



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

Company Name

Vector

Disclosure Date

31 August 2018

Disclosure Year (year ended)

31 March 2018

Templates for Schedules 1–10 excluding 5f–5g
Template Version 4.1. Prepared 24 March 2015

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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 24 March 2015). 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 2018**

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	13,491	203	64,143	6,079	25,861
Network	5,206	79	24,754	2,346	9,980
Non-network	8,285	125	39,390	3,733	15,881
Expenditure on assets	27,417	413	130,353	12,353	52,555
Network	25,244	381	120,020	11,374	48,389
Non-network	2,173	33	10,333	979	4,166

1(ii): Revenue metrics

	Revenue per GWh energy delivered to ICPs (\$/GWh)	Revenue per average no. of ICPs (\$/ICP)
Total consumer line charge revenue	75,144	1,133
Standard consumer line charge revenue	78,687	1,099
Non-standard consumer line charge revenue	30,843	662,034

1(iii): Service intensity measures

Demand density	95	Maximum coincident system demand per km of circuit length (for supply) (kW/km)
Volume density	451	Total energy delivered to ICPs per km of circuit length (for supply) (MWh/km)
Connection point density	30	Average number of ICPs per km of circuit length (for supply) (ICPs/km)
Energy intensity	15,079	Total energy delivered to ICPs per average number of ICPs (kWh/ICP)

1(iv): Composition of regulatory income

	(\$000)	% of revenue
Operational expenditure	113,415	18.15%
Pass-through and recoverable costs excluding financial incentives and wash-ups	235,470	37.68%
Total depreciation	108,316	17.33%
Total revaluations	31,561	5.05%
Regulatory tax allowance	43,686	6.99%
Regulatory profit/(loss) including financial incentives and wash-ups	154,797	24.77%
Total regulatory income	624,908	

1(v): Reliability

Interruption rate	21.88	Interruptions per 100 circuit km
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Company Name	Vector
For Year Ended	31 March 2018

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		CY-2	CY-1	Current Year CY
		31 Mar 16	31 Mar 17	31 Mar 18
		%	%	%
7	ROI – comparable to a post tax WACC			
10	Reflecting all revenue earned	5.00%	6.47%	4.90%
11	Excluding revenue earned from financial incentives	5.00%	6.47%	4.90%
12	Excluding revenue earned from financial incentives and wash-ups	5.00%	6.54%	4.97%
14	Mid-point estimate of post tax WACC	5.37%	4.77%	5.04%
15	25th percentile estimate	4.66%	4.05%	4.36%
16	75th percentile estimate	6.09%	5.48%	5.72%
19	ROI – comparable to a vanilla WACC			
20	Reflecting all revenue earned	5.64%	7.01%	5.49%
21	Excluding revenue earned from financial incentives	5.64%	7.01%	5.49%
22	Excluding revenue earned from financial incentives and wash-ups	5.64%	7.08%	5.56%
24	WACC rate used to set regulatory price path	7.19%	7.19%	7.19%
26	Mid-point estimate of vanilla WACC	6.02%	5.31%	5.60%
27	25th percentile estimate	5.30%	4.59%	4.92%
28	75th percentile estimate	6.74%	6.03%	6.29%
30	2(ii): Information Supporting the ROI	(\$'000)		
32	Total opening RAB value	2,879,136		
33	plus Opening deferred tax	(74,339)		
34	Opening RIV		2,804,797	
36	Line charge revenue		631,706	
38	Expenses cash outflow	348,885		
39	add Assets commissioned	156,889		
40	less Asset disposals	7,540		
41	add Tax payments	34,361		
42	less Other regulated income	(6,798)		
43	Mid-year net cash outflows		539,392	
45	Term credit spread differential allowance		785	
47	Total closing RAB value	2,951,716		
48	less Adjustment resulting from asset allocation	(13)		
49	less Lost and found assets adjustment	-		
50	plus Closing deferred tax	(83,664)		
51	Closing RIV		2,868,066	
53	ROI – comparable to a vanilla WACC			5.49%
55	Leverage (%)			44%
56	Cost of debt assumption (%)			4.80%
57	Corporate tax rate (%)			28%
59	ROI – comparable to a post tax WACC			4.90%

Company Name **Vector**
 For Year Ended **31 March 2018**

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 5.45%

Year-end ROI – comparable to a post tax WACC 4.86%

** 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	-
Other financial incentives	-
Financial incentives	-

Impact of financial incentives on ROI -

Input methodology claw-back	-
Recoverable customised price-quality path costs	-
Catastrophic event allowance	-
Capex wash-up adjustment	(2,466)
Transmission asset wash-up adjustment	-
2013–2015 NPV wash-up allowance	-
Reconsideration event allowance	-
Other wash-ups	-
Wash-up costs	(2,466)

Impact of wash-up costs on ROI -0.06%

Company Name **Vector**
 For Year Ended **31 March 2018**

SCHEDULE 3: REPORT ON REGULATORY PROFIT

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

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

sch ref

	(\$000)
3(i): Regulatory Profit	
Income	
Line charge revenue	631,706
plus Gains / (losses) on asset disposals	(7,298)
plus Other regulated income (other than gains / (losses) on asset disposals)	500
Total regulatory income	624,908
Expenses	
less Operational expenditure	113,415
less Pass-through and recoverable costs excluding financial incentives and wash-ups	235,470
Operating surplus / (deficit)	276,024
less Total depreciation	108,316
plus Total revaluations	31,561
Regulatory profit / (loss) before tax	199,268
less Term credit spread differential allowance	785
less Regulatory tax allowance	43,686
Regulatory profit/(loss) including financial incentives and wash-ups	154,797
3(ii): Pass-through and Recoverable Costs excluding Financial Incentives and Wash-Ups	(\$000)
Pass through costs	
Rates	9,068
Commerce Act levies	1,122
Industry levies	1,855
CPP specified pass through costs	-
Recoverable costs excluding financial incentives and wash-ups	
Electricity lines service charge payable to Transpower	210,746
Transpower new investment contract charges	11,499
System operator services	-
Distributed generation allowance	1,180
Extended reserves allowance	-
Other recoverable costs excluding financial incentives and wash-ups	-
Pass-through and recoverable costs excluding financial incentives and wash-ups	235,470

Company Name **Vector**
 For Year Ended **31 March 2018**

SCHEDULE 3: REPORT ON REGULATORY PROFIT

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

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

sch ref

		(\$000)	
		CY-1	CY
		31 Mar 17	31 Mar 18
48	3(iii): Incremental Rolling Incentive Scheme		
49			
50			
51	Allowed controllable opex	-	-
52	Actual controllable opex	-	-
53			
54	Incremental change in year		-
55			
56		Previous years' incremental change	Previous years' incremental change adjusted for inflation
57	CY-5 31 Mar 13	-	-
58	CY-4 31 Mar 14	-	-
59	CY-3 31 Mar 15	-	-
60	CY-2 31 Mar 16	-	-
61	CY-1 31 Mar 17	-	-
62	Net incremental rolling incentive scheme		-
63			
64	Net recoverable costs allowed under incremental rolling incentive scheme		-
65	3(iv): Merger and Acquisition Expenditure		
70			(\$000)
66	Merger and acquisition expenditure		-
67			
68	<i>Provide commentary on the benefits of merger and acquisition expenditure to the electricity distribution business, including required disclosures in accordance with section 2.7, in Schedule 14 (Mandatory Explanatory Notes)</i>		
69	3(v): Other Disclosures		
70			(\$000)
71	Self-insurance allowance		-

Company Name **Vector**
 For Year Ended **31 March 2018**

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

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

sch ref		for year ended				
		RAB 31 Mar 14 (\$000)	RAB 31 Mar 15 (\$000)	RAB 31 Mar 16 (\$000)	RAB 31 Mar 17 (\$000)	RAB 31 Mar 18 (\$000)
7	4(i): Regulatory Asset Base Value (Rolled Forward)					
10	Total opening RAB value	2,536,404	2,618,855	2,660,795	2,682,398	2,879,136
12	less Total depreciation	90,831	92,306	94,495	96,289	108,316
14	plus Total revaluations	38,684	6,565	11,077	57,761	31,561
16	plus Assets commissioned	143,062	137,234	116,194	249,121	156,889
18	less Asset disposals	8,447	9,358	11,139	15,950	7,540
20	plus Lost and found assets adjustment	-	-	-	-	-
22	plus Adjustment resulting from asset allocation	(17)	(195)	(34)	2,095	(13)
24	Total closing RAB value	2,618,855	2,660,795	2,682,398	2,879,136	2,951,716

sch ref		Unallocated RAB *		RAB	
		(\$000)	(\$000)	(\$000)	(\$000)
29	Total opening RAB value		2,886,417		2,879,136
31	less Total depreciation		111,364		108,316
33	plus Total revaluations		31,641		31,561
35	plus Assets commissioned (other than below)	160,734		154,577	
36	Assets acquired from a regulated supplier	-		-	
37	Assets acquired from a related party	2,312		2,312	
38	Assets commissioned		163,046		156,889
40	less Asset disposals (other than below)	7,546		7,540	
41	Asset disposals to a regulated supplier	-		-	
42	Asset disposals to a related party	-		-	
43	Asset disposals		7,546		7,540
45	plus Lost and found assets adjustment		-		-
47	plus Adjustment resulting from asset allocation				(13)
49	Total closing RAB value		2,962,194		2,951,716

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

Company Name **Vector**
 For Year Ended **31 March 2018**

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

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

sch ref

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

CPI _t	1,011
CPI _{t-4}	1,000
Revaluation rate (%)	1.10%

	Unallocated RAB *		RAB	
	(\$000)	(\$000)	(\$000)	(\$000)
Total opening RAB value	2,886,417		2,879,136	
less Opening value of fully depreciated, disposed and lost assets	12,977		12,971	
Total opening RAB value subject to revaluation	2,873,440		2,866,165	
Total revaluations		31,641		31,561

4(iv): Roll Forward of Works Under Construction

	Unallocated works under construction		Allocated works under construction	
Works under construction—preceding disclosure year		48,018		46,277
plus Capital expenditure	178,552		173,620	
less Assets acquired from a related party	2,312		2,312	
less Assets commissioned	163,046		156,889	
plus Adjustment resulting from asset allocation			32	
Works under construction - current disclosure year		61,212		60,728
Highest rate of capitalised finance applied				5.48%

Company Name **Vector**
 For Year Ended **31 March 2018**

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

76 4(v): Regulatory Depreciation

	Unallocated RAB *		RAB	
	(\$000)	(\$000)	(\$000)	(\$000)
79 Depreciation - standard	81,493		81,493	
80 Depreciation - no standard life assets	29,871		26,823	
81 Depreciation - modified life assets	-		-	
82 Depreciation - alternative depreciation in accordance with CPP	-		-	
83 Total depreciation		111,364		108,316

85 4(vi): Disclosure of Changes to Depreciation Profiles

(\$000 unless otherwise specified)

86 Asset or assets with changes to depreciation*	87 Reason for non-standard depreciation (text entry)	88 Depreciation charge for the period (RAB)	89 Closing RAB value under 'non-standard' depreciation	90 Closing RAB value under 'standard' depreciation

* include additional rows if needed

96 4(vii): Disclosure by Asset Category

(\$000 unless otherwise specified)

	Subtransmission lines	Subtransmission cables	Zone substations	Distribution and LV lines	Distribution and LV cables	Distribution substations and transformers	Distribution switchgear	Other network assets	Non-network assets	Total
99 Total opening RAB value	77,480	381,839	265,903	308,133	757,629	263,159	171,137	615,950	37,906	2,879,136
100 less Total depreciation	2,118	10,851	10,219	9,324	25,387	8,843	7,447	23,155	10,971	108,316
101 plus Total revaluations	853	4,095	2,969	3,370	8,330	2,879	1,859	6,833	373	31,561
102 plus Assets commissioned	252	106	9,766	22,888	40,616	14,245	22,082	32,482	14,451	156,889
103 less Asset disposals	17	234	343	1,899	482	1,525	2,134	672	234	7,540
104 plus Lost and found assets adjustment	-	-	-	-	-	-	-	-	-	-
105 plus Adjustment resulting from asset allocation	-	-	-	-	-	-	-	-	(13)	(13)
106 plus Asset category transfers	-	(9,647)	4,269	-	-	-	-	5,378	-	-
107 Total closing RAB value	76,450	365,309	272,345	323,167	780,707	269,915	185,496	636,816	41,511	2,951,716
108 Asset Life										
109 Weighted average remaining asset life	43	47	33	41	36	34	27	31	10	(years)
110 Weighted average expected total asset life	59	72	43	58	61	45	37	40	16	(years)

