

# EDB Information Disclosure Requirements Information Templates for

Schedules 1–10

Company Name Disclosure Date Disclosure Year (year ended)

Powerco Limited
31 August 2022
31 March 2022

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

# **Table of Contents**

#### Schedule Schedule name

1	ANALYTICAL RATIOS
2	REPORT ON RETURN ON INVESTMENT
3	REPORT ON REGULATORY PROFIT
4	REPORT ON VALUE OF THE REGULATORY ASSET BASE (ROLLED FORWARD)
5a	REPORT ON REGULATORY TAX ALLOWANCE
5b	REPORT ON RELATED PARTY TRANSACTIONS
5c	REPORT ON TERM CREDIT SPREAD DIFFERENTIAL ALLOWANCE
5d	REPORT ON COST ALLOCATIONS
5e	REPORT ON ASSET ALLOCATIONS
6a	REPORT ON CAPITAL EXPENDITURE FOR THE DISCLOSURE YEAR
6b	REPORT ON OPERATIONAL EXPENDITURE FOR THE DISCLOSURE YEAR
7	COMPARISON OF FORECASTS TO ACTUAL EXPENDITURE
8	REPORT ON BILLED QUANTITIES AND LINE CHARGE REVENUES
9a	ASSET REGISTER
9b	ASSET AGE PROFILE
9c	REPORT ON OVERHEAD LINES AND UNDERGROUND CABLES
9d	REPORT ON EMBEDDED NETWORKS
9e	REPORT ON NETWORK DEMAND
10	REPORT ON NETWORK RELIABILITY

#### **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	Powerco Limited
For Year Ended	31 March 2022

## **SCHEDULE 1: ANALYTICAL RATIOS**

This schedule calculates expenditure, revenue and service ratios from the information disclosed. The disclosed ratios may vary for reasons that are company specific and, as a result, must be interpreted with care. The Commerce Commission will publish a summary and analysis of information disclosed in accordance with the ID determination. This will include information disclosed in accordance with this and other schedules, and information disclosed under the other requirements of the determination. This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8. sch ref

# 7 1(i): Expenditure metrics

8		Expenditure per GWh energy delivered to ICPs (\$/GWh)	Expenditure per average no. of ICPs (\$/ICP)	Expenditure per MW maximum coincident system demand (\$/MW)	Expenditure per km circuit length (\$/km)	Expenditure per MVA of capacity from EDB- owned distribution transformers (\$/MVA)
9	Operational expenditure	20,714	293	104,924	3,575	29,629
10	Network	9,674	137	49,002	1,670	13,837
11	Non-network	11,040	156	55,923	1,906	15,792
12						
13	Expenditure on assets	50,468	715	255,637	8,711	72,188
14	Network	47,501	673	240,609	8,199	67,944
15	Non-network	2,967	42	15,028	512	4,244
16 17 18	1(ii): Revenue metrics	Revenue per GWh energy delivered to ICPs (\$/GWh)	Revenue per average no. of ICPs (\$/ICP)			
19	Total consumer line charge revenue	72 927	1 033	1		
20	Standard consumer line charge revenue	92,972	896			
21	Non-standard consumer line charge revenue	30,474	114.861			
22	······································			J		
23 24	1(iii): Service intensity measures					
25	Demand density	34	Maximum coincid	lent system demand	l per km of circuit le	ngth (for supply) (kW/km)
26	Volume density	173	Total energy deliv	vered to ICPs per km	of circuit length (fo	r supply) (MWh/km)
27	Connection point density	12	Average number	of ICPs per km of cir	cuit length (for sup	oly) (ICPs/km)
28	Energy intensity	14,166	Total energy deliv	vered to ICPs per ave	erage number of ICI	Ps (kWh/ICP)
29						
30	1(iv): Composition of regulatory income					
31			(\$000)	% of revenue		
32	Operational expenditure		103,455	29.36%		
33	Pass-through and recoverable costs excluding financial incent	tives and wash-ups	108,350	30.75%		
34	Total depreciation		93,441	26.52%		
35	Total revaluations		140,129	39.77%		
36	Regulatory tax allowance		13,947	3.96%		
37	Regulatory profit/(loss) including financial incentives and was	h-ups	170,812	48.48%		
38	Total regulatory income		352,367			
39						
40	1(v): Reliability					
41						
42	Interruption rate	l	21.68	Interruptions per	100 circuit km	

					Company Name		Powerco Limited		
					For Year Ended		31 March 2022		
SCH	SCHEDULE 2: REPORT ON RETURN ON INVESTMENT								
This s	chedule requires information on the Return on Inve	stment (ROI) for the E	DB rela	ative to the Commerce	e Commission's estim	ates of post tax WACC	C and vanilla WACC. E	DBs must calculate	
their provi	ROI based on a monthly basis if required by clause 2 ded in 2(iii).	.3.3 of the ID Determ	nation	or if they elect to. If a	in EDB makes this ele	ection, information sup	oporting this calculati	on must be	
EDBs Thic i	must provide explanatory comment on their ROI in	Schedule 14 (Mandat	ory Exp	lanatory Notes).	and so is subject to	the accurance report	required by section 2	0	
sch ref		las defined in section	1.4 01	the ib determination,	, and so is subject to	the assurance report	required by section 2	.0.	
schrej									
7	2(i): Return on Investment					CY-2	CY-1	Current Year CY	
8	ROI – comparable to a post tax V	VACC				31 Mar 20 %	31 Mar 21 %	31 Mar 22 %	
10	Reflecting all revenue earned					6.97%	2.55%	8.10%	
11	Excluding revenue earned from finance	cial incentives				6.99%	2.52%	8.11%	
12	Excluding revenue earned from finance	cial incentives and wa	sh-ups			7.00%	2.54%	8.13%	
14	Mid-point estimate of post tax WAC	с				4.27%	3.72%	3.52%	
15	25th percentile estimate					3.59%	3.04%	2.84%	
16	75th percentile estimate					4.95%	4.40%	4.20%	
17									
19	ROI – comparable to a vanilla W/	ACC				·			
20	Reflecting all revenue earned					7.40%	2.88%	8.40%	
21	Excluding revenue earned from finant	cial incentives	sh-uns			7.41%	2.85%	8.41%	
23			- 00				2.0070		
24	WACC rate used to set regulatory pri	ce path				7.19%	4.57%	4.57%	
25 26	Mid-noint estimate of vanilla WACC					4.69%	4.05%	3 82%	
20	25th percentile estimate					4.01%	3.37%	3.14%	
28	75th percentile estimate					5.37%	4.73%	4.50%	
29									
30	2(ii): Information Supporting the	ROI					(\$000)		
31									
32	Total opening RAB value					2,053,806			
34	Opening RIV					(74,010)	1,978,990		
35									
36	Line charge revenue						364,228		
37	Expenses cash outflow					211,805			
39	add Assets commissioned					199,318			
40	less Asset disposals					14,079			
41	less Other regulated income					(11,861)			
43	Mid-year net cash outflows						409,068		
44							2 402	l	
45 46	Term credit spread differential allowance					l	2,492		
47	Total closing RAB value					2,285,796			
48	less Adjustment resulting from asset al	location				62			
49 50	less Lost and found assets adjustment					(88 600)			
51	Closing RIV					(00,000)	2,197,134		
52									
53 54	ROI – comparable to a vanilla WACC							8.40%	
55	Leverage (%)							42%	
56	Cost of debt assumption (%)							2.55%	
57	Corporate tax rate (%)							28%	
59	ROI – comparable to a post tax WACC							8.10%	
60									
61 62	2(III): Information Supporting the	Monthly ROI							
63	Opening RIV							N/A	
64									
65		Line charge		Expenses each	Accoto	Accet	Other regulated	Monthly not each	
66		revenue		outflow	commissioned	disposals	income	outflows	
67	April							-	
68 69	May June							-	
	June								

	Сотра	ny Name		Powerco Limited	
	For Yeu	ar Ended		31 March 2022	
SCI	HEDILLE 2' REPORT ON RETURN ON INVESTMENT		<u> </u>		
This	schedule requires information on the Return on Investment (ROI) for the FDR relative to the Commerce Commiss	ion's estim	ates of post tax WAC	C and vanilla WACC	DBs must calculate
their	r 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 ma	kes this ele	ction, information su	pporting this calculat	ion must be
provi	/ided in 2(iii).				
EDBs	s must provide explanatory comment on their ROI in Schedule 14 (Mandatory Explanatory Notes).		****	required by costion 7	0
THIST	information is part of addited disclosure information (as defined in section 1.4 of the D determination), and so is	subject to	the assurance report	required by section 2	
sch ref	f				
70					_
72	Sentember				
73	October				_
74	November				-
75	December				-
76	January January				-
77	February				-
78	March				-
79	Total – –	-	-	-	-
80					
81	lax payments				N/A
83	Term credit spread differential allowance				N/A
84					
85	Closing RIV				N/A
86					• <b>••••••</b> ••
87					
88	Monthly ROI – comparable to a vanilla WACC				N/A
89					
90	Monthly ROI – comparable to a post tax WACC				N/A
91	2/iv/v Vege End BOI Bates for Comparison Durpages				
92	2(iv): fear-end ROI Rates for Comparison Purposes				
94	Year-end ROI – comparable to a vanilla WACC				8.27%
95					
96	Year-end ROI – comparable to a post tax WACC				7.97%
97					
98	* these year-end ROI values are comparable to the ROI reported in pre 2012 disclosures by EDBs and c	do not repr	esent the Commission	's current view on RO	Ι.
99					
100	2(v): Financial Incentives and Wash-Ups				
101					ı
102	Net recoverable costs allowed under incremental rolling incentive scheme			-	
104	Energy efficiency and demand incentive allowance			_	
105	Quality incentive adjustment			(479)	
106	Other financial incentives			-	
107	Financial incentives				(479)
108					
109	Impact of financial incentives on ROI				-0.02%
110					1
111	Input methodology claw-back			-	
112	Catastrophic event allowance				
113	Canex wash-un adjustment			(505)	
115	Transmission asset wash-up adjustment			(393)	
116	2013–15 NPV wash-up allowance			-	
117	Reconsideration event allowance			-	
118	Other wash-ups			-	
119	Wash-up costs				(595)
120					
121	Impact of wash-up costs on ROI				-0.02%

