operator services

—

Distributed generation allowance

1,034

Extended reserves allowance

—

Other recoverable costs excluding financial incentives and wash-ups

525

Pass-through and recoverable costs excluding financial incentives and wash-ups

201,296

3(iii): Incremental Rolling Incentive Scheme

(\$000)

Allowed controllable opex

—

Actual controllable opex

—

Incremental change in year

—

CY-5 31 Mar 17

—

CY-4 31 Mar 18

—

CY-3 31 Mar 19

—

CY-2 31 Mar 20

—

CY-1 31 Mar 21

—

Net incremental rolling incentive scheme

—

Net recoverable costs allowed under incremental rolling incentive scheme

—

3(iv): Merger and Acquisition Expenditure

(\$000)

Merger and acquisition expenditure

—

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)

3(v): Other Disclosures

(\$000)

Self-insurance allowance

—



Company Name **Vector**
For Year Ended **31 March 2022**

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

This schedule requires information on the calculation of the Regulatory Asset Base (RAB) value to the end of this disclosure year. This informs the ROI calculation in Schedule 2.

EDBs must provide explanatory comment on the value of their RAB in Schedule 14 (Mandatory Explanatory Notes). This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

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

for year ended	RAB 31 Mar 18 (\$000)	RAB 31 Mar 19 (\$000)	RAB 31 Mar 20 (\$000)	RAB 31 Mar 21 (\$000)	RAB 31 Mar 22 (\$000)
Total opening RAB value	2,879,136	2,951,716	3,075,471	3,258,721	3,385,969
less Total depreciation	108,316	108,729	116,767	125,888	133,873
plus Total revaluations	31,561	44,091	77,539	49,372	233,313
plus Assets commissioned	156,888	203,460	512,505	215,221	171,903
less Asset disposals	7,540	7,412	289,233	12,198	16,301
plus Lost and found assets adjustment	–	–	–	–	–
plus Adjustment resulting from asset allocation	(13)	(7,655)	(794)	741	976
Total closing RAB value	2,951,716	3,075,471	3,258,721	3,385,969	3,641,987

4(ii): Unallocated Regulatory Asset Base

	Unallocated RAB * (\$000)	RAB (\$000)
Total opening RAB value	3,403,311	3,385,969
less Total depreciation	137,473	133,873
plus Total revaluations	234,444	233,313
plus Assets commissioned (other than below)	173,512	169,837
Assets acquired from a regulated supplier	–	–
Assets acquired from a related party	2,066	2,066
Assets commissioned	175,578	171,903
less Asset disposals (other than below)	18,615	16,301
Asset disposals to a regulated supplier	–	–
Asset disposals to a related party	–	–
Asset disposals	18,615	16,301
plus Lost and found assets adjustment	–	–
plus Adjustment resulting from asset allocation	–	976
Total closing RAB value	3,657,245	3,641,987

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

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

CPI _t	1,142
CPI _{t-4}	1,068
Revaluation rate (%)	6.93%

	Unallocated RAB *		RAB
	(\$000)	(\$000)	(\$000)
Total opening RAB value	3,403,311		3,385,969
less Opening value of fully depreciated, disposed and lost assets	20,120		19,090
Total opening RAB value subject to revaluation	3,383,191		3,366,879
Total revaluations		234,444	233,313

4(iv): Roll Forward of Works Under Construction

	Unallocated works under construction	Allocated works under construction
Works under construction—preceding disclosure year	31,026	30,835
plus Capital expenditure	189,014	184,026
less Assets commissioned	175,578	171,903
less Adjustment resulting from asset allocation	–	–
Works under construction - current disclosure year	44,462	42,958
Highest rate of capitalised finance applied	–	3.69%

4(v): Regulatory Depreciation

	Unallocated RAB * (\$000)	RAB (\$000)
Depreciation - standard	86,258	85,789
Depreciation - no standard life assets	51,215	48,084
Depreciation - modified life assets	–	–
Depreciation - alternative depreciation in accordance with CPP	–	–
Total depreciation	137,473	133,873

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

Company Name **Vector**
For Year Ended **31 March 2022**

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

This schedule requires information on the calculation of the Regulatory Asset Base (RAB) value to the end of this disclosure year. This informs the ROI calculation in Schedule 2.

EDBs must provide explanatory comment on the value of their RAB in Schedule 14 (Mandatory Explanatory Notes). This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

(\$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
103	Total opening RAB value									
104	less	Total depreciation								
105	plus	Total revaluations								
106	plus	Assets commissioned								
107	less	Asset disposals								
108	plus	Lost and found assets adjustment								
109	plus	Adjustment resulting from asset allocation								
110	plus	Asset category transfers								
111	Total closing RAB value									
112										
113	Asset Life									
114	Weighted average remaining asset life									
115	Weighted average expected total asset life									



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

5a(i): Regulatory Tax Allowance			(\$000)
8	Regulatory profit / (loss) before tax		350,236
9			
10	<i>plus</i> Income not included in regulatory profit / (loss) before tax but taxable		*
11	Expenditure or loss in regulatory profit / (loss) before tax but not deductible	6,335	*
12	Amortisation of initial differences in asset values	31,757	
13	Amortisation of revaluations	15,369	
14			53,461
15			
16	<i>less</i> Total revaluations	233,313	
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	3,974	*
20	Notional deductible interest	37,699	
21			274,987
22			
23	Regulatory taxable income		128,711
24			
25	<i>less</i> Utilised tax losses	—	
26	Regulatory net taxable income		128,711
27			
28	Corporate tax rate (%)	28%	
29	Regulatory tax allowance		36,039

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

(\$000)

36		Opening unamortised initial differences in asset values	889,201	
37	<i>less</i>	Amortisation of initial differences in asset values	31,757	
38	<i>plus</i>	Adjustment for unamortised initial differences in assets acquired	–	
39	<i>less</i>	Adjustment for unamortised initial differences in assets disposed	5,022	
40		Closing unamortised initial differences in asset values		852,422
41				
42		Opening weighted average remaining useful life of relevant assets (years)		28

Company Name	Vector
For Year Ended	31 March 2022

SCHEDULE 5a: REPORT ON REGULATORY TAX ALLOWANCE

This schedule requires information on the calculation of the regulatory tax allowance. This information is used to calculate regulatory profit/loss in Schedule 3 (regulatory profit). EDBs must provide explanatory commentary on the information disclosed in this schedule, in Schedule 14 (Mandatory Explanatory Notes).

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

sch ref

44	5a(iv): Amortisation of Revaluations			(\$000)
45				
46	Opening sum of RAB values without revaluations	3,001,320		
47				
48	Adjusted depreciation	118,504		
49	Total depreciation	133,873		
50	Amortisation of revaluations		15,369	
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	(113,891)		
61				
62	plus Tax effect of adjusted depreciation	33,181		
63				
64	less Tax effect of tax depreciation	39,205		
65				
66	plus Tax effect of other temporary differences*	(1,985)		
67				
68	less Tax effect of amortisation of initial differences in asset values	8,892		
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	13		
73				
74	plus Deferred tax cost allocation adjustment	64		
75				
76	Closing deferred tax		(130,741)	
77				
78	5a(vii): Disclosure of Temporary Differences			
79	<i>In Schedule 14, Box 6, provide descriptions and workings of items recorded in the asterisked category in Schedule 5a(vi) (Tax effect of other temporary differences).</i>			
80				
81	5a(viii): Regulatory Tax Asset Base Roll-Forward			
82				(\$000)
83	Opening sum of regulatory tax asset values	1,348,400		
84	less Tax depreciation	140,018		
85	plus Regulatory tax asset value of assets commissioned	202,498		
86	less Regulatory tax asset value of asset disposals	4,819		
87	plus Lost and found assets adjustment	—		
88	plus Adjustment resulting from asset allocation	1,203		
89	plus Other adjustments to the RAB tax value			
90	Closing sum of regulatory tax asset values		1,407,264	



Company Name **Vector**
For Year Ended **31 March 2022**

SCHEDULE 5b: REPORT ON RELATED PARTY TRANSACTIONS

This schedule provides information on the valuation of related party transactions, in accordance with clause 2.3.6 of the ID determination.