Company Name **Vector**
 For Year Ended **31 March 2018**

SCHEDULE 5a: REPORT ON REGULATORY TAX ALLOWANCE

This schedule requires information on the calculation of the regulatory tax allowance. This information is used to calculate regulatory profit/loss in Schedule 3 (regulatory profit). EDBs must provide explanatory commentary on the information disclosed in this schedule, in Schedule 14 (Mandatory Explanatory Notes). This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 70

sch ref

		(\$000)	
7	5a(i): Regulatory Tax Allowance		
8	Regulatory profit / (loss) before tax		199,268
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	3,359	*
12	Amortisation of initial differences in asset values	34,391	
13	Amortisation of revaluations	9,217	
14			46,967
15			
16	<i>less</i> Total revaluations	31,561	
17	Income included in regulatory profit / (loss) before tax but not taxable	22	*
18	Discretionary discounts and customer rebates	-	
19	Expenditure or loss deductible but not in regulatory profit / (loss) before tax	-	*
20	Notional deductible interest	58,632	
21			90,215
22			
23	Regulatory taxable income		156,020
24			
25	<i>less</i> Utilised tax losses	-	
26	Regulatory net taxable income		156,020
27			
28	Corporate tax rate (%)	28%	
29	Regulatory tax allowance		43,686

* Workings to be provided in Schedule 14

5a(ii): Disclosure of Permanent Differences

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

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

(\$000)

36	Opening unamortised initial differences in asset values	1,100,500	
37	<i>less</i> Amortisation of initial differences in asset values	34,391	
38	<i>plus</i> Adjustment for unamortised initial differences in assets acquired	-	
39	<i>less</i> Adjustment for unamortised initial differences in assets disposed	2,788	
40	Closing unamortised initial differences in asset values		1,063,321
41			
42	Opening weighted average remaining useful life of relevant assets (years)		32
43			

Company Name **Vector**
 For Year Ended **31 March 2018**

SCHEDULE 5a: REPORT ON REGULATORY TAX ALLOWANCE

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

This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 70

sch ref

44	5a(iv): Amortisation of Revaluations		(\$000)
45			
46	Opening sum of RAB values without revaluations	2,640,747	
47			
48	Adjusted depreciation	99,099	
49	Total depreciation	108,316	
50	Amortisation of revaluations		9,217
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	(74,339)	
61			
62	plus Tax effect of adjusted depreciation	27,748	
63			
64	less Tax effect of tax depreciation	27,026	
65			
66	plus Tax effect of other temporary differences*	(325)	
67			
68	less Tax effect of amortisation of initial differences in asset values	9,629	
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	(202)	
73			
74	plus Deferred tax cost allocation adjustment	(294)	
75			
76	Closing deferred tax		(83,664)
77			
78	5a(vii): Disclosure of Temporary Differences		
79	<i>In Schedule 14, Box 6, provide descriptions and workings of items recorded in the asterisked category in Schedule 5a(vi) (Tax effect of other temporary differences).</i>		
80			
81	5a(viii): Regulatory Tax Asset Base Roll-Forward		(\$000)
82			
83	Opening sum of regulatory tax asset values	1,169,808	
84	less Tax depreciation	96,522	
85	plus Regulatory tax asset value of assets commissioned	156,060	
86	less Regulatory tax asset value of asset disposals	3,458	
87	plus Lost and found assets adjustment	-	
88	plus Adjustment resulting from asset allocation	(1,062)	
89	plus Other adjustments to the RAB tax value	-	
90	Closing sum of regulatory tax asset values		1,224,826

Company Name **Vector**
 For Year Ended **31 March 2018**

SCHEDULE 5b: REPORT ON RELATED PARTY TRANSACTIONS

This schedule provides information on the valuation of related party transactions, in accordance with section 2.3.6 and 2.3.7 of the ID 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

7 5b(i): Summary—Related Party Transactions

(\$000)

8	Total regulatory income	–
9	Operational expenditure	10,606
10	Capital expenditure	2,312
11	Market value of asset disposals	–
12	Other related party transactions	–

13 5b(ii): Entities Involved in Related Party Transactions

14	Name of related party	Related party relationship
15	Vector Communications Limited	A wholly owned subsidiary of Vector Limited
16	Tree Scape Limited	An associate in which Vector Limited holds a 50% interest
17	Vector Energy Solutions Limited	A wholly owned subsidiary of Vector Limited
18		
19		

** include additional rows if needed*

21 5b(iii): Related Party Transactions

22	Name of related party	Related party transaction type	Description of transaction	Value of transaction (\$000)	Basis for determining value
23	Vector Communications Limited	Opex	Purchase of telecommunications services	3,454	ID clause 2.3.6(1)(d)
24	Tree Scape Limited	Opex	Purchase of vegetation management services	7,152	ID clause 2.3.6(1)(c)(i)
25	Vector Energy Solutions Limited	Capex	Purchase of assets	2,312	IM clause 2.2.11(5)(e)
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					

** include additional rows if needed*

Company Name **Vector**
 For Year Ended **31 March 2018**

SCHEDULE 5c: REPORT ON TERM CREDIT SPREAD DIFFERENTIAL ALLOWANCE

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

sch ref

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

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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	Cost of executing an interest rate swap	Debt issue cost readjustment
Capital bonds – fixed coupon	15-Jun-17	14-Jun-17	5	5.7	307,205	305,652	[]VCI	[]VCI	[]VCI
Floating rate notes									
FRN - series 2	26-Oct-05	26-Oct-05	12	BKBM + []VCI	400,000		[]VCI	[]VCI	[]VCI
FRN - series 3	26-Oct-05	26-Oct-05	15	BKBM + []VCI	350,000		[]VCI	[]VCI	[]VCI
Floating rate notes subtotal					750,000	748,421	[]VCI	[]VCI	[]VCI
Medium term notes – GBP fixed rate	11-Apr-08	8-Apr-08	10.8	7.625	285,614	203,390	[]VCI	[]VCI	[]VCI
Senior notes - USD fixed rate									
2004 series- 15 years	16-Sep-04	19-Jul-04	15	5.75	296,623		[]VCI	[]VCI	[]VCI
2010 series- 12 years	20-Dec-10	22-Sep-10	12	[]VCI	250,516		[]VCI	[]VCI	[]VCI
2014 series- 7 years	14-Oct-14	19-Jun-14	7	[]VCI	150,000		[]VCI	[]VCI	[]VCI
Senior notes - USD fixed rate subtotal					697,139	719,268	[]VCI	[]VCI	[]VCI
Fixed Rate Wholesale Bonds	14-Mar-17	3-Mar-17	7	4.996	100,000	99,699	[]VCI	[]VCI	[]VCI
Senior credit facilities									
[]VCI	3-Feb-15	16-Dec-14	3	BKBM + []VCI					
[]VCI	3-Feb-15	16-Dec-14	3	BKBM + []VCI					
[]VCI	3-Feb-15	16-Dec-14	3	BKBM + []VCI					
[]VCI	15-Mar-17	23-Dec-16	3	BKBM + []VCI					
[]VCI	15-Mar-17	23-Dec-16	3	BKBM + []VCI					
[]VCI	15-Mar-17	23-Dec-16	3	BKBM + []VCI					
Bank loans subtotal						94,060			
* include additional rows if needed						2,170,490	[]VCI	[]VCI	[]VCI

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

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Gross term credit spread differential	1,329
Total book value of interest bearing debt	2,170,490
Leverage	44%
Average opening and closing RAB values	2,915,426
Attribution Rate (%)	59%
Term credit spread differential allowance	785

Company Name **Vector**
 For Year Ended **31 March 2018**

SCHEDULE 5d: REPORT ON COST ALLOCATIONS

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

sch ref

		Value allocated (\$000s)			OvABA allocation increase (\$000s)
		Arm's length deduction	Electricity distribution services	Non-electricity distribution services	
7	5d(i): Operating Cost Allocations				
9					
10	Service interruptions and emergencies				
11	Directly attributable		9,609		
12	Not directly attributable				
13	Total attributable to regulated service		9,609		
14	Vegetation management				
15	Directly attributable		6,996		
16	Not directly attributable				
17	Total attributable to regulated service		6,996		
18	Routine and corrective maintenance and inspection				
19	Directly attributable		13,962		
20	Not directly attributable				
21	Total attributable to regulated service		13,962		
22	Asset replacement and renewal				
23	Directly attributable		13,202		
24	Not directly attributable				
25	Total attributable to regulated service		13,202		
26	System operations and network support				
27	Directly attributable		23,516		
28	Not directly attributable		11,111	1,555	12,666
29	Total attributable to regulated service		34,627		
30	Business support				
31	Directly attributable		1,787		
32	Not directly attributable		33,233	15,416	48,649
33	Total attributable to regulated service		35,020		
34					
35	Operating costs directly attributable		69,071		
36	Operating costs not directly attributable		44,344	16,971	61,315
37	Operational expenditure		113,415		

		(5000)
39	5d(ii): Other Cost Allocations	
40	Pass through and recoverable costs	
41	Pass through costs	
42	Directly attributable	12,045
43	Not directly attributable	
44	Total attributable to regulated service	12,045
45	Recoverable costs	
46	Directly attributable	223,425
47	Not directly attributable	
48	Total attributable to regulated service	223,425

		(\$000)		
			CY-1	Current Year (CY)
50	5d(iii): Changes in Cost Allocations* †			
51	Change in cost allocation 1			
52	Cost category			
53	Original allocator or line items			
54	New allocator or line items			
55				
56				
57	Rationale for change			
58				
59				
60	Change in cost allocation 2			
61	Cost category			
62	Original allocator or line items			
63	New allocator or line items			
64				
65				
66	Rationale for change			
67				
68				
69	Change in cost allocation 3			
70	Cost category			
71	Original allocator or line items			
72	New allocator or line items			
73				
74				
75	Rationale for change			

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

Company Name	Vector
For Year Ended	31 March 2018

SCHEDULE 5e: REPORT ON ASSET ALLOCATIONS

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

sch ref

5e(i): Regulated Service Asset Values		Value allocated (\$000s)
		Electricity distribution services
7	Subtransmission lines	
11	Directly attributable	76,450
12	Not directly attributable	-
13	Total attributable to regulated service	76,450
14	Subtransmission cables	
15	Directly attributable	365,309
16	Not directly attributable	-
17	Total attributable to regulated service	365,309
18	Zone substations	
19	Directly attributable	272,345
20	Not directly attributable	-
21	Total attributable to regulated service	272,345
22	Distribution and LV lines	
23	Directly attributable	323,167
24	Not directly attributable	-
25	Total attributable to regulated service	323,167
26	Distribution and LV cables	
27	Directly attributable	780,707
28	Not directly attributable	-
29	Total attributable to regulated service	780,707
30	Distribution substations and transformers	
31	Directly attributable	269,915
32	Not directly attributable	-
33	Total attributable to regulated service	269,915
34	Distribution switchgear	
35	Directly attributable	185,496
36	Not directly attributable	-
37	Total attributable to regulated service	185,496
38	Other network assets	
39	Directly attributable	636,816
40	Not directly attributable	-
41	Total attributable to regulated service	636,816
42	Non-network assets	
43	Directly attributable	17,048
44	Not directly attributable	24,463
45	Total attributable to regulated service	41,511
46		
47	Regulated service asset value directly attributable	2,927,253
48	Regulated service asset value not directly attributable	24,463
49	Total closing RAB value	2,951,716

5e(ii): Changes in Asset Allocations* †		(\$000)	
		CY-1	Current Year (CY)
53	Change in asset value allocation 1		
54	Asset category		
55	Original allocator or line items		
56	New allocator or line items		
57			
58	Rationale for change		
59			
60			
61			
62	Change in asset value allocation 2		
63	Asset category		
64	Original allocator or line items		
65	New allocator or line items		
66			
67	Rationale for change		
68			
69			
70			
71	Change in asset value allocation 3		
72	Asset category		
73	Original allocator or line items		
74	New allocator or line items		
75			
76	Rationale for change		
77			
78			