	Company Name Pov	werco Limited
	For Year Ended 31	L March 2022
SC	CHEDULE 3: REPORT ON REGULATORY PROFIT	
This on t This	is schedule requires information on the calculation of regulatory profit for the EDB for the disclosure year. All EDBs must complete all sections a their regulatory profit in Schedule 14 (Mandatory Explanatory Notes). is information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance rep of	and provide explanatory comment port required by section 2.8.
7	3(i): Regulatory Profit	(\$000)
8	Income	
9	Line charge revenue	364,228
10	plus Gains / (losses) on asset disposals	(13,660)
11 12	plus Other regulated income (other than gains / (losses) on asset disposals)	1,798
13	Total regulatory income	352,367
14	Expenses	
15 16	less Operational expenditure	103,455
17	less Pass-through and recoverable costs excluding financial incentives and wash-ups	108,350
19	Operating surplus / (deficit)	140,562
20 21	less Total depreciation	93,441
22 23	plus Total revaluations	140,129
24 25	Regulatory profit / (loss) before tax	187,250
26 27	less Term credit spread differential allowance	2,492
28		
29 30	iess Regulatory tax allowance	13,947
31 32	Regulatory profit/(loss) including financial incentives and wash-ups	170,812
33	3(ii): Pass-through and Recoverable Costs excluding Financial Incentives and Wash-Ups	(\$000)
34	Pass through costs	0.402
35	Rates	2,127
36	Commerce Act levies	630
3/	CDD specified pass through costs	1,245
39	Recoverable costs excluding financial incentives and wash-uns	
40	Electricity lines service charge navable to Transnower	92 241
41	Transpower new investment contract charges	7,126
42	System operator services	-
43	Distributed generation allowance	4,980
44	Extended reserves allowance	-
45	Other recoverable costs excluding financial incentives and wash-ups	-
46 47	Pass-through and recoverable costs excluding financial incentives and wash-ups	108,350

	Company Name	Powerco Limite	d
	For Year Ended	31 March 2022	
SC	HEDULE 3: REPORT ON REGULATORY PROFIT		
This	schedule requires information on the calculation of regulatory profit for the EDB for the disclosure year. All EDBs must complete all sections	ons and provide expl	anatory comment
on t	eir regulatory profit in Schedule 14 (Mandatory Explanatory Notes).		
This	information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance	e report required by	section 2.8.
sch re			
48	3(iii): Incremental Rolling Incentive Scheme	(\$0	000)
49		CY-1	CY
50		31 Mar 21	31 Mar 22
51	Allowed controllable opex	-	-
52	Actual controllable opex	-	-
53			
54	Incremental change in year		
55			
		Desidence use and	Previous years'
		incremental	change adjusted
56		change	for inflation
57	CY-5 31 Mar 17	-	-
58	CY-4 31 Mar 18	-	-
59	CY-3 31 Mar 19	-	-
60	CY-2 31 Mar 20	-	-
61	CY-1 31 Mar 21	-	-
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	Margar and acquisition expenditure		-
00	Merger and acquisition expenditure		
67			
67 68	Provide commentary on the benefits of merger and acquisition expenditure to the electricity distribution business, including with section 2.7, in Schedule 14 (Mandatory Explanatory Notes)	g required disclosures	: in accordance
67 68 69	Provide commentary on the benefits of merger and acquisition expenditure to the electricity distribution business, including with section 2.7, in Schedule 14 (Mandatory Explanatory Notes) <b>3(v): Other Disclosures</b>	g required disclosure:	in accordance
67 68 69 70	Provide commentary on the benefits of merger and acquisition expenditure to the electricity distribution business, including with section 2.7, in Schedule 14 (Mandatory Explanatory Notes) <b>3(v): Other Disclosures</b>	g required disclosures	in accordance (\$000)
67 68 69 70 71	Provide commentary on the benefits of merger and acquisition expenditure to the electricity distribution business, including with section 2.7, in Schedule 14 (Mandatory Explanatory Notes) <b>3(v): Other Disclosures</b> Self-insurance allowance	g required disclosures	; in accordance (\$000) –

				C	ompany Name	Po	owerco Limited	I
				1	For Year Ended		31 March 2022	
	SCH This s EDBs requir	<b>IEDULE 4: REPORT ON VALUE OF THE REGULATORY ASSET BASE (ROLLED FORWARD)</b> chedule requires information on the calculation of the Regulatory Asset Base (RAB) value to the end of this disclosure year. This informs the must provide explanatory comment on the value of their RAB in Schedule 14 (Mandatory Explanatory Notes). This information is part of au red by section 2.8.	ROI calculation in Sched lited disclosure informat	dule 2. ion (as defined in sect	ion 1.4 of the ID de	etermination), and so	is subject to the as	surance report
Si	7 8 9	4(i): Regulatory Asset Base Value (Rolled Forward)	for year ended	RAB 31 Mar 18 (\$000)	RAB 31 Mar 19 (\$000)	RAB 31 Mar 20 (\$000)	RAB 31 Mar 21 (\$000)	RAB 31 Mar 22 (\$000)
	10 11	Total opening RAB value		1,592,546	1,657,737	1,787,100	1,962,910	2,053,806
	12	less Total depreciation		66,765	67,008	69,808	80,369	93,441
	13 14 15	plus Total revaluations		17,321	24,327	44,763	29,063	140,129
	16 17	plus Assets commissioned		123,688	185,313	208,182	184,197	199,318
	18 19	less Asset disposals		9,200	12,096	7,414	42,007	14,079
	20	plus Lost and found assets adjustment			-	-	-	-
	22	plus Adjustment resulting from asset allocation		146	(1,173)	86	11	62
	24	Total closing RAB value		1,657,737	1,787,100	1,962,910	2,053,806	2,285,796
	25							
	26 27 28	4(ii): Unallocated Regulatory Asset Base			Unallocat (\$000)	ed RAB * (\$000)	R4 (\$000)	.B (\$000)
	26 27 28 29 30	4(ii): Unallocated Regulatory Asset Base Total opening RAB value Jess			Unallocat (\$000)	ed RAB * (\$000) 2,069,431	R <i>A</i> (\$000)	B (\$000) 2,053,806
	26 27 28 29 30 31 32	4(ii): Unallocated Regulatory Asset Base Total opening RAB value less Total depreciation dus			Unallocat (\$000) [	ed RAB * (\$000) 2,069,431 95,889	RA (\$000)	1 <b>8</b> (\$000) 2,053,806 93,441
	26 27 28 29 30 31 32 33 34	4(ii): Unallocated Regulatory Asset Base Total opening RAB value less Total depreciation plus Total revaluations			Unallocat (\$000) [	ed RAB * (\$000) 2,069,431 95,889 140,990	R# (\$000)	18 (\$000) 2,053,806 93,441 140,129
	26 27 28 29 30 31 32 33 34 35 20	4(ii): Unallocated Regulatory Asset Base Total opening RAB value less Total depreciation plus Total revaluations plus Assets commissioned (other than below) Assets commissioned (other than below)		F	Unallocat (\$000) [ 199,844	ed RAB * (\$000) 2,069,431 95,889 140,990	R# (\$000) 198,185	18 (\$000) 2,053,806 93,441 140,129
	26 27 28 29 30 31 32 33 34 35 36 37	4(ii): Unallocated Regulatory Asset Base Total opening RAB value less Total depreciation plus Total revaluations plus Assets acquired from a regulated supplier Assets acquired from a related party		Ē	Unallocat (\$000) [ 199,844 - 1,133	ed RAB * (\$000) 2,069,431 95,889 140,990	R/ (\$000) 198,185 - 1,133	18 (\$000) 2,053,806 93,441 140,129
	26 27 28 29 30 31 32 33 34 35 36 37 38 39	4(ii): Unallocated Regulatory Asset Base Total opening RAB value less Total depreciation plus Total revaluations plus Assets acquired from a regulated supplier Assets acquired from a related party		Ē	Unallocat (\$000) 199,844  1,133	ed RAB * (\$000) 2,069,431 95,889 140,990	R# (\$000) 198,185 — 1,133	18 (\$000) 2,053,806 93,441 140,129 140,129 199,318
	22 22 22 22 22 30 31 32 33 34 35 36 37 38 39 40 41	4(ii): Unallocated Regulatory Asset Base Total opening RAB value less Total depreciation plus Total revaluations plus Assets commissioned (other than below) Assets acquired from a related party Assets acquired from a related party Assets acquired from a related party Asset scommissioned less Asset disposals (other than below) Asset disposals (other than below)		Ē	Unallocat (\$000) 199,844 	ed RAB * (\$000) 2,069,431 95,889 140,990 200,977	RA (\$000)	18 (\$000) 93,441 140,129 199,318
	223 226 227 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42	4(ii): Unallocated Regulatory Asset Base Total opening RAB value less Total depreciation plus Total revaluations plus Assets commissioned (other than below) Assets acquired from a regulated supplier Asset scommissioned less Asset disposals (other than below) Asset disposals to a regulated supplier Asset disposals to a regula			Unallocat (\$000) [ 199,844 	ed RAB * (\$000) 2,069,431 95,889 140,990 200,977	R/ (\$000) 	. <mark>₿ (\$000) 2,053,806 93,441 140,129 199,318 </mark>
	22 22 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44	4(ii): Unallocated Regulatory Asset Base Total opening RAB value less Total depreciation plus Total revaluations plus Assets acquired from a regulated supplier Assets acquired from a related party Asset disposals (other than below) Asset disposals to a related party Asset disposals		Ē	Unallocat (\$000)	ed RAB * (\$000) 2,069,431 95,889 140,990 200,977 200,977 14,082	R/ (\$000) 198,185 - 1,133 14,079 - - -	B (\$000) 2,053,806 93,441 140,129 199,318 199,318 14,079
	227 228 229 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46	4(ii): Unallocated Regulatory Asset Base		Ē	Unallocat (\$000)	ed RAB * (\$000) 2,069,431 95,889 140,990 200,977 200,977 14,082	RA (\$000)	<mark>.8 (\$000)</mark> 2,053,806 93,441 140,129 199,318 199,318 14,079
	227 228 229 301 311 322 333 34 35 36 37 38 39 40 41 42 43 44 44 45 46 47 48	4(ii): Unallocated Regulatory Asset Base		Ē	Unallocat (\$000) [ 199,844  1,133 14,082   	ed RAB * (\$000) 2,069,431 95,889 140,990 200,977 44,082 -	R/ (\$000)  1,133  - - - - -	.B (\$000) 2,053,806 93,441 140,129 199,318 199,318 14,079 − - 62
	227 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49	4(ii): Unallocated Regulatory Asset Base		Ē	Unallocat (\$000) 199,844 	ed RAB * (\$000) 2,069,431 95,889 140,990 200,977 200,977 14,082	R4 (\$000) 198,185 — 1,133 — 14,079 — — — — — — —	<pre></pre>