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

sch ref

5b(i): Summary—Related Party Transactions

	(\$000)	(\$000)
Total regulatory income		—
Market value of asset disposals		—
Service interruptions and emergencies	—	
Vegetation management	2,526	
Routine and corrective maintenance and inspection	—	
Asset replacement and renewal (opex)	—	
Network opex		2,526
Business support	—	
System operations and network support	11,419	
Operational expenditure		13,945
Consumer connection	69	
System growth	1,385	
Asset replacement and renewal (capex)	352	
Asset relocations	—	
Quality of supply	—	
Legislative and regulatory	—	
Other reliability, safety and environment	112	
Expenditure on non-network assets		—
Expenditure on assets		1,918
Cost of financing		9
Value of capital contributions		
Value of vested assets		
Capital Expenditure		1,927
Total expenditure		15,872
Other related party transactions		—

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

Name of related party	Nature of opex or capex service provided	Total value of transactions (\$000)
PowerSmart NZ Limited	Other reliability, safety and environment	112
Vector Communications Limited	Asset replacement and renewal (capex)	224
Vector Communications Limited	Consumer connection	69
Vector Communications Limited	System operations and network support	4,653
Tree Scape Limited	Vegetation management	2,526
Tree Scape Limited	Asset replacement and renewal (capex)	128
Vector Auckland Property Limited	System growth	44
Vector Northern Property Limited	System growth	1,341
Vector Technology Services Limited	System operations and network support	6,731
Advanced Metering Services Limited	System operations and network support	35
Total value of related party transactions		15,863

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

Related party	Relationship	Principal activities	Amount (\$000) excluded cost of financing
Vector Communications Limited	a wholly owned subsidiary of Vector limited	Network communications and SCADA services	4,946
Tree Scape Limited	an associate in which Vector limited holds a 50% interest	Vegetation management services	2,654
PowerSmart NZ Limited	a wholly owned subsidiary of Vector limited	Energy solutions services	112
Advanced Metering Services Limited	a wholly owned subsidiary of Vector limited	Metering services	35
Vector Technology Services Limited	a wholly owned subsidiary of Vector limited	Digital and technology services	6,731
Vector Auckland Property Limited	a wholly owned subsidiary of Vector limited	Asset management services	44
Vector Northern Property Limited	a wholly owned subsidiary of Vector limited	Asset management services	1,341



Company Name **Vector**
For Year Ended **31 March 2022**

SCHEDULE 5c: REPORT ON TERM CREDIT SPREAD DIFFERENTIAL ALLOWANCE

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

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

Issuing party	Issue date	Pricing date	Original tenor (in years)	Coupon rate (%)	Book value at issue date (NZD)	Book value at date of financial statements (NZD)	Term Credit Spread Difference	Debt issue cost readjustment
[]VCI	31-Jul-18	17-Jul-18	3	BKBM + []VCI				
[]VCI	31-Jul-18	17-Jul-18	3	BKBM + []VCI				
[]VCI	31-Jul-18	17-Jul-18	3	BKBM + []VCI				
[]VCI	16-Sep-19	24-Jul-19	3	BKBM + []VCI				
[]VCI	16-Sep-19	24-Jul-19	3	BKBM + []VCI				
[]VCI	16-Sep-19	24-Jul-19	3	BKBM + []VCI				
[]VCI	16-Sep-19	24-Jul-19	3	BKBM + []VCI				
[]VCI	16-Sep-19	24-Jul-19	3	BKBM + []VCI				
[]VCI	16-Apr-20	15-Apr-20	3	BKBM + []VCI				
[]VCI	13-Jan-20	20-Dec-19	5	BKBM + []VCI				
[]VCI	2-Feb-21	26-Jan-21	3	BKBM + []VCI				
[]VCI	2-Feb-21	26-Jan-21	3	BKBM + []VCI				
[]VCI	2-Feb-21	26-Jan-21	3	BKBM + []VCI				
[]VCI	2-Feb-21	26-Jan-21	3	BKBM + []VCI				
[]VCI	2-Feb-21	26-Jan-21	3	BKBM + []VCI				
Subtotal of bank facilities- variable rate					510,000	508,513		
Capital bonds - fixed rate	15-Jun-17	14-Jun-17	5	5.7	307,205	306,854	[]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	412,018	[]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 - 2010 USPP 12yr	20-Dec-10	22-Sep-10	12	[]VCI	250,516		[]VCI	[]VCI
Senior notes - 2014 USPP 7yr	14-Oct-14	19-Jun-14	7	[]VCI	150,000		[]VCI	[]VCI
Senior notes - 2017 USPP 10yr	25-Oct-17	28-Sep-17	10	[]VCI	277,200		[]VCI	[]VCI
Senior notes - 2017 USPP 12yr	25-Oct-17	28-Sep-17	12	[]VCI	138,600		[]VCI	[]VCI
Subtotal of senior notes - USD fixed rate					1,613,383	1,595,125	[]VCI	[]VCI
Unsubordinated bond	27-May-19	16-May-19	6	3.45	250,000	248,004	[]VCI	[]VCI
* Include additional rows if needed						3,070,513	[]VCI	[]VCI

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

Gross term credit spread differential	6,518
Total book value of interest bearing debt	3,070,513
Leverage	42%
Average opening and closing RAB values	3,513,978
Attribution Rate (%)	48%
Term credit spread differential allowance	3,133



Company Name	Vector
For Year Ended	31 March 2022

SCHEDULE 5d: REPORT ON COST ALLOCATIONS

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

sch ref

5d(i): Operating Cost Allocations

		Value allocated (\$000s)			
		Arm's length deduction	Electricity distribution services	Non-electricity distribution services	OVBAAA allocation increase (\$000s)
Service interruptions and emergencies					
Directly attributable			14,382		
Not directly attributable		—	—	—	—
Total attributable to regulated service			14,382		
Vegetation management					
Directly attributable			5,677		
Not directly attributable		—	—	—	—
Total attributable to regulated service			5,677		
Routine and corrective maintenance and inspection					
Directly attributable			19,488		
Not directly attributable		—	—	—	—
Total attributable to regulated service			19,488		
Asset replacement and renewal					
Directly attributable			15,512		
Not directly attributable		—	—	—	—
Total attributable to regulated service			15,512		
System operations and network support					
Directly attributable			35,740		
Not directly attributable		—	5,638	729	6,367
Total attributable to regulated service			41,378		
Business support					
Directly attributable			1,446		
Not directly attributable		—	38,870	20,328	59,198
Total attributable to regulated service			40,316		
Operating costs directly attributable			92,245		
Operating costs not directly attributable		—	44,508	21,057	65,565
Operational expenditure			136,753		

5d(ii): Other Cost Allocations

		(\$000)
Pass through and recoverable costs		
Pass through costs		
Directly attributable		19,952
Not directly attributable		—
Total attributable to regulated service		19,952
Recoverable costs		
Directly attributable		181,344
Not directly attributable		—
Total attributable to regulated service		181,344

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

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

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

† include additional rows if needed

Company Name
For Year EndedVector
31 March 2022**SCHEDULE 5e: REPORT ON ASSET ALLOCATIONS**

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

sch ref

Se(i): Regulated Service Asset Values

	Value allocated (\$000s) Electricity distribution services
Subtransmission lines	
Directly attributable	75,017
Not directly attributable	1,653
Total attributable to regulated service	76,670
Subtransmission cables	
Directly attributable	374,082
Not directly attributable	—
Total attributable to regulated service	374,082
Zone substations	
Directly attributable	353,047
Not directly attributable	—
Total attributable to regulated service	353,047
Distribution and LV lines	
Directly attributable	403,327
Not directly attributable	53,702
Total attributable to regulated service	457,029
Distribution and LV cables	
Directly attributable	828,336
Not directly attributable	19,382
Total attributable to regulated service	847,718
Distribution substations and transformers	
Directly attributable	313,571
Not directly attributable	—
Total attributable to regulated service	313,571
Distribution switchgear	
Directly attributable	315,884
Not directly attributable	—
Total attributable to regulated service	315,884
Other network assets	
Directly attributable	840,790
Not directly attributable	4,175
Total attributable to regulated service	844,965
Non-network assets	
Directly attributable	30,338
Not directly attributable	28,683
Total attributable to regulated service	59,021
Regulated service asset value directly attributable	3,534,392
Regulated service asset value not directly attributable	107,595
Total closing RAB value	3,641,987

Se(ii): Changes in Asset Allocations* †

				(\$000)
				CY-1
				Current Year (CY)
Change in asset value allocation 1				
Asset category		Original allocation		
Original allocator or line items		New allocation		
New allocator or line items		Difference		—
Rationale for change				
Change in asset value allocation 2				
Asset category		Original allocation		
Original allocator or line items		New allocation		
New allocator or line items		Difference		—
Rationale for change				
Change in asset value allocation 3				
Asset category		Original allocation		
Original allocator or line items		New allocation		
New allocator or line items		Difference		—
Rationale for change				
Change in asset value allocation 4				
Asset category		Original allocation		
Original allocator or line items		New allocation		
New allocator or line items		Difference		—
Rationale for change				
Change in asset value allocation 5				
Asset category		Original allocation		
Original allocator or line items		New allocation		
New allocator or line items		Difference		—
Rationale for change				

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

Company Name **Vector**
For Year Ended **31 March 2022**

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

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

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

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

sch ref

7	6a(i): Expenditure on Assets	(\$000)	(\$000)
8	Consumer connection		125,989
9	System growth		29,449
10	Asset replacement and renewal		116,611
11	Asset relocations		20,035
12	Reliability, safety and environment:		
13	Quality of supply	106	
14	Legislative and regulatory	97	
15	Other reliability, safety and environment	10,569	
16	Total reliability, safety and environment		10,772
17	Expenditure on network assets		302,856
18	Expenditure on non-network assets		22,299
19			
20	Expenditure on assets		325,155
21	plus Cost of financing		12
22	less Value of capital contributions		141,141
23	plus Value of vested assets		—
24			
25	Capital expenditure		184,026
26	6a(ii): Subcomponents of Expenditure on Assets (where known)		(\$000)
27	Energy efficiency and demand side management, reduction of energy losses		—
28	Overhead to underground conversion		9,251
29	Research and development		1,549
30	6a(iii): Consumer Connection		
31	<i>Consumer types defined by EDB*</i>	(\$000)	(\$000)
32	Service connection	24,902	
33	Customer substations	38,975	
34	Business subdivisions	3,017	
35	Residential subdivisions	52,475	
36	Capacity change	4,379	
	Street lighting	2,235	
	Easement costs	6	
37	<i>* include additional rows if needed</i>		
38	Consumer connection expenditure		125,989
39			
40	less Capital contributions funding consumer connection expenditure	127,811	
41	Consumer connection less capital contributions		(1,822)
42	6a(iv): System Growth and Asset Replacement and Renewal		
43		System Growth	Asset Replacement and Renewal
44		(\$000)	(\$000)
45	Subtransmission	13,412	16,685
46	Zone substations	5,377	20,518
47	Distribution and LV lines	778	42,778
48	Distribution and LV cables	5,393	9,057
49	Distribution substations and transformers	1,711	7,674
50	Distribution switchgear	240	12,984
51	Other network assets	2,538	6,915
52	System growth and asset replacement and renewal expenditure	29,449	116,611
53	less Capital contributions funding system growth and asset replacement and renewal	781	204
54	System growth and asset replacement and renewal less capital contributions	28,668	116,407
55			
56	6a(v): Asset Relocations		
57	<i>Project or programme*</i>	(\$000)	(\$000)
58			
59			
60			
61			
62			
63	<i>* include additional rows if needed</i>		
64	All other projects or programmes - asset relocations	20,035	
65	Asset relocations expenditure		20,035
66	less Capital contributions funding asset relocations	12,345	
67	Asset relocations less capital contributions		7,690