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

Company Name **Vector**
 For Year Ended **31 March 2018**

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			66,862
9	System growth			27,334
10	Asset replacement and renewal			93,801
11	Asset relocations			23,631
12	Reliability, safety and environment:			
13	Quality of supply	93		
14	Legislative and regulatory	177		
15	Other reliability, safety and environment	315		
16	Total reliability, safety and environment			585
17	Expenditure on network assets			212,213
18	Expenditure on non-network assets			18,271
19				
20	Expenditure on assets			230,484
21	plus Cost of financing			2,913
22	less Value of capital contributions			59,777
23	plus Value of vested assets			-
24				
25	Capital expenditure			173,620
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			6,754
29	Research and development			4,510
30	6a(iii): Consumer Connection			
31	<i>Consumer types defined by EDB*</i>		(\$000)	(\$000)
32	Service connection		12,542	
33	Customer substations		11,291	
34	Business subdivisions		1,647	
35	Residential subdivisions		26,788	
36	Capacity change		13,590	
37	Street lighting		954	
38	Easement costs		50	
39	Consumer connection expenditure			66,862
40	less Capital contributions funding consumer connection expenditure	46,576		
41	Consumer connection less capital contributions			20,286
42	6a(iv): System Growth and Asset Replacement and Renewal			
43			System Growth	Asset Replacement and Renewal
44			(\$000)	(\$000)
45	Subtransmission	1,305		360
46	Zone substations	12,347		19,865
47	Distribution and LV lines	596		35,655
48	Distribution and LV cables	2,950		5,516
49	Distribution substations and transformers	2,147		14,392
50	Distribution switchgear	754		13,778
51	Other network assets	7,235		4,235
52	System growth and asset replacement and renewal expenditure	27,334		93,801
53	less Capital contributions funding system growth and asset replacement and renewal	787		225
54	System growth and asset replacement and renewal less capital contributions	26,547		93,576
55				
56	6a(v): Asset Relocations			
57	<i>Project or programme*</i>		(\$000)	(\$000)
58	[Description of material project or programme]			
59	[Description of material project or programme]			
60	[Description of material project or programme]			
61	[Description of material project or programme]			
62	[Description of material project or programme]			
63	<i>* include additional rows if needed</i>			
64	All other projects or programmes - asset relocations	23,631		
65	Asset relocations expenditure			23,631
66	less Capital contributions funding asset relocations	12,189		
67	Asset relocations less capital contributions			11,442

Company Name **Vector**
 For Year Ended **31 March 2018**

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	[Description of material project or programme]			
72	[Description of material project or programme]			
73	[Description of material project or programme]			
74	[Description of material project or programme]			
75	[Description of material project or programme]			
76	* include additional rows if needed			
77	All other projects programmes - quality of supply	93		
78	Quality of supply expenditure			93
79	less Capital contributions funding quality of supply			
80	Quality of supply less capital contributions			93
81	6a(vii): Legislative and Regulatory			
82	Project or programme*	(\$000)	(\$000)	
83	[Description of material project or programme]			
84	[Description of material project or programme]			
85	[Description of material project or programme]			
86	[Description of material project or programme]			
87	[Description of material project or programme]			
88	* include additional rows if needed			
89	All other projects or programmes - legislative and regulatory	177		
90	Legislative and regulatory expenditure			177
91	less Capital contributions funding legislative and regulatory			
92	Legislative and regulatory less capital contributions			177
93	6a(viii): Other Reliability, Safety and Environment			
94	Project or programme*	(\$000)	(\$000)	
95	[Description of material project or programme]			
96	[Description of material project or programme]			
97	[Description of material project or programme]			
98	[Description of material project or programme]			
99	[Description of material project or programme]			
100	* include additional rows if needed			
101	All other projects or programmes - other reliability, safety and environment	315		
102	Other reliability, safety and environment expenditure			315
103	less Capital contributions funding other reliability, safety and environment			
104	Other reliability, safety and environment less capital contributions			315
105				
106	6a(ix): Non-Network Assets			
107	Routine expenditure			
108	Project or programme*	(\$000)	(\$000)	
109	[Description of material project or programme]			
110	[Description of material project or programme]			
111	[Description of material project or programme]			
112	[Description of material project or programme]			
113	[Description of material project or programme]			
114	* include additional rows if needed			
115	All other projects or programmes - routine expenditure	3,028		
116	Routine expenditure			3,028
117	Atypical expenditure			
118	Project or programme*	(\$000)	(\$000)	
119	[Description of material project or programme]			
120	[Description of material project or programme]			
121	[Description of material project or programme]			
122	[Description of material project or programme]			
123	[Description of material project or programme]			
124	* include additional rows if needed			
125	All other projects or programmes - atypical expenditure	15,243		
126	Atypical expenditure			15,243
127				
128	Expenditure on non-network assets			18,271

Company Name **Vector**
 For Year Ended **31 March 2018**

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	9,609	
9	Vegetation management	6,996	
10	Routine and corrective maintenance and inspection	13,962	
11	Asset replacement and renewal	13,202	
12	Network opex		43,768
13	System operations and network support	34,627	
14	Business support	35,020	
15	Non-network opex		69,647
16			
17	Operational expenditure		113,415
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		2,531
23	* Direct billing expenditure by suppliers that directly bill the majority of their consumers		

Company Name	Vector
For Year Ended	31 March 2018

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	626,598	631,706	1%

9	7(ii): Expenditure on Assets	Forecast (\$000) ²	Actual (\$000)	% variance
10	Consumer connection	57,829	66,862	16%
11	System growth	36,078	27,334	(24%)
12	Asset replacement and renewal	95,225	93,801	(1%)
13	Asset relocations	21,648	23,631	9%
14	Reliability, safety and environment:			
15	Quality of supply	988	93	(91%)
16	Legislative and regulatory	66	177	168%
17	Other reliability, safety and environment	1,965	315	(84%)
18	Total reliability, safety and environment	3,019	585	(81%)
19	Expenditure on network assets	213,799	212,213	(1%)
20	Expenditure on non-network assets	21,970	18,271	(17%)
21	Expenditure on assets	235,769	230,484	(2%)

22	7(iii): Operational Expenditure			
23	Service interruptions and emergencies	9,713	9,609	(1%)
24	Vegetation management	4,938	6,996	42%
25	Routine and corrective maintenance and inspection	15,445	13,962	(10%)
26	Asset replacement and renewal	13,288	13,202	(1%)
27	Network opex	43,384	43,768	1%
28	System operations and network support	34,730	34,627	(0%)
29	Business support	39,123	35,020	(10%)
30	Non-network opex	73,853	69,647	(6%)
31	Operational expenditure	117,237	113,415	(3%)

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	8,992	6,754	(25%)
35	Research and development	6,719	4,510	(33%)

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	2,524	2,531	0%

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

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

Company Name	Vector
For Year Ended	31 March 2018
Network / Sub-Network Name	Combined

SCHEDULE 8: REPORT ON BILLED QUANTITIES AND LINE CHARGE REVENUES

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

sch ref

8(i): Billed Quantities by Price Component

Billed quantities by price component

Consumer group name or price category code	Consumer type or types (eg, residential, commercial etc.)	Standard or non-standard consumer group (specify)	Average no. of ICPs in disclosure year	Energy delivered to ICPs in disclosure year (MWh)	Unit charging basis (eg, days, kW of demand, kVA of capacity, etc.)	Price component							
						FIXD	kWh	CAPY	DAMD	DEXA	PWRF		
						Day	kWh	kVA/Day	kVA/Day	kVA/Day	kVA/Day		
ARCL	residential	Standard	128,596	675,622		46,959,340	675,621,790	-	-	-	-		
ARCS	residential	Standard	86,094	821,362		31,451,744	821,361,931	-	-	-	-		
ARUL	residential	Standard	25,514	97,981		9,307,334	97,980,513	-	-	-	-		
ARUS	residential	Standard	15,574	113,543		5,675,931	113,542,677	-	-	-	-		
ARHL	residential	Standard	1,141	4,568		414,546	4,567,563	-	-	-	-		
ARHS	residential	Standard	968	7,305		345,671	7,305,196	-	-	-	-		
ARGL	residential	Standard	20,545	94,852		7,492,335	94,852,413	-	-	-	-		
ARGS	residential	Standard	11,647	109,179		4,251,454	109,179,115	-	-	-	-		
ABSN	business	Standard	35,257	743,786		12,876,361	743,785,686	-	-	-	-		
ABSU	business	Standard	1,795	33,978		24,604,822	33,978,216	-	-	-	-		
ABSH	business	Standard	671	21,890		238,132	21,889,516	-	-	-	-		
ALVN	low voltage	Standard	2,117	230,815		773,283	230,814,673	113,648,460	-	-	411,336		
ALVT	low voltage	Standard	1,434	553,983		-	553,982,704	129,992,676	47,676,992	-	5,047,318		
ATXN	transformer	Standard	165	23,545		60,514	23,544,672	13,798,753	-	-	46,750		
ATXT	transformer	Standard	908	1,154,337		-	1,154,336,924	233,302,470	92,014,473	-	5,157,580		
AHVN	high voltage	Standard	7	653		2,555	653,480	492,750	-	-	-		
AHVT	high voltage	Standard	137	455,726		-	455,726,356	58,971,965	34,862,987	101,208	1,644,225		
WRCL	residential	Standard	87,333	473,212		31,886,477	473,211,643	-	-	-	-		
WRCS	residential	Standard	70,659	685,535		25,822,752	685,534,935	-	-	-	-		
WRUL	residential	Standard	11,561	58,877		4,207,760	58,877,252	-	-	-	-		
WRUS	residential	Standard	14,568	114,344		5,313,032	114,343,921	-	-	-	-		
WRHL	residential	Standard	1,133	4,846		410,051	4,846,282	-	-	-	-		
WRHS	residential	Standard	1,130	8,631		403,781	8,631,482	-	-	-	-		
WRGL	residential	Standard	8,573	40,779		3,126,097	40,779,102	-	-	-	-		
WRGS	residential	Standard	5,722	49,468		2,089,328	49,467,729	-	-	-	-		
WBSN	business	Standard	21,765	385,972		7,949,899	385,971,533	-	-	-	-		
WBSU	business	Standard	511	21,172		14,895,227	21,172,147	-	-	-	-		
WBSH	business	Standard	444	10,834		157,527	10,834,260	-	-	-	-		
WLVN	low voltage	Standard	834	123,098		303,961	123,098,432	44,090,614	-	-	379,313		
WLVH	low voltage	Standard	231	120,209		84,395	120,209,080	20,351,227	9,241,818	-	783,690		
WTXN	transformer	Standard	135	39,155		49,220	39,154,637	11,976,309	-	-	220,848		
WTXH	transformer	Standard	271	367,445		98,859	367,444,784	75,415,959	29,517,618	-	1,723,070		
WHVN	high voltage	Standard	-	-		-	-	-	-	-	-		
WHVH	high voltage	Standard	21	137,391		7,836	137,391,025	14,042,686	9,135,808	113,235	201,379		
NS	non-standard	Non-standard	29	622,484		1,095	-	-	-	-	9,432		
<i>Add extra rows for additional consumer groups or price category codes as necessary</i>													
Standard consumer totals						557,461	7,784,093						
Non-standard consumer totals						29	622,484				9,432		
Total for all consumers						557,490	8,406,577	241,260,124	7,784,091,669	716,083,869	222,449,696	214,443	15,615,509
						1,095	-	-	-	-	-	-	9,432
						241,261,219	7,784,091,669	716,083,869	222,449,696	214,443	-	-	15,624,941

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

Company Name	Vector
For Year Ended	31 March 2018
Network / Sub-Network Name	Combined

SCHEDULE 8: REPORT ON BILLED QUANTITIES AND LINE CHARGE REVENUES

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

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

Line charge revenues (\$000) by price component

Price component	FIXD	kWh	CAPY	DAMD	DEXA	PWRF
Day	kWh	kVA/Day	kVA/Day	kVA/Day	kVA/Day	kVA/Day

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

Consumer group name or price category code	Consumer type or types (eg. residential, commercial etc.)	Standard or non-standard consumer group (specify)	Total line charge revenue in disclosure year	Notional revenue foregone from posted discounts (if applicable)
ARCL	residential	Standard	\$71,782	
ARCS	residential	Standard	\$78,261	
ARUL	residential	Standard	\$11,570	
ARUS	residential	Standard	\$13,071	
ARHL	residential	Standard	\$490	
ARHS	residential	Standard	\$751	
ARGL	residential	Standard	\$10,213	
ARGS	residential	Standard	\$10,475	
ABSN	business	Standard	\$61,048	
ABSU	business	Standard	\$6,120	
ABSH	business	Standard	\$1,495	
ALVN	low voltage	Standard	\$20,717	
ALVT	low voltage	Standard	\$30,322	
ATXN	transformer	Standard	\$2,127	
ATXT	transformer	Standard	\$56,530	
AHVN	high voltage	Standard	\$62	
AHVT	high voltage	Standard	\$19,882	
WRCL	residential	Standard	\$49,968	
WRCS	residential	Standard	\$64,682	
WRUL	residential	Standard	\$6,723	
WRUS	residential	Standard	\$12,715	
WRHL	residential	Standard	\$511	
WRHS	residential	Standard	\$872	
WRGL	residential	Standard	\$4,363	
WRGS	residential	Standard	\$4,895	
WBSN	business	Standard	\$32,858	
WBSU	business	Standard	\$3,737	
WBSH	business	Standard	\$789	
WLVN	low voltage	Standard	\$8,802	
WL VH	low voltage	Standard	\$5,395	
WTXN	transformer	Standard	\$2,266	
WTXH	transformer	Standard	\$14,937	
WHVN	high voltage	Standard	-	
WHVH	high voltage	Standard	\$4,078	
NS	non-standard	Non-standard	\$19,199	