		Company Name	Р	owerco Limited	
		For Voor Endod		31 March 2022	
50		FOI TEUI EIIUEU		51 1110101 2022	
SC	AEDULE 4: REPORT ON VALUE OF THE REGULATORY ASSET BASE (ROLLED FORWARD)				
This	schedule requires information on the calculation of the Regulatory Asset Base (RAB) value to the end of this disclosure year. This informs the ROI calculation in Schedule 2. must provide evaluations compared to the value of their RAB in Schedule 11 (Mandatory Evolatory Match). This information is acted a valued disclosure information (as defined)	in section 1.4 of the ID determ	ination) and s	is subject to the ass	surance report
requ	max protects protects and the second	in section 1.4 of the 10 determ	inaciony, and s	is subject to the as	surance report
sch ref					
51					
52	4(iii): Calculation of Revaluation Rate and Revaluation of Assets				
53					
54	CPI4			Г	1,142
55	CPI4 <sup>4</sup>				1,068
56	Revaluation rate (%)			L	6.93%
57					_
58		Unallocated R4	AB *	RA	B
59		(\$000)	(\$000)	(\$000)	(\$000)
60	I total opening KAB value	2,069,431		2,053,806	
62	ress Opening varue or runy depreciated, disposed and rost assets	54,590	L	51,401	
63	Total opening RAB value subject to revaluation	2,034,835	Ī	2,022,406	
64	Total revaluations		140,990		140,129
65				-	
66	4(IV): Koll Forward of Works Under Construction				
		Unallocated works	s under		
67		construction	1	Allocated works un	der construction
68	Works under construction—preceding disclosure year		93,781		92,831
69	plus Capital expenditure	212,328		210,550	
70	less Assets commissioned	200,977		199,318	
72	pius Aujustinent resulting iron asset anocation Works under construction - current disclosure year		105 131	02	104 126
73			100,101		104,120
74	Highest rate of capitalised finance applied				3.12%
75					

								(	Company Name	P	owerco Limiter	•
								e e	For Yoar Ended		31 March 2022	
									FOI TEUI EIIUEU		51 Warch 2022	
This EDB requ	schedule requires must provide of sired by section	EXEPORT ON VALUE OF THE REC res information on the calculation of the Regulatory explanatory comment on the value of their RAB in S 2.8.	GULATORY A Asset Base (RAB) va chedule 14 (Mandat	IUE to the end of th ory Explanatory Not	KOLLED FOR is disclosure year. T res). This informatic	his informs the ROI on is part of audited	calculation in Sched disclosure informati	ule 2. on (as defined in sec	tion 1.4 of the ID d	etermination), and so	o is subject to the a	ssurance report
sch re	f											
76 77 78 79	4(v): Re	gulatory Depreciation						[	Unallocat (\$000) 68,288	ted RAB * (\$000)	R/ (\$000) 68,385	AB (\$000)
80		Depreciation - no standard life assets							27,601		25,056	
81		Depreciation - modified life assets						_	-		-	
82		Depreciation - alternative depreciation in accordance	nce with CPP						-		-	
83	T	Fotal depreciation								95,889		93,441
84 85	4(vi): Di	sclosure of Changes to Depreciation	Profiles						(\$000 0	unless otherwise spe	cified)	
86		Asset or assets with changes to depreciation*				Reasc	n for non-standard	depreciation (text e	ntry)	Depreciation charge for the period (RAB)	Closing RAB value under 'non- standard' depreciation	Closing RAB value under 'standard' depreciation
87			#SPILL!									
88												
89												
90												
91												
93												
94												
95		* include additional rows if needed										
96 97 98	4(vii): D	isclosure by Asset Category	Subtransmission lines	Subtransmission cables	Zone substations	Distribution and LV lines	(\$000 unless oth Distribution and LV cables	erwise specified) Distribution substations and transformers	Distribution switchgear	Other network assets	Non-network assets	Total
99	Т	Fotal opening RAB value	77,288	53,342	174,244	448,045	316,756	273,232	167,965	456,480	86,454	2,053,806
100	less	Total depreciation	2,791	1,553	7,693	17,604	17,721	10,115	7,385	12,213	16,365	93,441
101	plus	Total revaluations	5,331	3,633	11,294	30,949	21,726	18,498	11,456	31,442	5,799	140,129
102	plus	Assets commissioned	9,989	5,254	4,850	58,681	45,934	11,694	13,597	31,036	18,283	199,318
103	less	Asset disposals	368	-	645	2,929	159	5,567	2,348	2,006	57	14,079
104	plus	Lost and found assets adjustment	-	-	-	-	-	-	-	-	-	-
105	plus	Adjustment resulting from asset allocation	(30)		-	(365)	-	-	-	-	457	62
106	plus	Asset category transfers	(426)	(573)	(3,299)	(2,486)	(2,536)	(605)	(611)	5,984	4,553	-
107	T	i otai ciosing RAB value	88,993	60,103	1/8,751	514,290	364,000	287,136	182,674	510,723	99,125	2,285,796
108												
109	4	Asset Life		(2.7	20.5	20.2	24.0	22.5	20.2	45.0	11.2	(110.015)
110		Weighted average remaining asset life	41.4	43.7	30.5	39.3	31.9	33.5	29.3	45.8	14.3	(years)
111		weighten average expected total asset life	59.4	53.3	47.2	59.0	49.4	50.2	38.8	48.5	18.3	(years)

		Company Name	Powerco Limited
		For Year Ended	31 March 2022
sc			
This		res information on the calculation of the regulatory tax allowance. This information is used to calculate regulat	ory profit/loss in Schedule 3 (regulatory
profi	t). EDBs must	provide explanatory commentary on the information disclosed in this schedule, in Schedule 14 (Mandatory Exp	lanatory 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	e assurance report required by section 2.8.
sch rej	:		
7	5a(i): R	egulatory Tax Allowance	(\$000)
8		Regulatory profit / (loss) before tax	187 250
9			101,230
10	plus	Income not included in regulatory profit / (loss) before tax but taxable	1,697 *
11		Expenditure or loss in regulatory profit / (loss) before tax but not deductible	650 *
12		Amortisation of initial differences in asset values	9,504
13		Amortisation of revaluations	14,451
14			26,301
15	less	Total revaluations	140 129
17	1033	Income included in regulatory profit / (loss) before tay but not tayable	_ *
18		Discretionary discounts and customer rebates	
19		Expenditure or loss deductible but not in regulatory profit / (loss) before tax	222 *
20		Notional deductible interest	23,391
21			163,741
22			
23	I	Regulatory taxable income	49,810
24	loss		
25	less	Otilised tax losses	- 49.810
20			43,810
28		Corporate tax rate (%)	28%
29	1	Regulatory tax allowance	13,947
30			
31	* Worki	ngs to be provided in Schedule 14	
32	5a(ii): D	isclosure of Permanent Differences	
33		In Schedule 14, Box 5, provide descriptions and workings of items recorded in the asterisked categories in Sc	nedule 5a(i).
	<b>F</b> = (111) -	An extension of testel Differences to Acces Melone	(1999)
34	5a(iii): /	Amortisation of initial difference in Asset values	(\$000)
35		Opening unamerticed initial differences in accet values	100 575
37	less	Amortisation of initial differences in asset values	9 504
38	nlus	Adjustment for unamortised initial differences in assets acquired	
39	less	Adjustment for unamortised initial differences in assets disposed	301
40	1000	Closing unamortised initial differences in asset values	189,771
41			
42		Opening weighted average remaining useful life of relevant assets (years)	21
43			

			Company Name	Powerco Limit	ed				
			For Year Ended	31 March 202	22				
SC	HEDULE	5a: REPORT ON REGULATORY TAX ALLOWANC	<u> </u>						
This profi This	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 2.8.								
sch rej	- 4								
44	5a(iv):	Amortisation of Revaluations			(\$000)				
45 46		Opening sum of RAB values without revaluations		1 841 078					
47				1)011)010					
48		Adjusted depreciation		78,990					
49		Total depreciation		93,441					
50		Amortisation of revaluations			14,451				
51									
52	5a(v):	Reconciliation of Tax Losses			(\$000)				
53				·					
54		Opening tax losses		-					
55 56	plus	Current period tax losses							
57	1033	Closing tax losses			-				
58	5a(vi):	Calculation of Deferred Tax Balance			(\$000)				
59									
60		Opening deferred tax		(74,816)					
61	,			22.447					
62	pius	Tax effect of adjusted depreciation		22,117					
64	less	Tax effect of tax depreciation		36.238					
65									
66	plus	Tax effect of other temporary differences*		1,115					
67									
68	less	Tax effect of amortisation of initial differences in asset values		2,661					
69 70	plus	Deferred toy balance relating to access acquired in the disclosure year							
70	pius	Deferred tax balance relating to assets acquired in the disclosure year							
72	less	Deferred tax balance relating to assets disposed in the disclosure year		(1,910)					
73									
74	plus	Deferred tax cost allocation adjustment		(27)					
75									
76		Closing deferred tax			(88,600)				
77									
79	5a(vii)	Disclosure of Temporary Differences							
78	54(11)	In Schedule 14, Box 6, provide descriptions and workings of items record	ed in the asterisked category in Sched	ule 5a(vi) (Tax effect of oth	ner temporary				
79		differences).							
80									
81	5a(viii)	: Regulatory Tax Asset Base Roll-Forward							
82				1 205 020	(\$000)				
83	100-	Tax depreciation		1305,038					
85	nlus	Regulatory tax asset value of assets commissioned		129,423					
86	less	Regulatory tax asset value of asset disposals		7,257					
87	plus	Lost and found assets adjustment		-					
88	plus	Adjustment resulting from asset allocation		(34)					
89	plus	Other adjustments to the RAB tax value		(2,631)					
90		Closing sum of regulatory tax asset values			1,359,655				