Company Name

Vector

For Year Ended

31 March 2022

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

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

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

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

sch ref

68				
69	6a(vi): Quality of Supply			
70	Project or programme*	(\$000)	(\$000)	
71				
72				
73				
74				
75				
76	* include additional rows if needed			
77	All other projects programmes - quality of supply	106		
78	Quality of supply expenditure			106
79	less Capital contributions funding quality of supply			
80	Quality of supply less capital contributions			106
81	6a(vii): Legislative and Regulatory			
82	Project or programme*	(\$000)	(\$000)	
83				
84				
85				
86				
87				
88	* include additional rows if needed			
89	All other projects or programmes - legislative and regulatory	97		
90	Legislative and regulatory expenditure			97
91	less Capital contributions funding legislative and regulatory			
92	Legislative and regulatory less capital contributions			97
93	6a(viii): Other Reliability, Safety and Environment			
94	Project or programme*	(\$000)	(\$000)	
95				
96				
97				
98				
99				
100	* include additional rows if needed			
101	All other projects or programmes - other reliability, safety and environment	10,569		
102	Other reliability, safety and environment expenditure			10,569
103	less Capital contributions funding other reliability, safety and environment			
104	Other reliability, safety and environment less capital contributions			10,569
105				
106	6a(ix): Non-Network Assets			
107	Routine expenditure			
108	Project or programme*	(\$000)	(\$000)	
109				
110				
111				
112				
113				
114	* include additional rows if needed			
115	All other projects or programmes - routine expenditure	3,304		
116	Routine expenditure			3,304
117	Atypical expenditure			
118	Project or programme*	(\$000)	(\$000)	
119				
120				
121				
122				
123				
124	* include additional rows if needed			
125	All other projects or programmes - atypical expenditure	18,995		
126	Atypical expenditure			18,995
127				
128	Expenditure on non-network assets			22,299



Company Name **Vector**
 For Year Ended **31 March 2022**

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

This schedule requires a breakdown of operational expenditure incurred in the disclosure year.

EDBs must provide explanatory comment on their operational expenditure in Schedule 14 (Explanatory notes to templates). This includes explanatory comment on any atypical operational expenditure and assets replaced or renewed as part of asset replacement and renewal operational expenditure, and additional information on insurance.

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

sch ref

		(\$000)	(\$000)
7	6b(i): Operational Expenditure		
8	Service interruptions and emergencies	14,382	
9	Vegetation management	5,677	
10	Routine and corrective maintenance and inspection	19,488	
11	Asset replacement and renewal	15,512	
12	Network opex		55,059
13	System operations and network support	41,378	
14	Business support	40,316	
15	Non-network opex		81,694
16			
17	Operational expenditure		136,753
18	6b(ii): Subcomponents of Operational Expenditure (where known)		
19	Energy efficiency and demand side management, reduction of energy losses		
20	Direct billing*		
21	Research and development		
22	Insurance		3,600
23	* Direct billing expenditure by suppliers that directly bill the majority of their consumers		



Company Name

Vector

For Year Ended

31 March 2022

SCHEDULE 7: COMPARISON OF FORECASTS TO ACTUAL EXPENDITURE

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

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

sch ref

7	7(i): Revenue	Target (\$000) ¹	Actual (\$000)	% variance
8	Line charge revenue	602,980	599,637	(1%)
9	7(ii): Expenditure on Assets	Forecast (\$000) ²	Actual (\$000)	% variance
10	Consumer connection	88,828	125,989	42%
11	System growth	53,330	29,449	(45%)
12	Asset replacement and renewal	106,865	116,611	9%
13	Asset relocations	39,672	20,035	(49%)
14	Reliability, safety and environment:			
15	Quality of supply	—	106	—
16	Legislative and regulatory	40	97	143%
17	Other reliability, safety and environment	28,644	10,569	(63%)
18	Total reliability, safety and environment	28,684	10,772	(62%)
19	Expenditure on network assets	317,379	302,856	(5%)
20	Expenditure on non-network assets	46,614	22,299	(52%)
21	Expenditure on assets	363,993	325,155	(11%)
22	7(iii): Operational Expenditure			
23	Service interruptions and emergencies	15,043	14,382	(4%)
24	Vegetation management	6,590	5,677	(14%)
25	Routine and corrective maintenance and inspection	19,166	19,488	2%
26	Asset replacement and renewal	13,806	15,512	12%
27	Network opex	54,605	55,059	1%
28	System operations and network support	41,669	41,378	(1%)
29	Business support	40,289	40,316	0%
30	Non-network opex	81,958	81,694	(0%)
31	Operational expenditure	136,563	136,753	0%
32	7(iv): Subcomponents of Expenditure on Assets (where known)			
33	Energy efficiency and demand side management, reduction of energy losses	—	—	—
34	Overhead to underground conversion	8,053	9,251	15%
35	Research and development	—	1,549	—
36				
37	7(v): Subcomponents of Operational Expenditure (where known)			
38	Energy efficiency and demand side management, reduction of energy losses	—	—	—
39	Direct billing	—	—	—
40	Research and development	—	—	—
41	Insurance	3,554	3,600	1%

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

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



Company Name
For Year Ended
Network / Sub-Network Name

Vector Ltd
31 March 2022
Combined

SCHEDULE 8: REPORT ON BILLED QUANTITIES AND LINE CHARGE REVENUES

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

sch ref

8(i): Billed Quantities by Price Component

Consumer group name or price category code	Consumer type or types (eg, residential, commercial etc.)	Standard or non-standard consumer group (specify)	Average no. of ICPs in disclosure year	Energy delivered to ICPs in disclosure year (MWh)
ARCL	residential	Standard	44,344	247,125
ARCS	residential	Standard	32,400	301,881
ARUL	residential	Standard	12,757	48,298
ARUS	residential	Standard	12,610	67,092
ARRHC	residential	Standard	117,401	609,662
ARRHC	residential	Standard	59,452	652,976
ARRHL	residential	Standard	71,058	85,849
ARRHS	residential	Standard	7,861	73,195
ABSN	general	Standard	28,739	491,058
ABSN	general	Standard	1,703	17,187
ABSH	general	Standard	8,349	172,676
ALVN	low voltage	Standard	2,402	239,409
ALVT	low voltage	Standard	1,389	508,346
ATXN	transformer	Standard	170	22,069
ATXT	transformer	Standard	977	1,109,601
AHVN	high voltage	Standard	7	561
AHVT	high voltage	Standard	148	420,180
WRCL	residential	Standard	32,459	185,530
WRCS	residential	Standard	26,805	265,365
WRUL	residential	Standard	7,552	39,594
WRUS	residential	Standard	10,525	76,199
WRHLC	residential	Standard	71,854	389,097
WRHSC	residential	Standard	43,026	472,438
WRHL	residential	Standard	15,027	77,063
WRHS	residential	Standard	8,812	94,170
WBSN	general	Standard	15,165	230,066
WBSU	general	Standard	724	10,454
WBSH	general	Standard	8,048	135,146
WLVN	low voltage	Standard	940	118,829
WLVN	low voltage	Standard	254	123,231
WTXN	transformer	Standard	136	33,742
WTXH	transformer	Standard	292	349,796
WHVN	high voltage	Standard	—	—
WHVH	high voltage	Standard	25	112,397
NS	non-standard	Non-standard	29	594,306

593,411	7,780,372
29	594,306
593,440	8,374,678

Price component

Billed quantities by price component

FIXD	AICO	24UC	OPPK	PEAK	CAPY	DAMD	DEXA	PWRF
Day	kWh	kWh	kWh	kWh	kVA/Day	kVA/Day	kVA/Day	kVA/Day

