

EDB Information Disclosure Requirements Information Templates

for Schedules 1–10

(Reissued¹)

Company NameVectorDisclosure Date3 October 2022Disclosure Year (year ended)31 March 2021

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

¹In March 2020 Vector's electricity business undertook certain sale and lease back related party transactions (the Transactions) relating to substation land, substation buildings and the Penrose to CBD tunnel. The Transactions were undertaken to separate Vector's land and buildings into separate subsidiaries, accountabilities and reporting lines, to commercialise, develop and realise additional revenue from these assets outside the regulated business, and to create opportunities for future capital raising to support our ongoing investment in Auckland growth and electrification to enable net zero 2050. Other infrastructure owners have recently undertaken similar transactions; for example, Telstra, Vodafone and Spark have all separated out the ownership of their passive infrastructure.

The Transactions were disclosed in the 2020 Information Disclosure published on 29 October 2020. Given the size and the complexity of the Transactions, extensive external legal and accounting advice was sought to ensure the Transactions were correctly treated in the Information Disclosures. Vector also brought the Transactions to the Commission's attention ahead of filing the 2020 Information Disclosures, and those original disclosures as filed clearly set out the impact of the Transactions. After the 2020 Information Disclosures were published, the Commerce Commission notified Vector that it considered its treatment of the Transactions to be inconsistent with the applicable input methodologies. Following extensive engagement by Vector with the Commission, Vector has agreed to amend the regulatory effects of the Transactions.

These restated and reissued Information Disclosures reflect the reversal of the regulatory effects of the Transactions. Neither the original treatment of the Transactions or the amended effects of the Transactions now reflected in these disclosures have had any impact on prices. As these transactions were undertaken between wholly owned Vector companies, they had no impact on our Group financial statements.

Vector initiated extensive engagement with the Commission on this matter, including proactively sharing expert legal and accounting advice supporting Vector's regulatory treatment of the Transactions, in an attempt to reconcile the difference in interpretation. Such expert advice was in addition to audited regulatory disclosures incorporating the Transactions having been filed with the Commission.

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Disclosure Template Instructions

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

Company Name and Dates

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

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

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

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

Data Entry Cells and Calculated Cells

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

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

Validation Settings on Data Entry Cells

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

Conditional Formatting Settings on Data Entry Cells

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

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

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

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

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

Inserting Additional Rows and Columns

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

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

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

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

Disclosures by Sub-Network

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

Schedule References

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

Description of Calculation References

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

Worksheet Completion Sequence

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

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

Company Name Vector For Year Ended 31 March 2021

mu	s schedule calculates expenditure, revenue and service ratios from the informa st be interpreted with care. The Commerce Commission will publish a summary			· · · · · ·		
info	rmation disclosed in accordance with this and other schedules, and informatio	n disclosed under the	other requirement	s of the determinati	on.	
	s information is part of audited disclosure information (as defined in section 1.4 $^{\circ}$	of the ID determinat	ion), and so is subje	ect to the assurance	report required by	section 2.8.
h re	ef					
7	1(i): Expenditure metrics					
				Expenditure per		Expenditure per MVA
		Expenditure per	Expenditure per	MW maximum		of capacity from EDB-
		GWh energy delivered to ICPs	average no. of ICPs	coincident system	Expenditure per km circuit length	owned distribution transformers
8		(\$/GWh)	(\$/ICP)	demand (\$/MW)	(\$/km)	(\$/MVA)
9	Operational expenditure	15,494	218	73,527	6,644	27,168
0	Network	5,975	84	28,357	2,563	10,478
1	Non-network	9,518	134	45,171	4,082	16,691
2						
3	Expenditure on assets	36,114	508	171,383	15,487	63,326
4	Network	33,202	467	157,563	14,239	58,220
5	Non-network	2,912	41	13,820	1,249	5,106
6						
7	1(ii): Revenue metrics					
		Revenue per GWh	Revenue per			
		energy delivered	average no. of			
		to ICPs	ICPs			
8		(\$/GWh)	(\$/ICP)			
9	Total consumer line charge revenue	68,275	961			
0	Standard consumer line charge revenue	71,079	929			
1	Non-standard consumer line charge revenue	31,844	602,742			
2 3	1(iii): Service intensity measures					
4	I(m). Service intensity ineasures					
5	Demand density	90	Maximum coincid	lent system demand	l per km of circuit le	ength (for supply) (kW/
6	Volume density	429		•		or supply) (MWh/km)
7	Connection point density	30		of ICPs per km of cir		
8	Energy intensity	14,071	-	vered to ICPs per ave		** * * *
9						
0	1(iv): Composition of regulatory income					
			(\$000)	% of revenue		
1	Operational expenditure		127,202	23.19%		
	Pass-through and recoverable costs excluding financial incent	tives and wash-ups	191,320	34.88%		
2	rass-till ough and recoverable costs excluding illiancial incent		135,000	22.95%		
2 3	Total depreciation		125,888			
1 2 3 4 5			49,372	9.00%		
2 3 4 5	Total depreciation					
3	Total depreciation Total revaluations	sh-ups	49,372	9.00%		

1/	W	•	R۵	lia	hil	litv
	v		IJΕ	нa	vII	IILV

41 42

Interruptions per 100 circuit km Interruption rate



Vector Company Name 31 March 2021 For Year Ended **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 19 31 Mar 20 31 Mar 21 9 **ROI** – comparable to a post tax WACC 5.23% 5.42% 3.34% Reflecting all revenue earned 10 5.34% 5.53% 3.40% 11 Excluding revenue earned from financial incentives 5.41% 3.40% 12 Excluding revenue earned from financial incentives and wash-ups 5.60% 13 14 Mid-point estimate of post tax WACC 4.75% 4.27% 3.72% 15 25th percentile estimate 4.07% 3.59% 3.04% 4.95% 75th percentile estimate 5.43% 4.40% 16 17 18 19 **ROI – comparable to a vanilla WACC** 5.74% 5.85% 3.67% 20 Reflecting all revenue earned Excluding revenue earned from financial incentives 5.85% 3.74% 21 5.95% 5.92% 3.74% 22 Excluding revenue earned from financial incentives and wash-ups 6.02% 23 7.19% 4.57% 24 WACC rate used to set regulatory price path 7.19% 25 26 Mid-point estimate of vanilla WACC 5.26% 4.69% 4.05% 4.58% 3.37% 27 25th percentile estimate 4.01% 5.94% 5.37% 4.73% 28 75th percentile estimate 29 (\$000) 2(ii): Information Supporting the ROI 30 31 32 Total opening RAB value 3,258,721 (100,962) 33 plus Opening deferred tax 34 **Opening RIV** 3,157,759 35 560,533 36 Line charge revenue 37 318,522 38 Expenses cash outflow 215,221 39 Assets commissioned add 12,198 40 less Asset disposals 41 20,346 add Tax payments 42 Other regulated income (11,951)Mid-year net cash outflows 553,842 43 45 Term credit spread differential allowance 3,830

ROI – comparable to a vanilla WACC	3.67%
Leverage (%)	42%
Cost of debt assumption (%)	2.82%
Corporate tax rate (%)	28%
ROI – comparable to a post tax WACC	3.34%

3,385,969

(112,544)

741

3,272,684



Total closing RAB value

Closing deferred tax

Adjustment resulting from asset allocation

Lost and found assets adjustment

47

48 49

50

51

52

plus

Closing RIV

Vector Company Name 31 March 2021 For Year Ended **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 61 62 63 **Opening RIV** N/A 64 65 Line charge **Expenses cash Assets** Asset Other regulated Monthly net cash 66 outflows outflow commissioned revenue disposals income 67 April 68 May 69 June 70 July 71 August 72 September 73 October 74 November *75* December 76 January 77 February 78 March 79 **Total** 80 N/A 81 Tax payments 82 83 Term credit spread differential allowance N/A 84 85 **Closing RIV** N/A 86 87 N/A 88 Monthly ROI – comparable to a vanilla WACC 89 Monthly ROI – comparable to a post tax WACC 90 N/A 91 2(iv): Year-End ROI Rates for Comparison Purposes 92 93 94 Year-end ROI – comparable to a vanilla WACC 3.69% 95 96 Year-end ROI – comparable to a post tax WACC 3.36% 97 98 * 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. 99 2(v): Financial Incentives and Wash-Ups 100 101 102 Net recoverable costs allowed under incremental rolling incentive scheme 103 Purchased assets – avoided transmission charge 104 Energy efficiency and demand incentive allowance _ 105 Quality incentive adjustment (4,449)106 Other financial incentives 1,725 107 **Financial incentives** (2,724)108 109 Impact of financial incentives on ROI -0.06% 110 111 Input methodology claw-back 112 CPP application recoverable costs 113 Catastrophic event allowance 114 Capex wash-up adjustment Transmission asset wash-up adjustment 115 2013-15 NPV wash-up allowance 116 117 Reconsideration event allowance 118 Other wash-ups _ 119 Wash-up costs 120 121 Impact of wash-up costs on ROI

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	Company Name	Vector
	For Year Ended	31 March 2021
SC	CHEDULE 3: REPORT ON REGULATORY PROFIT	
	s schedule requires information on the calculation of regulatory profit for the EDB for the disclosure year. All EDBs must complete all sect	ions and provide explanatory comment
	their regulatory profit in Schedule 14 (Mandatory Explanatory Notes). s information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assuran	ce report required by section 2.8.
sch re		ce report required by section 2.0.
		(4000)
7	3(i): Regulatory Profit	(\$000)
8	Income	560 522
9 10	Line charge revenue plus Gains / (losses) on asset disposals	560,533 (11,951)
11	plus Other regulated income (other than gains / (losses) on asset disposals)	-
12		
13	Total regulatory income	548,582
14	Expenses	
15	less Operational expenditure	127,202
16 17	less Pass-through and recoverable costs excluding financial incentives and wash-ups	191,320
18		
19	Operating surplus / (deficit)	230,060
20		
21 22	less Total depreciation	125,888
23	plus Total revaluations	49,372
24		
25	Regulatory profit / (loss) before tax	153,544
26 27	less Term credit spread differential allowance	3,830
28	ress Term credit spread differential allowance	3,030
29	less Regulatory tax allowance	31,928
30		447.707
31 32	Regulatory profit/(loss) including financial incentives and wash-ups	117,787
	2/ii): Pass through and Posovorable Costs excluding Financial Incentives and Wash Line	(\$000)
<i>33 34</i>	3(ii): Pass-through and Recoverable Costs excluding Financial Incentives and Wash-Ups Pass through costs	(3000)
35	Rates	8,093
36	Commerce Act levies	1,203
37	Industry levies	2,046
38	CPP specified pass through costs	
39 40	Recoverable costs excluding financial incentives and wash-ups Electricity lines service charge payable to Transpower	170,812
41	Transpower new investment contract charges	7,632
42	System operator services	_
43	Distributed generation allowance Extended reserves allowance	977
44 45	Other recoverable costs excluding financial incentives and wash-ups	557
46	Pass-through and recoverable costs excluding financial incentives and wash-ups	191,320
47		
48	3(iii): Incremental Rolling Incentive Scheme	(\$000)
49		CY-1 CY
50 51	Allowed controllable opex	31 Mar 20 31 Mar 21
52	Actual controllable opex	
53		
54 55	Incremental change in year	_
		Previous years'
		Previous years' incremental
56		incremental change adjusted change for inflation
57	CY-5 31 Mar 16	
58	CY-4 31 Mar 17	
59 60	CY-3 31 Mar 18 CY-2 31 Mar 19	
61	CY-2 31 Mar 19 CY-1 31 Mar 20	
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 67	Merger and acquisition expenditure	_
0/	Provide commentary on the benefits of merger and acquisition expenditure to the electricity distribution business, including	required disclosures in accordance with
68	section 2.7, in Schedule 14 (Mandatory Explanatory Notes)	reguired discressifics in accordance with
69	3(v): Other Disclosures	
70		(\$000)
71	Self-insurance allowance	

8



DULE 4: REPORT ON VALUE OF THE Redule requires information on the calculation of the Regulator		•		F	ompany Name For Year Ended	3	1 March 2021	
st provide explanatory comment on the value of their RAB in .8.					1.4 of the ID deterr	mination), and so is s	ubject to the assura	nce report rec
4(i): Regulatory Asset Base Value (Rolled F	[:] orward)		for year ended	RAB 31 Mar 17 (\$000)	RAB 31 Mar 18 (\$000)	RAB 31 Mar 19 (\$000)	RAB 31 Mar 20 (\$000)	RAB 31 Mar 21 (\$000)
Total opening RAB value			L	2,682,398	2,879,136	2,951,716	3,075,471	3,258,7
less Total depreciation				96,289	108,316	108,729	116,767	125,8
plus Total revaluations			[57,761	31,561	44,091	77,539	49,3
plus Assets commissioned				249,121	156,888	203,460	512,505	215,2
less Asset disposals			Γ	15,951	7,540	7,412	289,233	12,:
plus Lost and found assets adjustment			L	-	-	-	-	-
plus Adjustment resulting from asset allocation			L	2,095	(13)	(7,655)	(794)	-
Total closing RAB value				2,879,136	2,951,716	3,075,471	3,258,721	3,385,9
4(ii): Unallocated Regulatory Asset Base					Unallocate		RAI	
Total opening RAB value					(\$000)	(\$000) 3,280,363	(\$000) 	(\$000) 3,258,7
less Total depreciation					Г	130,658	Γ	125,
plus								
Total revaluations plus				_		49,689		49,
Assets commissioned (other than below) Assets acquired from a regulated supplier					208,798 –		207,207	
Assets acquired from a related party Assets commissioned					8,014	216,812	8,014	215,2
less				_	40.000	210,012	45.45	210,
Asset disposals (other than below) Asset disposals to a regulated supplier					12,895 –		12,198	
Asset disposals to a related party Asset disposals					_	12,895	_	12,
plus Lost and found assets adjustment					Г			
plus Adjustment resulting from asset allocation					_		_	7
Total closing RAB value * The 'unallocated RAB' is the total value of those assets used	d wholly or portially to	electricity distribution	ithout any allowance being read of	allocation of sect to	vices provided by	3,403,311	ot electricity d'at l'	3,385,9
The 'unallocated RAB' is the total value of those assets used The RAB value represents the value of these assets after apply				unocation of costs to ser	vices provided by th	ie supplier that are n	ot electricity distrib	ation services.
CPI ₄ CPI ₄ -4 Revaluation rate (%)					Unallocate (\$000)	ed RAB * (\$000)	RAE (\$000)	1 1.5 3 (\$000)
Total opening RAB value					3,280,363		3,258,721	
less Opening value of fully depreciated, disposed and	lost assets				14,491		13,673	
Total opening RAB value subject to revaluation Total revaluations					3,265,872	49,689	3,245,048	49,3
4(iv): Roll Forward of Works Under Constr	uction				Unallocated v	der		
Manual and a second					constru	iction	Allocated works un	
Works under construction—preceding disclosure y plus Capital expenditure	/eal				210,000	37,838	209,069	37,
less Assets commissionedless Adjustment resulting from asset allocation					216,812		215,221 394	
Works under construction - current disclosure yea	r					31,026		30,
Highest rate of capitalised finance applied								4.3
4(v): Regulatory Depreciation					Unallocate	ed RAB *	RAE	3
Depreciation - standard				Г	(\$000)	(\$000)	(\$000)	(\$000)
Depreciation - standard Depreciation - no standard life assets					84,067 46,591		84,067 41,821	
Depreciation - modified life assets Depreciation - alternative depreciation in accord	ance with CPP				<u>-</u> -		<u>-</u> -	
Total depreciation						130,658		125,
I(vi): Disclosure of Changes to Depreciation	on Profiles				(\$000 unle	ess otherwise specif	ed)	
						C	Closing RAB value	
						Depreciation charge for the	standard'	Closing RAB valunder 'standa
Asset or assets with changes to depreciation*			Keason for non-standar	rd depreciation (text ent	ту)	period (RAB)	depreciation	depreciation
* include additional rows if needed								
I(vii): Disclosure by Asset Category			(\$000 unless oth	nerwise specified)				
				Distribution				
		ransmission cables Zone substations	Distribution and Distribution and LV lines LV cables	substations and transformers	Distribution switchgear	Other network assets	Non-network assets	Total
Total opening RAB value less Total depreciation	74,476 2,055	360,720 295,703 11,283 11,478	379,366 807,938 11,018 27,398	293,647 10,053	244,277 10,088	742,735 26,367	59,859 16,148	3,258,7 125,8

							Сотр	any Name		Vector	
							For Y	ear Ended	31 N	/larch 2021	
This sch	hedule requires information on the calculation of the Regulatory As nust provide explanatory comment on the value of their RAB in School 2.8.	set Base (RAB) value to	the end of this disc	losure year. This in	forms the ROI calcu			f the ID determir	aation), and so is subj	ect to the assura	ance report require
h ref .05	plus Total revaluations	1,133	5,484	4,469	5,773	12,275	4,455	3,660	11,207	916	49,372
06	plus Assets commissioned	101	4,579	29,061	38,846	18,038	10,485	43,189	50,341	20,579	215,221
7	less Asset disposals	84	64	1,790	2,107	2,004	573	3,540	293	1,744	12,198
18	plus Lost and found assets adjustment	0	0	0	0	0	0	0	0	0	_
9	plus Adjustment resulting from asset allocation	0	0	0	0	0	0	0	0	741	741
10	plus Asset category transfers	0	0	0	0	0	0	0	0	0	-
11	Total closing RAB value	73,571	359,436	315,966	410,860	808,850	297,961	277,498	777,624	64,203	3,385,969
12	Asset Life										
					4.2	3.6	2.4	20	20	12	1
113 114	Weighted average remaining asset life	41	45	31	43	36	34	28	39	12	(years)