			Company Name	Powerco Limited	
			For Year Ended	31 March 2022	
s					
Thi Thi sch r	is schedule provides information is part of	formation on the valuation of related party f audited disclosure information (as defined	transactions, in accordance withclause 2.3.6 of inclause 1.4 of the ID determination), and so i	f the ID determination. is subject to the assurance report require	d byclause 2.8.
7	5b(i): Summa	ry—Related Party Transaction	IS	(\$000)	(\$000)
8	Total	regulatory income			8
9 10	Mark	et value of asset disposals			
10	IVIAI K	et value of asset disposais			
12	Serv	vice interruptions and emergencies		-	
13	Veg	etation management		-	
14	Rou	tine and corrective maintenance and inspe	ction		
15	Asse	et replacement and renewal (opex)			
16	Net	work opex			
17	Bus	iness support			
10 19	Oper	ational expenditure			
20	Con	sumer connection			
21	Syst	em growth		_	
22	Ass	et replacement and renewal (capex)		1,133	
23	Asse	et relocations		-	
24	Qua	lity of supply			
25	Legi	slative and regulatory		-	
26	Oth	er reliability, safety and environment			
27	Exp	enditure on non-network assets			- 1 122
20	Cos	t of financing			-
30	Valu	ue of capital contributions			-
31	Valu	ue of vested assets			-
32	Capit	al Expenditure			1,133
33	Total	expenditure			1,133
34					
35	Othe	r related party transactions			
36 37	5b(iii): Total (	Dpex and Capex Related Party Name of related party	Transactions Nature of opex or capex service provided		Total value of transactions (\$000)
38	Bas	e Power Limited	Asset replacement and renewal (capex)		1,133
40			[Select one]		
41			[Select one]		
42			[Select one]		
43			[Select one]		
44			[Select one]		
45			[Select one]		
46			[Select one]		
47			[Select one]		
49			[Select one]		
50			[Select one]		
51			[Select one]		
52			[Select one]		
53	Tota	al value of related party transactions			1,133
54 55	* incl	ude additional rows if needed			

Company Name							Powerco Limited				
							For Year Ended	31 Mar	ch 2022		
sc	HEDULE 5c: REPORT ON TERM CREDIT SPREAD DIFFERE	NTIAL ALLOW	/ANCE								
This	schedule is only to be completed if, as at the date of the most recently published financial	statements, the weig	shted average origi	nal tenor of the deb	t portfolio (both qualify	ing debt and non-q	ualifying debt) is gre	ater than five years.			
This	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 re											
7											
8	5c(i): Qualifying Debt (may be Commission only)										
9											
-											
							Book value at				
				Original tenor (in		Book value at	date of financial	Term Credit	Debt issue cost		
10	Issuing party	Issue date	Pricing date	years)	Coupon rate (%)	(\$000)	(\$000)	Spread Difference	readjustment		
11	USPP (2011) US\$90m/NZ\$114.2m	7/06/2011	7/06/2011	12	BKBM+1.835%	114,213	131,465	600	-133		
12	USPP (2011) US\$83m/NZ\$105.3m	7/06/2011	7/06/2011	15	BKBM+1.980%	105,330	124,016	790	-140		
13	USPP(2013) US\$25m/NZ\$30.4m	23/01/2013	1/11/2012	12	BKBM + 2.20%	30,440	35,959	160	-36		
14	USPP(2013) US\$80m/NZ\$97.4m	23/01/2013	1/11/2012	15	BKBM + 2.21%	97,407	113,663	731	-130		
15	USPP(2022) US\$70m/NZ\$103.4m	15/03/2022	23/09/2021	10	BKBM + 1.482%	103,382	100,550	388	-103		
16	USPP(2022) US\$100m/NZ\$147.7m	15/03/2022	23/09/2021	12	BKBM + 1.567%	147,689	143,690	775	-172		
17	NZD USPP(2014) NZ\$135m	15/10/2014	3/07/2014	12.5	6.62%	135,000	135,454	759	-162		
18	NZD USPP(2017) NZ\$125m	16/11/2017	9/08/2017	12	BKBM + 1.84%	125,000	124,907	656	-146		
19	NZD USPP (2018) NZ\$100m	13/12/2018	16/08/2018	7	BKBM + 1.58%	100,000	99,852	150	-57		
20	NZD USPP (2018) NZ\$150m	13/12/2018	16/08/2018	12	BKBM + 1.81%	150,000	149,626	788	-175		
21	SFA (2020) NZ\$130m	25/02/2020	18/02/2020	7	BKBM +1.65%	130,000	129,716	195	-74		
22	SFA (2020) AU\$15m/NZ\$15.6m	25/02/2020	18/02/2020	7	BKBM + 1.543%	15,645	16,141	23	-9		
23	2015 Wholesale Bond - Fixed rate	28/09/2015	16/09/2015	7	4.76%	150,000	150,005	225	-86		
24	2016 Wholesale Bond - Fixed rate	15/11/2016	4/11/2016	8	4.67%	100,000	100,318	225	-75		
25	2020 Wholesale Bond - Fixed rate	6/08/2020	31/07/2020	10	2.36%	125,000	125,100	469	-125		
26	2020 Wholesale Bond (tap) - Fixed rate	2/06/2021	31/05/2021	9.178532311	2.36%	50,000	1 730 501	7 000	-46		
27	* include dalitional rows if needed						1,730,501	7,090	(1,669)		
29	5c(ii): Attribution of Term Credit Spread Differential										
30											
31	Gross term credit spread differential			5.421							
32			-								
33	Total book value of interest bearing debt	Γ	1,982,446								
34	Leverage		42%								
35	Average opening and closing RAB values		2,169,801								
36	Attribution Rate (%)			46%							
37											
38	Term credit spread differential allowance			2,492							
39											

			Company Name Powerco Limited				
			For Year Ended	ded 31 March 2022			
SCHEDULE 5d: REPORT ON COST ALLOCATIONS							
This	schedule provides information on the allocation of operational costs. EDBs must provide explanatory comment on their cost allocation in	n Schedule 14 (Mand	atory Explanatory No	etes), including on th	e impact of any recla	ssifications.	
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.							
n ret	f						
ĺ							
7	5d(i): Operating Cost Allocations						
8			Value alloca	ted (\$000s)			
			Electricity	Non-electricity		OVABAA	
		Arm's length	distribution	distribution		allocation increase	
1		deduction	services	services	Iotal	(\$000s)	
,	Service interruptions and emergencies		7.435				
2	Directly attributable		7,435				
2	Total attributable to regulated cervice	-	7 / 35	-	_		
,	Vessetation management		7,435				
-	Vegetation management		0.066				
5	Not directly attributable		9,900		_		
7	Total attributable to regulated service		9,966				
2	Routine and corrective maintenance and inspection		0,000				
	Directly attributable		18 248				
2	Not directly attributable	-	-	-	-	_	
1	Total attributable to regulated service		18,248				
,	Asset replacement and renewal		i				
3	Directly attributable		12.666				
4	Not directly attributable	-	-	-	-	-	
5	Total attributable to regulated service		12,666				
5	System operations and network support						
7	Directly attributable		17,674				
8	Not directly attributable	-	451	75	527	-	
9	Total attributable to regulated service		18,125				
2	Business support						
1	Directly attributable		1,943				
2	Not directly attributable	-	35,072	6,649	41,721	-	
3	Total attributable to regulated service		37,014				
4	Operating costs directly attributable		67.000				
5	Operating costs of directly attributable		67,932	6 725	42.240		
7	Operating costs not directly attributable		103 455	0,725	42,248	-	
	operational expenditure		103,455				

		Company Name		Powerco Limited	
		For Year Ended		31 March 2022	
CHEDULE 5d: REPORT ON COST ALLOCATIONS					
is schedule provides information on the allocation of operational costs. El	Bs must provide explanatory comment on their cost allocation in Schedule 14 (Manda	atory Explanatory No	otes), including on t	he impact of any reclassif	fications
is information is part of audited disclosure information (as defined in secti	on 1.4 of the ID determination), and so is subject to the assurance report required by s	section 2.8.			
ref					
<b>5d(ii): Other Cost Allocations</b>					
Pass through and recoverable costs		(\$000)			
1 Pass through costs					
2 Directly attributable		3,794			
3 Not directly attributable		208			
4 Total attributable to regulated service		4,002			
5 Recoverable costs					
6 Directly attributable		104,348			
7 Not directly attributable		-			
8 Total attributable to regulated service		104,348			
9					
5d(iii): Changes in Cost Allocations* †					
			(\$	000)	
2 Change in cost allocation 1			CY-1	Current Year (CY)	
3 Cost category		Original allocation			
4 Original allocator or line items		New allocation			
5 New allocator or line items		Difference	-	-	
6					
7 Rationale for change					
8					
9					
U Change in cost ellegation 2			(\$	OUU)	
		Original allocation	CT-1	Current rear (CT)	
3 Original allocator or line items		New allocation			
4 New allocator or line items		Difference	-	-	
5				<u> </u>	
6 Rationale for change					
7					
8					
9			(\$	000)	
0 Change in cost allocation 3		Onininal allocation	CY-1	Current Year (CY)	
2 Original allocator or line items		New allocation		╂─────┤	
3 New allocator or line items		Difference	_		
4		omerchec			
5 Rationale for change					
6					
7					
8 * a change in cost allocation must be completed for each cost allocat	or change that has occurred in the disclosure year. A movement in an allocator metric	is not a change in a	llocator or compone	ent.	
9 <i>t</i> include additional rows if needed					

		Company Name	Powerco Limited
~~		For Year Ended	31 March 2022
SCI This :	HEDULE 5E: REPORT ON ASSET ALLOCA schedule requires information on the allocation of asset values	TIONS	
DBs	must provide explanatory comment on their cost allocation in	Schedule 14 (Mandatory Explanatory Notes), including on the impact of any entitient and co is subject to the assurance report conviced by section 2.8	changes in asset allocations. This information is part of audited
ISCI	osure information (as defined in section 1.4 of the ID determin	ation), and so is subject to the assurance report required by section 2.8.	
n ref	-		
7	5e(i): Regulated Service Asset Values		
			Value allocated
8			(\$000s)
9			Electricity distribution services
10	Subtransmission lines		
1	Directly attributable		88,993
12	Not directly attributable Total attributable to regulated service		88,993
4	Subtransmission cables		
15	Directly attributable		60,103
17	Total attributable to regulated service		60,103
8	Zone substations		
9	Directly attributable		178,751
1	Total attributable to regulated service		178,751
22	Distribution and LV lines		
23	Directly attributable		
25	Total attributable to regulated service		514,290
26	Distribution and LV cables		
27 28	Directly attributable Not directly attributable		
29	Total attributable to regulated service		364,000
30	Distribution substations and transformers		<u></u>
31 32	Directly attributable Not directly attributable		
33	Total attributable to regulated service		287,136
34	Distribution switchgear		
35 36	Not directly attributable		
37	Total attributable to regulated service		182,674
38	Other network assets		510 722
40	Not directly attributable		
41	Total attributable to regulated service	l	510,723
42 43	Non-network assets Directly attributable		27,500
44	Not directly attributable		71,626
45 46	Total attributable to regulated service	l de la constante de la constant	99,125
47	Regulated service asset value directly attributable		2,214,170
48	Regulated service asset value not directly attributa	ble	71,626
50		· · · · · · · · · · · · · · · · · · ·	2,203,730
51	Se(ii): Changes in Asset Allocations* †		
52	Setting changes in Asset Anotations		(\$000)
53	Change in asset value allocation 1		CY-1 Current Year (CY)
54 55	Asset category Original allocator or line items		New allocation
56	New allocator or line items		Difference – –
57 58	Rationale for change		
59			
60 61			(\$000)
52	Change in asset value allocation 2		CY-1 Current Year (CY)
63 64	Asset category		Original allocation
55	New allocator or line items		Difference – –
56			
58	Kationale for change		
59			
70 71	Change in asset value allocation 3		(\$000) CY-1 Current Year (CV)
72	Asset category		Original allocation
73	Original allocator or line items		New allocation
75	the uncertor of the items	·	
76	Rationale for change		
' 18			
9	* a change in asset allocation must be completed for each a	llocator or component change that has occurred in the disclosure year. A mo	vement in an allocator metric is not a change in allocator or compone
U	i incluae adaitional rows if needed		