16,199,073	247,124,936	—	—	—	—	—	—	—
11,836,645	301,881,481	—	—	—	—	—	—	—
4,674,527	—	48,298,406	—	—	—	—	—	—
4,581,487	—	67,092,327	—	—	—	—	—	—
42,873,717	—	—	425,161,993	184,499,930	—	—	—	—
21,708,181	—	—	458,778,832	194,196,851	—	—	—	—
7,675,112	—	—	60,139,081	25,710,372	—	—	—	—
2,858,252	—	—	51,624,736	21,570,633	—	—	—	—
10,507,741	—	491,057,905	—	—	—	—	—	—
26,379,567	—	17,187,104	—	—	—	—	—	—
3,034,983	—	—	123,578,216	49,097,603	—	—	—	—
877,507	—	239,499,196	—	—	131,621,414	—	—	315,395
—	—	508,345,752	—	—	136,434,067	42,653,134	—	3,489,382
62,297	—	22,068,727	—	—	14,224,125	—	—	13,927
—	—	1,109,600,878	—	—	261,974,141	87,865,978	—	3,605,969
2,555	—	561,257	—	—	517,935	—	—	3,722
—	—	420,180,162	—	—	68,769,615	31,553,221	47,860	1,371,716
11,864,737	185,530,269	—	—	—	—	—	—	—
9,799,427	265,364,697	—	—	—	—	—	—	—
2,770,879	—	39,593,715	—	—	—	—	—	—
3,830,678	—	76,199,160	—	—	—	—	—	—
26,227,849	—	—	270,226,145	118,870,368	—	—	—	—
15,700,976	—	—	330,601,768	141,836,508	—	—	—	—
5,470,451	—	—	53,612,421	23,450,740	—	—	—	—
3,207,021	—	—	65,875,704	28,294,673	—	—	—	—
5,538,429	—	230,066,075	—	—	—	—	—	—
16,988,928	—	10,454,366	—	—	—	—	—	—
2,927,725	—	—	96,351,076	38,794,782	—	—	—	—
343,315	—	118,829,191	—	—	50,821,558	—	—	262,005
92,622	—	123,230,579	—	—	25,031,073	9,585,436	—	649,420
49,352	—	33,742,131	—	—	12,190,942	—	—	166,330
107,039	—	349,795,893	—	—	80,213,228	27,611,037	—	1,174,756
—	—	—	—	—	—	—	—	—
9,125	—	112,396,670	—	—	15,646,050	7,733,019	4,594	155,343
10,585	—	—	—	—	—	—	—	27,801

258,200,197	999,901,383	4,018,199,494	1,935,949,972	826,322,460	797,444,148	207,001,825	52,454	11,207,965
10,585	—	—	—	—	—	—	—	27,801
258,210,782	999,901,383	4,018,199,494	1,935,949,972	826,322,460	797,444,148	207,001,825	52,454	11,235,766

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

Company Name
For Year Ended
Network / Sub-Network Name

Vector Ltd
31 March 2022
Combined

SCHEDULE 8: REPORT ON BILLED QUANTITIES AND LINE CHARGE REVENUES

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

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

Price component

FIXD	AICO	24UC	OPFK	PEAK	CAPY	DAMD	DEXA	PWRF
Day	kWh	kWh	kWh	kWh	kVA/Day	kVA/Day	kVA/Day	kVA/Day

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

			Total line charge revenue in disclosure year	Notional revenue foregone from posted discounts (if applicable)
ARCL	residential	Standard	\$24,803	
ARCS	residential	Standard	\$27,299	
ARUL	residential	Standard	\$5,375	
ARUS	residential	Standard	\$8,621	
ARHLC	residential	Standard	\$61,352	
ARHSC	residential	Standard	\$54,218	
ARHL	residential	Standard	\$9,383	
ARHS	residential	Standard	\$6,963	
ABSN	general	Standard	\$37,889	
ABSU	general	Standard	\$2,564	
ABSH	general	Standard	\$12,189	
ALVN	low voltage	Standard	\$21,233	
ALVT	low voltage	Standard	\$26,620	
ATXN	transformer	Standard	\$1,971	
ATXT	transformer	Standard	\$52,614	
AHVN	high voltage	Standard	\$58	
AHVT	high voltage	Standard	\$17,588	
WRCL	residential	Standard	\$18,514	
WRCS	residential	Standard	\$23,256	
WRUL	residential	Standard	\$4,233	
WRULC	residential	Standard	\$8,261	
WRHLC	residential	Standard	\$38,941	
WRHSC	residential	Standard	\$39,195	
WRHL	residential	Standard	\$8,218	
WRHS	residential	Standard	\$8,468	
WBSN	general	Standard	\$18,364	
WBSU	general	Standard	\$1,629	
WBSH	general	Standard	\$10,146	
WLVN	low voltage	Standard	\$8,139	
WLVH	low voltage	Standard	\$5,449	
WTXN	transformer	Standard	\$1,929	
WTXH	transformer	Standard	\$13,669	
WHVN	high voltage	Standard	–	
WHVH	high voltage	Standard	\$3,282	
NS	non-standard	Non-standard	\$17,204	

	Total distribution line charge revenue	Total transmission line charge revenue (if available)	Rate (eg, \$ per day, \$ per kWh, etc.)
	\$17,711	\$7,092	
	\$18,635	\$8,664	
	\$3,689	\$1,686	
	\$6,279	\$2,342	
	\$46,758	\$14,594	
	\$38,857	\$15,361	
	\$6,833	\$2,550	
	\$4,823	\$2,140	
	\$20,751	\$17,138	
	\$2,227	\$337	
	\$7,319	\$4,870	
	\$16,898	\$4,335	
	\$18,823	\$7,797	
	\$1,572	\$399	
	\$36,552	\$16,062	
	\$48	\$10	
	\$11,820	\$5,768	
	\$13,189	\$5,325	
	\$15,640	\$7,616	
	\$2,851	\$1,382	
	\$5,602	\$2,659	
	\$29,538	\$9,403	
	\$27,976	\$11,219	
	\$5,892	\$2,326	
	\$5,661	\$2,807	
	\$10,335	\$8,029	
	\$1,424	\$205	
	\$6,298	\$3,848	
	\$5,988	\$2,151	
	\$3,697	\$1,752	
	\$1,318	\$611	
	\$8,622	\$5,047	
	–	–	
	\$1,868	\$1,414	
	\$10,125	\$7,079	

\$2,440	\$22,363	–	–	–	–	–	–	–
\$12,958	\$14,341	–	–	–	–	–	–	–
\$704	–	\$4,671	–	–	–	–	–	–
\$5,016	–	\$3,605	–	–	–	–	–	–
\$6,459	–	–	\$28,098	\$26,795	–	–	–	–
\$23,765	–	–	\$10,598	\$19,855	–	–	–	–
\$1,156	–	–	\$3,974	\$4,253	–	–	–	–
\$3,129	–	–	\$1,193	\$2,641	–	–	–	–
\$11,503	–	\$26,386	–	–	–	–	–	–
\$2,120	–	\$444	–	–	–	–	–	–
\$3,323	–	–	\$2,855	\$6,011	–	–	–	–
\$1,648	–	\$13,663	–	–	\$5,830	–	–	\$92
–	–	\$6,433	–	–	\$6,043	\$13,122	–	\$1,022
\$115	–	\$1,235	–	–	\$617	–	–	\$4
–	–	\$13,708	–	–	\$11,367	\$26,483	–	\$1,056
\$5	–	\$30	–	–	\$22	–	–	\$1
–	–	\$5,026	–	–	\$2,894	\$9,222	\$44	\$402
\$1,781	\$16,733	–	–	–	–	–	–	–
\$10,692	\$12,564	–	–	–	–	–	–	–
\$416	–	\$3,817	–	–	–	–	–	–
\$4,180	–	\$4,081	–	–	–	–	–	–
\$3,938	–	–	\$17,798	\$17,205	–	–	–	–
\$17,131	–	–	\$7,611	\$14,453	–	–	–	–
\$821	–	–	\$3,531	\$3,866	–	–	–	–
\$3,499	–	–	\$1,517	\$3,452	–	–	–	–
\$6,043	–	\$12,321	–	–	–	–	–	–
\$1,360	–	\$269	–	–	–	–	–	–
\$3,194	–	–	\$2,218	\$4,734	–	–	–	–
\$2,076	–	\$4,175	–	–	\$1,811	–	–	\$77
\$1,054	–	\$666	–	–	\$892	\$2,647	–	\$190
\$292	–	\$1,162	–	–	\$426	–	–	\$49
\$1,195	–	\$1,856	–	–	\$2,802	\$7,473	–	\$343
–	–	–	–	–	–	–	–	–
\$99	–	\$574	–	–	\$531	\$2,030	\$3	\$45
\$16,982	–	–	–	–	–	–	–	\$222

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

Standard consumer totals	\$582,433	–
Non-standard consumer totals	\$17,204	–
Total for all consumers	\$599,637	–

\$405,494	\$176,939
\$10,125	\$7,079
\$415,619	\$184,018

\$132,112	\$66,001	\$104,122	\$79,393	\$103,265	\$33,235	\$60,977	\$47	\$3,281
\$16,982	–	–	–	–	–	–	–	\$222
\$149,094	\$66,001	\$104,122	\$79,393	\$103,265	\$33,235	\$60,977	\$47	\$3,503

8(iii): Number of ICPs directly billed

Number of directly billed ICPs at year end

43

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Company Name	Vector Ltd
For Year Ended	31 March 2022
Network / Sub-Network Name	Southern

SCHEDULE 8: REPORT ON BILLED QUANTITIES AND LINE CHARGE REVENUES

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

sch ref

8(i): Billed Quantities by Price Component**Billed quantities by price component**

Price component

FIXD	AICO	24UC	OPFK	PEAK	CAPY	DAMD	DEXA	PWRF
Day	kWh	kWh	kWh	kWh	kVA/Day	kVA/Day	kVA/Day	kVA/Day