Company Name **Vector** 31 March 2021 For Year Ended SCHEDULE 5a: REPORT ON REGULATORY TAX ALLOWANCE This schedule requires information on the calculation of the regulatory tax allowance. This information is used to calculate regulatory profit/loss in Schedule 3 (regulatory profit). EDBs must provide explanatory commentary on the information disclosed in this schedule, in Schedule 14 (Mandatory Explanatory Notes). This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section sch ref 5a(i): Regulatory Tax Allowance (\$000) Regulatory profit / (loss) before tax 153,544 Income not included in regulatory profit / (loss) before tax but taxable 10 plus 11 Expenditure or loss in regulatory profit / (loss) before tax but not deductible 9,213 12 Amortisation of initial differences in asset values 32,019 13 Amortisation of revaluations 11,526 52,758 14 15 16 Total revaluations 49,372 less 17 Income included in regulatory profit / (loss) before tax but not taxable 18 Discretionary discounts and customer rebates 19 Expenditure or loss deductible but not in regulatory profit / (loss) before tax 2,241 20 Notional deductible interest 40,661 21 92,274 22 Regulatory taxable income 114,028 23 24 25 less Utilised tax losses 114,028 26 Regulatory net taxable income 27 28 Corporate tax rate (%) 28% 29 Regulatory tax allowance 31,928 30 * Workings to be provided in Schedule 14 31 5a(ii): Disclosure of Permanent Differences 32 In Schedule 14, Box 5, provide descriptions and workings of items recorded in the asterisked categories in Schedule 5a(i). 33 5a(iii): Amortisation of Initial Difference in Asset Values (\$000) 34 35 36 928,569 Opening unamortised initial differences in asset values 37 32,019 less Amortisation of initial differences in asset values 38 plus Adjustment for unamortised initial differences in assets acquired 39 Adjustment for unamortised initial differences in assets disposed 7,349 40 Closing unamortised initial differences in asset values 889,201 41 Opening weighted average remaining useful life of relevant assets (years) 42 29 43



Company Name **Vector** For Year Ended 31 March 2021 SCHEDULE 5a: REPORT ON REGULATORY TAX ALLOWANCE This schedule requires information on the calculation of the regulatory tax allowance. This information is used to calculate regulatory profit/loss in Schedule 3 (regulatory profit). EDBs must provide explanatory commentary on the information disclosed in this schedule, in Schedule 14 (Mandatory Explanatory Notes). This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section sch ref 5a(iv): Amortisation of Revaluations (\$000) 44 45 Opening sum of RAB values without revaluations 3,248,864 46 47 Adjusted depreciation 114,362 48 125,888 49 **Total depreciation** 50 11,526 Amortisation of revaluations 51 (\$000) 5a(v): Reconciliation of Tax Losses 52 53 54 **Opening tax losses** 55 plus Current period tax losses 56 Utilised tax losses **Closing tax losses** 57 5a(vi): Calculation of Deferred Tax Balance (\$000) 58 59 60 (100,962)Opening deferred tax 61 Tax effect of adjusted depreciation 32,021 62 63 36,026 64 less Tax effect of tax depreciation 65 66 Tax effect of other temporary differences* 1,869 plus 67 68 Tax effect of amortisation of initial differences in asset values 8,965 less 69 70 Deferred tax balance relating to assets acquired in the disclosure year plus 71 72 1,244 Deferred tax balance relating to assets disposed in the disclosure year 73 763 74 plus Deferred tax cost allocation adjustment *75* (112,544)76 Closing deferred tax 77 5a(vii): Disclosure of Temporary Differences 78 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). 79 80 5a(viii): Regulatory Tax Asset Base Roll-Forward 81 82 (\$000) 83 1,259,310 Opening sum of regulatory tax asset values 128,666 84 less Tax depreciation 85 Regulatory tax asset value of assets commissioned 219,279 plus 86 Regulatory tax asset value of asset disposals 4,989 less 87 Lost and found assets adjustment plus 88 Adjustment resulting from asset allocation 3,466 plus Other adjustments to the RAB tax value 89 1,348,400 90 Closing sum of regulatory tax asset values



Company Name **Vector** 31 March 2021 For Year Ended SCHEDULE 5b: REPORT ON RELATED PARTY TRANSACTIONS This schedule provides information on the valuation of related party transactions, in accordance with clause 2.3.6 of the ID determination. This information is part of audited disclosure information (as defined in clause 1.4 of the ID determination), and so is subject to the assurance report required by clause 2.8. sch ref 5b(i): Summary—Related Party Transactions (\$000) (\$000) **Total regulatory income** 10 Market value of asset disposals 11 12 Service interruptions and emergencies 13 7,193 Vegetation management 14 Routine and corrective maintenance and inspection 15 Asset replacement and renewal (opex) 7,193 16 **Network opex** 17 **Business support** 18 System operations and network support 10,776 17,969 19 **Operational expenditure** 20 Consumer connection 21 5,068 System growth 22 714 Asset replacement and renewal (capex) 23 Asset relocations 24 Quality of supply 25 Legislative and regulatory 26 252 Other reliability, safety and environment 27 129 **Expenditure on non-network assets** 28 **Expenditure on assets** 6,163 29 Cost of financing 38 30 Value of capital contributions 31 Value of vested assets 32 **Capital Expenditure** 6,201 33 24,170 **Total expenditure** 34 35 Other related party transactions **5b(iii): Total Opex and Capex Related Party Transactions** 36 **Total value of** Nature of opex or capex transactions Name of related party service provided (\$000) 37 40 PowerSmart NZ Limited Other reliability, safety and environment 157 PowerSmart NZ Limited 81 41 System growth 42 Asset replacement and renewal (capex) **Vector Communications Limited** 338 43 **Vector Communications Limited** System growth 27 **Vector Communications Limited** 44 Other reliability, safety and environment 79 **Vector Communications Limited** System operations and network support 45 4,029 Tree Scape Limited Vegetation management 7,193 46 Tree Scape Limited 47 Asset replacement and renewal (capex) 376 16 48 Tree Scape Limited Other reliability, safety and environment 129 49 Cristal Air International Limited Expenditure on non-network assets 1,415 **Vector Auckland Property Limited** System growth 50 Vector Northern Property Limited 3,545 System growth Vector Technology Services Limited 51 System operations and network support 6,747 52 **Total value of related party transactions** 24,132 53

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

Related party	Relationship	Principal activities	Amount (\$000) excluded cost of financing
Vector communications limited	a wholly owned subsidiary of Vector limited	Network communications and SCADA services	4,473
Tree Scape limited	an associate in which Vector limited holds a 50% interest	Vegetation management services	7,585
PowerSmart NZ limited	a wholly owned subsidiary of Vector limited	Energy solutions services	238
Cristal Air International limited	a wholly owned subsidiary of Vector limited	Energy solutions services	129
Vector technology services limited	a wholly owned subsidiary of Vector limited	Digital and technology services	6,747
Vector Auckland property limited	a wholly owned subsidiary of Vector limited	Asset management services	1,415
Vector Northern property limited	a wholly owned subsidiary of Vector limited	Asset management services	3,545



Company Name Vector
For Year Ended 31 March 2021

SCHEDULE 5c: REPORT ON TERM CREDIT SPREAD DIFFERENTIAL ALLOWANCE

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

sch ref

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

						Book value at		
			Original tenor (in		Book value at	date of financial	Term Credit	Debt issue cost
Issuing party	Issue date	Pricing date	years)	Coupon rate (%)	issue date (NZD)	statements (NZD)	Spread Difference	readjustment
[]VCI	2-Feb-18	19-Dec-17	3	BKBM + []VCI				
[]VCI	2-Feb-18	19-Dec-17	3	BKBM + []VCI				
[]VCI	2-Feb-18	19-Dec-17	3	BKBM + []VCI				
[]VCI	2-Feb-18	19-Dec-17	3	BKBM + []VCI				
[]VCI	31-Jul-18	17-Jul-18	3	BKBM + []VCI				
[]VCI	31-Jul-18	17-Jul-18	3	BKBM + []VCI				
[]VCI	31-Jul-18	17-Jul-18	3	BKBM + []VCI				
[]VCI	16-Sep-19	24-Jul-19	3	BKBM + []VCI				
[]VCI	16-Sep-19	24-Jul-19	3	BKBM + []VCI				
[]VCI	16-Sep-19	24-Jul-19	3	BKBM + []VCI				
[]VCI	16-Sep-19	24-Jul-19	3	BKBM + []VCI				
[]VCI	16-Apr-20	15-Apr-20	3	BKBM + []VCI				
[]VCI	13-Jan-20	20-Dec-19	5	BKBM + []VCI				
Subtotal of bank facilities- variable rate						148,683		
Capital bonds – fixed rate	15-Jun-17	14-Jun-17	5	5.7	307,205	306,511	[]VCI	[]VCI
Wholesale Bonds- fixed rate Mar17	14-Mar-17	3-Mar-17	7	4.996	100,000		[]VCI	[]VC
Wholesale Bonds- fixed rate Jun18	25-Jun-18	21-Jun-18	5.7	4.996	140,000		[]VCI	[]VC
Subtotal of wholesale bonds- variable rate					240,000	243,100	[]VCI	[]VCI
Senior notes - 2020 USPP 12yr	12-Mar-20	4-Mar-20	12	[]VCI	573,888		[]VCI	[]VC
Senior notes - 2020 USPP 15 yr	12-Mar-20	4-Mar-20	15	[]VCI	223,179		[]VCI	[]VC
Senior notes - 2010 USPP 12yr	20-Dec-10	22-Sep-10	12	[]VCI	250,516		[]VCI	[]VC
Senior notes - 2014 USPP 7yr	14-Oct-14	19-Jun-14	7	[]VCI	150,000		[]VCI	[]VC
Senior notes - 2017 USPP 10yr	25-Oct-17	28-Sep-17	10	[]VCI	277,200		[]VCI	[]VC
Senior notes - 2017 USPP 12yr	25-Oct-17	28-Sep-17	12	[]VCI	138,600		[]VCI	[]VC
Subtotal of senior notes - USD fixed rate					1,613,383	1,839,871	[]VCI	[]VCI
Floating rate notes- variable rate	26-Oct-05	26-Oct-05	15	вквм + []VCI	350,000	349,899	[]vcɪ	[]vci
Unsubordinated fixed rate bonds	27-May-19	16-May-19	6.0	3.45	250,000	247,536	[]vcı	[]VCI
* include additional rows if needed						3,135,600	11,032	(2,426)

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

Gross term credit spread differential

Total book value of interest bearing debt

Leverage

Average opening and closing RAB values

Attribution Rate (%)

Term credit spread differential allowance

8,606

3,135,600 42% 3,322,345

3,830

45%

HEDI					Company Name For Year Ended		Vector 31 March 2021	
chedu	JLE 5d: REPORT ON COST ALLOCA e provides information on the allocation of operation tion is part of audited disclosure information (as defin	nal costs. EDBs must pro), including on the im	pact of any reclassi	fications.
5d	i): Operating Cost Allocations				Value allocate			
				Arm's length deduction	Electricity distribution services	Non-electricity distribution services	Total	OVABAA allocat
	Service interruptions and emergencies			acaaction		Scrvices	Total	mereuse (\$000
	Directly attributable Not directly attributable			_	13,329	-		
	Total attributable to regulated service				13,329			
	Vegetation management Directly attributable				8,667			
	Not directly attributable Total attributable to regulated service			_	- 8,667	-	-	
	Routine and corrective maintenance and	d inspection			8,007			
	Directly attributable Not directly attributable			_	16,027 (15)	(3)	(18)	
	Total attributable to regulated service				16,012	(3)	(10)	
	Asset replacement and renewal Directly attributable				11,049			
	Not directly attributable			_	11,049	_	_	
	Total attributable to regulated service	•			11,049			
	System operations and network support Directly attributable	•			35,362			
	Not directly attributable			_	7,632	987	8,619	
	Total attributable to regulated service Business support				42,994			
	Directly attributable				1,066	10.005	F2 470	1
	Not directly attributable Total attributable to regulated service			_	34,085 35,151	18,085	52,170	
	Operating costs directly attributable				85,500			
	Operating costs not directly attributable	2		-	41,702	19,069	60,771	
	Operational expenditure				127,202			
Edi	ii): Other Cost Allocations							
Ju	ii). Other cost Anocations							
Su					(\$000)			
J U	Pass through and recoverable costs Pass through costs				(\$000)			
5 u ₁	Pass through and recoverable costs Pass through costs Directly attributable				11,342			
5 01	Pass through and recoverable costs Pass through costs							
5 01	Pass through and recoverable costs Pass through costs Directly attributable Not directly attributable Total attributable to regulated service Recoverable costs				11,342 - 11,342			
Su	Pass through and recoverable costs Pass through costs Directly attributable Not directly attributable Total attributable to regulated service				11,342			
5 0	Pass through and recoverable costs Pass through costs Directly attributable Not directly attributable Total attributable to regulated service Recoverable costs Directly attributable				11,342 - 11,342			
	Pass through and recoverable costs Pass through costs Directly attributable Not directly attributable Total attributable to regulated service Recoverable costs Directly attributable Not directly attributable				11,342 - 11,342 179,978 -			
	Pass through and recoverable costs Pass through costs Directly attributable Not directly attributable Total attributable to regulated service Recoverable costs Directly attributable Not directly attributable Total attributable to regulated service				11,342 - 11,342 179,978 -	(\$00 CY-1	00) Current Year (CY)	
	Pass through and recoverable costs Pass through costs Directly attributable Not directly attributable Total attributable to regulated service Recoverable costs Directly attributable Not directly attributable Total attributable to regulated service Total attributable to regulated service iii): Changes in Cost Allocations* † Change in cost allocation 1 Cost category				11,342 - 11,342 179,978 - 179,978 Original allocation			
	Pass through and recoverable costs Pass through costs Directly attributable Not directly attributable Total attributable to regulated service Recoverable costs Directly attributable Not directly attributable Not directly attributable Total attributable to regulated service iii): Changes in Cost Allocations* † Change in cost allocation 1				11,342 - 11,342 179,978 - 179,978			
	Pass through and recoverable costs Pass through costs Directly attributable Not directly attributable Total attributable to regulated service Recoverable costs Directly attributable Not directly attributable Total attributable to regulated service Total attributable to regulated service iii): Changes in Cost Allocations* † Change in cost allocation 1 Cost category Original allocator or line items New allocator or line items				11,342 - 11,342 179,978 - 179,978 Original allocation New allocation	CY-1		
	Pass through and recoverable costs Pass through costs Directly attributable Not directly attributable Total attributable to regulated service Recoverable costs Directly attributable Not directly attributable Total attributable to regulated service iii): Changes in Cost Allocations* † Change in cost allocation 1 Cost category Original allocator or line items				11,342 - 11,342 179,978 - 179,978 Original allocation New allocation	CY-1		
	Pass through and recoverable costs Pass through costs Directly attributable Not directly attributable Total attributable to regulated service Recoverable costs Directly attributable Not directly attributable Total attributable to regulated service Total attributable to regulated service iii): Changes in Cost Allocations* † Change in cost allocation 1 Cost category Original allocator or line items New allocator or line items				11,342 - 11,342 179,978 - 179,978 Original allocation New allocation	CY-1 _	Current Year (CY) -	
	Pass through and recoverable costs Pass through costs Directly attributable Not directly attributable Total attributable to regulated service Recoverable costs Directly attributable Not directly attributable Total attributable to regulated service Total attributable to regulated service iii): Changes in Cost Allocations* † Change in cost allocation 1 Cost category Original allocator or line items New allocator or line items Rationale for change Change in cost allocation 2				11,342 - 11,342 179,978 - 179,978 Original allocation New allocation Difference	CY-1	Current Year (CY) -	
	Pass through and recoverable costs Pass through costs Directly attributable Not directly attributable Total attributable to regulated service Recoverable costs Directly attributable Not directly attributable Total attributable to regulated service Total attributable to regulated service iii): Changes in Cost Allocations* † Change in cost allocation 1 Cost category Original allocator or line items New allocator or line items Rationale for change				11,342 - 11,342 179,978 - 179,978 Original allocation New allocation	CY-1 	Current Year (CY) - 00)	
	Pass through and recoverable costs Pass through costs Directly attributable Not directly attributable Total attributable to regulated service Recoverable costs Directly attributable Not directly attributable Total attributable to regulated service iii): Changes in Cost Allocations* † Change in cost allocation 1 Cost category Original allocator or line items New allocator or line items Rationale for change Change in cost allocation 2 Cost category				11,342 - 11,342 179,978 - 179,978 Original allocation New allocation Difference Original allocation	CY-1 	Current Year (CY) - 00)	
	Pass through and recoverable costs Pass through costs Directly attributable Not directly attributable Total attributable to regulated service Recoverable costs Directly attributable Not directly attributable Total attributable to regulated service Total attributable to regulated service Total attributable to regulated service Change in cost allocation 1 Cost category Original allocator or line items New allocator or line items Rationale for change Change in cost allocation 2 Cost category Original allocator or line items				11,342 - 11,342 179,978 - 179,978 Original allocation New allocation Difference Original allocation New allocation New allocation	CY-1 - (\$00	Current Year (CY) - 00)	
	Pass through and recoverable costs Pass through costs Directly attributable Not directly attributable Total attributable to regulated service Recoverable costs Directly attributable Not directly attributable Total attributable to regulated service Total attributable to regulated service iii): Changes in Cost Allocations* † Change in cost allocation 1 Cost category Original allocator or line items New allocator or line items Rationale for change Change in cost allocation 2 Cost category Original allocator or line items New allocator or line items New allocator or line items				11,342 - 11,342 179,978 - 179,978 Original allocation New allocation Difference Original allocation New allocation New allocation	CY-1 - (\$00	Current Year (CY) - 00)	
	Pass through and recoverable costs Pass through costs Directly attributable Not directly attributable Total attributable to regulated service Recoverable costs Directly attributable Not directly attributable Total attributable to regulated service Change in cost allocation 1 Cost category Original allocator or line items Rationale for change Change in cost allocation 2 Cost category Original allocator or line items New allocator or line items New allocator or line items Rationale for change				11,342 - 11,342 179,978 - 179,978 Original allocation New allocation Difference Original allocation New allocation New allocation	CY-1 (\$00 CY-1 — — — — — — — — — — — — — — — — — — —	Current Year (CY) - Current Year (CY) - Current Year (CY)	
	Pass through and recoverable costs Pass through costs Directly attributable Not directly attributable Total attributable to regulated service Recoverable costs Directly attributable Not directly attributable Total attributable to regulated service Total attributable to regulated service iii): Changes in Cost Allocations* † Change in cost allocation 1 Cost category Original allocator or line items New allocator or line items Rationale for change Change in cost allocation 2 Cost category Original allocator or line items New allocator or line items New allocator or line items				11,342 - 11,342 179,978 - 179,978 Original allocation New allocation Difference Original allocation New allocation New allocation	CY-1 (\$00 CY-1 —	Current Year (CY) - Current Year (CY) -	
	Pass through and recoverable costs Pass through costs Directly attributable Not directly attributable Total attributable to regulated service Recoverable costs Directly attributable Not directly attributable Not directly attributable Total attributable to regulated service Change in cost allocation 1 Cost category Original allocator or line items New allocator or line items Rationale for change Change in cost allocation 2 Cost category Original allocator or line items Rationale for change Change in cost allocation 3 Cost category Original allocator or line items				11,342 - 11,342 179,978 - 179,978 Original allocation New allocation Difference Original allocation New allocation New allocation New allocation Difference	CY-1 (\$00 CY-1 (\$00 CY-1	Current Year (CY) - Current Year (CY) - Current Year (CY)	
	Pass through and recoverable costs Pass through costs Directly attributable Not directly attributable Total attributable to regulated service Recoverable costs Directly attributable Not directly attributable Total attributable to regulated service Change in cost allocation 1 Cost category Original allocator or line items New allocator or line items Rationale for change Change in cost allocation 2 Cost category Original allocator or line items New allocator or line items Rationale for change Change in cost allocation 3 Cost category				11,342 - 11,342 179,978 - 179,978 Original allocation New allocation Difference Original allocation New allocation New allocation Difference Original allocation	CY-1 (\$00 CY-1 — — — — — — — — — — — — — — — — — — —	Current Year (CY) - Current Year (CY) - Current Year (CY)	