Company Name Powerco Limited								
		ST WIARCH Z	522					
SC	REPULE 08: REPURT ON CAPITAL EXPENDITURE FOR THE DISCLOSURE YEAR	and the large state of						
response or execution or capital expension or expension or assets incurred in the users user by an accounting any assets in tespect or which capital contributions are received, but excluding assets that are vested assets. Information on expenditure on assets must be provided on an accounting and must exclude finance rests								
EDB	s 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.								
cet -	6							
scn re	T							
7	6a(i): Expenditure on Assets	(\$000)	(\$000)					
8	Consumer connection		69,415					
9	System growth		55,279					
10	Asset replacement and renewal		101,093					
11	Asset relocations		2,140					
12	Reliability, safety and environment:							
13	Quality of supply	4,608						
14	Legislative and regulatory	-						
15	Other reliability, safety and environment	4,705						
16	Total reliability, safety and environment		9,313					
17	Expenditure on network assets		237,240					
18	Expenditure on non-network assets		14,818					
20	Expanditure on assats		252.059					
20	nuc Cost of financing		202,000					
21	less Value of capital contributions		43 838					
23	plus Value of vested assets							
24								
25	Capital expenditure		210,550					
26	6a(ii): Subcomponents of Expenditure on Assets (where known)		(\$000)					
27	Energy efficiency and demand side management, reduction of energy losses		430					
28	Overhead to underground conversion		17					
29	Research and development		665					
20	Faliii): Consumer Connection							
30	da(iii): Consumer types defined by EDD*	(\$000)	(\$000)					
31	Consumer types defined by EDB*	(\$000)	(\$000)					
32	Commercial	13 012						
34	Industrial	8.888						
35		-						
36								
37	* include additional rows if needed		-					
38	Consumer connection expenditure		69,415					
39	less Capital contributions funding consumer connection expenditure	42 921	1					
40	Consumer connection less canital contributions	45,651	25 584					
41	consumer connection less capital contributions		23,304 Asset					
42	6a(iv): System Growth and Asset Replacement and Renewal		Replacement and					
43		System Growth	Renewal					
44		(\$000)	(\$000)					
45	Subtransmission	22,099	8,381					
46	Zone substations	19,160	13,215					
47	Distribution and LV lines	3,480	58,823					
48	Distribution and LV cables	5,026	5,886					
49	Distribution substations and transformers	617	6,721					
50	Distribution switchgear Other network assets	36	6,365 1 702					
52	System growth and asset replacement and renewal expenditure	55 279	101.093					
53	less Capital contributions funding system growth and asset replacement and renewal	0	-					
54	System growth and asset replacement and renewal less capital contributions	55,279	101,093					
55								
56	6a(v): Asset Relocations							
57	Project or programme*	(\$000)	(\$000)					
58	NZTA Northern Link Relocations	1,124						
59	SH2 Road Improvements Stage 2	610						
60		-						
61		-						
62		-						
63	<ul> <li>Include additional rows if needed</li> <li>All other projects or programmes - asset relocations</li> </ul>	400						
65	An ourier projects or programmes - asset relocations Asset relocations expenditure	406	2 140					
66	less Capital contributions funding asset relocations	7	2,140					
67	Asset relocations less capital contributions	· · · · ·	2,133					
			-,					

			Company Name	Powerco Limited
			For Year Ended	31 March 2022
SC	HEDULE	6a: REPORT ON CAPITAL EXPENDITURE FOR THE I	DISCLOSURE YEAR	
This excl EDB This	s schedule re- luding assets 3s must provi 5 information	quires a breakdown of capital expenditure on assets incurred in the disclosure yea that are vested assets. Information on expenditure on assets must be provided or de explanatory comment on their expenditure on assets in Schedule 14 (Explanat is part of audited disclosure information (as defined in section 1.4 of the ID deter	r, including any assets in respect of w an accounting accruals basis and mu ny Notes to Templates). mination), and so is subject to the ass	hich capital contributions are received, but st exclude finance costs. urance report required by section 2.8.
sch re	ef			
68				
60	(calui)	Quality of Supply		
69	Od(VI)			
70		Project or programme*		(\$000) (\$000)
71		Accellerated LFI Rollout		1,285
72		Automation Projects		892
73		Backfeed Support		704
74				627
75		* include additional rows if needed		
77		All other projects programmes - guality of supply		1.101
78		Quality of supply expenditure		4,608
79	less	Capital contributions funding quality of supply		_
80		Quality of supply less capital contributions		4,608
81	6a(vii)	): Legislative and Regulatory		
82		Project or programme*		(\$000) (\$000)
83		Nil projects or programmes		-
84				
85				
80				
07		* include additional rows if needed		
89		All other projects or programmes - legislative and regulatory		
90		Legislative and regulatory expenditure		-
91	less	Capital contributions funding legislative and regulatory		
92		Legislative and regulatory less capital contributions		-
93	6a(viii	i): Other Reliability, Safety and Environment		(4)
94		Project or programme*		(\$000) (\$000)
95		LidAk and Poletop Photography		2,370
90		Line Differential Protection and Critical Comms		539
98				_
99		0		
100		* include additional rows if needed		
101		All other projects or programmes - other reliability, safety and environment		1,350
102		Other reliability, safety and environment expenditure		4,705
103	less	Capital contributions funding other reliability, safety and environment		-
104		Other reliability, safety and environment less capital contributions		4,705
105				

		Company Name	Powerco Limit	ed				
		For Year Ended	31 March 202	2				
S	CHEDILLE 62. REPORT ON CADITAL EXPENDITURE FOR THE DISC							
SCHEDULE ba: REPORT ON CAPITAL EXPENDITORE 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 acruals 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 r								
106	6a(ix): Non-Network Assets							
107	Routine expenditure							
108	Project or programme*		(\$000)	(\$000)				
109	Enterprise Asset Management System		4,262					
110	Land and Building leases		2,570					
111	Improve network Operations (OMS/DMS)		1,875					
112	IT Renewal		1,343					
113	Kaimai Redevelopment		515					
114	Concept to Completion		585					
115	Connecting with Customers		465					
116	Palmerston North Office		306					
117	IT Leases		378					
118	* include additional rows if needed							
119	All other projects or programmes - routine expenditure		58					
120	Routine expenditure		L	12,357				
121	Atypical expenditure							
122	Project or programme*		(\$000)	(\$000)				
123	Kaimai Redevelopment		1,626					
124	Enterprise Asset Management System		598					
125	0		-					
126	0		-					
127	0		-					
128	* include additional rows if needed							
129	All other projects or programmes - atypical expenditure		237					
130	Atypical expenditure			2,460				
131								
132	Expenditure on non-network assets			14,818				

	Company Name	Powerco	Limited					
	For Year Ended	31 Marc	h 2022					
SC	CHEDULE 6b: REPORT ON OPERATIONAL EXPENDITURE FOR THE DISCLOSURE YEAR							
Thi: EDI exp Thi:	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 r	ef							
7	6b(i): Operational Expenditure	(\$000)	(\$000)					
8	Service interruptions and emergencies	7,435						
9	Vegetation management	9,966						
10	Routine and corrective maintenance and inspection	18,248						
11	Asset replacement and renewal	12,666						
12	Network opex		48,316					
13	System operations and network support	18,125						
14	Business support	37,014						
15	Non-network opex	L	55,140					
16		_						
17	Operational expenditure	L	103,455					
18	6b(ii): Subcomponents of Operational Expenditure (where known)							
19	Energy efficiency and demand side management, reduction of energy losses		238					
20	Direct billing*		-					
21	Research and development		50					
22	Insurance		1,317					
23	* Direct billing expenditure by suppliers that directly bill the majority of their consumers							

Сотралу Name	Powerco Limited
For Year Ended	31 March 2022

# SCHEDULE 7: COMPARISON OF FORECASTS TO ACTUAL EXPENDITURE

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

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

# sch ref

7	7(i): Revenue	Target (\$000) <sup>1</sup>	Actual (\$000)	% variance
8	Line charge revenue	358,763	364,228	2%
9	7(ii): Expenditure on Assets	Forecast (\$000) <sup>2</sup>	Actual (\$000)	% variance
10	Consumer connection	44,394	69,415	56%
11	System growth	83,649	55,279	(34%)
12	Asset replacement and renewal	86,493	101,093	17%
13	Asset relocations	5,562	2,140	(62%)
14	Reliability, safety and environment:		<u>.</u>	
15	Quality of supply	7,834	4,608	(41%)
16	Legislative and regulatory	163	-	(100%)
17	Other reliability, safety and environment	4,447	4,705	6%
18	Total reliability, safety and environment	12,444	9,313	(25%)
19	Expenditure on network assets	232,542	237,240	2%
20	Expenditure on non-network assets	13,340	14,818	11%
21	Expenditure on assets	245,882	252,058	3%
22	7(iii): Operational Expenditure			
23	Service interruptions and emergencies	7,826	7,435	(5%)
24	Vegetation management	9,905	9,966	1%
25	Routine and corrective maintenance and inspection	16,772	18,248	9%
26	Asset replacement and renewal	10,593	12,666	20%
27	Network opex	45,096	48,316	7%
28	System operations and network support	19,347	18,125	(6%)
29	Business support	34,002	37,014	9%
30	Non-network opex	53,349	55,140	3%
31	Operational expenditure	98,445	103,455	5%
32	7(iv): Subcomponents of Expenditure on Assets (where known)			
33	Energy efficiency and demand side management, reduction of energy losses	_	430	-
34	Overhead to underground conversion	-	17	-
35	Research and development	-	665	-
36				
37	7(v): Subcomponents of Operational Expenditure (where known	)		
38	Energy efficiency and demand side management, reduction of energy losses	_	238	_
39	Direct billing	-	-	_
40	Research and development	_	50	_
41	Insurance	_	1,317	_
42				
43	1 From the nominal dollar target revenue for the disclosure year disclosed under clause 2.4.3	(3) of this determinat	ion	
44	2 From the CY+1 nominal dollar expenditure forecasts disclosed in accordance with clause 2.6	5.6 for the forecast pe	eriod starting at the l	beginning of the