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

Consumer group name or price category code	Consumer type or types (eg, residential, commercial etc.)	Standard or non-standard consumer group (specify)	Average no. of ICPs in disclosure year	Energy delivered to ICPs in disclosure year (MWh)
ARCL	residential	Standard	44,344	247,125
ARCS	residential	Standard	32,400	301,881
ARJL	residential	Standard	12,757	48,298
ARJ5	residential	Standard	12,610	67,092
ARHLC	residential	Standard	117,401	609,662
ARHSC	residential	Standard	59,452	652,976
ARHL	residential	Standard	21,058	85,849
ARHS	residential	Standard	7,861	73,195
ABSN	general	Standard	28,739	491,058
ABSU	general	Standard	1,703	17,187
ABSH	general	Standard	8,349	172,676
ALVN	low voltage	Standard	2,402	239,499
ALVT	low voltage	Standard	1,389	508,346
ATXN	transformer	Standard	170	22,069
ATXT	transformer	Standard	977	1,109,601
AHVN	high voltage	Standard	7	561
AHVT	high voltage	Standard	148	420,180
NS	non-standard	Non-standard	25	490,732
Add extra rows for additional consumer groups or price category codes as necessary				
Standard consumer totals			351,767	5,067,255
Non-standard consumer totals			25	490,732
Total for all consumers			351,792	5,557,987

16,199,073	247,124,936	—	—	—	—	—	—	—
11,836,645	301,881,481	—	—	—	—	—	—	—
4,674,527	—	48,298,406	—	—	—	—	—	—
4,581,487	—	67,092,327	—	—	—	—	—	—
42,873,717	—	—	425,161,993	184,499,930	—	—	—	—
21,708,181	—	—	458,778,832	194,196,851	—	—	—	—
7,675,112	—	—	60,139,081	25,710,372	—	—	—	—
2,858,252	—	—	51,624,736	21,570,633	—	—	—	—
10,507,741	—	491,057,905	—	—	—	—	—	—
26,379,567	—	17,187,104	—	—	—	—	—	—
3,034,983	—	—	123,578,216	49,097,603	—	—	—	—
877,507	—	239,499,196	—	—	131,621,414	—	—	315,395
—	—	508,345,752	—	—	136,434,067	42,653,134	—	3,489,382
62,297	—	22,068,727	—	—	14,224,125	—	—	13,927
—	—	1,109,600,878	—	—	261,974,141	87,865,978	—	3,605,969
2,555	—	561,257	—	—	517,935	—	—	5,722
—	—	420,180,162	—	—	68,769,615	31,553,221	47,860	1,371,716
9,125	—	—	—	—	—	—	—	14,253

153,271,644	549,006,417	2,923,891,714	1,119,282,858	475,075,389	613,541,297	162,072,333	47,860	8,800,111
9,125	—	—	—	—	—	—	—	14,253
153,280,769	549,006,417	2,923,891,714	1,119,282,858	475,075,389	613,541,297	162,072,333	47,860	8,814,364

Company Name	Vector Ltd
For Year Ended	31 March 2022
Network / Sub-Network Name	Southern

SCHEDULE 8: REPORT ON BILLED QUANTITIES AND LINE CHARGE REVENUES

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

8(ii): Line Charge Revenues (\$000) by Price Component**Line charge revenues (\$000) by price component**

Price component

FIXD	AICO	24UC	OPFK	PEAK	CAPY	DAMD	DEXA	PWRF
Day	kWh	kWh	kWh	kWh	kVA/Day	kVA/Day	kVA/Day	kVA/Day
\$2,440	\$22,363	–	–	–	–	–	–	–
\$12,958	\$14,341	–	–	–	–	–	–	–
\$704	–	\$4,671	–	–	–	–	–	–
\$5,016	–	\$3,605	–	–	–	–	–	–
\$6,459	–	–	\$28,098	\$26,795	–	–	–	–
\$23,765	–	–	\$10,598	\$19,855	–	–	–	–
\$1,156	–	–	\$3,974	\$4,253	–	–	–	–
\$3,129	–	–	\$1,193	\$2,641	–	–	–	–
\$11,503	–	\$26,386	–	–	–	–	–	–
\$2,120	–	\$444	–	–	–	–	–	–
\$3,323	–	–	\$2,855	\$6,011	–	–	–	–
\$1,648	–	\$13,663	–	–	\$5,830	–	–	\$92
–	–	\$6,433	–	–	\$6,043	\$13,122	–	\$1,022
\$115	–	\$1,235	–	–	\$617	–	–	\$4
–	–	\$13,708	–	–	\$11,367	\$26,483	–	\$1,056
\$5	–	\$30	–	–	\$22	–	–	\$1
–	–	\$5,026	–	–	\$2,894	\$9,222	\$44	\$402
\$14,404	–	–	–	–	–	–	–	\$114
\$74,341	\$36,704	\$75,201	\$46,718	\$59,555	\$26,773	\$48,827	\$44	\$2,577
\$14,404	–	–	–	–	–	–	–	\$114
\$88,745	\$36,704	\$75,201	\$46,718	\$59,555	\$26,773	\$48,827	\$44	\$2,691

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

Consumer group name or price category code	Consumer type or types (eg, residential, commercial etc.)	Standard or non-standard consumer group (specify)	Total line charge revenue in disclosure year	Notional revenue foregone from posted discounts (if applicable)
ARCL	residential	Standard	\$24,803	–
ARCS	residential	Standard	\$27,299	–
ARUL	residential	Standard	\$5,375	–
ARUS	residential	Standard	\$8,621	–
ARHLC	residential	Standard	\$61,352	–
ARHSC	residential	Standard	\$54,218	–
ARHL	residential	Standard	\$9,383	–
ARHS	residential	Standard	\$6,963	–
ABSN	general	Standard	\$37,889	–
ABSU	general	Standard	\$2,564	–
ABSH	general	Standard	\$12,189	–
ALVN	low voltage	Standard	\$21,233	–
ALVT	low voltage	Standard	\$26,620	–
ATXN	transformer	Standard	\$1,971	–
ATXT	transformer	Standard	\$52,614	–
AHVN	high voltage	Standard	\$58	–
AHVT	high voltage	Standard	\$17,588	–
NS	non-standard	Non-standard	\$14,518	–
Add extra rows for additional consumer groups or price category codes as necessary				
Standard consumer totals			\$370,740	–
Non-standard consumer totals			\$14,518	–
Total for all consumers			\$385,258	–

Total distribution line charge revenue	Total transmission line charge revenue (if available)	Rate (eg, \$ per day, \$ per kWh, etc.)
\$17,711	\$7,092	–
\$18,635	\$8,664	–
\$3,689	\$1,686	–
\$6,279	\$2,342	–
\$46,758	\$14,594	–
\$38,857	\$15,361	–
\$6,833	\$2,550	–
\$4,823	\$2,140	–
\$20,751	\$17,138	–
\$2,227	\$337	–
\$7,319	\$4,870	–
\$16,898	\$4,335	–
\$18,823	\$7,797	–
\$1,572	\$399	–
\$36,552	\$16,062	–
\$48	\$10	–
\$11,820	\$5,768	–
\$8,312	\$6,206	–
\$259,595	\$111,145	–
\$8,312	\$6,206	–
\$267,907	\$117,351	–

8(iii): Number of ICPs directly billed

Number of directly billed ICPs at year end

33

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Company Name	Vector Ltd
For Year Ended	31 March 2022
Network / Sub-Network Name	Northern

SCHEDULE 8: REPORT ON BILLED QUANTITIES AND LINE CHARGE REVENUES

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

sch ref

8(i): Billed Quantities by Price Component**Billed quantities by price component**

Price component

	FIXD	AICO	24UC	OPFK	PEAK	CAPY	DAMD	DEXA	PWRF
Day	kWh	kWh	kWh	kWh	kWh	kVA/Day	kVA/Day	kVA/Day	kVAx/Day

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

Consumer group name or price category code	Consumer type or types (eg, residential, commercial etc.)	Standard or non-standard consumer group (specify)	Average no. of ICPs in disclosure year	Energy delivered to ICPs in disclosure year (MWh)
WRCL	residential	Standard	32,459	185,530
WRCS	residential	Standard	26,805	265,365
WRUL	residential	Standard	7,552	39,594
WRUS	residential	Standard	10,525	76,199
WRHLC	residential	Standard	71,854	389,097
WRHSC	residential	Standard	43,026	472,438
WRHL	residential	Standard	15,027	77,063
WRHS	residential	Standard	8,812	94,170
WBSN	general	Standard	15,165	230,066
WBSU	general	Standard	724	10,454
WBSH	general	Standard	8,048	135,146
WLVN	low voltage	Standard	940	118,829
WLVI	low voltage	Standard	254	123,231
WTXN	transformer	Standard	136	33,742
WTXH	transformer	Standard	292	349,796
WHVN	high voltage	Standard	—	—
WHVI	high voltage	Standard	25	112,397
NS	non-standard	Non-standard	4	103,574

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

Standard consumer totals	241,644	2,713,117
Non-standard consumer totals	4	103,574
Total for all consumers	241,648	2,816,691

11,864,737	185,530,269	—	—	—	—	—	—	—	—
9,799,427	265,364,697	—	—	—	—	—	—	—	—
2,770,879	—	39,593,715	—	—	—	—	—	—	—
3,830,678	—	76,199,160	—	—	—	—	—	—	—
26,227,849	—	—	270,226,145	118,870,368	—	—	—	—	—
15,700,976	—	—	330,601,768	141,836,508	—	—	—	—	—
5,470,451	—	—	53,612,421	23,450,740	—	—	—	—	—
3,207,021	—	—	65,875,704	28,294,673	—	—	—	—	—
5,538,429	—	230,066,075	—	—	—	—	—	—	—
16,988,928	—	10,454,366	—	—	—	—	—	—	—
2,927,725	—	—	96,351,076	38,794,782	—	—	—	—	—
343,315	—	118,829,191	—	—	50,821,558	—	—	—	262,005
92,622	—	123,230,579	—	—	25,031,073	9,585,436	—	—	649,420
49,352	—	33,742,131	—	—	12,190,942	—	—	—	166,330
107,039	—	349,795,893	—	—	80,213,228	27,611,037	—	—	1,174,756
—	—	—	—	—	—	—	—	—	—
9,125	—	112,396,670	—	—	15,646,050	7,733,019	4,594	—	155,343
1,460	—	—	—	—	—	—	—	—	13,548