Total distribution line charge revenue	Total transmission line charge revenue (if available)	Rate (eg. \$ per day, \$ per kWh, etc.)
\$46,643	\$25,139	
\$50,852	\$27,409	
\$7,518	\$4,052	
\$8,493	\$4,578	
\$318	\$172	
\$488	\$263	
\$6,636	\$3,577	
\$6,807	\$3,668	
\$39,668	\$21,380	
\$3,977	\$2,143	
\$972	\$523	
\$13,461	\$7,256	
\$19,703	\$10,619	
\$1,382	\$745	
\$36,732	\$19,798	
\$40	\$22	
\$12,919	\$6,963	
\$32,468	\$17,500	
\$42,029	\$22,653	
\$4,368	\$2,355	
\$8,262	\$4,453	
\$332	\$179	
\$566	\$306	
\$2,835	\$1,528	
\$3,181	\$1,714	
\$21,351	\$11,507	
\$2,428	\$1,309	
\$513	\$276	
\$5,719	\$3,083	
\$3,506	\$1,889	
\$1,472	\$794	
\$9,706	\$5,231	
-	-	
\$2,650	\$1,428	
\$9,994	\$9,205	

\$7,052	\$64,730	-	-	-	-
\$31,802	\$46,459	-	-	-	-
\$1,398	\$10,172	-	-	-	-
\$5,739	\$7,332	-	-	-	-
\$62	\$428	-	-	-	-
\$350	\$401	-	-	-	-
\$1,125	\$9,088	-	-	-	-
\$4,299	\$6,176	-	-	-	-
\$13,020	\$48,028	-	-	-	-
\$3,695	\$2,425	-	-	-	-
\$241	\$1,254	-	-	-	-
\$1,339	\$14,627	\$4,631	-	-	\$120
-	\$7,432	\$5,297	\$16,119	-	\$1,474
\$102	\$1,461	\$550	-	-	\$14
-	\$15,255	\$9,296	\$30,473	-	\$1,806
\$4	\$39	\$19	-	-	-
-	\$5,840	\$2,279	\$11,197	\$86	\$480
\$4,773	\$45,195	-	-	-	-
\$26,028	\$38,654	-	-	-	-
\$630	\$6,093	-	-	-	-
\$5,355	\$7,360	-	-	-	-
\$61	\$450	-	-	-	-
\$407	\$465	-	-	-	-
\$468	\$3,895	-	-	-	-
\$2,106	\$2,789	-	-	-	-
\$8,013	\$24,845	-	-	-	-
\$2,230	\$1,507	-	-	-	-
\$159	\$630	-	-	-	-
\$1,835	\$5,418	\$1,439	-	-	\$110
\$960	\$684	\$664	\$2,859	-	\$228
\$267	\$1,551	\$384	-	-	\$64
\$1,013	\$2,054	\$2,416	\$8,952	-	\$502
-	-	-	-	-	-
\$78	\$740	\$436	\$2,688	\$77	\$59
\$19,048	-	-	-	-	\$151

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

Standard consumer totals	\$612,507	-
Non-standard consumer totals	\$19,199	-
Total for all consumers	\$631,706	-

\$397,995	\$214,512
\$9,994	\$9,205
\$407,989	\$223,717

\$124,611	\$383,477	\$27,411	\$72,288	\$163	\$4,557
\$19,048	-	-	-	-	\$151
\$143,659	\$383,477	\$27,411	\$72,288	\$163	\$4,708

8(iii): Number of ICPs directly billed

Number of directly billed ICPs at year end

Check OK

Company Name	Vector
For Year Ended	31 March 2018
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(j): Billed Quantities by Price Component

Consumer group name or price category code	Consumer type or types (eg, residential, commercial etc.)	Standard or non-standard consumer group (specify)	Average no. of ICPs in disclosure year	Energy delivered to ICPs in disclosure year (MWh)	Unit charging basis (eg, days, kW of demand, kVA of capacity, etc.)	Billed quantities by price component						
						FIXD	kWh	CAPY	DAMD	DEXA	PWRF	
						Day	kWh	kVA/Day	kVA/Day	kVA/Day	kVA/Day	
ARCL	residential	Standard	128,596	675,622			46,959,340	675,621,790	-	-	-	-
ARCS	residential	Standard	86,094	821,362			31,451,744	821,361,931	-	-	-	-
ARUL	residential	Standard	25,514	97,981			9,307,334	97,980,513	-	-	-	-
ARUS	residential	Standard	15,574	113,543			5,675,931	113,542,677	-	-	-	-
ARHL	residential	Standard	1,141	4,568			414,546	4,567,563	-	-	-	-
ARHS	residential	Standard	968	7,305			345,671	7,305,196	-	-	-	-
ARGL	residential	Standard	20,545	94,852			7,492,335	94,852,413	-	-	-	-
ARGS	residential	Standard	11,647	109,179			4,251,454	109,179,115	-	-	-	-
ABSN	business	Standard	35,257	743,786			12,876,361	743,785,686	-	-	-	-
ABSU	business	Standard	1,795	33,978			24,604,822	33,978,216	-	-	-	-
ABSH	business	Standard	671	21,890			238,132	21,889,516	-	-	-	-
ALVN	low voltage	Standard	2,117	230,815			773,283	230,814,673	113,648,460	-	-	411,336
ALVT	low voltage	Standard	1,434	553,983			-	553,982,704	129,992,676	47,676,992	-	5,047,318
ATXN	transformer	Standard	165	23,545			60,514	23,544,672	13,798,753	-	-	46,750
ATXT	transformer	Standard	908	1,154,337			-	1,154,336,924	233,302,470	92,014,473	-	5,157,580
AHVN	high voltage	Standard	7	653			2,555	653,480	492,750	-	-	-
AHVT	high voltage	Standard	137	455,726			-	455,726,356	58,971,965	34,862,987	101,208	1,644,225
NS	non-standard	Non-standard	26	521,453			9,308	-	-	-	-	9,762
<i>Add extra rows for additional consumer groups or price category codes as necessary</i>												
Standard consumer totals			332,570	5,143,125			144,454,022	5,143,123,425	550,207,074	174,554,452	101,208	12,307,209
Non-standard consumer totals			26	521,453			9,308	-	-	-	-	9,762
Total for all consumers			332,596	5,664,578			144,463,330	5,143,123,425	550,207,074	174,554,452	101,208	12,316,971

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

Company Name	Vector
For Year Ended	31 March 2018
Network / Sub-Network Name	Southern

SCHEDULE 8: REPORT ON BILLED QUANTITIES AND LINE CHARGE REVENUES

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

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

Line charge revenues (\$000) by price component

Consumer group name or price category code	Consumer type or types (eg, residential, commercial etc.)	Standard or non-standard consumer group (specify)	Total line charge revenue in disclosure year	Notional revenue foregone from posted discounts (if applicable)	Total distribution line charge revenue	Total transmission line charge revenue (if available)	Rate (eg, \$ per day, \$ per kWh, etc.)	Price component					
								FIXD	kWh	CAPY	DAMD	DEXA	PWRF
								Day	kWh	kVA/Day	kVA/Day	kVA/Day	kVA/Day
ARCL	residential	Standard	\$71,782		\$46,643	\$25,139		\$7,052	\$64,730	-	-	-	-
ARCS	residential	Standard	\$78,261		\$50,852	\$27,409		\$31,802	\$46,459	-	-	-	-
ARUL	residential	Standard	\$11,570		\$7,518	\$4,052		\$1,398	\$10,172	-	-	-	-
ARUS	residential	Standard	\$13,071		\$8,493	\$4,578		\$5,739	\$7,332	-	-	-	-
ARHL	residential	Standard	\$490		\$318	\$172		\$62	\$428	-	-	-	-
ARHS	residential	Standard	\$751		\$488	\$263		\$350	\$401	-	-	-	-
ARGL	residential	Standard	\$10,213		\$6,636	\$3,577		\$1,125	\$9,088	-	-	-	-
ARGS	residential	Standard	\$10,475		\$6,807	\$3,668		\$4,299	\$6,176	-	-	-	-
ABSN	business	Standard	\$61,048		\$39,668	\$21,380		\$13,020	\$48,028	-	-	-	-
ABSU	business	Standard	\$6,120		\$3,977	\$2,143		\$3,695	\$2,425	-	-	-	-
ABSH	business	Standard	\$1,495		\$972	\$523		\$241	\$1,254	-	-	-	-
ALVN	low voltage	Standard	\$20,717		\$13,461	\$7,256		\$1,339	\$14,627	\$4,631	-	-	\$120
ALVT	low voltage	Standard	\$30,322		\$19,703	\$10,619		-	\$7,432	\$5,297	\$16,119	-	\$1,474
ATXN	transformer	Standard	\$2,127		\$1,382	\$745		\$102	\$1,461	\$550	-	-	\$14
ATXT	transformer	Standard	\$56,530		\$36,732	\$19,798		-	\$15,255	\$9,296	\$30,473	-	\$1,806
AHVN	high voltage	Standard	\$62		\$40	\$22		\$4	\$39	\$19	-	-	-
AHVT	high voltage	Standard	\$19,882		\$12,915	\$6,963		-	\$5,840	\$2,279	\$11,197	\$86	\$480
NS	non-standard	Non-standard	\$16,481		\$8,342	\$8,139		\$16,405	-	-	-	-	\$76
<i>Add extra rows for additional consumer groups or price category codes as necessary</i>													
Standard consumer totals			\$394,916	-	\$256,609	\$138,307		\$70,228	\$241,147	\$22,072	\$57,789	\$86	\$3,594
Non-standard consumer totals			\$16,481	-	\$8,342	\$8,139		\$16,405	-	-	-	-	\$76
Total for all consumers			\$411,397	-	\$264,951	\$146,446		\$86,633	\$241,147	\$22,072	\$57,789	\$86	\$3,670

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

8(iii): Number of ICPs directly billed

Number of directly billed ICPs at year end

Check OK

Company Name	Vector
For Year Ended	31 March 2018
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.

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8(j): Billed Quantities by Price Component

Consumer group name or price category code	Consumer type or types (eg, residential, commercial etc.)	Standard or non-standard consumer group (specify)	Average no. of ICPs in disclosure year	Energy delivered to ICPs in disclosure year (MWh)	Unit charging basis (eg, days, kW of demand, kVA of capacity, etc.)	Billed quantities by price component						
						FIXD	kWh	CAPY	DAMD	DEXA	PWRF	
						Day	kWh	kVA/Day	kVA/Day	kVA/Day	kVA/Day	
WRCL	residential	Standard	87,333	473,212			31,886,477	473,211,643	-	-	-	-
WRCS	residential	Standard	70,659	685,535			25,822,752	685,534,935	-	-	-	-
WRUL	residential	Standard	11,561	58,877			4,207,760	58,877,252	-	-	-	-
WRUS	residential	Standard	14,568	114,344			5,313,032	114,343,921	-	-	-	-
WRHL	residential	Standard	1,133	4,846			410,051	4,846,282	-	-	-	-
WRHS	residential	Standard	1,130	8,631			403,781	8,631,482	-	-	-	-
WRGL	residential	Standard	8,573	40,779			3,126,097	40,779,102	-	-	-	-
WRGS	residential	Standard	5,722	49,468			2,089,328	49,467,729	-	-	-	-
WBSN	business	Standard	21,765	385,972			7,949,899	385,971,533	-	-	-	-
WBSU	business	Standard	511	21,172			14,895,227	21,172,147	-	-	-	-
WBSH	business	Standard	444	10,834			157,527	10,834,260	-	-	-	-
WLVN	low voltage	Standard	834	123,098			303,961	123,098,432	44,090,614	-	-	379,313
WLVH	low voltage	Standard	231	120,209			84,295	120,209,080	20,351,227	9,241,818	-	783,690
WTXN	transformer	Standard	135	39,155			49,220	39,154,637	11,976,309	-	-	220,848
WTXH	transformer	Standard	271	367,445			98,859	367,444,784	75,415,959	29,517,618	-	1,723,070
WHVN	high voltage	Standard	-	-			-	-	-	-	-	-
WHVH	high voltage	Standard	21	137,391			7,836	137,391,025	14,042,686	9,135,808	113,235	201,379
NS	non-standard	Non-standard	3	101,031			1,095	-	-	-	-	9,432
<i>Add extra rows for additional consumer groups or price category codes as necessary</i>												
Standard consumer totals			224,891	2,640,968			96,806,102	2,640,968,244	165,876,795	47,895,244	113,235	3,308,300
Non-standard consumer totals			3	101,031			1,095	-	-	-	-	9,432
Total for all consumers			224,894	2,741,999			96,807,197	2,640,968,244	165,876,795	47,895,244	113,235	3,317,732