										(	Company Name			Powerco	Limited		
											For Year Ended			31 Mar	ch 2021		
										Network / Sub-	Network Name			Powerco	Limited		
											ı						
SCI	HEDULE 8: RE	PORT ON BILL	LED QUANTITIES AN	D LINE CHARGE REVER	NUES		and the second second second second second										
Inds	schedule requires the	e bined quanticles and	lassociated line charge revenues	Foreach price category code used	by the EDB in its pricing sch	edules. Information is also re	quired on the number of iCPS that are included in each consumer group of p	rice category code,	and the energy dei	Wered to these ICPS.							
sch ret	<i>,</i>																
ciric																	
8	8(i): Billed Qu	uantities by Pric	e Component														
9																	
10																	
11								Billed quantities by	price component								
							Price component	Fixed	Fixed	Variable (Anytime)	(Reak)	(Off-Reak)	Demand	Demand	Power Factor	Fixed	
12											(i cuit)	(on reak)					
							Unit charging basis (eg, days, kW of demand,			1.1.1							Add extra columns
	Consumer g	group name or price	Consumer type or types (eg,	Standard or non-standard	Average no. of ICPs in	Energy delivered to ICPs	kVA of capacity, etc.)	ICP Days	KVA of Capacity	ĸwn	ĸwn	kWn	KW OF AMD	KW OF OPD	kVAm	rixture Count Days	billed avantities by
13	cat	tegory code	residential, commercial etc.)	consumer group (specify)	disclosure year	in disclosure year (MWh)											price component
14							-										as necessary
15	Unmetered		Streetlights	Standard	561	5,787		-	-	5,787,269	-	-	-	-	-	9,540,157	
16	Small		Residential/Small Commercial	Standard	349,659	2,787,689		123,471,623	-	607,794,967	691,956,788	1,617,158,139	3,998,357	-	-	4,015	
1/	Medium		Lommercial	Standard	1,672	260,405		591,941	-	260,549,301	-	-	29,117	13,661	42,067	-	
18	Large		Large Commercial/Industrial	Standard Non-standard	240	1 601 872		-	193,401	338,677,469	-	-	104,547	43,978	59,766		
19	Large	0	Acarge commercial/industrial	nion-standaru 0	423	1,001,872		147,825		1,301,406,000	-	-	-		153,400		
20		0	0	0	0	0		-			_	-	-				
22		0	0	0		0		-	-	-	-	-	-	-	-		
23		0	0	0	0	0		-	-	-	-	-	-	-	-	-	
24		0	0	0	C	0		-	-	-	-	-	-	-	-	-	
25	Add extra row	ws for additional consu	imer groups or price category cod	es as necessary		••											
26				Standard consumer totals	352,138	3,392,558		124,063,564	193,401	1,212,809,006	691,956,788	1,617,158,139	4,132,021	57,640	101,834	9,544,172	
27				Non-standard consumer totals	425	1,601,872		147,825	-	1,361,406,000	-	-	-	-	153,400	-	
28				Total for all consumers	352,563	4,994,430		124,211,389	193,401	2,574,215,007	691,956,788	1,617,158,139	4,132,021	57,640	255,234	9,544,172	
29																	
30																	

SCH Thiss	<b>HE</b> sche	<b>DULE 8: REPORT ON Bi</b> dule requires the billed quant files a	LLED QUANTITIES AN	D LINE CHARGE REVE	<b>NUES</b> by the EDB in its pricing sch	edukes. Information is also re	quired on the num	er of ICPs shat are in	uded in each consumer group c	r price category code	s, and the energy de	N <b>etwork / Sub</b> Invered to these ICPs.	Company Name For Year Ended Network Name			Powerco 31 Mar Powerco	Limited ch 2021 Limited		
31	8	(ii): Line Charge Revenues	(\$000) by Price Compon	ient															
32 33										Line charge reven	ues (\$000) by price o	component							
34									Price compone	nt Fixed	Fixed	Variable (Anytime)	Variable (Peak)	Variable (Off-Peak)	Demand	Demand	Power Factor	Fixed	
35 36		Consumer group name or price category code	Consumer type or types (eg, residential, commercial etc.)	Standard or non-standard consumer group (specify)	Total line charge revenue in disclosure year	Notional revenue foregone from posted discounts (if applicable)	Total dist line ch rever	Total transr ibution line cha Irge revenue ue availab	ission Rate (eg, \$ per day, \$ p if kWh, et .)	er ICP Days	kVA of Capacity	kWh	kWh	kWh	kW of AMD	kW of OPD	kVArh	Fixture Count Days	Add extra columns for additional line charge revenues by price component as necessary
37		Unmetered	Streetlights	Standard	\$1,680	-		\$1,078	\$602	-	-	\$219	-	-	-	-	-	\$1,460	
38		Small	Residential/Small Commercial	Standard	\$273,392	-	\$	.99,449 \$	3,943	\$37,494	-	\$40,436	\$92,190	\$103,267	-	-	-	\$6	
39		Medium	Commercial	Standard	\$22,691	-		17,448	5,243	\$6,928	-	\$9,779	-	-	\$3,883	\$1,805	\$294	-	
40		Large	Large Commercial/Industrial	Standard	\$17,650	-		11,813	5,837	-	\$4,503	-	-	-	\$6,891	\$5,837	\$418	-	
41		Large	XLarge Commercial/Industrial	Non-standard	\$48,816	-		25,984 \$	2,832	\$47,742	-	-	-	-	-	-	\$1,074	-	
42			0	0	-	-		-	-	-	-	-	-	-	-	-	-	-	
43				0				-	-	-	-	-					-		
45			0 0	0		-		-	-	-	-	-				_	_		
46			0 0	0	-	-		-	-	-	-	-	-	-	-	-	-	-	
47		Add extra rows for additional cor	sumer groups or price category cod	es as necessary		•+					•								
48				Standard consumer totals	\$315,412	-	\$	29,788 \$	5,624	\$44,422	\$4,503	\$50,434	\$92,190	\$103,267	\$10,775				
49				Non-standard consumer totals	\$48,816	-		\$25,984	2,832	\$47,742		-	-	-	-				
50				Total for all consumers	\$364,228	-	\$	\$1,55,772	8,456	\$92,164	\$4,503	\$50,434	\$92,190	\$103,267	\$10,775				
51 52 53	8	(iii): Number of ICPs direc Number of directly billed ICPs a	tly billed tyear end	13	[			Check	ок										

											Company Name			Powerco	Limited		
											For Year Ended			31 Mar	ch 2021		
										Network / Sub	-Network Name			Westerr	Region		
												i					
SCH	IEDULE 8:	REPORT ON BILLE	D QUANTITIES AND LI	NE CHARGE REVENUES	•												
This s	:hedule require	esthe billed quantities and a:	isociated line charge revenues for e	ach price category code used by the	EDB in its pricing schedules. Inf	ormation is also required	ion the number of ICPs that are included in each consumer group or price catego	ry code, and the en	ergy delivered to th	ese IC Ps.							
scrirej																	
8	8(i): Bill	led Quantities by Pri	ce Component														
9																	
10																	
11								Billed quantities by	y price component								
							Price component	Fixed	Fixed	Variable (Anytime)	Variable	Variable	Demand	Demand	Power Factor	Fixed	
42											(Peak)	(Оп-Реак)					
12																	
							Unit charging basis (eg. days kW of demand										Add extra columns
		Consumer group name or r	rice Consumer type or types (ee	Standard or non-standard	Average no. of ICPs in F	nergy delivered to ICPs	kVA of capacity, etc.)	ICP Days	kVA of Capacity	kWh	kWh	kWh	kW of AMD	kW of OPD	kVArh	Fixture Count Days	for additional
13		category code	residential, commercial etc.	.) consumer group (specify)	disclosure year in	n disclosure year (MWh)											price component
14																	as necessary
15		E1	Residential/Small Commercial	Standard	184,202	1,510,066		64,558,186	-	-	485,632,642	1,146,567,814	3,998,357	-	-	4,015	
16		E100	Commercial	Standard	254	91,606		91,403	-	91,606,101	-	-	29,117	13,661	31,959	-	
17		E300/R	Large Commercial/Industrial	Standard	246	338,677		-	193,401	338,677,469	-	-	104,547	43,978	59,766	-	
18		SPECIAL	XLarge Commercial/Industrial	Non-standard	46	320,127		12,836	-	320,127,038	-	-	-	-	21,717	-	
19			0	0 0	0	0		-	-	-	-	-	-	-	-	-	
20			0	0 0	0	0		-	-	-	-	-	-	-	-	-	
21			0	0	0	0		-	-	-	-	-	-	-	-	-	
22			0	0	0	0					_			_		_	
24			-														
25		Add extra rows for additiona	I consumer groups or price category	codes as necessary	++			l		•		· · · · · · · · · · · · · · · · · · ·					
26				Standard consumer totals	184,702	1,940,350		64,649,589	193,401	430,283,570	485,632,642	1,146,567,814	4,132,021	57,640	91,726	4,015	
27				Non-standard consumer totals	46	320,127		12,836	-	320,127,038	-	-	-	-	21,717	-	
28				Total for all consumers	184,748	2,260,477		64,662,425	193,401	750,410,609	485,632,642	1,146,567,814	4,132,021	57,640	113,443	4,015	
29																	
30																	