			Company Name For Year Ended		Vector 31 March 2021
This	schedule requires information on the allocation of asset values. must provide explanatory comment on their cost allocation in S	This information supports the calculation of the RAB value chedule 14 (Mandatory Explanatory Notes), including on t	he impact of any chan	ges in asset allocations. T	his information is part of audited disclosure
intor sch rej	rmation (as defined in section 1.4 of the ID determination), and so	o is subject to the assurance report required by section 2.8	3.		
<i>7</i>	5e(i): Regulated Service Asset Values			Value allocated (\$000s) Electricity distribution	
9 10	Subtransmission lines			services	
11 12	Directly attributable Not directly attributable			72,144 1,427	
13 14	Total attributable to regulated service Subtransmission cables			73,571	
15	Directly attributable			359,436	
16 17	Not directly attributable Total attributable to regulated service			359,436	
18 19	Zone substations Directly attributable			315,966	
20 21	Not directly attributable Total attributable to regulated service			315,966	
22 23	Distribution and LV lines Directly attributable			362,625	
24	Not directly attributable			48,235	
25 26	Total attributable to regulated service Distribution and LV cables			410,860	
27 28	Directly attributable Not directly attributable			790,596 18,254	
29 30	Total attributable to regulated service Distribution substations and transformers			808,850	
31 32	Directly attributable Not directly attributable			297,961 _	
33 34	Total attributable to regulated service Distribution switchgear			297,961	
35	Directly attributable			277,498	
36 37	Not directly attributable Total attributable to regulated service			277,498	
38 39	Other network assets Directly attributable			772,953	
40 41	Not directly attributable Total attributable to regulated service			4,671 777,624	
42 43	Non-network assets Directly attributable			35,356	
44	Not directly attributable			28,847	
45 46 47	Total attributable to regulated service Regulated service asset value directly attributable			64,203	
47 48 49	Regulated service asset value not directly attributable Total closing RAB value	ple		3,284,535 101,434 3,385,969	
50	Total closing NAD Value		•	3,363,909	
51 52	5e(ii): Changes in Asset Allocations* †				(\$000)
53 54	Change in asset value allocation 1 Asset category	Non Network Assets		Original allocation	CY-1 Current Year (CY) 437 280
<i>55</i>	Original allocator or line items	Property, plant and equipment ratio for regulated businesses		New allocation	498 319
56 57	New allocator or line items	Directly attributable		Difference	(61) (39)
58 59	Rationale for change	Assets have been repurposed.			
60 61					(\$000)
62 63	Change in asset value allocation 2 Asset category	Non Network Assets		Original allocation	CY-1 Current Year (CY)
64 65	Original allocator or line items New allocator or line items	Not attributable Directly attributable		New allocation Difference	595 425 (595) (425)
66 67	Rationale for change	Assets have been repurposed.			(===)
68 69					
70 71	Change in asset value allocation 3				(\$000) CY-1 Current Year (CY)
72 73	Asset category Original allocator or line items	Non Network Assets Relevant employee ratio		Original allocation New allocation	1,523 463 3,069 933
		Property, plant and equipment ratio for			
74 75	New allocator or line items	regulated businesses Assets have been repurposed.		Difference	(1,546) (470)
76 77 78	Rationale for change	7.55ccs nave seem eparposed.			
70	Change in asset value allocation 4				CY-1 Current Year (CY)
	Asset category Original allocator or line items			Original allocation New allocation	cr 1 current rear (cr)
	New allocator or line items			Difference	
	Rationale for change				
	Change in asset value allocation 5 Asset category			Original allocation	CY-1 Current Year (CY)
	Original allocator or line items New allocator or line items			New allocation Difference	
	Rationale for change				
79 80	* a change in asset allocation must be completed for each al † include additional rows if needed	locator or component change that has occurred in the disc	closure year. A moven	nent in an allocator metric	c is not a change in allocator or component.



Company Name **Vector** 31 March 2021 For Year Ended 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 (\$000) (\$000) 6a(i): Expenditure on Assets 73,289 Consumer connection 43,465 System growth 10 Asset replacement and renewal 100,567 11 Asset relocations 31,297 12 Reliability, safety and environment: 13 400 Quality of supply Legislative and regulatory 158 14 15 Other reliability, safety and environment 23,408 16 Total reliability, safety and environment 23,966 17 272,584 **Expenditure on network assets** 23,908 18 Expenditure on non-network assets 19 20 **Expenditure on assets** 296,492 21 plus Cost of financing 587 22 less Value of capital contributions 88,010 23 _ plus Value of vested assets 24 25 209,069 **Capital expenditure** (\$000) 6a(ii): Subcomponents of Expenditure on Assets (where known) 26 27 Energy efficiency and demand side management, reduction of energy losses 12,628 28 Overhead to underground conversion 29 Research and development 173 6a(iii): Consumer Connection 30 31 Consumer types defined by EDB* (\$000) (\$000) 32 Service connection 16,921 33 Customer substations 16,306 34 **Business subdivisions** 3,501 35 Residential subdivisions 31,842 36 Capacity change 3,150 Street lighting 1,566 Easement costs * include additional rows if needed 37 73,289 38 **Consumer connection expenditure** 39 40 Capital contributions funding consumer connection expenditure 71,332 less 41 **Consumer connection less capital contributions** 1,957 Asset 6a(iv): System Growth and Asset Replacement and Renewal 42 Replacement and **System Growth** Renewal (\$000) (\$000) 44 1,207 10,233 45 Subtransmission 11,066 20,438 46 Zone substations Distribution and LV lines 48,720 47 4,430 7,379 48 4,167 Distribution and LV cables 49 943 6,074 Distribution substations and transformers 677 14,673 50 Distribution switchgear Other network assets 11,949 2,076 51 100,567 52 43,465 System growth and asset replacement and renewal expenditure 53 153 Capital contributions funding system growth and asset replacement and renewal 26 less 43,439 54 System growth and asset replacement and renewal less capital contributions 100,414 55 6a(v): Asset Relocations 56 Project or programme* 57 (\$000) (\$000) 58 59 60 61 62 63 * include additional rows if needed 64 All other projects or programmes - asset relocations 31,297 31,297 65 **Asset relocations expenditure** 66 Capital contributions funding asset relocations 16,495 less 67 Asset relocations less capital contributions 14,802



Company Name **Vector** 31 March 2021 For Year Ended 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 6a(vi): Quality of Supply 69 Project or programme* (\$000) (\$000) 70 71 72 73 74 *75* * include additional rows if needed 76 77 All other projects programmes - quality of supply 400 78 400 Quality of supply expenditure 79 Capital contributions funding quality of supply less **Quality of supply less capital contributions** 400 80 6a(vii): Legislative and Regulatory 82 Project or programme* (\$000) (\$000) 83 84 85 86 87 88 * include additional rows if needed 89 158 All other projects or programmes - legislative and regulatory 90 Legislative and regulatory expenditure 158 91 4 Capital contributions funding legislative and regulatory 154 92 Legislative and regulatory less capital contributions 6a(viii): Other Reliability, Safety and Environment 93 (\$000) 94 Project or programme* (\$000) 95 96 97 98 99 100 * include additional rows if needed 101 23,408 All other projects or programmes - other reliability, safety and environment 102 23,408 Other reliability, safety and environment expenditure 103 Capital contributions funding other reliability, safety and environment 104 Other reliability, safety and environment less capital contributions 23,408 105 6a(ix): Non-Network Assets 106 **Routine expenditure** 107 (\$000) (\$000) 108 Project or programme* 109 110 111 112 113 114 * include additional rows if needed All other projects or programmes - routine expenditure 115 3,617 **Routine expenditure** 3,617 116 **Atypical expenditure** 117 118 Project or programme* (\$000) (\$000) 119 120 121 122 123 124 * include additional rows if needed 125 All other projects or programmes - atypical expenditure 20,291 20,291 126 **Atypical expenditure** 127 128 23,908 **Expenditure on non-network assets**



Company Name **Vector** For Year Ended 31 March 2021 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) **6b(i): Operational Expenditure** (\$000) 13,329 Service interruptions and emergencies 8,667 Vegetation management 16,012 10 Routine and corrective maintenance and inspection 11 Asset replacement and renewal 11,049 12 49,057 **Network opex** 13 42,994 System operations and network support 14 35,151 **Business support** 15 78,145 Non-network opex 16 17 **Operational expenditure** 127,202 6b(ii): Subcomponents of Operational Expenditure (where known) 18 19 Energy efficiency and demand side management, reduction of energy losses 20 Direct billing* 21 Research and development 22 3,140 23 * Direct billing expenditure by suppliers that directly bill the majority of their consumers



Company Name Vector
For Year Ended 31 March 2021

Forecast (\$000) 2

67,133

46,551

111,988

32,778

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.

C	_	n	r	P

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14 15 16

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2223242526

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28 29

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33 34

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38 39

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42

43

44

7(i): Revenue Target	(\$000) ¹	Actual (\$000)	% variance
Line charge revenue	565,200	560,533	(1%)

7(ii): Expenditure on Assets

Consumer connection
System growth
Asset replacement and renewal
Asset relocations
Reliability, safety and environment:
Quality of supply
Legislative and regulatory

		•	•	
Total	reliability.	safetv	and en	vironment

_			_	
Expend	diture	on ne	etwork	assets

Expenditure on non-network assets

Expenditure on assets

_	400	1
_	158	1
27,141	23,408	(14%)
27,141	23,966	(12%)
285,591	272,584	(5%)
43,790	23,908	(45%)
329,381	296,492	(10%)

Actual (\$000)

73,289

43,465

100,567

31,297

% variance

9%

(7%)

(10%)

(5%)

7(iii): Operational Expenditure

Service interruptions and emergencies
Vegetation management
Routine and corrective maintenance and inspection
Asset replacement and renewal

Other reliability, safety and environment

Network opex

System operations and network support

Business support

Non-network opex

Operational expenditure

14,173	13,329	(6%)
10,217	8,667	(15%)
18,458	16,012	(13%)
13,836	11,049	(20%)
56,684	49,057	(13%)
37,365	42,994	15%
37,441	35,151	(6%)
74,806	78,145	4%
131,490	127,202	(3%)

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

Energy efficiency and demand side management, reduction of energy losses Overhead to underground conversion

Research and development

_	-	_
8,056	12,628	57%
_	173	_

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

Energy efficiency and demand side management, reduction of energy losses

Direct billing

Research and development

Insurance

_	_
_	_
_	_
3,140	(3%)
	_ _ _ _

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)

21

Company Name **Vector Ltd** 31 March 2020 For Year Ended Network / Sub-Network Name Combined

SCHEDULE 8: REPORT ON BILLED QUANTITIES AND LINE CHARGE REVENUES

Consumer group name or price Consumer type or types (eg,

esidential

esidential

general

low voltage low voltage

transformer

transformer

high voltage

high voltage

category code

residential, commercial etc.)

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.

Average no. of ICPs in Energy delivered to ICPs

47,575

32,637

11,806

9,922

115,307

59,628

18,129

8,153

28,660

1,706

8,111

2,323

1,431

34,025

26,882

6,710

8,214

71,145

42,612

13,402

8,733

7,916

906

258

132

583,483

162

disclosure year in disclosure year (MWh)

263,153

313,690

42,698

53,184

597,384

629,698

72,930

68,337

497,879

26,021

166,760

229,861

516,243

20,515

572

400,696

190,751

264,425

34,321

61,217

379,077

456,803

66,708

86,360 231,231 15,754

129,843 115,074

124,787

33,393

342,409

112,644

586,758

7,623,173

8,209,931

586,758

1,078,755

Standard or non-standard

consumer group (specify)

Standard Standard

Standard

Standard

Standard

Standard

Standard

Standard

Standard

Standard

Standard

Standard

Standard

Standard

Standard

8(i): Billed Quantities by Price Component

1	Billed quantities by	price component								_
Price component	FIXD	AICO	24UC	ОГРК	PEAK	САРУ	DAMD	DEXA	PWRF	
Unit charging basis (eg, days, kW of demand, kVA of capacity, etc.)	Day	kWh	kWh	kWh	kWh	kVA/Day	kVA/Day	kVA/Day	kVAr/Day	Add extra columns for additional billed quantities by price component
<u> </u>		<u>'</u>								as necessary
	17,461,127	263,152,728	_	_	_	_	_	_	_]
	11,982,321	313,689,887	_	_	_	_	_	_	-	
	4,338,725	_	42,698,065	_	_	_	_	_	-	
	3,637,078	_	53,184,340	_	_	_	_	_	-	1
	42,013,538	_	_	414,155,210	183,228,337	_	_	_	-	
	21,736,170	_	_	440,055,160	189,643,307	_	_	_		
	6,606,676	_	_	50,517,432	22,412,496	_	_	_	_	
	2,965,710	_	_	47,623,767	20,713,673	_	_	_	-	1
	10,443,431	_	497,878,559	_	_	_	_	_	_	
	26,078,972	_	26,021,031	_	_	_	_	_	_	1
	2,939,847	_	_	118,309,804	48,450,281	_	_	_	_	
	849,304	_	229,860,564	_	_	126,680,919	_	_	320,135	
	_	_	516,242,640	_	_	138,539,806	43,717,347	_	3,688,361	
	59,182	_	20,515,005	_	_	13,418,908	_	_	14,860	
	_	_	1,078,755,242	_	_	252,907,685	86,254,638	_	3,834,076	-
	2,555	_	571,653	_	_	517,935	_	_	6,377	
	_	_	400,695,729	_	_	60,672,920	29,932,667	36,468	1,243,625	-
	12,468,196	190,750,601	_	_	_	_	_	_	_	
	9,852,089	264,424,887	_	_	_	_	_	_	_	-
1	2,461,624	-	34,320,985	_	_	_	_	_	_	
ŀ	3,021,854	_	61,217,384	_	_	_	_	_	_	
	25,934,747	_	_	261,954,710	117,122,765	_	_	_	_	
	15,535,327	_	_	318,310,445	138,492,180	_	_	_	_	-
	4,886,726	_	_	45,929,665	20,778,055	_	_	_	_	
	3,182,497	_	_	59,901,528	26,458,795	_	_	_	_	
	5,405,779	_	231,230,715			_	_	_	_	
	16,432,967	_	15,754,340	_	_	_	_	_	_	
	2,861,159	_	_	91,833,398	38,009,454	_	_	_	_	-
	331,752	_	115,073,730		_	48,916,985	_	_	283,628	
	94,132	_	124,786,701	_	_	24,970,945	9,808,260	_	694,689	
	48,299	_	33,393,176	_	_	11,780,426	_	_	159,999	
	102,001	_	342,408,724	_	_	76,488,925	27,099,056	_	1,177,690	
	-	_	-	_	_	-	_	_	_	
	8,964	_	112,643,824	_	_	14,953,890	7,775,778	13,706	168,953	
	1,460	_	-	_	_	_	_	_	12,277	
									,	4
	253,742,749	1,032,018,103	3,937,252,407	1,848,591,119	805,309,343	769,849,344	204,587,746	50,174	11,592,393]
	1,460	_	_				_	_	12,277	

253,744,209 1,032,018,103 3,937,252,407 1,848,591,119 805,309,343 769,849,344 204,587,746