104,928,553	450,894,966	1,094,307,780	816,667,114	351,247,071	183,902,851	44,929,492	4,594	2,407,854
1,460	—	—	—	—	—	—	—	13,548
104,930,013	450,894,966	1,094,307,780	816,667,114	351,247,071	183,902,851	44,929,492	4,594	2,421,402

Company Name	Vector Ltd
For Year Ended	31 March 2022
Network / Sub-Network Name	Northern

SCHEDULE 8: REPORT ON BILLED QUANTITIES AND LINE CHARGE REVENUES

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

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

Line charge revenues (\$000) by price component

Consumer group name or price category code	Consumer type or types (eg, residential, commercial etc.)	Standard or non-standard consumer group (specify)	Total line charge revenue in disclosure year	Notional revenue foregone from posted discounts (if applicable)
WRCL	residential	Standard	\$18,514	
WRCS	residential	Standard	\$23,256	
WRUL	residential	Standard	\$4,233	
WRUS	residential	Standard	\$8,261	
WRHLC	residential	Standard	\$38,941	
WRHSC	residential	Standard	\$39,195	
WRHL	residential	Standard	\$8,218	
WRHS	residential	Standard	\$8,468	
WBSN	general	Standard	\$18,364	
WBSU	general	Standard	\$1,629	
WBSH	general	Standard	\$10,146	
WLVN	low voltage	Standard	\$8,139	
WLVH	low voltage	Standard	\$5,449	
WTXN	transformer	Standard	\$1,929	
WTXH	transformer	Standard	\$13,669	
WHVN	high voltage	Standard	–	
WHVH	high voltage	Standard	\$3,282	
NS	non-standard	Non-standard	\$2,686	
Add extra rows for additional consumer groups or price category codes as necessary				
Standard consumer totals			\$211,693	–
Non-standard consumer totals			\$2,686	–
Total for all consumers			\$214,379	–

Total distribution line charge revenue	Total transmission line charge revenue (if available)
\$13,189	\$5,325
\$15,640	\$7,616
\$2,851	\$1,382
\$5,602	\$2,659
\$29,538	\$9,403
\$27,976	\$11,219
\$5,892	\$2,326
\$5,661	\$2,807
\$10,335	\$8,029
\$1,424	\$205
\$6,298	\$3,848
\$5,988	\$2,151
\$3,697	\$1,752
\$1,318	\$611
\$8,622	\$5,047
–	–
\$1,868	\$1,414
\$1,813	\$873
\$145,899	\$65,794
\$1,813	\$873
\$147,712	\$66,667

Price component
Rate (eg, \$ per day, \$ per kWh, etc.)

FIXD	AICO	24UC	OPFK	PEAK	CAPY	DAMD	DEXA	PWRF
Day	kWh	kWh	kWh	kWh	kVA/Day	kVA/Day	kVA/Day	kVA/Day
\$1,781	\$16,733	–	–	–	–	–	–	–
\$10,692	\$12,564	–	–	–	–	–	–	–
\$416	–	\$3,817	–	–	–	–	–	–
\$4,180	–	\$4,081	–	–	–	–	–	–
\$3,938	–	–	\$17,798	\$17,205	–	–	–	–
\$17,131	–	–	\$7,611	\$14,453	–	–	–	–
\$821	–	–	\$3,531	\$3,866	–	–	–	–
\$3,499	–	–	\$1,517	\$3,452	–	–	–	–
\$6,043	–	\$12,321	–	–	–	–	–	–
\$1,360	–	\$269	–	–	–	–	–	–
\$3,194	–	–	\$2,218	\$4,734	–	–	–	–
\$2,076	–	\$4,175	–	–	\$1,811	–	–	\$77
\$1,054	–	\$666	–	–	\$892	\$2,647	–	\$190
\$292	–	\$1,162	–	–	\$426	–	–	\$49
\$1,195	–	\$1,856	–	–	\$2,802	\$7,473	–	\$343
–	–	–	–	–	–	–	–	–
\$99	–	\$574	–	–	\$531	\$2,030	\$3	\$45
\$2,578	–	–	–	–	–	–	–	\$108
\$57,771	\$29,297	\$28,921	\$32,675	\$43,710	\$6,462	\$12,150	\$3	\$704
\$2,578	–	–	–	–	–	–	–	\$108
\$60,349	\$29,297	\$28,921	\$32,675	\$43,710	\$6,462	\$12,150	\$3	\$812

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

8(iii): Number of ICPs directly billed

Number of directly billed ICPs at year end

10

Check ☒ OK

Company Name

Vector

For Year Ended

31 March 2022

Network / Sub-network Name

Combined

SCHEDULE 9a: ASSET REGISTER

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

sch ref

						Items at start of year (quantity)	Items at end of year (quantity)	Net change	Data accuracy (1-4)
	Voltage	Asset category	Asset class	Units					
8	All	Overhead Line	Concrete poles / steel structure	No.		118,014	118,699	685	3
9	All	Overhead Line	Wood poles	No.		5,714	5,382	-332	2
10	All	Overhead Line	Other pole types	No.		1,022	1,181	159	3
11	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km		365	363	-2	4
12	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km		27	27	0	4
13	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km		376	376	0	4
14	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km		147	146	-1	4
15	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressurised)	km		0	0	0	N/A
16	HV	Subtransmission Cable	Subtransmission UG up to 66kV (PILC)	km		29	23	-6	4
17	HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	km		31	31	0	4
18	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Oil pressurised)	km		17	17	0	4
19	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Gas Pressurised)	km		0	0	0	N/A
20	HV	Subtransmission Cable	Subtransmission UG 110kV+ (PILC)	km		0	0	0	N/A
21	HV	Subtransmission Cable	Subtransmission submarine cable	km		12	12	0	4
22	HV	Zone substation Buildings	Zone substations up to 66kV	No.		104	104	0	4
23	HV	Zone substation Buildings	Zone substations 110kV+	No.		7	7	0	4
24	HV	Zone substation switchgear	50/66/110kV CB (Indoor)	No.		20	22	2	4
25	HV	Zone substation switchgear	50/66/110kV CB (Outdoor)	No.		2	2	0	4
26	HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No.		0	0	0	N/A
27	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.		184	174	-10	4
28	HV	Zone substation switchgear	33kV RMU	No.		7	6	-1	4
29	HV	Zone substation switchgear	22/33kV CB (Indoor)	No.		257	286	29	4
30	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.		121	119	-2	4
31	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.		1,478	1,500	22	4
32	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.		0	0	0	N/A
33	HV	Zone Substation Transformer	Zone Substation Transformers	No.		219	222	3	4
34	HV	Distribution Line	Distribution OH Open Wire Conductor	km		3,738	3,719	-19	4
35	HV	Distribution Line	Distribution OH Aerial Cable Conductor	km		0	0	0	N/A
36	HV	Distribution Line	SWER conductor	km		0	0	0	N/A
37	HV	Distribution Cable	Distribution UG XLPE or PVC	km		1,623	1,686	63	4
38	HV	Distribution Cable	Distribution UG PILC	km		2,178	2,180	2	4
39	HV	Distribution Cable	Distribution Submarine Cable	km		8	8	0	4
40	HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers	No.		301	336	35	4
41	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.		314	352	38	3
42	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.		10,848	11,619	771	3
43	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.		3,186	3,087	-99	3
44	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.		6,072	6,260	188	4
45	HV	Distribution Transformer	Pole Mounted Transformer	No.		7,604	7,580	-24	4
46	HV	Distribution Transformer	Ground Mounted Transformer	No.		14,721	14,917	196	4
47	HV	Distribution Transformer	Voltage regulators	No.		12	15	3	4
48	HV	Distribution Substations	Ground Mounted Substation Housing	No.		13,218	13,833	615	3
49	LV	LV Line	LV OH Conductor	km		4,154	4,128	-26	3
50	LV	LV Cable	LV UG Cable	km		6,439	6,565	126	4
51	LV	LV Street lighting	LV OH/UG Streetlight circuit	km		479	474	-5	3
52	LV	Connections	OH/UG consumer service connections	No.		588,018	597,617	9,599	4
53	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.		4,163	4,296	133	3
54	All	SCADA and communications	SCADA and communications equipment operating as a single system	Lot		375	389	14	3
55	All	Capacitor Banks	Capacitors including controls	No		74	68	-6	4
56	All	Load Control	Centralised plant	Lot		32	32	0	3
57	All	Load Control	Relays	No		0	0	0	N/A
58	All	Civils	Cable Tunnels	km		10	10	0	3