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

Company Name	Vector
For Year Ended	31 March 2018
Network / Sub-Network Name	Northern

SCHEDULE 8: REPORT ON BILLED QUANTITIES AND LINE CHARGE REVENUES

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

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

Line charge revenues (\$000) by price component

Consumer group name or price category code	Consumer type or types (eg, residential, commercial etc.)	Standard or non-standard consumer group (specify)	Total line charge revenue in disclosure year	Notional revenue foregone from posted discounts (if applicable)	Total distribution line charge revenue	Total transmission line charge revenue (if available)	Rate (eg, \$ per day, \$ per kWh, etc.)	Price component					
								FIXD	kWh	CAPY	DAMD	DEXA	PWRF
								Day	kWh	kVA/Day	kVA/Day	kVA/Day	kVA/Day
WRCL	residential	Standard	\$49,968		\$32,468	\$17,500		\$4,773	\$45,195	-	-	-	-
WRCS	residential	Standard	\$64,682		\$42,029	\$22,653		\$26,028	\$38,654	-	-	-	-
WRUL	residential	Standard	\$6,723		\$4,368	\$2,355		\$630	\$6,093	-	-	-	-
WRUS	residential	Standard	\$12,715		\$8,262	\$4,453		\$5,355	\$7,360	-	-	-	-
WRHL	residential	Standard	\$511		\$332	\$179		\$61	\$450	-	-	-	-
WRHS	residential	Standard	\$872		\$566	\$306		\$407	\$465	-	-	-	-
WRGL	residential	Standard	\$4,363		\$2,835	\$1,528		\$468	\$3,895	-	-	-	-
WRGS	residential	Standard	\$4,895		\$3,181	\$1,714		\$2,106	\$2,789	-	-	-	-
WBSN	business	Standard	\$32,858		\$21,351	\$11,507		\$8,013	\$24,845	-	-	-	-
WBSU	business	Standard	\$3,737		\$2,428	\$1,309		\$2,230	\$1,507	-	-	-	-
WBSH	business	Standard	\$789		\$513	\$276		\$159	\$630	-	-	-	-
WLVN	low voltage	Standard	\$8,802		\$5,719	\$3,083		\$1,835	\$5,418	\$1,439	-	-	\$110
WLVH	low voltage	Standard	\$5,395		\$3,506	\$1,889		\$960	\$684	\$664	\$2,859	-	\$228
WTXN	transformer	Standard	\$2,266		\$1,472	\$794		\$267	\$1,551	\$384	-	-	\$64
WTXH	transformer	Standard	\$14,937		\$9,706	\$5,231		\$1,013	\$2,054	\$2,416	\$8,952	-	\$502
WHVN	high voltage	Standard	-		-	-		-	-	-	-	-	-
WHVH	high voltage	Standard	\$4,078		\$2,650	\$1,428		\$78	\$740	\$436	\$2,688	\$77	\$59
NS	non-standard	Non-standard	\$2,718		\$1,652	\$1,066		\$2,643	-	-	-	-	\$75
<i>Add extra rows for additional consumer groups or price category codes as necessary</i>													
Standard consumer totals			\$217,591	-	\$141,386	\$76,205		\$54,383	\$142,330	\$5,339	\$14,499	\$77	\$963
Non-standard consumer totals			\$2,718	-	\$1,652	\$1,066		\$2,643	-	-	-	-	\$75
Total for all consumers			\$220,309	-	\$143,038	\$77,271		\$57,026	\$142,330	\$5,339	\$14,499	\$77	\$1,038

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

8(iii): Number of ICPs directly billed

Number of directly billed ICPs at year end

Check

Company Name	Vector
For Year Ended	31 March 2018
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	Voltage	Asset category	Asset class	Units	Items at start of	Items at end of	Data accuracy	
					year (quantity)	year (quantity)	Net change	(1-4)
8	All	Overhead Line	Concrete poles / steel structure	No.	112,148	113,999	1,851	3
9	All	Overhead Line	Wood poles	No.	7,023	6,678	(345)	2
10	All	Overhead Line	Other pole types	No.	412	598	186	4
11	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	372	370	(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	345	346	1	4
14	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km	145	145	0	4
15	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressurised)	km	5	2	(3)	4
16	HV	Subtransmission Cable	Subtransmission UG up to 66kV (PILC)	km	50	50	(1)	4
17	HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	km	30	30	0	4
18	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Oil pressurised)	km	17	17	0	4
19	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Gas Pressurised)	km	-	-	-	N/A
20	HV	Subtransmission Cable	Subtransmission UG 110kV+ (PILC)	km	0	0	0	4
21	HV	Subtransmission Cable	Subtransmission submarine cable	km	12	12	(0)	4
22	HV	Zone substation Buildings	Zone substations up to 66kV	No.	101	99	(2)	4
23	HV	Zone substation Buildings	Zone substations 110kV+	No.	6	6	-	4
24	HV	Zone substation switchgear	50/66/110kV CB (Indoor)	No.	20	20	-	4
25	HV	Zone substation switchgear	50/66/110kV CB (Outdoor)	No.	2	2	-	4
26	HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No.	-	-	-	N/A
27	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.	201	301	100	4
28	HV	Zone substation switchgear	33kV RMU	No.	14	9	(5)	4
29	HV	Zone substation switchgear	22/33kV CB (Indoor)	No.	252	238	(14)	4
30	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.	163	158	(5)	4
31	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.	1,345	1,369	24	4
32	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.	-	-	-	N/A
33	HV	Zone Substation Transformer	Zone Substation Transformers	No.	216	216	-	4
34	HV	Distribution Line	Distribution OH Open Wire Conductor	km	3,794	3,783	(11)	3
35	HV	Distribution Line	Distribution OH Aerial Cable Conductor	km	-	-	-	N/A
36	HV	Distribution Line	SWER conductor	km	-	-	-	N/A
37	HV	Distribution Cable	Distribution UG XLPE or PVC	km	1,374	1,449	75	4
38	HV	Distribution Cable	Distribution UG PILC	km	2,220	2,206	(14)	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.	252	252	-	4
41	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.	163	164	1	3
42	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	9,877	10,118	241	3
43	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	3,442	3,464	22	3
44	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.	6,014	6,193	179	4
45	HV	Distribution Transformer	Pole Mounted Transformer	No.	7,651	7,565	(86)	4
46	HV	Distribution Transformer	Ground Mounted Transformer	No.	13,980	14,098	118	4
47	HV	Distribution Transformer	Voltage regulators	No.	12	12	-	4
48	HV	Distribution Substations	Ground Mounted Substation Housing	No.	12,533	12,656	123	3
49	LV	LV Line	LV OH Conductor	km	4,158	4,163	5	3
50	LV	LV Cable	LV UG Cable	km	5,897	6,049	153	4
51	LV	LV Street lighting	LV OH/UG Streetlight circuit	km	437	450	13	3
52	LV	Connections	OH/UG consumer service connections	No.	553,806	561,233	7,427	4
53	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.	3,683	3,670	(13)	3
54	All	SCADA and communications	SCADA and communications equipment operating as a single system	Lot	296	312	16	2
55	All	Capacitor Banks	Capacitors including controls	No.	97	91	(6)	4
56	All	Load Control	Centralised plant	Lot	33	33	-	4
57	All	Load Control	Relays	No.	-	-	-	N/A
58	All	Civils	Cable Tunnels	km	10	10	0	3

Company Name	Vector
For Year Ended	31 March 2018
Network / Sub-network Name	Southern

SCHEDULE 9a: ASSET REGISTER

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

sch ref	Voltage	Asset category	Asset class	Units	Items at start of	Items at end of	Data accuracy	
					year (quantity)	year (quantity)	Net change	(1-4)
8	All	Overhead Line	Concrete poles / steel structure	No.	47,901	48,797	896	3
9	All	Overhead Line	Wood poles	No.	4,466	4,179	(287)	2
10	All	Overhead Line	Other pole types	No.	240	362	122	4
11	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	51	51	0	4
12	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km	-	0	-	N/A
13	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km	205	204	(1)	4
14	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km	143	143	0	4
15	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressurised)	km	5	2	(3)	4
16	HV	Subtransmission Cable	Subtransmission UG up to 66kV (PILC)	km	49	49	(1)	4
17	HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	km	30	30	0	4
18	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Oil pressurised)	km	17	17	0	4
19	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Gas Pressurised)	km	-	0	-	N/A
20	HV	Subtransmission Cable	Subtransmission UG 110kV+ (PILC)	km	0	0	0	4
21	HV	Subtransmission Cable	Subtransmission submarine cable	km	11	11	(0)	4
22	HV	Zone substation Buildings	Zone substations up to 66kV	No.	51	50	(1)	4
23	HV	Zone substation Buildings	Zone substations 110kV+	No.	5	5	-	4
24	HV	Zone substation switchgear	50/66/110kV CB (Indoor)	No.	20	20	-	4
25	HV	Zone substation switchgear	50/66/110kV CB (Outdoor)	No.	-	0	-	N/A
26	HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No.	-	0	-	N/A
27	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.	-	0	-	N/A
28	HV	Zone substation switchgear	33kV RMU	No.	-	0	-	N/A
29	HV	Zone substation switchgear	22/33kV CB (Indoor)	No.	150	132	(18)	4
30	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.	-	0	-	N/A
31	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.	867	861	(6)	4
32	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.	-	0	-	N/A
33	HV	Zone Substation Transformer	Zone Substation Transformers	No.	129	129	-	4
34	HV	Distribution Line	Distribution OH Open Wire Conductor	km	895	892	(3)	3
35	HV	Distribution Line	Distribution OH Aerial Cable Conductor	km	-	0	-	N/A
36	HV	Distribution Line	SWER conductor	km	-	0	-	N/A
37	HV	Distribution Cable	Distribution UG XLPE or PVC	km	606	636	30	4
38	HV	Distribution Cable	Distribution UG PILC	km	1,590	1,579	(11)	4
39	HV	Distribution Cable	Distribution Submarine Cable	km	2	2	0	4
40	HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers	No.	56	55	(1)	4
41	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.	118	117	(1)	3
42	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	2,313	2,367	54	3
43	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	2,689	2,728	39	3
44	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.	4,520	4,600	80	4
45	HV	Distribution Transformer	Pole Mounted Transformer	No.	2,011	1,985	(26)	4
46	HV	Distribution Transformer	Ground Mounted Transformer	No.	6,729	6,776	47	4
47	HV	Distribution Transformer	Voltage regulators	No.	5	5	-	4
48	HV	Distribution Substations	Ground Mounted Substation Housing	No.	6,008	6,029	21	3
49	LV	LV Line	LV OH Conductor	km	1,972	1,965	(6)	3
50	LV	LV Cable	LV UG Cable	km	3,625	3,686	61	4
51	LV	LV Street lighting	LV OH/UG Streetlight circuit	km	250	255	5	3
52	LV	Connections	OH/UG consumer service connections	No.	330,648	334,330	3,682	4
53	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.	2,088	2,026	(62)	3
54	All	SCADA and communications	SCADA and communications equipment operating as a single system	Lot	162	172	10	2
55	All	Capacitor Banks	Capacitors including controls	No.	25	23	(2)	4
56	All	Load Control	Centralised plant	Lot	22	22	-	4
57	All	Load Control	Relays	No.	-	0	-	N/A
58	All	Civils	Cable Tunnels	km	10	10	0	3

Company Name	Vector
For Year Ended	31 March 2018
Network / Sub-network Name	Northern