														Company Name			Powerco	Limited		
														For Year Ended			31 Mar	ch 2021		
													Network / Sub	-Network Name			Western	Region		
SCL																				
JUL					EDB in its prising school when I	stormation is also maying	don the num	har of ICDs that are in	cluded in each color			a ray da liya rad ta th	ana K Br							
1116.5	cired die ieg	unes the unieu quantities and associa	ated mile charge revenues for eac	in price category code used by the	coom as premesened des.	inormation is a so required	u on the num	ide for iters that are fin	ciudeu in each cons	uner group or price carego	ry code, and the en	ergy de live led to th	ese kurs.							
Ì																				
31	8(ii):	Line Charge Revenues (\$00	00) by Price Componen	t																
32																				
33											Line charge revenu	es (\$000) by price c	omponent						1	1
														Variable	Variable					
										Price component	Fixed	Fixed	Variable (Anytime)	(Peak)	(Off-Peak)	Demand	Demand	Power Factor	Fixed	
34													1							
									Total transmission											Add extra columns
						Notional revenue		Total distribution	line charge	Rate (eg, \$ per day, \$ per	ICP Days	kVA of Capacity	kWb	kWh	kWb	kW of AMD	kW of OPD	kVArb	Fixture Count Days	charge revenues
		Consumer group name or price	Consumer type or types (eg,	Standard or non-standard	Total line charge revenue	foregone from posted		line charge	revenue (if	kWh, etc.)										by price
35		category code	residential, commercial etc.)	consumer group (specify)	in disclosure year	discounts (if applicable)		revenue	available)											component as
30		F1	Residential/Small Commercial	Standard	\$149.037	_	1	\$111 562	\$37.474	1	\$5.578	-	-	\$63,093	\$80,409		_		\$6	necessary
38		F100	Commercial	Standard	\$6.823	_		\$5.018	\$1,805		\$9,525	-	_	-	-	\$3.883	\$1.805	\$774	-	
39		E30D/R	Large Commercial/Industrial	Standard	\$17,650	-		\$11,813	\$5,837		-	\$4 503	-	-	-	\$6,891	\$5,837	\$418	-	
40		SPECIAL	XLarge Commercial/Industrial	Non-standard	\$10,476	-		\$5,288	\$5,188		\$10,324	-	-	-	-	-	-	\$152	-	
41					-						-	-	-	-	-	-	-	-	-	
42					-						-	-	-	-	-	-	-	-	-	
43					-						-	-	-	-	-	-	-	-	-	
44					-						-	-	-	-	-	-	-	-	-	
45					-						-	-	-	-	-	-	-	-	-	
46					-		1				-	-	-	-	-	-	-	-	-	1
47		Add extra rows for additional con	isumer groups or price category c	odes as necessary			1	C420	645 · · · ·	1				600.000	ć00	£10	r			
48				Standard consumer totals	\$1/3,509			\$128,393	\$45,116		\$6,439	\$4,503		\$63,093	\$80,409	\$10,775				
50				Total for all consumers	\$183,986	_		\$133,681	\$50,305		\$16,324	\$4.503	_	\$63,093	\$80.409	\$10,775				
51					\$103,500			\$155,001	\$50,505		\$10,705	<i>94,505</i>		505,055	\$00,405	\$10,775				
57	8(iii)	Number of ICPs directly h	illed					Check	OK	1										
53	5(11)	Number of directly hilled ICBs at	vear and		T			Check	UK.											
		reamper or an eetily billed fers at	year end	,	1															

										Co	mpany Name			Powerco	Limited		
										Fr	or Year Ended			31 Mar	ch 2021		
										Network / Sub-N	atwork Name			Eastern	Region		
										Network/ Sub-N	erwork reame			Lastern	Region		
SCH	EDULE 8: I	REPORT ON BILLED	QUANTITIES AND LIN	NE CHARGE REVENUES													
This sc	hedule requires	s the billed quantities and asso	tiated line charge revenues for ea	ach price category code used by the I	EDB in its pricing schedules. Info	rmation is also required	Ion the number of ICPs that are included in each consumer group or price catego	ry code, and the ene	rgy de live red to th	ese IC Ps.							
sch ref																	
8	8(i): Bille	ed Quantities by Price	Component														
9	-(.)	,															
10																	
11								Billed quantities by	price component								
																1	
							Price component	Fixed	Fived	Variable (Anutime)	Variable	Variable	Demand	Demand	Power Factor	Fixed	
								The d	Theo	rundole (rinyanie)	(Peak)	(Off-Peak)	bemana	Demand	TowerTuetor	The second	
12																t	
							Hole above to be to find down and									1	Add extra columns
		Consumer group name or pric	a Consumer type or types (eg	Standard or non-standard	Average no. of ICPs in En	ermy delivered to ICPs	kVA of capacity, etc.)	ICP Days	kVA of Capacity	kWh	kWh	kWh	kW of AMD	kW of OPD	kVArh	Fixture Count Days	for additional
13		category code	residential, commercial etc.)	) consumer group (specify)	disclosure year in o	disclosure year (MWh)										1	pilled quantities by price component
14								·									as necessary
15	1	T01, T02, V01, V02	Streetlights/Unmetered	Standard	561	5,787		-	-	5,787,269	-	-	-	-	-	9,540,157	
16	1	T05, T06, V05, V06	Residential/Small Commercial	Standard	165,457	1,277,622		58,913,437	-	607,794,967	206,324,146	470,590,325	-	-	-		
17	1	T22, T28, V22, V28	Commercial	Standard	1,418	168,799		500,538	-	168,943,200	-	-	-	-	10,108		
18	1	T43	Large Commercial	Standard	0	0		-	-	-	-	-	-	-	-		
19	N	V40, T50, T60, V60	XLarge Commercial/Industrial	Non-standard	379	1,281,745		134,989	-	1,041,278,962	-	-	-	-	131,683		
20	-		0	0 0	0	0		-	-	-	-	-	-	-	-		
21	-		0	0 0	0	0		-		-	-	-			-		
22	-		0	0	0	0		-		-	-	-			-		
23	-		0	0 0	0	0			-	_	_	_			-		
25	7	Add extra rows for additional co	insumer groups or price category of	codes as necessary	I			II		I					I		1
26				Standard consumer totals	167,436	1,452,208		59,413,975	-	782,525,436	206,324,146	470,590,325	-	-	10,108	9,540,157	
27				Non-standard consumer totals	379	1,281,745		134,989	-	1,041,278,962	-	-	-	-	131,683	-	
28				Total for all consumers	167,815	2,733,953		59,548,964	-	1,823,804,398	206,324,146	470,590,325	-	-	141,791	9,540,157	
29																	
30																	

													Company Name			Powerco	o Limited		
													For Year Ended			31 Mai	rch 2021		
												Network / Su	-Network Name			Easterr	n Region		
SCH	EDULE 8	: REPORT ON BILLED	QUANTITIES AND LIN	IE CHARGE REVENUES	<b>)</b>														
This so	hed ule requir	resthe billed quantities and asso	ciated line charge revenues for eac	h price category code used by the	EDB in its pricing schedules.	Information is also require	d on the number of ICPs that	ine included in each	consumergroup or price cate	gory code, and the e	n ergy de live red to t	hese IC Ps.							
31	8(ii): Li	ine Charge Revenues (\$	000) by Price Componen	t															
32																			
33										Line charge reven	ues (\$000) by price	component							
									Price compone	ent Fixed	Fixed	Variable (Anytime	Variable	Variable	Demand	Demand	Power Factor	Fixed	
24													(Peak)	(On-Peak)					
~											1	1					1	+	Add extra columns
						Notional revenue	Total distribu	Total transmis	sion Rate (eg. S per day, S r	er									for additional line
		Consumer group name or pric	e Consumer type or types (eg,	Standard or non-standard	Total line charge revenue	foregone from posted	line charg	revenue (i	kWh, e	ICP Days	kVA of Capacity	kWh	kWh	kWh	kW of AMD	kW of OPD	kVArh	Fixture Count Days	charge revenues
35		category code	residential, commercial etc.)	consumer group (specify)	in disclosure year	discounts (if applicable)	revenue	available											component as
36																			necessary
37		T01, T02, V01, V02	Streetlights/Unmetered	Standard	\$1,680		\$1	078	602	-	-	\$219	-	-	-	-	-	\$1,460	
38		T05, T06, V05, V06	Residential/Small Commercial	Standard	\$124,356		\$83	887 \$36	469	\$31,965	5 –	\$40,436	\$29,096	\$22,859	-	-	-	-	
39		T22, T28, V22, V28	Commercial	Standard	\$15,868		\$12	430 \$3	437	\$6,018	- 3	\$9,779	-	-	-	-	\$71	-	
40		T43	Large Commercial	Standard	-			-		-	-	-	-	-	-	-	-	-	
41		V40, T50, T60, V60	XLarge Commercial/Industrial	Non-standard	\$38,340		\$20	696 \$17	644	\$37,418	в —	-	-	-	-	-	\$922	-	
42			0	0	-			-		-	-	-	-	-	-	-	-	-	
43			0		-			-	-	-	-	-	-	-	-	-	-		
45				0	-					-	1 -	-	-	_		_	1 -	-	
46			0	0	- 0			-	-	-	-	-	-	-	-	-	-	-	
47		Add extra rows for additional co	nsumer groups or price category o	odes as necessary	+		· ·			-							+		1
48				Standard consumer total	s \$141,903	-	\$10:	395 \$40	508	\$37,983	3 –	\$50,434	\$29,096	\$22,859	-	-	\$71	\$1,460	
49				Non-standard consumer total	s \$38,340	-	\$20	696 \$17	644	\$37,418	в –	-	-	-	-	-	\$922	-	
50				Total for all consumer	s \$180,243	-	\$123	091 \$58	151	\$75,401	- 1	\$50,434	\$29,096	\$22,859		-	\$993	\$1,460	
51									<u></u>										
52	8(iii): N	Number of ICPs directly	billed					heck	ОК										
53		Number of directly billed ICPs	at year end	8					<u> </u>										

Company Name	Powerco Limited
For Year Ended	31 March 2022
Network / Sub-network Name	Powerco Limited

# SCHEDULE 9a: ASSET REGISTER

sch ref

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.