Company Name

Vector

For Year Ended

31 March 2022

Network / Sub-network Name

Southern

SCHEDULE 9a: ASSET REGISTER

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

sch ref

						Items at start of year (quantity)	Items at end of year (quantity)	Net change	Data accuracy (1-4)
	Voltage	Asset category	Asset class	Units					
8	All	Overhead Line	Concrete poles / steel structure	No.		50,668	51,031	363	2
9	All	Overhead Line	Wood poles	No.		3,649	3,383	-266	2
10	All	Overhead Line	Other pole types	No.		442	499	57	3
11	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km		48	48	0	4
12	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km		0	0	0	N/A
13	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km		230	229	-1	3
14	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km		145	143	-1	4
15	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressurised)	km		0	0	0	N/A
16	HV	Subtransmission Cable	Subtransmission UG up to 66kV (PILC)	km		28	22	-6	3
17	HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	km		31	31	0	4
18	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Oil pressurised)	km		17	17	0	4
19	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Gas Pressurised)	km		0	0	0	N/A
20	HV	Subtransmission Cable	Subtransmission UG 110kV+ (PILC)	km		0	0	0	N/A
21	HV	Subtransmission Cable	Subtransmission submarine cable	km		11	11	0	4
22	HV	Zone substation Buildings	Zone substations up to 66kV	No.		51	51	0	4
23	HV	Zone substation Buildings	Zone substations 110kV+	No.		5	5	0	4
24	HV	Zone substation switchgear	50/66/110kV CB (Indoor)	No.		20	22	2	4
25	HV	Zone substation switchgear	50/66/110kV CB (Outdoor)	No.		0	0	0	4
26	HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No.		0	0	0	N/A
27	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.		0	0	0	N/A
28	HV	Zone substation switchgear	33kV RMU	No.		0	0	0	N/A
29	HV	Zone substation switchgear	22/33kV CB (Indoor)	No.		131	154	23	4
30	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.		2	0	-2	N/A
31	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.		958	971	13	4
32	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.		0	0	0	N/A
33	HV	Zone Substation Transformer	Zone Substation Transformers	No.		128	130	2	4
34	HV	Distribution Line	Distribution OH Open Wire Conductor	km		881	877	-4	2
35	HV	Distribution Line	Distribution OH Aerial Cable Conductor	km		0	0	0	N/A
36	HV	Distribution Line	SWER conductor	km		0	0	0	N/A
37	HV	Distribution Cable	Distribution UG XLPE or PVC	km		728	765	38	3
38	HV	Distribution Cable	Distribution UG PILC	km		1,562	1,574	12	3
39	HV	Distribution Cable	Distribution Submarine Cable	km		2	2	0	4
40	HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers	No.		71	85	14	4
41	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.		255	267	12	3
42	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.		2,532	2,702	170	3
43	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.		2,406	2,253	-153	4
44	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.		4,590	4,659	69	4
45	HV	Distribution Transformer	Pole Mounted Transformer	No.		1,969	1,956	-13	4
46	HV	Distribution Transformer	Ground Mounted Transformer	No.		7,134	7,223	89	4
47	HV	Distribution Transformer	Voltage regulators	No.		5	8	3	4
48	HV	Distribution Substations	Ground Mounted Substation Housing	No.		6,225	6,288	63	3
49	LV	LV Line	LV OH Conductor	km		1,926	1,914	-12	2
50	LV	LV Cable	LV UG Cable	km		3,880	3,928	48	3
51	LV	LV Street lighting	LV OH/UG Streetlight circuit	km		264	265	1	2
52	LV	Connections	OH/UG consumer service connections	No.		349,020	353,478	4,458	4
53	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.		2,175	2,265	90	3
54	All	SCADA and communications	SCADA and communications equipment operating as a single system	Lot		204	205	1	3
55	All	Capacitor Banks	Capacitors including controls	No.		13	9	-4	4
56	All	Load Control	Centralised plant	Lot		21	21	0	3
57	All	Load Control	Relays	No.		0	0	0	N/A
58	All	Civils	Cable Tunnels	km		10	10	0	3

Company Name

Vector

For Year Ended

31 March 2022

Network / Sub-network Name

Northern

SCHEDULE 9a: ASSET REGISTER

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

sch ref

						Items at start of year (quantity)	Items at end of year (quantity)	Net change	Data accuracy (1-4)
8	Voltage	Asset category	Asset class	Units					
9	All	Overhead Line	Concrete poles / steel structure	No.		67,346	67,668	322	4
10	All	Overhead Line	Wood poles	No.		2,065	1,999	-66	3
11	All	Overhead Line	Other pole types	No.		580	682	102	3
12	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km		317	315	-2	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		146	146	0	3
15	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km		2	2	0	4
16	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressurised)	km		0	0	0	N/A
17	HV	Subtransmission Cable	Subtransmission UG up to 66kV (PILC)	km		1	1	0	4
18	HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	km		0	0	0	N/A
19	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Oil pressurised)	km		0	0	0	N/A
20	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Gas Pressurised)	km		0	0	0	N/A
21	HV	Subtransmission Cable	Subtransmission UG 110kV+ (PILC)	km		0	0	0	N/A
22	HV	Subtransmission Cable	Subtransmission submarine cable	km		1	1	0	4
23	HV	Zone substation Buildings	Zone substations up to 66kV	No.		53	53	0	3
24	HV	Zone substation Buildings	Zone substations 110kV+	No.		2	2	0	4
25	HV	Zone substation switchgear	50/66/110kV CB (Indoor)	No.		0	0	0	N/A
26	HV	Zone substation switchgear	50/66/110kV CB (Outdoor)	No.		2	2	0	4
27	HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No.		0	0	0	N/A
28	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.		184	174	-10	4
29	HV	Zone substation switchgear	33kV RMU	No.		7	6	-1	4
30	HV	Zone substation switchgear	22/33kV CB (Indoor)	No.		126	132	6	4
31	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.		119	119	0	4
32	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.		520	529	9	4
33	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.		0	0	0	N/A
34	HV	Zone Substation Transformer	Zone Substation Transformers	No.		91	92	1	4
35	HV	Distribution Line	Distribution OH Open Wire Conductor	km		2,857	2,842	-15	4
36	HV	Distribution Line	Distribution OH Aerial Cable Conductor	km		0	0	0	N/A
37	HV	Distribution Line	SWER conductor	km		0	0	0	N/A
38	HV	Distribution Cable	Distribution UG XLPE or PVC	km		895	921	26	3
39	HV	Distribution Cable	Distribution UG PILC	km		616	606	-10	4
40	HV	Distribution Cable	Distribution Submarine Cable	km		7	6	0	4
41	HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers	No.		230	251	21	4
42	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.		59	85	26	3
43	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.		8,316	8,917	601	3
44	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.		780	834	54	3
45	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.		1,482	1,601	119	4
46	HV	Distribution Transformer	Pole Mounted Transformer	No.		5,635	5,624	-11	4
47	HV	Distribution Transformer	Ground Mounted Transformer	No.		7,587	7,694	107	4
48	HV	Distribution Transformer	Voltage regulators	No.		7	7	0	4
49	HV	Distribution Substations	Ground Mounted Substation Housing	No.		6,993	7,545	552	3
50	LV	LV Line	LV OH Conductor	km		2,228	2,214	-13	3
51	LV	LV Cable	LV UG Cable	km		2,559	2,637	78	3
52	LV	LV Street lighting	LV OH/UG Streetlight circuit	km		215	209	-6	3
53	LV	Connections	OH/UG consumer service connections	No.		238,998	244,139	5,141	4
54	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.		1,988	2,031	43	3
55	All	SCADA and communications	SCADA and communications equipment operating as a single system	Lot		171	184	13	2
56	All	Capacitor Banks	Capacitors including controls	No		61	59	-2	4
57	All	Load Control	Centralised plant	Lot		11	11	0	4
58	All	Load Control	Relays	No		0	0	0	N/A
59	All	Civils	Cable Tunnels	km		0	0	0	N/A

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.

8	Disclosure Year (year ended)	31 March 2022
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Number of assets at disclosure year end by installation date

[illegible]

Vector
31 March 2022
Southern

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.

8	Disclosure Year (year ended)	31 March 2022
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Vector Electricity Information Disclosures 2022 Schedules-1-to-10

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.

Company Name

Vector

For Year Ended

31 March 2022

Network / Sub-network Name

Combined

SCHEDULE 9c: REPORT ON OVERHEAD LINES AND UNDERGROUND CABLES

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

sch ref

9			
10	Circuit length by operating voltage (at year end)	Overhead (km)	Underground (km)
11	> 66kV	27	49
12	50kV & 66kV	-	-
13	33kV	363	439
14	SWER (all SWER voltages)	-	-
15	22kV (other than SWER)	2	168
16	6.6kV to 11kV (inclusive—other than SWER)	3,716	3,822
17	Low voltage (< 1kV)	4,128	6,565
18	Total circuit length (for supply)	8,236	11,044
19			
20	Dedicated street lighting circuit length (km)	17	457
21	Circuit in sensitive areas (conservation areas, iwi territory etc) (km)		4,664
22			
23	Overhead circuit length by terrain (at year end)	Circuit length (km)	(% of total overhead length)
24	Urban	4,691	57%
25	Rural	3,545	43%
26	Remote only		-
27	Rugged only		-
28	Remote and rugged		-
29	Unallocated overhead lines		-
30	Total overhead length	8,236	100%
31			
32		Circuit length (km)	(% of total circuit length)
33	Length of circuit within 10km of coastline or geothermal areas (where known)	19,229	99.7%
34		Circuit length (km)	(% of total overhead length)
35	Overhead circuit requiring vegetation management	8,236	100%