SCHEDULE 9a: ASSET REGISTER

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

sch ref	Voltage	Asset category	Asset class	Units	Items at start of	Items at end of	Data accuracy	
					year (quantity)	year (quantity)	Net change	(1-4)
8	All	Overhead Line	Concrete poles / steel structure	No.	64,247	65,202	955	3
9	All	Overhead Line	Wood poles	No.	2,557	2,499	(58)	2
10	All	Overhead Line	Other pole types	No.	172	236	64	4
11	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	321	319	(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	140	142	2	4
14	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km	2	2	0	4
15	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressurised)	km	-	-	-	N/A
16	HV	Subtransmission Cable	Subtransmission UG up to 66kV (PILC)	km	1	1	(0)	4
17	HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	km	-	-	-	N/A
18	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Oil pressurised)	km	-	-	-	N/A
19	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Gas Pressurised)	km	-	-	-	N/A
20	HV	Subtransmission Cable	Subtransmission UG 110kV+ (PILC)	km	-	-	-	N/A
21	HV	Subtransmission Cable	Subtransmission submarine cable	km	1	1	(0)	4
22	HV	Zone substation Buildings	Zone substations up to 66kV	No.	50	49	(1)	4
23	HV	Zone substation Buildings	Zone substations 110kV+	No.	1	1	-	4
24	HV	Zone substation switchgear	50/66/110kV CB (Indoor)	No.	-	-	-	N/A
25	HV	Zone substation switchgear	50/66/110kV CB (Outdoor)	No.	2	2	-	4
26	HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No.	-	-	-	N/A
27	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.	201	301	100	4
28	HV	Zone substation switchgear	33kV RMU	No.	14	9	(5)	4
29	HV	Zone substation switchgear	22/33kV CB (Indoor)	No.	102	106	4	4
30	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.	163	158	(5)	4
31	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.	478	508	30	4
32	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.	-	-	-	N/A
33	HV	Zone Substation Transformer	Zone Substation Transformers	No.	87	87	-	4
34	HV	Distribution Line	Distribution OH Open Wire Conductor	km	2,899	2,891	(8)	3
35	HV	Distribution Line	Distribution OH Aerial Cable Conductor	km	-	-	-	N/A
36	HV	Distribution Line	SWER conductor	km	-	-	-	N/A
37	HV	Distribution Cable	Distribution UG XLPE or PVC	km	768	813	45	4
38	HV	Distribution Cable	Distribution UG PILC	km	630	627	(3)	4
39	HV	Distribution Cable	Distribution Submarine Cable	km	7	7	(0)	4
40	HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers	No.	196	197	1	4
41	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.	45	47	2	3
42	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	7,564	7,751	187	3
43	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	753	736	(17)	3
44	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.	1,494	1,593	99	4
45	HV	Distribution Transformer	Pole Mounted Transformer	No.	5,640	5,580	(60)	4
46	HV	Distribution Transformer	Ground Mounted Transformer	No.	7,251	7,322	71	4
47	HV	Distribution Transformer	Voltage regulators	No.	7	7	-	4
48	HV	Distribution Substations	Ground Mounted Substation Housing	No.	6,525	6,627	102	3
49	LV	LV Line	LV OH Conductor	km	2,186	2,197	11	3
50	LV	LV Cable	LV UG Cable	km	2,271	2,363	92	4
51	LV	LV Street lighting	LV OH/UG Streetlight circuit	km	187	195	8	3
52	LV	Connections	OH/UG consumer service connections	No.	223,158	226,903	3,745	4
53	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.	1,595	1,644	49	3
54	All	SCADA and communications	SCADA and communications equipment operating as a single system	Lot	134	140	6	2
55	All	Capacitor Banks	Capacitors including controls	No.	72	68	(4)	4
56	All	Load Control	Centralised plant	Lot	11	11	-	4
57	All	Load Control	Relays	No.	-	-	-	N/A
58	All	Civils	Cable Tunnels	km	-	-	-	N/A

Company Name
For Year Ended
Network / Sub-network Name

Vector
31 March 2018
Combined

SCHEDULE 9b: ASSET AGE PROFILE

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

sch ref	Disclosure Year (year ended)	Number of assets at disclosure year end by installation date																												No. with age unknown	Items at end of year (quantity)	No. with default dates	Data accuracy (1-4)			
		31 March 2018	pre-1940	1940-1949	1950-1959	1960-1969	1970-1979	1980-1989	1990-1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018								
9	Voltage	Asset category	Asset class	Units	14	327	6,484	16,765	17,011	46,148	10,300	556	778	998	820	394	1,345	2,080	2,171	1,842	1,869	1,694	1,271	1,438	1,992	1,793	1,938	2,656	4,306	2,271	14,451	113,993	3			
10	All	Overhead Line	Concrete poles / steel structure	No.	14	327	6,484	16,765	17,011	46,148	10,300	556	778	998	820	394	1,345	2,080	2,171	1,842	1,869	1,694	1,271	1,438	1,992	1,793	1,938	2,656	4,306	2,271	14,451	113,993	3			
11	All	Overhead Line	Wood poles	No.	4	15	183	540	879	671	947	196	53	75	86	45	102	154	123	67	57	125	34	32	38	38	26	22	15	24	2,451	6,678	4			
12	All	Overhead Line	Other pole types	No.	2	2	24	73	160	73	2	3	1	1	1	4	2	0	13	1	7	0	0	0	2	1	0	0	0	0	0	0	0	0		
13	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	--	--	--	7	12	--	--	--	--	--	--	--	--	7	--	--	--	--	--	0	--	--	0	--	--	--	--	--	27	4		
14	HV	Subtransmission Line	Subtransmission UG up to 66kV (XLPE)	km	--	--	0	--	19	11	55	56	1	22	6	1	4	8	32	8	25	21	4	10	7	3	16	16	13	6	0	0	346	4		
15	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km	--	--	--	41	74	24	4	--	0	0	--	0	0	1	0	--	0	0	--	--	0	--	--	--	--	0	--	--	145	4		
16	HV	Subtransmission Cable	Subtransmission UG up to 66kV (PILC)	km	--	--	--	2	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2	4		
17	HV	Subtransmission Cable	Subtransmission UG up to 66kV (PILC)	km	7	3	17	16	3	2	1	0	--	--	--	0	0	--	1	--	--	--	--	--	0	--	--	--	--	0	0	50	4			
18	HV	Subtransmission Cable	Subtransmission UG up to 110kV+ (XLPE)	km	--	--	--	--	--	--	8	--	--	--	--	--	1	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	30	4		
19	HV	Subtransmission Cable	Subtransmission UG up to 110kV+ (Oil pressurised)	km	--	--	--	11	--	5	0	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	17	4		
20	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Gas Pressurised)	km	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	17	4
21	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Gas Pressurised)	km	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	N/A	
22	HV	Subtransmission Cable	Subtransmission UG 110kV+ (PILC)	km	--	--	--	0	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	4		
23	HV	Subtransmission Cable	Subtransmission submarine cable	km	--	--	--	0	--	11	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	12	4		
24	HV	Zone substation Buildings	Zone substations up to 66kV	No.	--	1	4	23	26	18	9	3	1	--	2	--	--	1	1	3	1	1	2	--	--	1	--	1	1	--	--	99	4			
25	HV	Zone substation Buildings	Zone substations 110kV+	No.	--	--	--	--	1	4	1	--	--	--	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	6	4		
26	HV	Zone substation switchgear	50/66/110kV CB (Indoor)	No.	--	--	--	--	--	--	9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	11	--	--	--	20	4			
27	HV	Zone substation switchgear	50/66/110kV CB (Outdoor)	No.	--	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2	4		
28	HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	N/A		
29	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.	--	--	42	92	53	8	--	--	--	--	--	--	--	1	--	8	5	--	2	--	85	23	7	--	4	1	--	301	4			
30	HV	Zone substation switchgear	33kV RMU	No.	--	--	--	--	--	--	--	--	--	--	--	5	1	--	--	3	--	--	--	--	--	--	--	--	--	--	--	--	9	4		
31	HV	Zone substation switchgear	22/33kV CB (Indoor)	No.	--	--	--	--	14	20	9	--	10	--	4	--	9	1	7	32	2	--	--	6	--	35	30	52	7	--	--	238	4			
32	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.	--	--	5	36	34	27	6	--	5	--	1	--	2	1	1	9	21	1	4	--	1	--	2	--	--	--	--	158	4			
33	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.	--	--	9	180	198	261	106	11	6	2	7	--	19	15	45	87	44	39	34	25	49	30	25	53	89	35	--	1,369	4			
34	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	N/A		
35	HV	Zone Substation Transformer	Zone Substation Transformers	km	--	--	5	41	49	35	28	4	1	2	1	1	--	1	2	3	6	5	8	6	1	3	7	4	3	--	216	4				
36	HV	Distribution Line	Distribution OH Open Wire Conductor	No.	1	4	146	546	1,015	1,387	294	96	11	5	11	6	22	36	62	21	22	10	8	7	5	10	9	5	8	7	30	3,783	3			
37	HV	Distribution Line	Distribution OH Aerial Cable Conductor	km	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	N/A		
38	HV	Distribution Line	SWER conductor	No.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	N/A		
39	HV	Distribution Cable	Distribution UG XLPE or PVC	km	0	0	0	1	17	34	178	37	41	31	23	18	99	137	101	60	107	54	70	40	49	71	64	67	65	80	6	1,449	4			
40	HV	Distribution Cable	Distribution UG PILC	km	13	3	26	198	628	710	515	35	13	4	3	2	12	7	19	5	6	2	1	0	0	0	1	1	0	0	0	7	2,206	4		
41	HV	Distribution Cable	Distribution Submarine Cable	km	--	--	6	0	1	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	8	4			
42	HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers	No.	--	--	--	--	--	21	6	5	1	2	--	3	12	37	76	43	5	2	11	13	2	3	4	4	4	2	--	252	4			
43	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.	--	--	1	24	16	22	9	1	--	--	--	5	1	6	13	2	10	1	3	7	4	5	12	15	--	7	164	3				
44	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	--	--	10	240	1,096	1,847	1,497	251	181	156	155	66	228	307	264	260	274	160	117	174	269	330	417	501	591	533	194	10,118	3			
45	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	7	--	2	396	1,126	680	409	66	65	58	47	59	79	77	48	33	45	38	41	46	23	10	5	5	--	--	103	3,464	3			
46	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.	4	--	2	285	1,036	1,309	738	113	85	104	166	160	173	121	102	69	58	99	125	127	183	170	187	238	347	184	8	6,193	4			
47	HV	Distribution Transformer	Pole Mounted Transformer	No.	13	34	162	267	663	1,360	1,308	275	119	179	144	40	237	271	316	306	258	216	127	212	169	203	215	307	230	49	4	7,565	4			
48	HV	Distribution Transformer	Ground Mounted Transformer	No.	6	38	149	800	2,020	2,389	2,356	283	285	283	227	84	597	431	494	303	309	294	321	259	333	395	358	338	410	364	2	14,098	4			
49	HV	Distribution Transformer	Voltage regulators	No.	--	--	--	--	--	--	--	--	--	--	--	1	--	--	4	--	--	--	1	3	2	1	--	--	--	--	--	--	12	4		
50	HV	Distribution Substations	Ground Mounted Substation Housing	No.	11	62	180	1,290	3,029	3,429	2,078	187	238	126	141	200	125	120	86	70	61	48	53	56	103	157	204	148	167	166	120	12,656	3			
51	LV	LV Line	LV OH Conductor	km	0	4	117	551	1,071	1,819	156	111	7	7	11	4	17	27	49	12	13	9	12	13	10	10	10	9	16	29	68	4,163	3			
52	LV	LV Cable	LV UG Cable	km	5	21	46	434	1,074	1,063	1,269	117	98	55	50																					

Company Name: Vector
 For Year Ended: 31 March 2018
 Network / Sub-network Name: Northern