Vector Electricity Information Disclosures 2021 Schedules-1-to-10

11,604,670

Company Name Vector Ltd 31 March 2020 For Year Ended Combined Network / Sub-Network Name **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 PEAK CAPY DAMD Price component AICO **24UC OFPK PWRF** Add extra columns **Total transmission** for additional line Rate (eg, \$ per day, \$ per Notional revenue Total distribution line charge charge revenues kWh kWh kWh kVA/Day kVA/Day kVA/Day kVAr/Day kWh, etc.) Consumer group name or price Consumer type or types (eg, Standard or non-standard Total line charge revenue in foregone from posted line charge revenue (if by price consumer group (specify) category code residential, commercial etc.) disclosure year discounts (if applicable) revenue available) component as necessary Standard \$8,079 esidential \$25,242 \$17,163 \$2,610 \$22,632 \$26,784 esidential Standard \$17,154 \$12,060 \$14,724 \$9,630 Standard \$4,585 \$649 \$3,009 \$1,576 \$3,936 esidential Standard \$6,486 \$4,523 \$1,963 \$3,661 \$2,825 \$56,634 \$43,203 \$6,280 \$25,630 \$24,724 \$13,431 \$50,102 \$36,201 \$21,878 \$10,043 \$18,181 Standard \$13,901 esidential Standard \$7,558 \$3,444 \$5,494 \$2,064 \$988 \$3,126 \$6,446 \$2,985 esidential Standard \$4,538 \$1,908 \$1,087 \$2,374 Standard \$36,957 \$18,585 \$18,372 \$10,512 \$26,445 \$2,746 \$2,069 \$2,079 \$667 general Standard \$11,212 \$2,959 \$2,700 \$5,553 general \$6,750 \$4,462 \$5,315 \$19,308 \$1,507 \$12,393 \$15,010 \$93 low voltage Standard \$4,298 \$25,766 \$1,072 Standard \$17,460 \$8,306 \$6,174 \$5,812 transformer Standard \$1,742 \$1,358 \$384 \$103 \$1,084 \$551 \$48,644 \$32,256 \$16,388 \$12,578 \$10,384 \$24,567 \$1,115 Standard \$56 \$45 \$4 \$21 high voltage \$15,588 \$2,413 \$362 high voltage Standard \$9,901 \$4,512 \$8,269 \$32 \$5,687 esidential \$1,865 Standard \$18,283 \$12,427 \$5,856 \$16,418 Standard \$22,346 \$9,924 esidential \$14,228 \$8,118 \$12,422 \$3,534 \$2,268 \$1,266 \$368 \$3,166 Standard \$6,298 \$4,039 \$2,259 \$3,044 \$3,254 \$35,921 \$27,336 \$3,880 \$16,224 \$15,817 Standard sidential \$8,585 \$15,649 \$36,207 \$26,056 Standard \$10,151 \$7,270 \$13,288 esidential Standard \$6,772 \$4,858 \$1,914 \$731 \$2,845 \$3,196 tandard \$7,609 \$5,172 \$2,437 \$3,206 \$1,368 \$3,035 \$17,737 \$9,205 \$5,445 \$12,292 \$8,532 Standard \$1,715 \$1,305 \$1,311 \$404 \$410 \$9,339 \$2,882 \$2,097 \$4,360 \$5,838 \$3,501 low voltage Standard \$1,899 \$1,654 \$7,481 \$5,329 \$2,152 \$3,845 Standard \$844 \$202 low voltage \$5,255 \$3,391 \$1,864 \$1,016 \$622 \$2,571 \$390 ransformer Standard \$1,800 \$1,176 \$624 \$271 \$1,092 \$47 Standard \$12,588 \$7,439 \$1,079 \$2,533 \$6,960 \$343 ransformer \$5,149 \$1,673 Standard high voltage high voltage Standard \$3,107 \$1,630 \$1,477 \$92 \$480 \$1,937 \$49 \$539 non-standard Non-standard \$18,685 \$11,424 \$7,261 \$18,482 \$203 Add extra rows for additional consumer groups or price category codes as necessary \$541,848 \$366,416 \$175,432 \$120,937 \$66,196 \$97,530 \$72,390 \$93,972 \$30,397 \$57,012 \$42 \$3,372 Standard consumer totals \$18,685 \$11,424 \$7,261 \$18,482 \$203 Non-standard consumer totals \$560,533 \$139,419 \$72,390 \$93,972 \$30,397 \$3,575 Total for all consumers \$377,840 \$182,693 \$66,196 \$97,530 \$57,012 \$42 8(iii): Number of ICPs directly billed Number of directly billed ICPs at year end

Company Name
For Year Ended
Network / Sub-Network Name

Vector Ltd
31 March 2020
Southern

SCHEDULE 8: REPORT ON BILLED QUANTITIES AND LINE CHARGE REVENUES

Consumer group name or price Consumer type or types (eg,

residential

residential

residential

residential

residential

residential

residential

general

general

low voltage

low voltage

transformer

transformer

high voltage

high voltage

non-standard

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

residential, commercial etc.)

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.

Average no. of ICPs in Energy delivered to ICPs

47,575

32,637

11,806

9,922

59,628

18,129

8,153

28,660

8,111

2,323

1,431

27

346,649

346,676

disclosure year in disclosure year (MWh)

263,153

313,690

42,698

53,184

597,384

629,698

72,930

68,337

497,879

166,760

229,861

516,243

20,515

1,078,755

400,696

481,513

4,978,376

481,513

5,459,889

26,021

Standard or non-standard

consumer group (specify)

Standard

Non-standard

Standard consumer totals

Total for all consumers

Non-standard consumer totals

ich rej

8(i): Billed Quantities by Price Component

category code

10 11

12

F	P
Unit charging basis (eg, days, kVA of capacity, e	k t

Billed quantities by price component Price component FIXD AICO 24UC OFPK PEAK CAPY DAMD DEXA **PWRF** Add extra columns for additional Day kWh kWh kWh kWh kVA/Day kVA/Day kVA/Day kVAr/Day billed quantities by price component as necessary 263,152,728 17,461,127 11,982,321 313,689,887 4,338,72 42,698,065 53,184,340 3,637,078 414,155,210 183,228,337 42,013,538 21,736,170 440,055,160 189,643,307 6,606,676 50,517,432 22,412,496 2,965,710 47,623,767 20,713,673 10,443,431 497,878,559 26,021,031 26,078,972 118,309,804 48,450,281 2,939,847 849,304 229,860,564 320,135 516,242,640 138,539,806 43,717,347 3,688,361 59,182 20,515,005 13,418,908 14,860 1,078,755,242 86,254,638 252,907,685 3,834,076 2,555 571,653 517,935 29,932,667 400,695,729 60,672,920 36,468 1,243,625 9,855 13,599 576,842,615 2,866,422,828 1,070,661,373 151,114,636 464,448,094 592,738,173 159,904,652 36,468 9,107,434 9,855 13,599 151,124,491 576,842,615 2,866,422,828 1,070,661,373 464,448,094 592,738,173 159,904,652 36,468 9,121,033

Company Name Vector Ltd 31 March 2020 For Year Ended Southern Network / Sub-Network Name 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 AICO **OFPK** PEAK CAPY DAMD DEXA Price component **24UC** Add extra columns **Total transmission** for additional line Rate (eg, \$ per day, \$ per Notional revenue Total distribution line charge charge revenues kWh kWh kVA/Day kVA/Day kVA/Day kWh, etc.) Standard or non-standard Total line charge revenue in foregone from posted Consumer group name or price Consumer type or types (eg, line charge revenue (if by price consumer group (specify) discounts (if applicable) category code residential, commercial etc.) disclosure year revenue available) component as necessary residential Standard \$17,163 \$22,632 \$25,242 \$8,079 \$2,610 \$26,784 residential Standard \$17,154 \$9,630 \$12,060 \$14,724 residential Standard \$4,585 \$1,576 \$3,936 \$3,009 residential \$6,486 \$4,523 \$1,963 \$3,661 \$2,825 Standard \$43,203 \$13,431 \$25,630 \$24,724 \$56,634 \$6,280 \$36,201 \$13,901 \$21,878 \$10,043 residential Standard \$50,102 \$18,181 residential Standard \$7,558 \$5,494 \$2,064 \$3,126 \$3,444 \$988 \$6,446 \$1,908 residential Standard \$4,538 \$2,985 \$2,374 general Standard \$36,957 \$18,585 \$18,372 \$10,512 \$26,445 general Standard \$2,746 \$2,069 \$677 \$2,079 \$667 Standard \$4,462 \$2,700 general \$11,212 \$6,750 \$2,959 \$5,553 \$19,308 \$4,298 \$1,507 \$12,393 low voltage Standard \$15,010 \$5,315 low voltage Standard \$8,306 \$6,174 ATXN transformer Standard \$1,742 \$1,358 \$384 \$1,084 \$551 transformer \$48,644 \$32,256 \$16,388 \$12,578 \$10,384 \$24,567 \$1,115 \$56 \$29 high voltage \$15,588 \$5,687 \$4,512 \$32 \$362 \$9,901 \$2,413 \$8,269 high voltage Standard \$105 \$15,707 \$6,434 \$15,602 non-standard \$9,273 Add extra rows for additional consumer groups or price category codes as necessary \$111,137 Standard consumer totals \$345,856 \$234,719 \$68,275 \$37,356 \$70,643 \$42,586 \$54,276 \$24,496 \$45,544 \$32 \$2,648 Non-standard consumer totals \$15,707 \$6,434 \$15,602 \$32 Total for all consumer \$361,563 \$243,992 \$117,571 \$83,877 \$37,356 \$70,643 \$42,586 \$54,276 \$24,496 \$45,544 \$2,753 8(iii): Number of ICPs directly billed Number of directly billed ICPs at year end

Company Name Vector Ltd 31 March 2020 For Year Ended Network / Sub-Network Name Northern

DEXA

kVA/Day

13,706

13,706

13,706

44,683,094

PWRF

283,628 694,689 159,999 1,177,690

168,953 12,277

2,484,959

2,497,236

12,277

Add extra columns for additional

billed quantities by price component as necessary

SCHEDULE 8: REPORT ON BILLED QUANTITIES AND LINE CHARGE REVENUES

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

105,245

2,750,042

236,807

8(i): Billed Quantities by Price Component

Price component	FIXD	AICO	24UC	OFPK	PEAK	САРҮ	DAMD	
Unit charging basis (eg, days, kW of demand, kVA of capacity, etc.)	Day	kWh	kWh	kWh	kWh	kVA/Day	kVA/Day	
•								
	12,468,196	190,750,601	_	_	_	_	_	
	9,852,089	264,424,887	_	_	-	_	-	
	2,461,624	_	34,320,985	_	-	_	1	
	3,021,854	_	61,217,384	_	_	_	1	
	25,934,747	_	_	261,954,710	117,122,765	1	1	
	15,535,327	_	_	318,310,445	138,492,180	_	_	
	4,886,726	-	_	45,929,665	20,778,055	_	_	
	3,182,497	_	_	59,901,528	26,458,795	_	_	L
	5,405,779	_	231,230,715	_	_	_	_	L
	16,432,967	_	15,754,340	_	_	_	_	L
	2,861,159	_	_	91,833,398	38,009,454	_	_	L
	331,752	_	115,073,730	_	_	48,916,985	_	L
	94,132	_	124,786,701	_	_	24,970,945	9,808,260	L
	48,299	_	33,393,176	_	_	11,780,426	_	
	102,001	_	342,408,724	_	_	76,488,925	27,099,056	L
	_	_	_	_	_	_	_	L
	8,964	_	112,643,824	_	_	14,953,890	7,775,778	L
	1,460	_	_	_	_	_	_	L
			-	-				
	102,628,113	455,175,488	1,070,829,579	777,929,746	340,861,249	177,111,171	44,683,094	L

455,175,488 1,070,829,579

777,929,746

340,861,249

177,111,171

1,460

102,629,573

Consumer group name or price category code	Consumer type or types (eg, residential, commercial etc.)	Standard or non-standard consumer group (specify)	Average no. of ICPs in disclosure year	Energy delivered to ICPs in disclosure year (MWh)
WRCL	residential	Standard	34,025	190,751
WRCS	residential	Standard	26,882	264,425
WRUL	residential	Standard	6,710	34,321
WRUS	residential	Standard	8,214	61,217
WRHLC	residential	Standard	71,145	379,077
WRHSC	residential	Standard	42,612	456,803
WRHL	residential	Standard	13,402	66,708
WRHS	residential	Standard	8,733	86,360
WBSN	general	Standard	14,855	231,231
WBSU	general	Standard	710	15,754
WBSH	general	Standard	7,916	129,843
WLVN	low voltage	Standard	906	115,074
WLVH	low voltage	Standard	258	124,787
WTXN	transformer	Standard	132	33,393
WTXH	transformer	Standard	279	342,409
WHVN	high voltage	Standard	_	_
WHVH	high voltage	Standard	24	112,644
NS	non-standard	Non-standard	4	105,245
Add extra rows for additional cons	umer groups or price category code	es as necessary Standard consumer totals	236,803	2,644,797

Non-standard consumer totals

Total for all consumers

Company Name Vector Ltd 31 March 2020 For Year Ended Northern Network / Sub-Network Name 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 AICO **OFPK** PEAK CAPY DAMD DEXA Price component **24UC** Add extra columns **Total transmission** for additional line Rate (eg, \$ per day, \$ per Notional revenue Total distribution line charge charge revenues kWh kVA/Day kVA/Day kVA/Day kWh, etc.) Standard or non-standard Total line charge revenue in foregone from posted Consumer group name or price Consumer type or types (eg, line charge revenue (if by price consumer group (specify) discounts (if applicable) category code residential, commercial etc.) disclosure year revenue available) component as necessary residential Standard \$12,427 \$5,856 \$16,418 \$18,283 \$22,346 residential Standard \$14,228 \$8,118 \$9,924 \$12,422 residential Standard \$1,266 \$3,166 \$3,534 \$2,268 residential \$6,298 \$4,039 \$2,259 \$3,044 \$3,254 Standard \$35,921 \$27,336 \$8,585 \$16,224 \$15,817 \$3,880 \$36,207 \$26,056 \$10,151 \$15,649 \$7,270 \$13,288 residential Standard residential Standard \$6,772 \$4,858 \$1,914 \$731 \$2,845 \$3,196 residential \$2,437 Standard \$5,172 \$3,035 general Standard \$17,737 \$9,205 \$8,532 \$5,445 \$12,292 general Standard \$1,715 \$1,305 \$410 \$1,311 \$404 Standard \$5,838 \$3,501 \$2,097 general \$9,339 \$2,882 \$4,360 \$7,481 \$2,152 \$3,845 low voltage Standard \$5,329 \$1,899 \$1,654 low voltage Standard \$5,255 \$1,864 transformer Standard \$1,800 \$1,176 \$624 \$271 \$1,092 transformer \$12,588 \$7,439 \$5,149 \$1,079 \$1,673 \$2,533 \$6,960 \$343 high voltage \$1,477 \$3,107 \$539 \$1,937 \$10 \$49 \$1,630 \$480 high voltage Standard \$92 \$2,978 \$2,151 \$827 \$2,880 non-standard Add extra rows for additional consumer groups or price category codes as necessary Standard consumer totals \$195,992 \$131,697 \$64,295 \$52,662 \$28,840 \$26,887 \$29,804 \$39,696 \$5,901 \$11,468 \$10 \$724 Non-standard consumer totals \$2,978 \$827 \$822 Total for all consumer \$198,970 \$133,848 \$65,122 \$55,542 \$28,840 \$26,887 \$29,804 \$39,696 \$5,901 \$11,468 8(iii): Number of ICPs directly billed Number of directly billed ICPs at year end

Company Name	Vector
For Year Ended	31 March 2021
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.

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0	Voltore	Accet cotogs	Accest class	l lec's.	Items at start of	Items at end of	Not show	Data accuracy
8	Voltage	Asset category	Asset class	Units	year (quantity)	year (quantity)	Net change	(1–4)
9	All	Overhead Line	Concrete poles / steel structure	No.	5,826	5,714		2
10	All	Overhead Line	Wood poles	No.	935	1,022	-112 87	4
11	All	Overhead Line	Other pole types	No.	368	365	-3	4
12	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	27	27	-5	4
13	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km	354	376	22	4
14	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km	145	147	2	4
15	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km	2	0	-2	N/A
16	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressurised)	km	50	29	-20	4
17	HV	Subtransmission Cable	Subtransmission UG up to 66kV (PILC)	km	30	31	1	4
18	HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	km	17	17	0	4
19	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Oil pressurised)	km	0	0	0	•
20	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Gas Pressurised)	km				N/A
21	HV	Subtransmission Cable	Subtransmission UG 110kV+ (PILC)	km	0	0	0	4
22	HV	Subtransmission Cable	Subtransmission submarine cable	km	12	12	0	4
23	HV	Zone substation Buildings	Zone substations up to 66kV	No.	102	104	2	4
24	HV	Zone substation Buildings	Zone substations 110kV+	No.	7	7	0	4
25	HV	Zone substation switchgear	50/66/110kV CB (Indoor)	No.	20	20	0	4
26	HV	Zone substation switchgear	50/66/110kV CB (Outdoor)	No.	2	2	0	4
27	HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No.	0	0	0	N/A
28	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.	183	184	1	4
29	HV	Zone substation switchgear	33kV RMU	No.	13	7	-6	4
30	HV	Zone substation switchgear	22/33kV CB (Indoor)	No.	260	257	-3	4
31	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.	105	121	16	N/A
32	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.	1,369	1,478	109	4
33	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.	0	0	0	N/A
34	HV	Zone Substation Transformer	Zone Substation Transformers	No.	219	219	0	4
35	HV	Distribution Line	Distribution OH Open Wire Conductor	km	3,746	3,738	-8	3
36	HV	Distribution Line	Distribution OH Aerial Cable Conductor	km	0	0	0	N/A
37	HV	Distribution Line	SWER conductor	km	0	0	0	N/A
38	HV	Distribution Cable	Distribution UG XLPE or PVC	km	1,561	1,623	62	3
39	HV	Distribution Cable	Distribution UG PILC	km	2,184	2,178	-6	4
40	HV	Distribution Cable	Distribution Submarine Cable	km	8	8	0	4
41	HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers	No.	274	301	27	4
42	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.	293	314	21	3
43	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	10,536	10,848	312	3
44	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	3,246	3,186	-60	3
45	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.	6,216	6,072	-144	4
46	HV	Distribution Transformer	Pole Mounted Transformer	No.	7,600	7,604	4	4
47	HV	Distribution Transformer	Ground Mounted Transformer	No.	14,559	14,721	162	4
48	HV	Distribution Transformer	Voltage regulators	No.	12	12	0	4
49	HV	Distribution Substations	Ground Mounted Substation Housing	No.	13,075	13,218	143	3
50	LV	LV Line	LV OH Conductor	km	4,154	4,154	-1	3
51	LV	LV Cable	LV UG Cable	km	6,290	6,439	149	4
52	LV	LV Street lighting	LV OH/UG Streetlight circuit	km	479	479	0	3
53	LV	Connections	OH/UG consumer service connections	No.	578,106	588,018	9,912	4
54	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.	3,934	4,163	229	3
55	All	SCADA and communications	SCADA and communications equipment operating as a single system	Lot	356	375	19	3
56	All	Capacitor Banks	Capacitors including controls	No	76	74	-2	4
<i>57</i>	All	Load Control	Centralised plant	Lot	33	32	-1	3
58	All	Load Control	Relays	No	0	0	0	N/A
59	All	Civils	Cable Tunnels	km	10	10	0	3

Company Name	Vector
For Year Ended	31 March 2021
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.