Company Name

Vector

For Year Ended

31 March 2022

Network / Sub-network Name

Southern

SCHEDULE 9c: REPORT ON OVERHEAD LINES AND UNDERGROUND CABLES

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

sch ref

9			
10	Circuit length by operating voltage (at year end)	Overhead (km)	Underground (km)
11	> 66kV	-	49
12	50kV & 66kV	-	-
13	33kV	48	289
14	SWER (all SWER voltages)	-	-
15	22kV (other than SWER)	2	168
16	6.6kV to 11kV (inclusive—other than SWER)	874	2,289
17	Low voltage (< 1kV)	1,914	3,928
18	Total circuit length (for supply)	2,838	6,723
19			
20	Dedicated street lighting circuit length (km)	5	260
21	Circuit in sensitive areas (conservation areas, iwi territory etc) (km)		2,489
22			
23	Overhead circuit length by terrain (at year end)	Circuit length (km)	(% of total overhead length)
24	Urban	2,377	84%
25	Rural	461	16%
26	Remote only	-	-
27	Rugged only	-	-
28	Remote and rugged	-	-
29	Unallocated overhead lines	-	-
30	Total overhead length	2,838	100%
31			
32		Circuit length (km)	(% of total circuit length)
33	Length of circuit within 10km of coastline or geothermal areas (where known)	9,553	99.9%
34		Circuit length (km)	(% of total overhead length)
35	Overhead circuit requiring vegetation management	2,838	100%

Company Name

Vector

For Year Ended

31 March 2022

Network / Sub-network Name

Northern

SCHEDULE 9c: REPORT ON OVERHEAD LINES AND UNDERGROUND CABLES

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

sch ref

9			
10	Circuit length by operating voltage (at year end)	Overhead (km)	Underground (km)
11	> 66kV	27	27
12	50kV & 66kV	—	—
13	33kV	315	151
14	SWER (all SWER voltages)	—	—
15	22kV (other than SWER)	—	—
16	6.6kV to 11kV (inclusive—other than SWER)	2,842	1,533
17	Low voltage (< 1kV)	2,214	2,637
18	Total circuit length (for supply)	5,398	4,321
19			
20	Dedicated street lighting circuit length (km)	12	197
21	Circuit in sensitive areas (conservation areas, iwi territory etc) (km)		2,175
22			
23	Overhead circuit length by terrain (at year end)	Circuit length (km)	(% of total overhead length)
24	Urban	2,309	43%
25	Rural	3,089	57%
26	Remote only	—	—
27	Rugged only	—	—
28	Remote and rugged	—	—
29	Unallocated overhead lines	—	—
30	Total overhead length	5,398	100%
31			
32		Circuit length (km)	(% of total circuit length)
33	Length of circuit within 10km of coastline or geothermal areas (where known)	9,676	99.55%
34		Circuit length (km)	(% of total overhead length)
35	Overhead circuit requiring vegetation management	5,398	100%

Company Name **Vector**
 For Year Ended **31 March 2022**

SCHEDULE 9d: REPORT ON EMBEDDED NETWORKS

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

sch ref

	Location *	Number of ICPs served	Line charge revenue (\$000)
8			
9	None	—	—
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
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 2022

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

Number of ICPs connected in year by consumer type

Consumer types defined by EDB*

Residential
Commercial

* include additional rows if needed

Connections total

Number of
connections (ICPs)

8,292
5,145

13,437

Distributed generation

Number of connections made in year

Capacity of distributed generation installed in year

1,117 connections
7.4 MVA**9e(ii): System Demand****Maximum coincident system demand**

GXP demand

plus Distributed generation output at HV and above

Maximum coincident system demand

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

Demand on system for supply to consumers' connection points

Demand at time
of maximum
coincident
demand (MW)

1,792
16
1,807
-
1,807

Electricity volumes carried

Electricity supplied from GXPs

less Electricity exports to GXPs

plus Electricity supplied from distributed generation

less Net electricity supplied to (from) other EDBs

Electricity entering system for supply to consumers' connection points

less Total energy delivered to ICPs

Electricity losses (loss ratio)

Load factor

Energy (GWh)

8,604
-
134
14
8,724
8,375
349

4.0%

0.55

9e(iii): Transformer Capacity

Distribution transformer capacity (EDB owned)

Distribution transformer capacity (Non-EDB owned, estimated)

Total distribution transformer capacity

Zone substation transformer capacity

(MVA)

4,802
712
5,513
4,650

Company Name

Vector

For Year Ended

31 March 2022

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

Number of ICPs connected in year by consumer type

Consumer types defined by EDB*

Residential
Commercial

* include additional rows if needed

Connections total

Number of
connections (ICPs)

5,122
2,362

7,484

Distributed generation

Number of connections made in year

Capacity of distributed generation installed in year

582 connections
4.1 MVA**9e(ii): System Demand****Maximum coincident system demand**

GXP demand

plus Distributed generation output at HV and above

Maximum coincident system demand

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

Demand on system for supply to consumers' connection points

Demand at time
of maximum
coincident
demand (MW)

1,138
0.2
1,138
-
1,138

Electricity volumes carried

Electricity supplied from GXPs

less Electricity exports to GXPs

plus Electricity supplied from distributed generation

less Net electricity supplied to (from) other EDBs

Electricity entering system for supply to consumers' connection points

less Total energy delivered to ICPs

Electricity losses (loss ratio)

Load factor

Energy (GWh)

5,722
-
53
14
5,761
5,558
203

3.5%

0.58

9e(iii): Transformer Capacity

Distribution transformer capacity (EDB owned)

Distribution transformer capacity (Non-EDB owned, estimated)

Total distribution transformer capacity

Zone substation transformer capacity

(MVA)

3,017
287
3,304
3,022

Company Name

Vector

For Year Ended

31 March 2022

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

Number of ICPs connected in year by consumer type

Consumer types defined by EDB*

Residential
Commercial

* include additional rows if needed

Connections total

Number of
connections (ICPs)

3,170
2,783

5,953

Distributed generation

Number of connections made in year

Capacity of distributed generation installed in year

535 connections
3.3 MVA**9e(ii): System Demand****Maximum coincident system demand**

GXP demand

plus Distributed generation output at HV and above

Maximum coincident system demand

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

Demand on system for supply to consumers' connection points

Demand at time
of maximum
coincident
demand (MW)

716
11
727
-
727

Electricity volumes carried

Electricity supplied from GXPs

less Electricity exports to GXPs

plus Electricity supplied from distributed generation

less Net electricity supplied to (from) other EDBs

Electricity entering system for supply to consumers' connection points

less Total energy delivered to ICPs

Electricity losses (loss ratio)

Load factor

Energy (GWh)

2,882
-
81
-
2,963
2,817
147

4.9%

0.47

9e(iii): Transformer Capacity

Distribution transformer capacity (EDB owned)

Distribution transformer capacity (Non-EDB owned, estimated)

Total distribution transformer capacity

Zone substation transformer capacity

(MVA)

1,785
424
2,209
1,628

Company Name	Vector
For Year Ended	31 March 2022
Network / Sub-network Name	Combined

SCHEDULE 10: REPORT ON NETWORK RELIABILITY

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

sch ref

10(i): Interruptions**Interruptions by class**

Class A (planned interruptions by Transpower)
 Class B (planned interruptions on the network)
 Class C (unplanned interruptions on the network)
 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)

Number of interruptions

12
1,497
2,010
1
3,520

Interruption restoration

Class C interruptions restored within

≤3Hrs >3hrs

927	1,083
-----	-------

SAIFI and SAIDI by class

Class A (planned interruptions by Transpower)
 Class B (planned interruptions on the network)
 Class C (unplanned interruptions on the network)
 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)

SAIFI SAIDI

0	0.1
0.27	70.4
1.29	151.4
0	0.2
1.56	222.1

Normalised SAIFI and SAIDI

Classes B & C (interruptions on the network)

Normalised SAIFI Normalised SAIDI

1.56	178.4
------	-------

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

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

SAIFI SAIDI

0.01	1.9
0.32	60.3
0	0
0	2.5
0.18	16.4
0.06	2.9
0.02	0.2
0.45	42.9
0.25	24.3

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

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

SAIFI SAIDI

0.09	32.5
0.01	1.9
0.16	34.9

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

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

SAIFI SAIDI

0.19	4.9
0.02	0.7
0.06	1.2
0.71	111.6
0.16	13.3
0.15	19.8

10(v): Fault Rate**Main equipment involved**

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

Number of Faults Circuit length (km)

37	390
2	604
10	
1,420	3719
229	3874
312	
2,010	

Fault rate (faults per 100km)

9.50
0.33
38.18
5.91



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

sch ref

Number of interruptions

828
574
1,402

≤3Hrs	>3hrs
--------------	-----------------

269	305
-----	-----

SAIFI SAIDI

0.26	52.4
0.8	70.8
1.06	123.2

Normalised SAIFI Normalised SAIDI

1.06	123.1
------	-------

SAIFI SAIDI

0.01	1.2
0.15	18.2
0	0
0.01	3.8
0.15	13.2
0.05	2.4
0	0
0.31	26.4
0.11	5.5

SAIFI SAIDI

SATM	SATD
0.09	25.4
0.02	2
0.15	24.5

SAIFI SAIDI

0.04	0.7
0.03	1.2
0.02	0.5
0.38	36.5
0.2	15
0.13	16.9

Number of Faults	Circuit length (km)
7	48
2	454
3	
320	877
131	2,341
111	
574	

Number of turns	Circumference (mm)
7	48
2	454
3	
320	877
131	2,341
111	
574	

Fault rate (faults per 100km)
14.59
0.44
36.50
5.60

S10. Northern