SCHEDULE 9b: ASSET AGE PROFILE

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

sch ref		Disclosure Year (year ended)		Number of assets at disclosure year end by installation date																																No. with age unknown		Items at end of year (quantity)	No. with default dates	Data accuracy (1-4)																						
		31 March 2018		pre-1940	1940-1949	1950-1959	1960-1969	1970-1979	1980-1989	1990-1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018																																	
9	Voltage	Asset category	Asset class																																																											
10	All	Overhead Line	Concrete poles / steel structure	No.	9	397	5,319	11,716	16,373	13,283	6,034	312	272	298	255	189	389	513	367	388	707	482	325	403	744	742	986	1,210	1,854	1,606	6	120	65,203	3																												
11	All	Overhead Line	Wood poles	No.	4	15	183	257	452	585	435	20	14	30	28	15	48	63	61	22	39	95	1	21	15	23	23	10	6	4	33	2,499	3																													
12	All	Overhead Line	Other pole types	No.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	236	4																												
13	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	2	24	73	125	73	2	--	--	--	--	0	--	1	4	2	0	8	1	2	--	--	--	1	0	--	0	319	4																														
14	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km	--	--	7	12	--	--	--	--	--	--	--	--	--	--	7	--	--	--	--	--	--	--	0	--	--	--	--	27	4																													
15	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km	--	--	0	--	19	10	22	8	0	1	1	1	3	7	17	7	22	2	4	1	3	1	2	3	4	4	0	142	4																													
16	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km	--	--	--	3	1	--	--	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	2	4																												
17	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressurised)	km	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4	4																											
18	HV	Subtransmission Cable	Subtransmission UG up to 66kV (PILC)	km	--	--	--	1	0	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	4																												
19	HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	km	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4	4																										
20	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Oil pressurised)	km	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4	4																										
21	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Gas Pressurised)	km	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	N/A	4																										
22	HV	Subtransmission Cable	Subtransmission UG 110kV+ (PILC)	km	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4	4																										
23	HV	Subtransmission Cable	Subtransmission submarine cable	km	--	--	0	--	0	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	4																												
24	HV	Zone substation Buildings	Zone substations up to 66kV	No.	--	--	2	12	11	11	4	--	1	--	3	--	--	--	3	1	--	--	1	--	1	--	--	1	--	--	1	--	49	4																												
25	HV	Zone substation Buildings	Zone substations 110kV+	No.	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	1	4																												
26	HV	Zone substation switchgear	50/66/110kV CB (Indoor)	No.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4	4																											
27	HV	Zone substation switchgear	50/66/110kV CB (Outdoor)	No.	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2	4																												
28	HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	N/A	4																										
29	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.	--	--	42	92	53	8	--	--	--	--	--	--	--	--	1	--	8	5	--	2	--	85	23	7	--	4	1	--	301	4																												
30	HV	Zone substation switchgear	33kV RMU	No.	--	--	--	--	--	--	--	--	--	--	3	1	--	--	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	9	4																											
31	HV	Zone substation switchgear	22/33kV CB (Indoor)	No.	--	--	--	--	--	--	--	--	--	4	--	--	--	9	1	6	24	2	--	--	--	29	13	13	5	--	--	--	106	4																												
32	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.	--	--	5	36	34	27	6	--	5	--	1	--	2	1	1	9	21	3	4	--	1	--	--	2	--	--	--	158	4																													
33	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.	--	--	7	26	83	65	40	--	6	2	7	--	18	6	--	48	27	26	7	9	24	17	19	27	32	12	--	--	508	4																												
34	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	N/A	4																											
35	HV	Zone Substation Transformer	Zone Substation Transformers	No.	--	--	2	18	16	18	8	--	1	1	--	1	--	--	2	--	6	--	3	1	1	2	4	1	2	--	--	--	87	4																												
36	HV	Distribution Line	Distribution OH Open Wire Conductor	km	0	4	146	546	950	771	259	8	9	3	2	5	17	31	52	12	18	7	5	3	4	7	8	4	5	5	11	2,891	3																													
37	HV	Distribution Line	Distribution OH Aerial Cable Conductor	km	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	N/A	4																											
38	HV	Distribution Line	SWER conductor	km	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	N/A	4																											
39	HV	Distribution Cable	Distribution UG XLPE or PVC	km	--	0	0	6	23	152	29	23	17	9	13	34	82	41	30	73	28	31	18	24	26	36	33	35	48	1	--	813	4																													
40	HV	Distribution Cable	Distribution UG PILC	km	--	--	1	17	119	268	196	8	2	1	0	2	1	2	2	1	2	0	0	0	0	1	0	--	--	--	2	--	627	4																												
41	HV	Distribution Cable	Distribution Submarine Cable	km	--	--	6	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	7	4																												
42	HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers	No.	--	--	--	--	20	6	5	1	--	1	--	3	2	21	62	41	3	1	8	10	1	3	4	3	2	--	--	197	4																													
43	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.	--	--	--	4	2	1	--	--	--	--	--	--	--	--	2	9	1	2	1	1	5	2	5	2	9	--	1	47	3																													
44	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	--	--	10	236	1,051	1,343	1,311	159	125	114	103	66	139	254	172	174	231	121	77	108	148	190	312	385	464	422	36	7,751	3																													
45	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	--	--	1	9	20	99	174	30	20	34	23	22	39	37	25	16	22	22	16	16	13	6	2	2	--	--	90	736	3																													
46	HV	Distribution Transformer	Pole Mounted Transformer	No.	--	--	15	43	182	241	50	27	42	57	61	51	35	34	25	18	55	37	53	46	60	92	101	147	130	1	1,593	4																														
47	HV	Distribution Transformer	Ground Mounted Transformer	No.	13	34	140	227	506	1,087	1,020	155	87	94	80	39	32	221	225	121	162	144	85	140	108	124	140	243	157	39	2	5,580	4																													
48	HV	Distribution Transformer	Voltage regulators	No.	6	38	147	713	955	876	956	156	127	136	116	68	429	236	219	160	188	203	206	134	148	199	195	186	233	274	--	7,322	4																													
49	HV	Distribution Transformer	Ground Mounted Substation Housing	No.	--	--	--	--	--	--	--	--	--	--	1	--	--	--	1	--	--	--	--	1	1	2	1	--	--	--	--	--	7	4																												
50	HV	Distribution Substations	Ground Mounted Substation Housing	No.	11	61	178	1,123	1,598	1,287	952	103	133	69	81	129	65	68	28	31	21	34	24	26	47	83	132	96	137	109	--	6,627	3																													
51	LV	Line	LV OH Conductor	km	--	4	117	549	826	429	68	4	2	1	0	2	10	23	41	8	9	6	7	6	5	6	7	7	13	25	21	2,197	3																													
52	LV	Line	LV UG Cable	km	1	4	9	201	403	278	493	61	31	21	15	30	61	142	55	32	52	27	28	20	31	47	69	66	84	94	8	2,363	4																													
53	LV	Street lighting	LV OH/UG Streetlight circuit																																																											

Company Name	Vector
For Year Ended	31 March 2018
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)			Total circuit length (km)
11	> 66kV	Overhead (km)	Underground (km)	74
12	50kV & 66kV	27	47	-
13	33kV	-	-	-
14	SWER (all SWER voltages)	368	419	787
15	22kV (other than SWER)	-	-	-
16	6.6kV to 11kV (inclusive—other than SWER)	3	179	182
17	Low voltage (< 1kV)	3,783	3,620	7,403
18	Total circuit length (for supply)	4,163	6,049	10,212
19		8,343	10,315	18,658
20	Dedicated street lighting circuit length (km)	17	433	450
21	Circuit in sensitive areas (conservation areas, iwi territory etc) (km)			4,089
22				
23	Overhead circuit length by terrain (at year end)			(% of total overhead length)
24	Urban	Circuit length (km)	overhead length	51%
25	Rural	4,295		49%
26	Remote only			-
27	Rugged only			-
28	Remote and rugged			-
29	Unallocated overhead lines			-
30	Total overhead length	8,343		100%
31				
32				(% of total circuit length)
33	Length of circuit within 10km of coastline or geothermal areas (where known)	Circuit length (km)	overhead length	99.7%
34		18,603		
35	Overhead circuit requiring vegetation management			(% of total overhead length)
		Circuit length (km)	overhead length	100%
		8,343		

Company Name	Vector
For Year Ended	31 March 2018
Network / Sub-network Name	Southern

SCHEDULE 9c: REPORT ON OVERHEAD LINES AND UNDERGROUND CABLES

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

sch ref

9				
10	Circuit length by operating voltage (at year end)	Overhead (km)	Underground (km)	Total circuit length (km)
11	> 66kV	-	47	47
12	50kV & 66kV	-	-	-
13	33kV	48	273	321
14	SWER (all SWER voltages)	-	-	-
15	22kV (other than SWER)	3	179	182
16	6.6kV to 11kV (inclusive—other than SWER)	893	2,174	3,067
17	Low voltage (< 1kV)	1,965	3,686	5,652
18	Total circuit length (for supply)	2,909	6,359	9,269
19				
20	Dedicated street lighting circuit length (km)	5	250	255
21	Circuit in sensitive areas (conservation areas, iwi territory etc) (km)			2,324
22				
23	Overhead circuit length by terrain (at year end)	(% of total overhead length)		
24	Urban	2,306		79%
25	Rural	603		21%
26	Remote only			-
27	Rugged only			-
28	Remote and rugged			-
29	Unallocated overhead lines			-
30	Total overhead length	2,909		100%
31				
32		(% of total circuit length)		
33	Length of circuit within 10km of coastline or geothermal areas (where known)	9,269		100%
34		(% of total overhead length)		
35	Overhead circuit requiring vegetation management	2,909		100%

Company Name	Vector
For Year Ended	31 March 2018
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)	Total circuit length (km)
11	> 66kV	27	-	27
12	50kV & 66kV	-	-	-
13	33kV	320	146	466
14	SWER (all SWER voltages)	-	-	-
15	22kV (other than SWER)	-	-	-
16	6.6kV to 11kV (inclusive—other than SWER)	2,890	1,446	4,336
17	Low voltage (< 1kV)	2,198	2,363	4,561
18	Total circuit length (for supply)	5,434	3,955	9,389
19				
20	Dedicated street lighting circuit length (km)	12	182	195
21	Circuit in sensitive areas (conservation areas, iwi territory etc) (km)			1,765
22				
23	Overhead circuit length by terrain (at year end)	(% of total overhead length)		
24	Urban	1,989		37%
25	Rural	3,445		63%
26	Remote only			-
27	Rugged only			-
28	Remote and rugged			-
29	Unallocated overhead lines			-
30	Total overhead length	5,434		100%
31				
32		(% of total circuit length)		
33	Length of circuit within 10km of coastline or geothermal areas (where known)	9,334		99%
34		(% of total overhead length)		
35	Overhead circuit requiring vegetation management	5,434		100%

Company Name **Vector**
 For Year Ended **31 March 2018**

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			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			

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

Company Name	Vector
For Year Ended	31 March 2018
Network / Sub-network Name	Combined

SCHEDULE 9e: REPORT ON NETWORK DEMAND

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

sch ref

8	9e(i): Consumer Connections		
9	Number of ICPs connected in year by consumer type		
10	Consumer types defined by EDB*	Number of connections (ICPs)	
11	Residential	6,264	
12	Commercial	4,790	
13	[EDB consumer type]		
14	[EDB consumer type]		
15	[EDB consumer type]		
16	* include additional rows if needed		
17	Connections total	11,054	
18			
19	Distributed generation		
20	Number of connections made in year	469	connections
21	Capacity of distributed generation installed in year	1.87	MVA
22	9e(ii): System Demand		
23			
24		Demand at time of maximum coincident demand (MW)	
25	Maximum coincident system demand		
26	GXP demand	1,754	
27	plus Distributed generation output at HV and above	14	
28	Maximum coincident system demand	1,768	
29	less Net transfers to (from) other EDBs at HV and above		
30	Demand on system for supply to consumers' connection points	1,768	
31	Electricity volumes carried	Energy (GWh)	
32	Electricity supplied from GXPs	8,604	
33	less Electricity exports to GXPs	-	
34	plus Electricity supplied from distributed generation	128	
35	less Net electricity supplied to (from) other EDBs	-	
36	Electricity entering system for supply to consumers' connection points	8,732	
37	less Total energy delivered to ICPs	8,407	
38	Electricity losses (loss ratio)	325	3.7%
39			
40	Load factor	0.56	
41	9e(iii): Transformer Capacity		
42		(MVA)	
43	Distribution transformer capacity (EDB owned)	4,386	
44	Distribution transformer capacity (Non-EDB owned, estimated)	468	
45	Total distribution transformer capacity	4,854	
46			
47	Zone substation transformer capacity	4,486	

Company Name	Vector
For Year Ended	31 March 2018
Network / Sub-network Name	Southern

SCHEDULE 9e: REPORT ON NETWORK DEMAND

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

sch ref

8	9e(i): Consumer Connections		
9	Number of ICPs connected in year by consumer type		
10	Consumer types defined by EDB*	Number of connections (ICPs)	
11	Residential	3,894	
12	Commercial	2,091	
13	[EDB consumer type]		
14	[EDB consumer type]		
15	[EDB consumer type]		
16	* include additional rows if needed		
17	Connections total	5,985	
18			
19	Distributed generation		
20	Number of connections made in year	213	connections
21	Capacity of distributed generation installed in year	0.87	MVA
22	9e(ii): System Demand		
23			
24		Demand at time of maximum coincident demand (MW)	
25	Maximum coincident system demand		
26	GXP demand	1,131	
27	plus Distributed generation output at HV and above	4	
28	Maximum coincident system demand	1,136	
29	less Net transfers to (from) other EDBs at HV and above		
30	Demand on system for supply to consumers' connection points	1,136	
31	Electricity volumes carried	Energy (GWh)	
32	Electricity supplied from GXPs	5,817	
33	less Electricity exports to GXPs	-	
34	plus Electricity supplied from distributed generation	45	
35	less Net electricity supplied to (from) other EDBs	-	
36	Electricity entering system for supply to consumers' connection points	5,862	
37	less Total energy delivered to ICPs	5,665	
38	Electricity losses (loss ratio)	197	3.4%
39			
40	Load factor	0.59	
41	9e(iii): Transformer Capacity		
42		(MVA)	
43	Distribution transformer capacity (EDB owned)	2,760	
44	Distribution transformer capacity (Non-EDB owned, estimated)	412	
45	Total distribution transformer capacity	3,173	
46			
47	Zone substation transformer capacity	2,971	

Company Name	Vector
For Year Ended	31 March 2018
Network / Sub-network Name	Northern