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	N/ 11	A 4	A A . II		Items at start of	Items at end of	No. 1	Data accuracy
8	Voltage	Asset category	Asset class	Units	year (quantity)	year (quantity)	Net change	(1–4)
9	All	Overhead Line	Concrete poles / steel structure	No.	50,392 3,706	50,668 3,649	276 -57	3
10	All	Overhead Line	Wood poles	No.	3,706	3,649	-5 <i>7</i> 5	4
11	All	Overhead Line	Other pole types	No.	51	442	-3	4
12	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	0	0	-5	N/A
13	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km	209	230	21	4
14	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km	142	145	21	4
15	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km	2	0	-2	N/A
16	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressurised)	km	49	28	-20	4
17	HV	Subtransmission Cable	Subtransmission UG up to 66kV (PILC)	km	30	31	-20	4
18	HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	km	17	17	0	4
19	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Oil pressurised)	km	0	0	0	N/A
20	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Gas Pressurised)	km	0	0	0	4
21	HV	Subtransmission Cable	Subtransmission UG 110kV+ (PILC)	km	11	11	0	4
22	HV	Subtransmission Cable	Subtransmission submarine cable	km	50	51	1	4
23	HV	Zone substation Buildings	Zone substations up to 66kV	No.	50	51	0	4
24	HV	Zone substation Buildings	Zone substations 110kV+	No.	20	20	0	4
25	HV	Zone substation switchgear	50/66/110kV CB (Indoor)	No.	0	0	0	N/A
26 27	HV HV	Zone substation switchgear	50/66/110kV CB (Outdoor)	No.	0	0	0	N/A N/A
		Zone substation switchgear	33kV Switch (Ground Mounted)	No.	0	0	0	N/A
28	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.	0	0	0	N/A
29	HV	Zone substation switchgear	33kV RMU	No.	124	131	7	4
30	HV	Zone substation switchgear	22/33kV CB (Indoor)	No.	0	2	2	N/A
31	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.	859	958	99	4
32	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.	0	0	0	N/A
33	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.	129	128	-1	4
34	HV	Zone Substation Transformer	Zone Substation Transformers	No.	883	881	-2	3
35	HV HV	Distribution Line Distribution Line	Distribution OH Open Wire Conductor Distribution OH Aerial Cable Conductor	km	0	0	0	N/A
36				km	0	0	0	N/A
<i>37</i> <i>38</i>	HV HV	Distribution Line Distribution Cable	SWER conductor Distribution UG XLPE or PVC	km km	697	728	31	3
39	HV	Distribution Cable	Distribution UG PILC	km	1,564	1,562	-2	4
40	HV	Distribution Cable	Distribution Submarine Cable		2	2	0	4
41	HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers	km No.	60	71	11	4
42	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.	235	255	20	3
43	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	2,438	2,532	94	3
44	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	2,463	2,406	-57	3
45	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.	4,535	4,590	55	4
46	HV	Distribution Transformer	Pole Mounted Transformer	No.	1,977	1,969	-8	4
47	HV	Distribution Transformer	Ground Mounted Transformer	No.	7,027	7,134	107	4
48	HV	Distribution Transformer	Voltage regulators	No.	5	5	0	4
49	HV	Distribution Substations	Ground Mounted Substation Housing	No.	6,187	6,225	38	3
50	LV	LV Line	LV OH Conductor	km	1,934	1,926	-8	3
51	LV	LV Cable	LV UG Cable	km	3,799	3,880	81	4
52	LV	LV Street lighting	LV OH/UG Streetlight circuit	km	264	264	0	3
53	LV	Connections	OH/UG consumer service connections	No.	343,703	349,020	5,317	4
54	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.	2,161	2,175	14	3
55	All	SCADA and communications	SCADA and communications equipment operating as a single system	Lot	197	204	7	2
56	All	Capacitor Banks	Capacitors including controls	No	13	13	0	4
57	All	Load Control	Centralised plant	Lot	22	21	-1	3
58	All	Load Control	Relays	No	0	0	0	N/A
59	All	Civils	Cable Tunnels	km	10	10	0	3

Company Name	Vector
For Year Ended	31 March 2021
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.

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8	Voltage	Asset category	Asset class	Units	Items at start of year (quantity)	Items at end of year (quantity)	Net change	Data accuracy (1–4)
9	All	Overhead Line	Concrete poles / steel structure	No.	66,871	67,346	475	3
10	All	Overhead Line	Wood poles	No.	2,120	2,065	-55	2
11	All	Overhead Line	Other pole types	No.	498	580	82	4
12	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	317	317	0	4
13	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km	27	27	0	4
14	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km	145	146	1	4
15	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km	2	2	0	4
16	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressurised)	km	0	0	0	N/A
17	HV	Subtransmission Cable	Subtransmission UG up to 66kV (PILC)	km	1	1	0	4
18	HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	km	0	0	0	N/A
19	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Oil pressurised)	km	0	0	0	N/A
20	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Gas Pressurised)	km	0	0	0	N/A
21	HV	Subtransmission Cable	Subtransmission UG 110kV+ (PILC)	km	0	0	0	N/A
22	HV	Subtransmission Cable	Subtransmission of 110kv+ (PILC) Subtransmission submarine cable		1	1	0	4
				km	52	53	1	4
23	HV	Zone substation Buildings	Zone substations up to 66kV	No.	2	2	0	4
24	HV	Zone substation Buildings	Zone substations 110kV+	No.	0	0	0	N/A
25	HV	Zone substation switchgear	50/66/110kV CB (Indoor)	No.	2	2	0	4
26	HV	Zone substation switchgear	50/66/110kV CB (Outdoor)	No.	0	0	0	N/A
27	HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No.	183	184	1	4
28	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.				
29	HV	Zone substation switchgear	33kV RMU	No.	13	7	-6	4
30	HV	Zone substation switchgear	22/33kV CB (Indoor)	No.	136	126	-10	4
31	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.	105	119	14	N/A
32	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.	510	520	10	4
33	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.	0	0	0	N/A
34	HV	Zone Substation Transformer	Zone Substation Transformers	No.	90	91	1	4
35	HV	Distribution Line	Distribution OH Open Wire Conductor	km	2,863	2,857	-6	3
36	HV	Distribution Line	Distribution OH Aerial Cable Conductor	km	0	0	0	N/A
37	HV	Distribution Line	SWER conductor	km	0	0	0	N/A
38	HV	Distribution Cable	Distribution UG XLPE or PVC	km	864	895	31	3
39	HV	Distribution Cable	Distribution UG PILC	km	620	616	-4	4
40	HV	Distribution Cable	Distribution Submarine Cable	km	7	7	0	4
41	HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers	No.	214	230	16	4
42	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.	58	59	1	3
43	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	8,098	8,316	218	3
44	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	783	780	-3	3
45	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.	1,681	1,482	-199	4
46	HV	Distribution Transformer	Pole Mounted Transformer	No.	5,623	5,635	12	4
47	HV	Distribution Transformer	Ground Mounted Transformer	No.	7,532	7,587	55	4
48	HV	Distribution Transformer	Voltage regulators	No.	7	7	0	4
49	HV	Distribution Substations	Ground Mounted Substation Housing	No.	6,888	6,993	105	3
50	LV	LV Line	LV OH Conductor	km	2,221	2,228	7	3
51	LV	LV Cable	LV UG Cable	km	2,491	2,559	68	4
52	LV	LV Street lighting	LV OH/UG Streetlight circuit	km	215	215	0	3
53	LV	Connections	OH/UG consumer service connections	No.	234,403	238,998	4,595	4
54	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.	1,773	1,988	215	3
55	All	SCADA and communications	SCADA and communications equipment operating as a single system	Lot	159	171	12	2
56	All	Capacitor Banks	Capacitors including controls	No	63	61	-2	4
57	All	Load Control	Centralised plant	Lot	11	11	0	3
58	All	Load Control	Relays	No	0	0	0	N/A
59	All	Civils	Cable Tunnels	km	0	0	0	N/A

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Company Name	Vector
For Year Ended	31 March 2021
Network / Sub-network Name	Combined

	Disclosure Year (year ended)	31 March 2021						,	Number	of assets at o	disclosure	vear end by	installatio	on date																					
	Sississure real tyear ended)	ST MUICH 2021						'	.vamber (or assets at t	aisciosule y	year ena by	mistaniatio	on date																		No. wit		No. with	
					1950 196			1990	2000	2004	2002	2002	2004	2005	2005	2007	2000	2000	2040	2044		2014	2015	204.5	2047	2040	2010	2020	2024	2022	2022 2024 202	age	=	ar default	
	Asset category Overhead Line	Asset class Concrete poles / steel structure	Units pre-1940 No.	-1949 -	1959 –19 4.895 15	69 -1979	-1989	-1999 2	584	748	930	798	2004	1 300	2006	2007	1 779	1 935	2010		1,391 1,9		2015 4 1.88	2016	2017 3,477	2018 4,841	2019	4,906	1,253	2022 2	2023 2024 2029	13,0			(1-
	Overhead Line	Wood poles	No. 4	8	121	394 472	573	807	187	50	71	75	34	89	129	9 101	61	55	111	14	26	31 2	4 1	15 10	4	21	29	46	21			2.1	131 5,71		+
	Overhead Line	Other pole types	No. 0	0	0	0 0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	5 1	0 2	27 74	180	269	160	207	85			,	3 1.02		+
	Subtransmission Line	Subtransmission OH up to 66kV conductor	km 2	2	24	73 160	72	2	0	0	0	1	0	1	4	1	0	13	1	7	0	0	0	2 1	0	0	0	0	0				0 36	5	
HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km 0	0	0	7 12	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0 0	0	0	0	0	0				0 2	7	
٦V	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km 0	0	0	0 19	11	55	56	1	21	6	2	4	8	32	8	25	19	4	10	7	3 1	16 16	13	6	3	5	25				1 37	6	
HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km 0	0	0	40 73	24	7	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0 0	0	0	0	0	0				0 14	7	
HV	Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressurised)	km 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0				0 –		N
HV	Subtransmission Cable	Subtransmission UG up to 66kV (PILC)	km 7	3	0	13 2	2	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0 0	0	0	0	0	0				0 2	9	
	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	km 0	0	0	0 0	0	8	0	0	18	0	0	1	0	0	0	0	0	2	0	0	0	0 0	0	0	0	0	1				0 3	1	
	Subtransmission Cable	Subtransmission UG 110kV+ (Oil pressurised)	km 0	0	0	0 0	5	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0				0 1	/	+
	Subtransmission Cable	Subtransmission UG 110kV+ (Gas Pressurised)	km 0	0	0	0 0	0	0	0	0	0	0	U	U	0	0	0	0	0	0	0	0	0	0 0	0	0	U	0	0	-			0 –	0	N
	Subtransmission Cable Subtransmission Cable	Subtransmission UG 110kV+ (PILC) Subtransmission submarine cable	km 0	0	0	0 0	11	0	0	n	0	n	0	0	0		0	0	0	n	0	0	0	0 0	0	0	n	0	0				0 1	2	+
	Zone substation Buildings	Zone substations up to 66kV	No.	1	2	22 24	18	9	3	1	1	1	0	1	1	1 0	3	3	4	2	0	0	3	2 1	0	1	0	1	0	+	 		0 10	4	+
	Zone substation Buildings	Zone substations 110kV+	No.	0	0	0 2	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0				0	7	+
	Zone substation switchgear	50/66/110kV CB (Indoor)	No. 0	0	0	0 0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 1	11 0	0	0	0	0	0	<u> </u>			0 2	0	+
	Zone substation switchgear	50/66/110kV CB (Outdoor)	No. 0	0	0	0 0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0				0	2	
	Zone substation switchgear	33kV Switch (Ground Mounted)	No.	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0				0 –		N
V	Zone substation switchgear	33kV Switch (Pole Mounted)	No. 0	0	37	77 40	8	0	0	0	0	0	0	0	1	0	8	2	0	2	0	1	0	1 0	6	0	1	0	0				0 18	4	
V	Zone substation switchgear	33kV RMU	No. 0	0	0	0 0	0	0	0	0	0	0	6	0	1	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0				0	7	
V	Zone substation switchgear	22/33kV CB (Indoor)	No. 0	0	0	0 13	20	9	0	10	0	4	6	0	10	6	3	6	7	18	6	0 3	5 2	26 52	11	0	9	5	1				0 25	7	
	Zone substation switchgear	22/33kV CB (Outdoor)	No. 0	0	7	19 20	25	4	0	2	0	0	0	2	1	1	8	20	2	4	0	1	0	0 2	1	0	0	0	0				2 12	1	
	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.	0	9	130 166	273	89	11	16	1	8	0	6	25	23	30	71	41	82	33	49 3	5 3	32 77	99	37	58	44	33				0 1,47	8	
	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No. 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0				0 –	0	N
	Zone Substation Transformer	Zone Substation Transformers	No. 0	0	142	50	1 262	26	04	1	7	1	1	22	26	62	3	5	10	8	5	1	7	9 4	7	0	2	16	3				20 2.72	9	+
	Distribution Line Distribution Line	Distribution OH Open Wire Conductor Distribution OH Aerial Cable Conductor	km 1 0	0	0	0 0	1,302	291	0	0	0	0	0	0	0	0 02	0	0	10	0	0	0	0	0 0	0	0	0	0	0				30 3,73	8	N
	Distribution Line	SWER conductor	km 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0				0 –		
	Distribution Cable	Distribution UG XLPE or PVC	km 0	0	0	3 18	34	168	36	40	31	22	18	97	136	5 102	61	106	53	71	40	49 7	0 6	53 68	65	77	64	57	68				8 1,62	3	+
	Distribution Cable	Distribution UG PILC	km 13	3	25	193 621	695	516	34	13	4	1	2	12	7	7 19	5	6	2	1	0	0	0	1 0	0	0	0	0	0				3 2.17		+
	Distribution Cable	Distribution Submarine Cable	km 0	0	6	0 1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0				0	8	
	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionaliser	No. 0	0	0	0 0	0	17	0	4	0	2	0	3	8	30	67	45	4	0	7	10	0	2 3	2	0	17	37	43				0 30	1	
IV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No. 0	0	2	0 4	5	4	0	11	0	4	2	4	2	2 13	1	10	8	10	3	26	8	9 18	29	13	41	36	19				32 31	4	
	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No. 0	0	7	195 913	1,607	1,320	235	153	130	140	59	213	284	242	237	249	153	102	156	253 31	8 40	01 484	573	452	500	667	614			-	191 10,84	8	
V	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No. 7	0	1	316 843	637	424	79	69	65	53	65	78	66	47	23	43	38	41	51	33 4	2 2	21 25	22	14	28	36	8				3,18	6	
	Distribution switchgear	3.3/6.6/11/22kV RMU	No. 4	0	2	217 755	1,094	594	78	65	76	140	125	142	99	83	65	47	85	106	112	167 12	6 17	77 199	248	304	367	471	119				5 6,07	_	4
	Distribution Transformer	Pole Mounted Transformer	No. 11	36	113	247 588	1,212	1,321	1	107	161	125	11	229	225	314	224	262	229	139	205	164 19	5 19	99 174	203	251	263	244	146				5 7,60		+
	Distribution Transformer	Ground Mounted Transformer	No. 6	45	148	782 1,870	2,344	2,135	5	269	239	194	24	602	461	551	318	319	282	327	261	331 38	7 34	301	372	473	454	502	336				36 14,72	1	
	Distribution Transformer	Voltage regulators	No. 0	0	177	0 0	0	0	0	0	0	0	0	1	0	2	0	0	0	0	4	103 45	4 20	0 0	0	0	2	0	170				112	2	+
	Distribution Substations	Ground Mounted Substation Housing	No. 11	61	117	524 1 024	3,3/3	2,048	183	234	122	141	198	125	118	5 /8	13	12	48	52	10	102 15	4 20 a 4	10 10	168	192	235	291	1/8	-			112 13,21 77 4.15	8	+-
	_V Line _V Cable	LV OH Conductor LV UG Cable	km 0 km 5	10	44	431 1 060	1,767	1.264	114	QQ.	55	40	4	212	261	161	12 81	115	72	74	46	69 10	0 13	25 121	125	162	152	137	125				22 6.43		+
	LV Street lighting	LV OH/UG Streetlight circuit	km 3	1	9	24 45	52	86	9	7	4	3	3	15	15	15	11	16	9	17	8	8 1	7 1	12 21	17	13	14	12	5		+ +		7 47		+
	Connections	OH/UG consumer service connections	No.	0	0	161 37,920	171,994	135,567	10,281	7,556	10,338	13,418	17,658	18,690	14,456	10,686	7,411	6,595	6,502	6,135	6,300 7,3	158 7,98	0 8.61	17 11,396	14,101	14,668	18,056	19,473	4,901		+		0 588.01		+-
	Protection		No. 0	0	5	119 431	308	226	33	23	15	10	33	47	85	62	170	315	215	169	108	233 11	3 9	96 143	202	151	203	178	203			2	267 4,16		+
	SCADA and communications	SCADA and communications equipment operating as a single sys		0	0	0 0	0	3	0	0	0	0	4	3	5	5 21	12	10	14	7	17	25	4 1	14 55	21	30	18	22	18				72 37		+
	Capacitor Banks	Capacitors including controls	No 0	0	0	0 0	0	9	42	0	0	1	0	0	2	0	0	0	1	0	1	11	0	0 4	0	0	1	0	2				0 7	4	+
	Load Control	Centralised plant	Lot 0	0	0	8 1	6	11	0	0	0	0	0	1	0	1	3	0	0	0	0	0	0	0 0	0	0	0	0	0				1 3	2	
	oad Control	Relays	No 0	0	0	0 0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0 0	0	0	0	0	0				0		N