SCHEDULE 9e: REPORT ON NETWORK DEMAND

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

sch ref

8	9e(i): Consumer Connections		
9	Number of ICPs connected in year by consumer type		
10	Consumer types defined by EDB*	Number of connections (ICPs)	
11	Residential	2,370	
12	Commercial	2,699	
13	[EDB consumer type]		
14	[EDB consumer type]		
15	[EDB consumer type]		
16	* include additional rows if needed		
17	Connections total	5,069	
18			
19	Distributed generation		
20	Number of connections made in year	250	connections
21	Capacity of distributed generation installed in year	0.99	MVA
22	9e(ii): System Demand		
23			
24		Demand at time of maximum coincident demand (MW)	
25	Maximum coincident system demand		
26	GXP demand	688	
27	plus Distributed generation output at HV and above	10	
28	Maximum coincident system demand	698	
29	less Net transfers to (from) other EDBs at HV and above		
30	Demand on system for supply to consumers' connection points	698	
31	Electricity volumes carried	Energy (GWh)	
32	Electricity supplied from GXPs	2,787	
33	less Electricity exports to GXPs	-	
34	plus Electricity supplied from distributed generation	83	
35	less Net electricity supplied to (from) other EDBs	-	
36	Electricity entering system for supply to consumers' connection points	2,870	
37	less Total energy delivered to ICPs	2,742	
38	Electricity losses (loss ratio)	128	4.5%
39			
40	Load factor	0.47	
41	9e(iii): Transformer Capacity		
42		(MVA)	
43	Distribution transformer capacity (EDB owned)	1,625	
44	Distribution transformer capacity (Non-EDB owned, estimated)	385	
45	Total distribution transformer capacity	2,011	
46			
47	Zone substation transformer capacity	1,515	

Company Name	Vector
For Year Ended	31 March 2018
Network / Sub-network Name	Combined

SCHEDULE 10: REPORT ON NETWORK RELIABILITY

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

sch ref

8	10(i): Interruptions		
9	Interruptions by class	Number of interruptions	
10	Class A (planned interruptions by Transpower)	4	
11	Class B (planned interruptions on the network)	1,955	
12	Class C (unplanned interruptions on the network)	2,122	
13	Class D (unplanned interruptions by Transpower)	2	
14	Class E (unplanned interruptions of EDB owned generation)		
15	Class F (unplanned interruptions of generation owned by others)		
16	Class G (unplanned interruptions caused by another disclosing entity)		
17	Class H (planned interruptions caused by another disclosing entity)		
18	Class I (interruptions caused by parties not included above)		
19	Total	4,083	
20			
21	Interruption restoration	≤3Hrs	>3hrs
22	Class C interruptions restored within	1,226	896
23			
24	SAIFI and SAIDI by class	SAIFI	SAIDI
25	Class A (planned interruptions by Transpower)	–	0.3
26	Class B (planned interruptions on the network)	0.47	98.6
27	Class C (unplanned interruptions on the network)	2.00	208.1
28	Class D (unplanned interruptions by Transpower)	0.03	3.0
29	Class E (unplanned interruptions of EDB owned generation)		
30	Class F (unplanned interruptions of generation owned by others)		
31	Class G (unplanned interruptions caused by another disclosing entity)		
32	Class H (planned interruptions caused by another disclosing entity)		
33	Class I (interruptions caused by parties not included above)		
34	Total	2.50	310.0
35			
36	Normalised SAIFI and SAIDI	Normalised SAIFI	Normalised SAIDI
37	Classes B & C (interruptions on the network) (under the 2015 DPP)	2.14	226.2
38	Classes B & C (interruptions on the network) (under the ID Determination 2012)	2.47	286.7
39	Quality path normalised reliability limit	SAIFI reliability limit	SAIDI reliability limit
40	SAIFI and SAIDI limits applicable to disclosure year (under the 2015 DPP)*	1.40	104.2
41	SAIFI and SAIDI limits applicable to disclosure year (under the ID Determination 2012)*	1.86	127.3

* not applicable to exempt EDBs

Company Name	Vector
For Year Ended	31 March 2018
Network / Sub-network Name	Combined

SCHEDULE 10: REPORT ON NETWORK RELIABILITY

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

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

Cause	SAIFI	SAIDI
Lightning	0.02	1.3
Vegetation	0.23	35.3
Adverse weather	0.04	8.8
Adverse environment	0.00	2.5
Third party interference	0.29	33.2
Wildlife	0.05	4.5
Human error	0.02	0.7
Defective equipment	1.16	100.9
Cause unknown	0.20	21.0

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

Main equipment involved	SAIFI	SAIDI
Subtransmission lines	0.00	0.0
Subtransmission cables		
Subtransmission other	0.00	0.0
Distribution lines (excluding LV)	0.13	35.5
Distribution cables (excluding LV)	0.02	3.2
Distribution other (excluding LV)	0.32	59.8

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

Main equipment involved	SAIFI	SAIDI
Subtransmission lines	0.11	9.4
Subtransmission cables	0.03	1.5
Subtransmission other	0.03	2.4
Distribution lines (excluding LV)	1.26	125.6
Distribution cables (excluding LV)	0.20	25.6
Distribution other (excluding LV)	0.37	43.6

10(v): Fault Rate

Main equipment involved	Number of Faults	Circuit length (km)	Fault rate (faults per 100km)
Subtransmission lines	20	396	5.05
Subtransmission cables	5	604	0.83
Subtransmission other	7		
Distribution lines (excluding LV)	1,302	3,780	34.44
Distribution cables (excluding LV)	237	3,662	6.47
Distribution other (excluding LV)	551		
Total	2,122		

Company Name	Vector
For Year Ended	31 March 2018
Network / Sub-network Name	Southern

SCHEDULE 10: REPORT ON NETWORK RELIABILITY

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

sch ref

8	10(i): Interruptions		
9	Interruptions by class	Number of interruptions	
10	Class A (planned interruptions by Transpower)		
11	Class B (planned interruptions on the network)	1,062	
12	Class C (unplanned interruptions on the network)	856	
13	Class D (unplanned interruptions by Transpower)	2	
14	Class E (unplanned interruptions of EDB owned generation)		
15	Class F (unplanned interruptions of generation owned by others)		
16	Class G (unplanned interruptions caused by another disclosing entity)		
17	Class H (planned interruptions caused by another disclosing entity)		
18	Class I (interruptions caused by parties not included above)		
19	Total	1,920	
20			
21	Interruption restoration	≤3Hrs	>3hrs
22	Class C interruptions restored within	484	372
23			
24	SAIFI and SAIDI by class	SAIFI	SAIDI
25	Class A (planned interruptions by Transpower)		
26	Class B (planned interruptions on the network)	0.50	89.6
27	Class C (unplanned interruptions on the network)	1.78	174.1
28	Class D (unplanned interruptions by Transpower)	0.06	5.0
29	Class E (unplanned interruptions of EDB owned generation)		
30	Class F (unplanned interruptions of generation owned by others)		
31	Class G (unplanned interruptions caused by another disclosing entity)		
32	Class H (planned interruptions caused by another disclosing entity)		
33	Class I (interruptions caused by parties not included above)		
34	Total	2.34	268.7
35			
36	Normalised SAIFI and SAIDI	Normalised SAIFI	Normalised SAIDI
37	Classes B & C (interruptions on the network) (under the 2015 DPP)	1.86	177.5
38	Classes B & C (interruptions on the network) (under the ID Determination 2012)	2.28	261.5
39	Quality path normalised reliability limit	SAIFI reliability limit	SAIDI reliability limit
40	SAIFI and SAIDI limits applicable to disclosure year*	N/A	N/A
41	* not applicable to exempt EDBs		

Company Name	Vector
For Year Ended	31 March 2018
Network / Sub-network Name	Southern

SCHEDULE 10: REPORT ON NETWORK RELIABILITY

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

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

Cause	SAIFI	SAIDI
Lightning	0.00	0.3
Vegetation	0.18	24.9
Adverse weather	0.03	5.1
Adverse environment	0.01	4.1
Third party interference	0.30	32.2
Wildlife	0.03	3.0
Human error	0.02	0.5
Defective equipment	1.11	92.0
Cause unknown	0.12	12.1

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

Main equipment involved	SAIFI	SAIDI
Subtransmission lines		
Subtransmission cables		
Subtransmission other		
Distribution lines (excluding LV)	0.12	29.2
Distribution cables (excluding LV)	0.01	1.5
Distribution other (excluding LV)	0.37	58.9

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

Main equipment involved	SAIFI	SAIDI
Subtransmission lines	0.03	5.4
Subtransmission cables	0.03	1.5
Subtransmission other	0.01	1.0
Distribution lines (excluding LV)	1.08	91.7
Distribution cables (excluding LV)	0.23	29.4
Distribution other (excluding LV)	0.41	45.1

10(v): Fault Rate

Main equipment involved	Number of Faults	Circuit length (km)	Fault rate (faults per 100km)
Subtransmission lines	3	51	5.90
Subtransmission cables	3	455	0.66
Subtransmission other	3		
Distribution lines (excluding LV)	455	892	51.02
Distribution cables (excluding LV)	147	2,220	6.62
Distribution other (excluding LV)	245		
Total	856		

Company Name	Vector
For Year Ended	31 March 2018
Network / Sub-network Name	Northern

SCHEDULE 10: REPORT ON NETWORK RELIABILITY

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

sch ref

8	10(i): Interruptions		
9	Interruptions by class	Number of interruptions	
10	Class A (planned interruptions by Transpower)	4	
11	Class B (planned interruptions on the network)	893	
12	Class C (unplanned interruptions on the network)	1,266	
13	Class D (unplanned interruptions by Transpower)		
14	Class E (unplanned interruptions of EDB owned generation)		
15	Class F (unplanned interruptions of generation owned by others)		
16	Class G (unplanned interruptions caused by another disclosing entity)		
17	Class H (planned interruptions caused by another disclosing entity)		
18	Class I (interruptions caused by parties not included above)		
19	Total	2,163	
20			
21	Interruption restoration	≤3Hrs	>3hrs
22	Class C interruptions restored within	742	524
23			
24	SAIFI and SAIDI by class	SAIFI	SAIDI
25	Class A (planned interruptions by Transpower)	–	0.8
26	Class B (planned interruptions on the network)	0.42	111.8
27	Class C (unplanned interruptions on the network)	2.33	258.3
28	Class D (unplanned interruptions by Transpower)		
29	Class E (unplanned interruptions of EDB owned generation)		
30	Class F (unplanned interruptions of generation owned by others)		
31	Class G (unplanned interruptions caused by another disclosing entity)		
32	Class H (planned interruptions caused by another disclosing entity)		
33	Class I (interruptions caused by parties not included above)		
34	Total	2.75	370.9
35			
36	Normalised SAIFI and SAIDI	Normalised SAIFI	Normalised SAIDI
37	Classes B & C (interruptions on the network) (under the 2015 DPP)	2.31	254.9
38	Classes B & C (interruptions on the network) (under the ID Determination 2012)	2.75	349.0
39	Quality path normalised reliability limit	SAIFI reliability limit	SAIDI reliability limit
40	SAIFI and SAIDI limits applicable to disclosure year*	N/A	N/A
41	* not applicable to exempt EDBs		

Company Name	Vector
For Year Ended	31 March 2018
Network / Sub-network Name	Northern

SCHEDULE 10: REPORT ON NETWORK RELIABILITY

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

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

Cause	SAIFI	SAIDI
Lightning	0.04	2.7
Vegetation	0.31	50.7
Adverse weather	0.06	14.2
Adverse environment	-	-
Third party interference	0.27	34.7
Wildlife	0.08	6.6
Human error	0.02	1.0
Defective equipment	1.23	114.1
Cause unknown	0.32	34.2

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

Main equipment involved	SAIFI	SAIDI
Subtransmission lines	0.00	0.1
Subtransmission cables		
Subtransmission other	0.00	0.1
Distribution lines (excluding LV)	0.14	44.8
Distribution cables (excluding LV)	0.03	5.6
Distribution other (excluding LV)	0.26	61.1

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

Main equipment involved	SAIFI	SAIDI
Subtransmission lines	0.24	15.3
Subtransmission cables	0.03	1.5
Subtransmission other	0.06	4.4
Distribution lines (excluding LV)	1.52	175.8
Distribution cables (excluding LV)	0.16	20.0
Distribution other (excluding LV)	0.31	41.4

10(v): Fault Rate

Main equipment involved	Number of Faults	Circuit length (km)	Fault rate (faults per 100km)
Subtransmission lines	17	346	4.92
Subtransmission cables	2	149	1.34
Subtransmission other	4		
Distribution lines (excluding LV)	847	2,888	29.32
Distribution cables (excluding LV)	90	1,442	6.24
Distribution other (excluding LV)	306		
Total	1,266		