Company Name	Vector
For Year Ended	31 March 2021
Network / Sub-network Name	Southern

																				Network		L							tnern				
	ASSET AGE PROFILE summary of the age profile (ba	ased on year of installation) of the assets that make up the network, l	by asset cat	tegory and	l asset class. All uni	ts relating to cable a	and line assets	that are express	sed in km. r	refer to circu	it lengths.																						
	or the age profile (be		J, addet cat	2001 y unu				are express		s.s. to circu																							
Disclo	losure Year (year ended)	31 March 2021	l					N	Number of	assets at dis	closure year	end by instal	lation date																				
			•									-																			No. with Ite	ems at No. wi	
Accept	t catagon.	Accet along	l leite .	mro 1040	1940 1950 -1949 -1959			1990	2000	2001 2	002 200	2004	2005	2006 20	2000	2000	2010	2011 20	012 20	012 201	2015	2016	2017	2010	2010	2020 2	1021 202	2022	2024	2025	age e		ault Data a
_	et category	Asset class		pre-1940	-1949 -195	9 -1969 -19	9 79 –1989	6 3.869 2	2000	2001 2	002 200 677	03 2004 542 1	2005	1 520	07 2008	2009	2010	2011 20	T	013 201	L,015 90	2016	1 704	2018	2,345	2020 2	2021 202	2023	2024	2025		year dates	tes (1
	rhead Line rhead Line	Concrete poles / steel structure Wood poles	No. No.	0	0	0 203	107 93	3 439	170	37	24	58	27 48	75	51 43	1,230	26	13	7	14	3	1 2	1,734	17	19	34	15		+	+	2 105	3640	
	rhead Line	Other pole types	No.	0	0	0 0	0 (0 0	0	0	0	0	0 0	75	0 (10	0	0	0	0	2	7 29	1/16	173	13	37	2		+	+	2,103	3,049	
	ransmission Line	Subtransmission OH up to 66kV conductor	km	0	0	0 0 3	4.361	0 0	0	0	0.000	0.825	0 0	0	0 (5.071	0	5 7/13	0	0 0	0.087 1.87	7 23	140	1/3	0	0	0.000		+	+	0.017	442	
	ransmission Line	Subtransmission OH 110kV+ conductor	km	0	0	0 0	0 (0 0	0	0	0.000	0	0 0	0	0 (0 0	0	0	0	0	0	0 0	0	0	0	0	0.000		+	+	0.007	46	
	ransmission Cable		km	0	0	0 0 0	0.136 1.685	5 31.720	47.821	1 093	20.624	5.406 0.0	011 1.210	1.362 1	4.657 0.840	2.875	17.254	0.419	9.002	4.566 2	2.332 14.33	0 12.537	9.126	1.501	0.940	4.319	23.427	+	+	+	0.599	220	
	ransmission Cable	Subtransmission UG up to 66kV (XLPE)	km	0	0		2.158 24.299	31.720	0	1.033	0.007	0 0.0	+		0.646	0.033		0.415	3.002	0.034	0	0 12.557	0.004	0	0.540	4.313	0		+	+	0.555	145	
	ransmission Cable	,	km	0	0	0 0.000	0.000	0.711	0	0.010	0.007	0 0.0	0 0	0.780	0.040	0.033	0.000	0	0	0.034	0	0 0	0.004	0	0	0	0		+	+	0	145	
	ransmission Cable	,	km	7.413	2.818 0.1	.45 12.547	1 902 2 233	2 0.274	0.000	0	0	0	0 0.250	0.007	0 0.603	2 0	0	0	0	0 0	0 000	0 0	0	0	0	0	0.000		+	+	0.030	70	
	ransmission Cable	·	km	7.415	0	0 0	0 (0 8.475	0.000	0	18.478	0	0 0.230	0.007	0 0.036	5 0	0	2.133	0	0.004	0	0 0	0	0	0	0	1		+	+	0.030	20	
		` ,		0	0	0 11.301	0 4.789		0.020	0	0	0	0 1.352	0	0 0.030	0	0	0	0	0.004	0	0 0	0	0	0	0	0		+	+		17	
	ransmission Cable ransmission Cable	Subtransmission UG 110kV+ (Oil pressurised) Subtransmission UG 110kV+ (Gas Pressurised)	km km	n	0	0 0	0 4.765	0 0	0.020 N	n	0	0	0 0	0	0 0		0	0	0	0	0	0 0	0	0	0	0	0.000	+	+	+	0.000		
				n	0	0 0	0.001 0.003	3 0	n	n	0	0	0 0	0	0 () 0	0	0	0	0	0	0 0	0	0	0	0	0.000		+	+	0.000		
	ransmission Cable	Subtransmission UG 110kV+ (PILC)	km km	0	0	0 0	0 10.742		0	0	0	0	0 0	0	0 0		0	0	0	0	0	0 0	0	0	0	0	0		+	+	0	11	
	ransmission Cable	Subtransmission submarine cable	_	0	1	2 11	15	7 5	3	0	0	1	0 1	1	0 0) 2	1	0	0	0	0	1 0	0	0	0	0	0	+	+	+	0	<u> </u>	
	e substation Buildings	Zone substations up to 66kV	No.	0	0	0 0	1	4 0	0	0	0	0	0 0	0	0 0) 0	0	0	0	0	0	0 0	0	0	0	0	0	+	+	+	0	21	
	e substation Buildings	Zone substations 110kV+		0	0	0 0	0 0	0 0	0	0	0	0	0 0	0	0 0		0	0	0	0	0 1	1 0	0	0	0	0	0		+	+	0	20	
	e substation switchgear	50/66/110kV CB (Indoor)	No.	0	0	0 0	0 0	0 0	0	0	0	0	0 0	0	0 0) 0	0	0	0	0	0	0 0	0	0	0	0	0		+	+	0	20	
	e substation switchgear	50/66/110kV CB (Outdoor)	No.	0	0	0 0	0 0	0 0	0	0	0	0	0 0	0	0 0		0	0	0	0	0	0 0	0	0	0	0	0	+	+	+	0		
	e substation switchgear	33kV Switch (Ground Mounted)	No.	0	0	0 0	0 0	0 0	0	0	0	0	0 0	0	0 0		0	0	0	0	0	0 0	0	0	0	0	0		+	+	0		
	e substation switchgear	33kV Switch (Pole Mounted)	No.	0	0	0 0	0 0	0 0	0	0	0	0	0 0	0	0 0		0	0	0	0	0	0 0	0	0	0	0	0		+	+	0	_	
	substation switchgear	33kV RMU	No.	0	0	0 0	12 20	0 0	0	10	0	0	0 0	0	0 0		7	1	6	0	6 1	7 20	2	0	0	0	1	+	+	+	0	121	
	e substation switchgear	22/33kV CB (Indoor)	No.	0	0	0 0	0 0	0 0	0	10	0	0	0 0	0	0 0		,	0	0	0	0 1	0 0	2	0	0	0	0		+	+	2	131	
	e substation switchgear	22/33kV CB (Outdoor)	No.	0	0	2 104	04 104	4 61	11	10	0	0	0 0	0	22 4-	7 30	26	40	22	25	10	1 50	61	22	42	4.4	27		+	+	2	050	
	e substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.	0	0	0 0	0 7	0 0	11	10	0	0	0 0	0	0 /	20	20	40	0	0	10 2	0 0	01	23	43	44 0	0		+	+	0	958	
	e substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.	0	0	1 22	32 1-	7 10	4	0	1	1	0 0	1	0	2 0	U	U E	4	0	1	3 2	1	0	2	1	2	+	+	+	0	120	
	e Substation Transformer	Zone Substation Transformers	No.	0 482	0	0 0 135	4.298 604.823	3 34 483	86.002	2 114	1 225	3 3 2 3	119 5 452	5 520	0 608	2 520	2 612	2 602	2 507	1 068 1	1.127 0.35	8 0.200	2 276	0 220	2 010	2 83U	2 710		+	+	19 007	128	
	ribution Line	Distribution OH Open Wire Conductor	km	0.482	0	0 0.123 64	0 004.823	0 0	00.002	2.114	7.223	n.525 U.S	0 0.452	3.330	0.030	3.328	2.012	2.033	2.337	1.000	0.35	0.209	2.2/0	0.220	2.010	2.030	0.000		+	+	10.997	881	
	ribution Line	Distribution OH Aerial Cable Conductor	km	0	0	0 0	0 (0 0	0	0	0	0	0 0	0	0 (0	0	0	0	0	0	0 0	0	0	0	0	0.000	+	+	+	0.000	_	
	ribution Line	SWER conductor	km	0 215	0	0 2.252 43	2.341 12.541	1 17 704	7 005	16.978	14.195 13	0 3.578 4.9	0 0	54.573 5	9.510 30.103	33.623	25.364	40.708 2	22.184 2	24.198 44	0 1.284 27.24	7 33.698	29.869	30.663	38.852	26.576	34.533		+	+	5.120	720	
	ribution Cable	Distribution UG XLPE or PVC	km	0.215	2.613 24.3			17.704		11.274					9.510 30.10s 6.601 3.998	33.623		0.921			0.007	0 0 133	29.869	0.062	36.832	20.3/0	0.004		+	+	3.120	728 1 562	
	ribution Cable	Distribution UG PILC	km	13.055	2.613 24.3	_	0.870 432.050	0 321.920	20.523	11.2/4	2.544	0.802	0 11.026	5.292 1	0.001 3.998	3./19	1.884	0.921	0	0.014	0.007	0 0.133	0	0.062	0	0	0.004		+	+'	3.390	1,562	
	ribution Cable	Distribution Submarine Cable	km	0	0	0 0	0.070	0.093	0	0	0	1	0 0	7	11 11	0	2	0	2	1	0	0 0	0	0	U	11	15		+	+'	0	71	
	ribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionaliser		0	0	2 0	2 .	2 4	0	11	0	1	0 0	/	11 14	3	۷ .	U	2	1	0	0			27	11	10		+	+	33	71	
	ribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.	0	0	0 2	22 420	0 110	02	11	22	4	2 3	1	13 3	4	8	8	3	116	140 10	8 11	16	7	117	171	101		+	+	32	255	
	ribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	U	0	1 206	202 51	7 220	30	39 42	32	79	27 45	4/	30 /5	40	3b 1F	20	20	110	10 10	2 114	123	99	11/	1/1	191		+	+'	155	2,332	
	ribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	/	0	2 216	754	7 425	38	43	23 E0	20	90 45	71	50 15	25	15	2ŏ	50	120	13 1	.2 11	10	164	240	222	06		+	+'		2,406	
	ribution switchgear	3.3/6.6/11/22kV RMU	No.	4	0	2 210	121 224	1 425	4/	43	72	54	2 40	/1	06 01	34	39	/4 E2	71	129	72 -	11/	131	104	249	333	40		+	+	5	4,590	
	ribution Transformer	Pole Mounted Transformer	No.	0	0	2 111	1 049 4 534	1 333	1	140	107	101	48	170	202 453	93	8/	116	125	102	102	1 42	140	150	100	260	176			+	3	7,969	
	ribution Transformer	Ground Mounted Transformer	No.	U	0	0 0	1,048	0 1,224	3	149	10/	101	4 158	1/8	1 154	121	90	110	125	192	192 12	0 125	148	129	199	209	1/0		+	+	33	7,134	
	ribution Transformer	Voltage regulators	No.	0	4	0 0	1 414 3 404	1 1 100	U	103	U F.4	60	60 60	U F4	T (0	4.5	20	20	υ 	71 -	0 0	0	O C7	100	120	70		+	+	111	6 225	
	ribution Substations	Ground Mounted Substation Housing	No.	0 000	1	2 105	1,414 2,103 2.271 1,349.276	1 1,103 6 86 559 1	104.763	4.603	54	0.913 1.6	09 60	4 370	51 39	41	2.046	4.554	4 262	55 E 100	/1 /	49	3 267	3.000	10p	126	7 121		+	+	T11	6,225	
LV Line		LV OH Conductor	km	0.089	16.455 34.7		7.030 782.335	+				1.782 17.2	008 0.899	1.570	0.017	1.577	2.310	4.551	4.202	30 103 53	3.794 3.17 2.852 55.58	2.916 31 64.975	3.207	69.479	71.869	68.418	71.981		+	+	54.233 13.746	1,926	
LV Cab		LV UG Cable	km	4.359			7.030 /82.335 7.089 33.055		2 124	07.1200	-		++		5.907 49.303 1.203 8.954						2.852 55.58 4.516 4.52		7.242	5 921	71.869 5.676	3.297	0.221			+	3 201	3,880	
	treet lighting	LV OH/UG Streetlight circuit	km	2.593	0.115 8.2	14.728 2		30.000	5.134	4.830	3.111	1.1		11.231 1	2.200	01.00		3.09/	4.006				7.2.2	3.321	3.070	14 104	0.221			+	3.201	264	
	nections	OH/UG consumer service connections	No.	0	0	0 70	8,780 121,779	9 53,364	5,150	4,035	0,15/	3,906 13,3	15,120	11,283	7,629 4,879	4,319	4,208	4,0/1	4,12/	4,481 4	1,889 4,77	5 /,214	9,291	10,308	13,132	14,104	3,598		+	+	0 3	349,020	
Protec		Protection relays (electromechanical, solid state and numeric)		0	0	0 79	228 157	121	33	1/	11	2	4 1	/0	22 88	185	118	86	08	09	02 4	0 35	113	64	139	95	91		+	+	95	2,1/5	
	DA and communications	SCADA and communications equipment operating as a single sys		0	0	0 0	0 (0 1	U	0	0	0	4 0	5	9 6	9	/	4	8	14	4	35	11	1/	12	12	1		+	+	30	204	
-	acitor Banks	Capacitors including controls	No	0	0	0 0	0 (U 9	1	0	0	U	0	0	U (0	0	0	1	0	U	0 1	0	0	0	0	1			+'	0	13	
	l Control	Centralised plant	Lot	0	0	U U	U	4 11	0	0	U	U	υ 1	U	1	0	0	U	U	U	U	υ 0	0	U	0	U	U			 '	1	21	
	l Control	Relays	No	_	~	0	<u></u>	O C	_	_			0	~	0		~	_	_	•	0	O	_ ·	_	_	~	_	<u> </u>			_		

Company Name	Vector
For Year Ended	31 March 2021
Network / Sub-network Name	Northern

SCHEDULE 9b: ASSET AGE PROFILE

Property of the property of																																						
Series of Series	ı	Disclosure Year (year ended)	31 March 2021								Number o	of assets at	disclosure y	year end by	installation	date																			Ne	with Itoms	ot No w	with
Property Segretary Property Segretary Property Segretary Property Segretary Property Segretary Segretary Property Segretary					1940	1950	1960	1970	1980	1990																									INO.			ault Data
Nethols					1940 –1949	-1959					2000	2001	2002	2003	2004 2	005 2	2006 2	2007	2008 20	009 2	2010 2	2011 2	2012 20:	3 2014	2015	2016	2017	I	2019	T .	2021	2022	2023	2024	2025 unl			tes (:
Marie Mari					9 287	7 4,742	10,472	14,905	12,697	5,925	346	269	253	255	196	379	511	390	381	697	473	308	396	725 75	97	8 1,189	1,683	2,436	2,095	2,694	770		'					
Second Process			·		4	8 121	191	365	480	368	1/	13	4/	1/	7	41	54	50	19	37	85	1	19	1/ 2	0 2	4 8	- 3	4	10	12	6	+	'		<u> </u>	,		
Manufacture					1.607	0 0	72.020	125 696	71 602	1 520	0	0	0	0.001	0	0.703	2.024	1 250	0.003	0 000	0.803	1 610	0	015	8 2	0 0.633	0 10	7 96	0 477	1/5	0.000		,					
Mathematical Math			· · · · · · · · · · · · · · · · · · ·		1.607	0 24.106			71.603	1.520	0	0	0	0.001	0	0.793	3.934		0.003	8.080	0.802	1.618	-	.015	0	0.623	0.10	0	0.477	0	0.000					0 3	1/	
Mathematical Mat					0 0	0 0 190	7.007	-	9 361	22.845	7 729	0.308	0 787	0 903	1 871	2 791	6 692		7.059	21 906	2 079	3 /152		885 0.51	1 1 91	6 3.490	3 57	1 232	1 996	1	1 233	1				0 1	16	
Manuface			·		0 (0 0.190	1 056	1 113	9.301	0	0	0.308	0.787	0.903	0	0	0.032		7.059	0	0	0	0.022	0.5.	0 1.31	0 3.430	3.37.) 4.232	1.990	0	1.233)	<u>_</u>	$\overline{}$		0	2	+
Money of the Manage of the Man					0 (0 0	0	0	0	0	0	0	0	0	0	0	0	0.130	0	0	0	0	0	0	0	0 () 0	0	0	0.000	1	,J	$\overline{}$		0 -	2	_
Composition					0 (0 0	0	0.589	0.091	0.342	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 (0	0	0	0.000)	,			0	1	
Line content from Line					0 (0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 (0	0	0	0.000)				0 _	1	
Selection analysis of the content of			·		0 (0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 () (0	0	0	0.000)				0 _		
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Manuscrip of the continue of					0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 (0	0	0	0.000	ار	,——— <u> </u>			0 _		
New Resident Market New					0	0 0	0.429	0	0.158	0.308	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 (0	0	0	0	ار	,—————————————————————————————————————			0	1	
					0	0 0	11	9	11	4	0	1	1	0	0	0	0	0	3	1	3	2	0	0	3	1 1	1 (1	L 0	1	0	ار				0	53	\neg
Septiminal Symphology (1) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			·		0 (0 0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 () (0	0	0	0)	 1			0	2	
An unstake without Mark Mark Mark Mark Mark Mark Mark Mark				No.	0 (0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 () (0	0	0	0	ر				0 _		
Are subsciss artifly:					0 (0 0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 () (0	0	0	0	ر	- 			0	2	
Property of the property Section of the				No.	0 (0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 () (0	0	0	0	ر				0 _		
Designee the properties and the properties of th				No.	0 (0 37	77	40	8	0	0	0	0	0	0	0	1	0	8	2	0	2	0	1	0	1 () (0	1	0	0	ر	· 1			0 1	84	
Secondary Seco				No.	0 (0 0	0	0	0	0	0	0	0	0	6	0	1	0	0	0	0	0	0	0	0	0 () (0	0	0	0	J				0	7	
Secondation contingency Affective Configuration Contingency Affective Co			22/33kV CB (Indoor)	No.	0 (0 0	0	0	0	0	0	0	0	4	6	0	10	6	3	6	0	17	0	0 2	.9	9 13	3	0	9	5	0	J	 i			0 1	26	
Part	2	Zone substation switchgear	22/33kV CB (Outdoor)	No.	0 (0 7	19	20	25	4	0	2	0	0	0	2	1	1	8	20	2	4	0	1	0	0 2	2	0	0	0	0	J	1	1		0 1	19	
Part	2	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.	0 (0 7	26	72	79	28	0	6	1	8	0	6	17	0	13	45	15	34	11	24	.7	1 27	7 38	3 14	15	0	6	j	·			0 5	20	
Decidion from the complex of the properties of t	7	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 () (0	0	0	0	J	,			0 –		
Distribution Description by Mile Configuration (as the Configuration of the Configuration of the Configuration (as the Configuration of	2	Zone Substation Transformer	Zone Substation Transformers	No.	0	0 2	16	18	18	8	0	1	1	0	1	0	0	2	0	6	0	3	1	1	1	4	1 3	0	0	3	1	_	,			0	91	
Processor Proc	1	Distribution Line	Distribution OH Open Wire Conductor	km	0.068 3.808	8 142.707	536.738	924.924	757.061	256.673	7.988	8.569	2.711	2.100	4.916	16.258	30.487	52.006	11.708	17.878	6.875	5.037	2.863	.929 6.29	7.64	7 4.242	4.84	4.564	4.890	13	4.802	2	<u> </u>			11 2,8	<mark>57</mark>	
Destination Life Continuing USE P. P. C. F. P. C.	1	Distribution Line	Distribution OH Aerial Cable Conductor	km	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 () (0	0	0	0.000	j	,			0 _		
Distribution Library Case Distribution Library	1	Distribution Line	SWER conductor	km	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 (0	0	0	0.000	j	<u>. </u>			0 _		
Distribution Submarine Cable Use of the control of	ı	Distribution Cable	Distribution UG XLPE or PVC	km	0 0.00	5 0.021	0.302	5.556	21.158	150.161	28.982	23.203	16.464	8.416	12.517	32.290	81.330	42.370	30.454	72.648	27.412	30.584	17.715	.688 25.58	35.38	33.896	35.178	46.691	25.010	31	33.008	3	,			3 8	95	
Distribution switchger 3.3/s. 6.11/2.2W CE plote mounted)recept and sest localizer No. 0 0 0 0 0 0 0 0 0	ı	Distribution Cable	Distribution UG PILC	km	0 (0.626	16.621	117.676	262.642	194.217	7.833	1.694	1.845	0.014	2.182	1.098	2.154	2.459	0.899	2.195	0.338	0.244	0.001	.002 0.00	0.59	0.332	2	0.129	0.001	0	0.001	-	, 			0 6	16	
Distribution witchgair 3,56,6/11/22kV Seth flore outside No. 0 0 0 0 0 0 0 0 0	ı	Distribution Cable	Distribution Submarine Cable	km	0 (0 6.004	0.142	0	0	0.426	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 (0	0	0	0.000	j	,!			0	7	
Distribution switchgar 3.3/6.6/11/224V switch (ground mounted) cxccp RMU No. 0 0 0 7 107 880 3.79 1.70 1.00 1.00 1.00 1.00 1.00 1.00 1.00	1	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionaliser	No.	0 (0 0	0	0	0	16	0	4	0	1	0	3	1	19	55	42	2	0	5	9	0	2	3	0	12	26	28	j	·'			0 2	30	
Polishipution waitchgear 3.36/6/11/224N Waitin (ground mounted) - except RAMU No. 0 0 0 0 0 0 0 0 0	ı	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.	0 (0 0	0	1	2	0	0	0	0	0	0	1	1	0	0	6	0	2	0	1	0	1 7	7 13	6	5 14	3	1		·'			0	59	
Distribution switchages 33,6 of \$11/2200 RMU	ı	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	0	0 7	192	880	1,179	1,210	152	114	98	99	59	133	237	162	162	209	117	71	99	137	8 30	0 370	450	353	383	496	433	,	·'			36 8,3	16	
Distribution Transformer Ground Mounted Transformer Works gregulators No. 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				No.	0	0	10	35	120	185	41	26	40	25	28	33	22	17	8	18	23	13	21	19	3	9 14	1 12	2 5	5 11	14	3	1	·'			5 7	80	
Distribution Transformer Voltage regulators No. 0 6 65 146 673 822 824 911 2 120 132 93 20 444 283 268 166 198 192 211 136 148 190 190 176 224 314 255 223 160				No.	0	0	1	1	107	169	31	22	26	46	45	37	28	28	24	13	46	32	48	38	.0 7:	2 82	2 11	140	118	138	33	1	'	\leftarrow		0 1,4	82	
Distribution Transformer Voltage regulators V				No.	11 30	6 112	215	467	1,011	988	0	78	88	68	9	181	183	228	139	169	142	86	134	105 12	12	8 132	2 147	185	188	179	106	1	'	\leftarrow		3,0		
Distribution Substations Ground Mounted Substation Housing No. 11 60 175 1,117 1,589 1,272 945 103 132 68 81 129 65 67 27 31 19 33 24 24 47 83 131 96 136 125 129 165 108 1 6,993 1 1 6,993 1 1 1 1 1 1 1 1 1				No.	6 4!	5 146	671	822	824	911	2	120	132	93	20	444	283	268	166	198	192	211	136	148 19	19	0 176	5 224	314	255	233	160		'	\leftarrow		3 7,5	87	
LV Line LV OH Conductor km 0.49 4 2.94 9.297 199.49 40.246 276.865 492.57 63.758 30.546 142.697 55.201 31.450 52.35 2.959 61.578 142.697 55.201 31.450 52.35 2.959 61.578 142.697 55.201 31.450 52.35 2.959 128.324 19.760 30.786 47.078 68.963 66.181 12.796 24.398 26.598 38 2.5962					0 (0 0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	2	2	1	0 () (0	0	0	0		, '			0	7	
LV Cable LV UG Cable LV UV OB Cable LV UV					11 60	0 175	1,11,	_,=	_/_ / _	945	103	132	68	81	129	65	67	27	31	19	33	24	24	47 8	13	1 96	130	125	129	165	108		,—— <u>'</u>			-,-		
LV Street lighting LV OH/UG Streetlight circuit km 0 0.52 0.107 9.26 0.101 9.26 1.01 9					0 3.958						9.337	1.746	1.098	0.460	2.012	10.000			7.003	8.746	3.040	7.210	0.003	.036 5.47	0.55	0.510			20.000	38		+	,—— <u>'</u>			,	_	
Connections OH/UG consumer service connections No. 0H/UG consumer service connections No. 0 0 0 66 29,140 50,215 82,203 5,131 3,521 4,181 4,512 4,330 3,570 2,532 2,276 2,294 2,064 2,173 2,677 3,091 3,844 4,182 4,810 4,360 4,94 5,369 1,303					0.494 2.943	9.292					63.758		21.088	14.551	29.559	61.578 1	142.697							.700 47.07	-				80.469	68		1	,'			=,e		
Protection Protection relays (electromechanical, solid state and numeric) No. 0 0 5 40 203 15 105 0 6 4 8 29 46 15 40 82 130 97 83 40 164 51 54 28 89 87 64 83 112 172 1,988 SCADA and communications SCADA and communications equipment operating as a single sys Lot 0					0 0.520	U 1.017	9.260				5.598		1.089	0.945	1.779	2.504	4.098		1.001	8.044	4.881	11.590	4.391	.698 12.37	_		3.377	7.430	8.039	8		+	,'					
SCADA and communications SCADA and communications equipment operating as a single sys Lot 0 0 0 0 0 0 0 0 0					0 (0	66	29,140	50,215	82,203	5,131	3,521	4,181	4,512	4,330	3,570	3,173	3,057	2,532	2,276	2,294	2,064	2,173	,6// 3,09	3,84	4 4,182	4,810	4,360	4,924	5,369	1,303		'					_
Capacitor Banks Capacitors including controls No 0 <td></td> <td></td> <td></td> <td></td> <td>0 (</td> <td>0 5</td> <td>40</td> <td>203</td> <td>151</td> <td>105</td> <td>0</td> <td>6</td> <td>4</td> <td>8</td> <td>29</td> <td>46</td> <td>15</td> <td>40</td> <td>82</td> <td>130</td> <td>97</td> <td>83</td> <td>40</td> <td>164</td> <td>5</td> <td>4 28</td> <td>89</td> <td>87</td> <td>64</td> <td>83</td> <td>112</td> <td></td> <td>,'</td> <td></td> <td></td> <td>,</td> <td></td> <td></td>					0 (0 5	40	203	151	105	0	6	4	8	29	46	15	40	82	130	97	83	40	164	5	4 28	89	87	64	83	112		,'			,		
Load Control Centralised plant Lot 0 0 0 8 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 11					0 (0	0	0	0	2	0	0	0	0	0	3	0	12	6	1	7	3	9	11	0	5 20	10	13	6	10	11	+	,'			42 1	71	
		•			0 (0	0	0	0	0	41	0	0	1	0	0	2	0	0	0	1	0	0	11	U	0 3	3 (0	1	0	1	_	,'	+		0	61	
		Load Control		Lot	0 (0 0	8	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 () (0	0	0	0					0	11	

Company Name	Vector
For Year Ended	31 March 2021
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 rel	ating to cable and line assets that are expressed in km_refer

	For Year Ended		31 March 2021	
	Network / Sub-network Name		Combined	
SC	HEDULE 9c: REPORT ON OVERHEAD LINES AND UNDERGROUND CABLES			
	schedule requires a summary of the key characteristics of the overhead line and underground cable network. All units rela	ating to cable and li	ne assets, that are ex	pressed in km, refe
to ci	ircuit lengths.			
sch re	f			
9			Underground	Total circuit
10	Circuit length by operating voltage (at year end)	Overhead (km)	(km)	length (km)
11	> 66kV	27	49	75
12	50kV & 66kV	-		-
13	33kV	365	441	806
14	SWER (all SWER voltages)	-	-	-
15	22kV (other than SWER)	2	172	174
16	6.6kV to 11kV (inclusive—other than SWER)	3,736	3,759	7,495
17	Low voltage (< 1kV)	4,154	6,439	10,593
18	Total circuit length (for supply)	8,284	10,860	19,144
19				
20	Dedicated street lighting circuit length (km)	18	461	479
21	Circuit in sensitive areas (conservation areas, iwi territory etc) (km)			4,559
22		Circuit length	(% of total	
23	Overhead circuit length by terrain (at year end)	(km)	overhead length)	
24	Urban	4,754	57%	
25	Rural	3,530	43%	
26	Remote only		-	
27	Rugged only		-	
28	Remote and rugged		-	
29	Unallocated overhead lines		-	
30	Total overhead length	8,284	100%	
31			104	
32		Circuit length (km)	(% of total circuit length)	
33	Length of circuit within 10km of coastline or geothermal areas (where known)	19,094		
	Length of circuit Within 10km of coustine of geothermal areas (where known)			
34		Circuit length (km)	(% of total overhead length)	
35	Overhead circuit requiring vegetation management	8,284		
33	Overnead circuit requiring vegetation management	0,284	100%	

Company Name	Vector
For Year Ended	31 March 2021
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 related to circuit lengths.	ating to cable and line assets, that are expressed in km, refer
sch ref	

9			Underground
10	Circuit length by operating voltage (at year end)	Overhead (km)	(km)
11	> 66kV	-	49
12	50kV & 66kV	-	-
13	33kV	48	290
14	SWER (all SWER voltages)	-	-
15	22kV (other than SWER)	2	172
16	6.6kV to 11kV (inclusive—other than SWER)	879	2,242
17	Low voltage (< 1kV)	1,926	3,880
18	Total circuit length (for supply)	2,855	6,633
19			
20	Dedicated street lighting circuit length (km)	5	259
21	Circuit in sensitive areas (conservation areas, iwi territory etc) (km)		L
22		Circuit length	/o/ f
			1% Of tOtal
23	Overhead circuit length by terrain (at year end)	(km)	(% of total overhead length)
23 24	Overhead circuit length by terrain (at year end) Urban	_	•
		(km)	overhead length) 84%
24	Urban	(km) 2,389	overhead length) 84%
24 25	Urban Rural	(km) 2,389	overhead length) 84%
24 25 26	Urban Rural Remote only	(km) 2,389	overhead length) 84%
24 25 26 27	Urban Rural Remote only Rugged only	(km) 2,389	overhead length) 84%
24 25 26 27 28	Urban Rural Remote only Rugged only Remote and rugged	(km) 2,389	overhead length) 84%
24 25 26 27 28 29	Urban Rural Remote only Rugged only Remote and rugged Unallocated overhead lines	(km) 2,389 466 2,855	overhead length) 84% 16% 100%
24 25 26 27 28 29 30 31	Urban Rural Remote only Rugged only Remote and rugged Unallocated overhead lines	(km) 2,389 466 2,855 Circuit length	overhead length) 84% 16% 100%
24 25 26 27 28 29 30 31	Urban Rural Remote only Rugged only Remote and rugged Unallocated overhead lines Total overhead length	(km) 2,389 466 2,855 Circuit length (km)	overhead length) 84% 16% 100% (% of total circuit length)
24 25 26 27 28 29 30 31	Urban Rural Remote only Rugged only Remote and rugged Unallocated overhead lines	(km) 2,389 466 2,855 Circuit length (km) 9,479	overhead length) 84% 16% 100% (% of total circuit length) 99.9%
24 25 26 27 28 29 30 31 32 33	Urban Rural Remote only Rugged only Remote and rugged Unallocated overhead lines Total overhead length	(km) 2,389 466 2,855 Circuit length (km) 9,479 Circuit length	overhead length) 84% 16% 100% (% of total circuit length) 99.9% (% of total
24 25 26 27 28 29 30 31	Urban Rural Remote only Rugged only Remote and rugged Unallocated overhead lines Total overhead length	(km) 2,389 466 2,855 Circuit length (km) 9,479	overhead length) 84% 16% 100% (% of total circuit length) 99.9%

Total circuit length (km)

49

338

174 3,121 5,806 9,489

> 264 2,406

Company Name	Vector
For Year Ended	31 March 2021
Network / Sub-network Name	Northern
SCHEDULE 9c: REPORT ON OVERHEAD LINES AND UNDERGROUND CABLES	

	Network / Sub-network Name		Northern	
S	CHEDULE 9c: REPORT ON OVERHEAD LINES AND UNDERGROUND CABLES			
	is schedule requires a summary of the key characteristics of the overhead line and underground cable network. All units rel	ating to cable and li	ne assets that are ex	nressed in km refe
	circuit lengths.	ating to cable and n	ric assets, that are ex	Kpressed III kill, rere
sch i	ref			
Jerri				
9				
			Underground	Total circuit
10	Circuit length by operating voltage (at year end)	Overhead (km)	(km)	length (km)
11	> 66kV	27	_	27
12	50kV & 66kV	_	_	-
13	33kV	317	150	468
14	SWER (all SWER voltages)	_	_	-
15	22kV (other than SWER)	_	_	-
16	6.6kV to 11kV (inclusive—other than SWER)	2,857	1,517	4,374
17	Low voltage (< 1kV)	2,228	2,559	4,787
18	Total circuit length (for supply)	5,429	4,226	9,655
19				
20		13	202	215
21	Circuit in sensitive areas (conservation areas, iwi territory etc) (km)		L	2,153
22		Circuit length	(% of total	
23	Overhead circuit length by terrain (at year end)	(km)	overhead length)	
24	Urban	2,365	44%	
25	Rural	3,064	56%	
26	Remote only	_	_	
27	Rugged only	-	_	
28	Remote and rugged	_	_	
29	Unallocated overhead lines	_	_	
30	Total overhead length	5,429	100%	
31				
		Circuit length	(% of total circuit	
32		(km)	length)	
33	Length of circuit within 10km of coastline or geothermal areas (where known)	9,615	99.58%	
		Circuit length	(% of total	
34		(km)	overhead length)	
35	Overhead circuit requiring vegetation management	5,429	100%	

		Company Name	Ve	ctor
		For Year Ended		ch 2021
SCH	EDULE 9d: REPORT ON EMBEDDED NETWO	DRKS		
his sc	chedule requires information concerning embedded networks owned l	by an EDB that are embedded in another EDB's network or in another e	mbedded network.	
ref				
			Number of ICPs	Line charge revenue
8	Location *		served	(\$000)
9	None			
2				
?				
3				
1				
5				
;				
7				
3				
?				
3				
4				
5	* Extend embedded distribution networks table as necessary to d			

		Markan
	Company Name	Vector
	For Year Ended	31 March 2021
	Network / Sub-network Name	Combined
This	HEDULE 9e: REPORT ON NETWORK DEMAND schedule requires a summary of the key measures of network utilisation for the disclosure year (number of ributed generation, peak demand and electricity volumes conveyed).	new connections including
8	9e(i): Consumer Connections	
9	Number of ICPs connected in year by consumer type	
10	Consumer types defined by EDR*	Number of
10 11	Consumer types defined by EDB* Residential	connections (ICPs) 8,545
12	Commercial	5,309
13	Commercial	3,303
14		
15		
16	* include additional rows if needed	
17	Connections total	13,854
18		
19	Distributed generation	
20	Number of connections made in year	901 connections
21	Capacity of distributed generation installed in year	4.79 MVA
22	9e(ii): System Demand	
23		
24		Demand at time
		of maximum
		coincident demand (MW)
25	Maximum coincident system demand	demand (WWV)
26	GXP demand	1,715
27	plus Distributed generation output at HV and above	15
28	Maximum coincident system demand	1,730
29	less Net transfers to (from) other EDBs at HV and above	-
30	Demand on system for supply to consumers' connection points	1,730
31	Electricity volumes carried	Energy (GWh)
32	Electricity supplied from GXPs	8,395
33	less Electricity exports to GXPs	-
34	plus Electricity supplied from distributed generation	147
35	less Net electricity supplied to (from) other EDBs	-
36	Electricity entering system for supply to consumers' connection points	8,542
37	less Total energy delivered to ICPs	8,210
38	Electricity losses (loss ratio)	332 3.9%
39		
40	Load factor	0.56
41	9e(iii): Transformer Capacity	
42		(MVA)
43	Distribution transformer capacity (EDB owned)	4,682
44	Distribution transformer capacity (Non-EDB owned, estimated)	646
45	Total distribution transformer capacity	5,328
46		
47	Zone substation transformer capacity	4,506

	•	Mester
	Company Name	Vector
	For Year Ended	31 March 2021
	Network / Sub-network Name	Southern
	CHEDULE 9e: REPORT ON NETWORK DEMAND	
	is schedule requires a summary of the key measures of network utilisation for the disclosure year (number of tributed generation, peak demand and electricity volumes conveyed).	new connections including
uisi	tributed generation, peak demand and electricity volumes conveyed).	
sch r	ef	
8	9e(i): Consumer Connections	
9	Number of ICPs connected in year by consumer type	
		Number of
10	Consumer types defined by EDB*	connections (ICPs)
11	Residential	5,589
12	Commercial	2,539
13		
14 15		
16	* include additional rows if needed	
17	Connections total	8,128
18		
19	Distributed generation	
20	Number of connections made in year	479 connections
21	Capacity of distributed generation installed in year	2.51 MVA
22	9e(ii): System Demand	
23		
24		Demand at time
		of maximum
		coincident
25	Maximum coincident system demand	demand (MW)
26	GXP demand	1,100
27	plus Distributed generation output at HV and above	4
28	Maximum coincident system demand	1,104
29 30	less Net transfers to (from) other EDBs at HV and above Demand on system for supply to consumers' connection points	1,104
30	Demand on System for Supply to consumers connection points	±,±07
31	Electricity volumes carried	Energy (GWh)
32	Electricity supplied from GXPs	5,601
33	less Electricity exports to GXPs	-
34	plus Electricity supplied from distributed generation	50
35	less Net electricity supplied to (from) other EDBs	-
36	Electricity entering system for supply to consumers' connection points	5,651
<i>37 38</i>	less Total energy delivered to ICPs Electricity losses (loss ratio)	5,460 191 3.4%
39	Electricity 1033C3 (1033 ratio)	3.4/0
40	Load factor	0.58
41	9e(iii): Transformer Capacity	
42		(MVA)
43	Distribution transformer capacity (EDB owned)	2,965
44 45	Distribution transformer capacity (Non-EDB owned, estimated) Total distribution transformer capacity	3,248
46	Total distribution transformer capacity	5,240
47	Zone substation transformer capacity	2,990
	,	-7

	Company Name	
•	Company Name	Vector
	For Year Ended	31 March 2021
	Network / Sub-network Name	Northern
SC	CHEDULE 9e: REPORT ON NETWORK DEMAND	
	s schedule requires a summary of the key measures of network utilisation for the disclosure year (number of i	new connections including
aist	tributed generation, peak demand and electricity volumes conveyed).	
sch re	ef	
8	9e(i): Consumer Connections	
9	Number of ICPs connected in year by consumer type	
		Number of
10	Consumer types defined by EDB*	connections (ICPs)
11 12	Residential Commercial	2,956 2,770
13	Commercial	2,770
14		
15		
16	* include additional rows if needed	
17 18	Connections total	5,726
19	Distributed generation	
20	Number of connections made in year	422 connections
21	Capacity of distributed generation installed in year	2.28 MVA
	Oo/::\\ Creatons Domond	
22 23	9e(ii): System Demand	
24		Down and at the co
		Demand at time of maximum
		coincident
25	Maximum coincident system demand	demand (MW)
26	GXP demand	688
27	plus Distributed generation output at HV and above	11
28	Maximum coincident system demand	699
29 30	less Net transfers to (from) other EDBs at HV and above Demand on system for supply to consumers' connection points	699
31	Electricity volumes carried	Energy (GWh)
32	Electricity supplied from GXPs	2,793
33	less Electricity exports to GXPs	
<i>34</i> <i>35</i>	plus Electricity supplied from distributed generationless Net electricity supplied to (from) other EDBs	97
36	Electricity entering system for supply to consumers' connection points	2,890
37	less Total energy delivered to ICPs	2,750
38	Electricity losses (loss ratio)	140 4.8%
39 40	Load factor	0.47
40	Load factor	0.47
41	9e(iii): Transformer Capacity	
42		(MVA)
43	Distribution transformer capacity (EDB owned)	1,717
44	Distribution transformer capacity (Non-EDB owned, estimated)	362
45 46	Total distribution transformer capacity	2,079
47	Zone substation transformer capacity	1,516
		_,

Company Name **Vector** 31 March 2021 For Year Ended Combined Network / Sub-network Name **SCHEDULE 10: REPORT ON NETWORK RELIABILITY** This schedule requires a summary of the key measures of network reliability (interruptions, SAIDI, SAIFI and fault rate) for the disclosure year. EDBs must provide explanatory comment on their network reliability for the disclosure year in Schedule 14 (Explanatory notes to templates). The SAIFI and SAIDI information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8. sch ref 10(i): Interruptions Number of Interruptions by class interruptions 10 Class A (planned interruptions by Transpower) 1,616 11 Class B (planned interruptions on the network) 1,388 12 Class C (unplanned interruptions on the network) 13 2 Class D (unplanned interruptions by Transpower) 14 0 Class E (unplanned interruptions of EDB owned generation) 0 15 Class F (unplanned interruptions of generation owned by others) 0 16 Class G (unplanned interruptions caused by another disclosing entity) 0 17 Class H (planned interruptions caused by another disclosing entity) 0 18 Class I (interruptions caused by parties not included above) 19 Total 3,009 20 21 Interruption restoration ≤3Hrs >3hrs 22 772 Class C interruptions restored within 616 23 SAIFI SAIDI 24 SAIFI and SAIDI by class 0.00 25 0.4 Class A (planned interruptions by Transpower) 0.35 79.1 26 Class B (planned interruptions on the network) 1.1 85.0 27 Class C (unplanned interruptions on the network) 0.04 2.6 28 Class D (unplanned interruptions by Transpower) 0.00 0.0 29 Class E (unplanned interruptions of EDB owned generation) 0.00 0.0 30 Class F (unplanned interruptions of generation owned by others) 0.00 0.0 31 Class G (unplanned interruptions caused by another disclosing entity) 0.00 0.0 32 Class H (planned interruptions caused by another disclosing entity) 0.00 0.0 33 Class I (interruptions caused by parties not included above) 1.49 167.1 34 Total 35 **Normalised SAIFI and SAIDI** Normalised SAIFI Normalised SAIDI 37 164.1 Classes B & C (interruptions on the network) 38 10(ii): Class C Interruptions and Duration by Cause 39 40 41 SAIFI SAIDI Cause 0 0.1 42 Lightning 0.18 16.4 43 Vegetation Adverse weather 0.02 1.5 45 Adverse environment 0.21 18.8 46 Third party interference 47 0.07 3 Wildlife 0.8 48 0.03 Human error 34.9 49 0.41 Defective equipment 9.5 0.18 50 Cause unknown 51 10(iii): Class B Interruptions and Duration by Main Equipment Involved 52 53 54 Main equipment involved SAIFI SAIDI 0.0 55 0.00 Subtransmission lines 0.00 0.0 56 Subtransmission cables 0.0 57 0.00 Subtransmission other 0.13 37.4 58 Distribution lines (excluding LV) 0.02 2.2 69 Distribution cables (excluding LV) 0.21 39.5 60 Distribution other (excluding LV) 10(iv): Class C Interruptions and Duration by Main Equipment Involved 61 62 63 Main equipment involved SAIFI SAIDI 0.14 5.5 64 Subtransmission lines 65 0.02 1.4 Subtransmission cables 0.03 0.7 66 Subtransmission other 45.4 0.54 67 Distribution lines (excluding LV) 0.15 10.9 68 Distribution cables (excluding LV) 0.22 21.1 69 Distribution other (excluding LV) 10(v): Fault Rate 70 Fault rate (faults per 100km) Number of Faults Circuit length (km) Main equipment involved 72 Subtransmission lines 31 7.92 613 73 Subtransmission cables 0.33 74 Subtransmission other 830 3738 *75* 22.20 Distribution lines (excluding LV) 181 3808 76 4.75 Distribution cables (excluding LV) 77 338 Distribution other (excluding LV) 78 1,388 Total



Company Name **Vector** 31 March 2021 For Year Ended Southern Network / Sub-network Name **SCHEDULE 10: REPORT ON NETWORK RELIABILITY** This schedule requires a summary of the key measures of network reliability (interruptions, SAIDI, SAIFI and fault rate) for the disclosure year. EDBs must provide explanatory comment on their network reliability for the disclosure year in Schedule 14 (Explanatory notes to templates). The SAIFI and SAIDI information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8. sch ref 10(i): Interruptions Number of Interruptions by class interruptions 10 Class A (planned interruptions by Transpower) 866 11 Class B (planned interruptions on the network) 498 12 Class C (unplanned interruptions on the network) 13 Class D (unplanned interruptions by Transpower) 14 0 Class E (unplanned interruptions of EDB owned generation) 0 15 Class F (unplanned interruptions of generation owned by others) 0 16 Class G (unplanned interruptions caused by another disclosing entity) 0 17 Class H (planned interruptions caused by another disclosing entity) 0 18 Class I (interruptions caused by parties not included above) 1,366 19 Total 20 21 Interruption restoration ≤3Hrs >3hrs 262 22 236 Class C interruptions restored within 23 SAIFI SAIDI 24 SAIFI and SAIDI by class 0.00 0.0 25 Class A (planned interruptions by Transpower) 0.31 56 26 Class B (planned interruptions on the network) 0.83 64.5 27 Class C (unplanned interruptions on the network) 0.03 28 1.2 Class D (unplanned interruptions by Transpower) 0.00 0.0 29 Class E (unplanned interruptions of EDB owned generation) 0.00 0.0 30 Class F (unplanned interruptions of generation owned by others) 0.00 0.0 31 Class G (unplanned interruptions caused by another disclosing entity) 0.00 0.0 32 Class H (planned interruptions caused by another disclosing entity) 0.00 0.0 33 Class I (interruptions caused by parties not included above) 1.17 121.7 34 Total 35 **Normalised SAIFI and SAIDI** Normalised SAIFI Normalised SAIDI 37 Classes B & C (interruptions on the network) 1.14 120.6 38 10(ii): Class C Interruptions and Duration by Cause 39 40 SAIFI 41 SAIDI Cause 0.00 0.1 42 Lightning 0.09 8.5 43 Vegetation Adverse weather 0.01 0.6 45 Adverse environment 0.22 20.6 46 Third party interference 47 0.04 2.4 Wildlife 1.0 48 0.04 Human error 27.7 49 0.37 Defective equipment 3.6 0.07 50 Cause unknown 51 10(iii): Class B Interruptions and Duration by Main Equipment Involved 52 53 54 Main equipment involved SAIFI SAIDI 0.00 0.0 55 Subtransmission lines 0.00 0.0 56 Subtransmission cables 0.00 0.0 57 Subtransmission other 0.12 29.9 58 Distribution lines (excluding LV) 2.5 0.02 69 Distribution cables (excluding LV) 0.17 23.7 60 Distribution other (excluding LV) 10(iv): Class C Interruptions and Duration by Main Equipment Involved 61 62 63 Main equipment involved SAIFI SAIDI 0.01 0 64 Subtransmission lines 2.3 65 0.03 Subtransmission cables 0.02 0.4 66 Subtransmission other 28.1 0.36 67 Distribution lines (excluding LV) 0.17 12.3 68 Distribution cables (excluding LV) 0.24 21.5 69 Distribution other (excluding LV) 10(v): Fault Rate 70 Fault rate (faults per 100km) Number of Faults Circuit length (km) Main equipment involved 72 Subtransmission lines 4.17 462 73 Subtransmission cables 0.22 74 Subtransmission other 223 881 *75* 25.31 Distribution lines (excluding LV) 107 2,291 76 Distribution cables (excluding LV) 4.67 77 163 Distribution other (excluding LV) 78 498 Total

Company Name **Vector** 31 March 2021 For Year Ended Northern Network / Sub-network Name **SCHEDULE 10: REPORT ON NETWORK RELIABILITY** This schedule requires a summary of the key measures of network reliability (interruptions, SAIDI, SAIFI and fault rate) for the disclosure year. EDBs must provide explanatory comment on their network reliability for the disclosure year in Schedule 14 (Explanatory notes to templates). The SAIFI and SAIDI information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8. sch ref 10(i): Interruptions Number of Interruptions by class interruptions 10 Class A (planned interruptions by Transpower) 750 11 Class B (planned interruptions on the network) 890 12 Class C (unplanned interruptions on the network) 13 Class D (unplanned interruptions by Transpower) 14 0 Class E (unplanned interruptions of EDB owned generation) 0 15 Class F (unplanned interruptions of generation owned by others) 0 16 Class G (unplanned interruptions caused by another disclosing entity) 0 17 Class H (planned interruptions caused by another disclosing entity) 0 18 Class I (interruptions caused by parties not included above) 1,643 19 Total 20 21 Interruption restoration ≤3Hrs >3hrs 510 22 380 Class C interruptions restored within 23 SAIFI SAIDI 24 SAIFI and SAIDI by class 0.00 25 0.90 Class A (planned interruptions by Transpower) 0.42 112.80 26 Class B (planned interruptions on the network) 1.49 115.00 27 Class C (unplanned interruptions on the network) 0.07 4.60 28 Class D (unplanned interruptions by Transpower) 0.00 0.00 29 Class E (unplanned interruptions of EDB owned generation) 0.00 0.00 30 Class F (unplanned interruptions of generation owned by others) 0.00 0.00 31 Class G (unplanned interruptions caused by another disclosing entity) 0.00 0.00 32 Class H (planned interruptions caused by another disclosing entity) 0.00 0.00 33 Class I (interruptions caused by parties not included above) 1.98 34 233.3 Total 35 **Normalised SAIFI and SAIDI** Normalised SAIFI Normalised SAIDI 37 Classes B & C (interruptions on the network) 1.91 38 10(ii): Class C Interruptions and Duration by Cause 39 40 SAIFI 41 SAIDI Cause 0.00 0.3 42 Lightning 0.32 27.9 43 Vegetation Adverse weather 0.03 2.8 45 Adverse environment 0.21 16.2 46 Third party interference 47 0.10 3.9 Wildlife 0.4 48 0.02 Human error 45.4 49 0.47 Defective equipment 18.1 0.34 50 Cause unknown 51 10(iii): Class B Interruptions and Duration by Main Equipment Involved 52 53 54 SAIFI SAIDI Main equipment involved 0.00 0.0 55 Subtransmission lines 0.00 0.0 56 Subtransmission cables 0.00 0.0 57 Subtransmission other 0.14 48.3 58 Distribution lines (excluding LV) 0.01 1.7 69 Distribution cables (excluding LV) 0.27 62.7 60 Distribution other (excluding LV) 10(iv): Class C Interruptions and Duration by Main Equipment Involved 61 62 63 Main equipment involved SAIFI SAIDI 0.34 13.5 64 Subtransmission lines 65 0.01 0.2 Subtransmission cables 0.04 66 Subtransmission other 70.8 0.81 67 Distribution lines (excluding LV) 0.11 9 68 Distribution cables (excluding LV) 0.17 20.5 69 Distribution other (excluding LV) 10(v): Fault Rate 70 Fault rate (faults per 100km) Number of Faults Circuit length (km) Main equipment involved 29 72 Subtransmission lines 344 8.44 150 73 Subtransmission cables 0.67 74 4 Subtransmission other 607 2,857 *75* 21.25 Distribution lines (excluding LV) 74 1,517 76 Distribution cables (excluding LV) 4.88 77 175 Distribution other (excluding LV) 78 890 Total