9     All     Overhead line     Concrete piles / pite fixed function     No.     230001     231001     231001       12     All     Overhead line     Other pole types     No.     3.202     3.465     (158)       12     IV     Subtransition func     Subtransition function     Subtransition function     3.202     3.465     (212)       13     IV     Subtransition function     Subtransition function     Subtransition function     2.201     2.211       14     IV     Subtransition function     Subtransition function     IV     2.221     2.211       15     IV     Subtransition function     Subtransition function     IV     1.211        16     IV     Subtransition function     Subtransition function     IV     IV        17     IV     Subtransition function     Subtransition function     IV     IV        18     Subtransition function     Subtransition function     Subtransition function     IV     IV        19     IV     Subtransition function     Subtransition function     Subtransition function     IV     IV     IV       20     IV     Subtransition function     Subtransition function     IV     IV     IV     IV     IV	Data accuracy ge (1–4)
10     All     Overhad line     Wood poles     Other pole types       12     All     Overhad line     Subtrannision Of Jung to GAV conductor     Image 1.20     3.20.3     3.40.5     5.20.1       12     IV     Subtrannision Of Jung to GAV conductor     Image 1.20.1	<mark>,561</mark> 4
11     Ali     Overhead line     Other pole types     No.     3.202     3.405     (SB)       12     HV     Subtransmission line     Subtransmission QH 11/W conductor     Im          12     HV     Subtransmission Cabe     Subtransmission Gabe     Subtransmission Cabe     Subtransmission Cabe     Subtransmission Cabe     Subtransmission Cabe         14     HV     Subtransmission Cabe     Subtransmission Cabe     Subtransmission Cabe         15     HV     Subtransmission Cabe     Subtransmission Cabe     Subtransmission Cabe         16     HV     Subtransmission Cabe     Subtransmission Cabe     Subtransmission Cabe         17     HV     Subtransmission Cabe     Subtransmission Cabe     Subtransmission Cabe         18     HV     Subtransmission Cabe     Subtransmission Cabe     Subtransmission Cabe         19     HV     Subtransmission Cabe     Subtransmission Cabe     Subtransmission Cabe        10     HV     Subtransmission Cabe     Subtransmission Cabe     Subtransmission Cabe        10     HV     Subtransmission Cabe     Subtransmision Cabe     Subt	<mark>,265)</mark> 3
21     PMV     Subtransission Line     Subtransission Oli up to GAV conductor     Im	(58) 2
13     Not     Subtransistion Curie     Subtransistion Curie <td>12 4</td>	12 4
14     MoV     Subtransission Cable     Subtransission Cable <td>- 4</td>	- 4
51         Not         Subtransistion Cubic         Subtransis         Subtransistion C	21 3
19     NV     Subtramission Cable     Subtramission Usion tyo fos KV (NC)     Im     Im     Imit	0 4
17         N/V         Subtransmission Cable         Subtransubtransubtransmitte         Subtransmission Cable	- 4
19     MV     Subtransission Cable	(0) 4
19     N/Y     Subtransission Cable     Subtransission Submarice Cable     No     Ca     Ca     Ca       21     HV     Subtransission Cable     Subtransission Submarice Cable     No     Ca     Ca     Ca       23     HV     Cane substation Subfage     Subtransission Sub to 6k/V     No     Ca     Ca     Ca       24     HV     Cane substation Subfage     Stofk/110k/C (Undoor)     No     Ca     Ca     Ca       25     HV     Cane substation subfage     Stofk/110k/C (Gudoor)     No     Ca     Ca     Ca       26     HV     Cane substation subfage     Stofk/110k/C (Gudoor)     No     Ca     Ca     Ca       27     HV     Cane substation subfage     Stofk/112k/C (Gudoor)     No     Ca     Ca     Ca       28     HV     Cane substation subfage     Stofk/112k/C (Gudoor)     No     Ca     Ca     Ca       29     HV     Cane substation subfage     Stofk/112k/C (Gudoor)     N	- 4
20     NV     Subtransission Cable     Subtransission OL 110V+ (RGA Pressurised)     Im          21     NV     Subtransission Cable     Subtransission submarine cable     Im         23     NV     Zone substation Sublings     Zone Substation Subtrage     Subtransingsion Cable     Im     Zone Substation Subtrage     Subtransingsion Cable     Im     Zone Substation Subtrage     Subtransingsion Cable     Im     Zone Substation Subtrage     Zone Substation Subtrage     Subtransingsion Cable     Zone Substation Subtrage     Zone Substation Subtrage<	- 4
21         HV         Subtrammision Cable         Subtrammision Windley (PIC)         Im         I	- 4
22     HV     Subtramission Cable     June     Ju	- 4
23       HV       Zone substation Buildings       Zone substation surtchegar       Solve/s1DAVC 8 (Indoor)       No       1       1       1         24       HV       Zone substation surtchegar       Solve/s1DAVC 8 (Indoor)       No       1<	- 4
24HVZone substation studingsZone Substation studingsZONEZ	(6) 2
14V         Zone substation switchgear         S0/66/110V C8 (Indoor)         No.              26         HV         Zone substation switchgear         314V Switch (Found Mounted)         No.         10         11         11           27         HV         Zone substation switchgear         314V Switch (Fole Mounted)         No.         12         2.007         (15)           28         HV         Zone substation switchgear         22/34V CB (Indoor)         No.         11         2.0         1.0           29         HV         Zone substation switchgear         22/34V CB (Indoor)         No.         183         1.07         36.0           21         HV         Zone substation switchgear         23/6.6/11/22V CB (ground mounted)         No.         183         1.07         36.0           21         HV         Zone substation Transformer         Zone Substation Transformer         No.         141         41            24         HV         Distribution Une         Distribution Conductor         Km         1.0         0.0         2.0         2.0         1.0         1.0         1.0         0.0         1.0         1.0         0.0         1.0         1.0         1.0         1.0	- 4
26         HV         Zone substation switchgear         S0/66/110kV CB (Outdoor)         No.         19         115         (1)           27         HV         Zone substation switchgear         31kV Switch (Fold Mounted)         No.         30         41         11           28         HV         Zone substation switchgear         31kV Switch (Fold Mounted)         No.         12         2         11           29         HV         Zone substation switchgear         22/38kV CB (Outdoor)         No.         141         177         36           30         HV         Zone substation switchgear         22/38kV CB (Outdoor)         No.         163         177         (5)           31         HV         Zone substation switchgear         33/6/5/11/22kV CB (pound mounted)         No.         850         920         70           31         HV         Zone substation switchgear         33/6/5/11/22kV CB (pound mounted)         No.         14.0         41         4         -           34         HV         Zone substation switchgear         33/6/5/11/22kV CB (pound mounted)         No.         11.0         0         -         -         -         -         -         -         -         -         -         -         -	- 4
27       HV       Zone substation switchgear       33kV Switch (Pole Mounted)       No.       30       41       11         28       HV       Zone substation switchgear       33kV Switch (Pole Mounted)       No.       1622       807       (15)         29       HV       Zone substation switchgear       23/3kV CB (Indoor)       No.       1       2       1         30       HV       Zone substation switchgear       22/3kV CB (Indoor)       No.       183       178       (6)         31       HV       Zone substation switchgear       33/6.6/11/22kV CB (ground mounted)       No.       183       178       (6)         31       HV       Zone substation switchgear       33/6.6/11/22kV CB (ground mounted)       No.       41       44       -         32       HV       Zone substation Transformer       Zone Substation Transformer       No.       216       215       (11)         34       HV       Distribution Line       Distribution OH Open Wire Conductor       km       14.6697       14.661       (36)         35       HV       Distribution Cable       Distribution UG XLP or PVC       km       1.861       2.059       78         36       HV       Distribution Submarine Cable       km	(1) 4
28         HV         Zone substation switchgear         33kV Switch (Pole Mounted)         No.         822         807         (1)           29         HV         Zone substation switchgear         33kV RMU         No.         1         2         1           31         HV         Zone substation switchgear         2/33kV CB (Jourdon)         No.         141         177         36.           31         HV         Zone substation switchgear         3/3/6/11/2kV CB (ground mounted)         No.         4850         9200         70           32         HV         Zone substation switchgear         3/3/6/11/2kV CB (ground mounted)         No.         411         41            34         HV         Zone substation Transformer         Zone Substation Transformers         No.         416         41         41	11 2
29         HV         Zone substation switchgear         33kV RMU         No.         1         2         1           30         HV         Zone substation switchgear         22/33kV CB (ludoor)         No.         141         177         36           31         HV         Zone substation switchgear         23/3kV CB (loutoor)         No.         141         177         36           32         HV         Zone substation switchgear         33/6.6/11/22kV CB (ground mounted)         No.         41         41            34         HV         Zone substation Transformer         Zone Substation Transformer         Xon         216         225         (1)           35         HV         Distribution Line         Distribution OH pen Wire Conductor         Km         14.661         (36)           36         HV         Distribution Line         Distribution UG PLC         Km         1.981         2.059         78           37         HV         Distribution Cable         Distribution Submarine Cable         Km         11         11         0           41         HV         Distribution Switchgear         33/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers         No.         4.78         4.79         4.21         4	(15) 4
30         HV         Zone substation switchgear         22/33kV CB (Indoor)         No.         141         177         36           31         HV         Zone substation switchgear         23/3kV CB (Outdoor)         No.         183         178         (5)           32         HV         Zone substation switchgear         33/6.6/11/22kV CB (groun mounted)         No.         800         920         70           33         HV         Zone substation switchgear         33/6.6/11/22kV CB (pole mounted)         No.         411         41            34         HV         Zone Substation Transformer         Zone Substation Transformer         Zone Substation Transformer         No.         216         215         (1)           35         HV         Distribution Line         Distribution OH Open Wire Conductor         km              36         HV         Distribution Cable         Distribution UG XLPE or PVC         km         1931         122         (21)           37         HV         Distribution Cable         Distribution Switchgear         33/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers         No.         421         409         1(12)           47         HV         Distribution switchgear	1 4
31       HV       Zone substation switchgear       22/38V CB (Outdoor)       No.       183       178       (5)         32       HV       Zone substation switchgear       3.3/6.6/11/224V CB (ground mounted)       No.       850       920       70         33       HV       Zone substation switchgear       3.3/6.6/11/224V CB (ground mounted)       No.       411       41        1         34       HV       Zone substation Transformer       Zone Substation Transformer       Zone Substation Transformer       Xone       141.697       141.661       (16)         35       HV       Distribution line       Distribution OH Aerial Cable Conductor       km       1.4697       14.661       (36)         36       HV       Distribution Cable       Distribution UG RLF or PVC       km       1.981       2.059       7.8         37       HV       Distribution Submarine Cable       km       111       111       0       0         41       HV       Distribution switchgear       3.3/6.6/11/224V CB (pole mounted) - reclosers and sectionalisers       No.       421       409       4(12)         42       HV       Distribution switchgear       3.3/6.6/11/224V CB (pole mounted) - except RMU       No.       2.770       3.130       36	36 3
32         HV         Zone substation switchgear         3.3/6.6/11/22kV C8 (ground mounted)         No.         850         920         70           33         HV         Zone substation switchgear         3.3/6.6/11/22kV C8 (pole mounted)         No.         4.1         4.4	(5) 3
33HVZone substation switchgear3.3/6.6/11/22kV CB (pole mounted)No.4.14.134HVZone Substation TransformerZone Substation TransformersNo.2.162.215(1)35HVDistribution LineDistribution OH Open Wire Conductorkm14.60714.661(36)35HVDistribution LineDistribution OH open Wire Conductorkm37HVDistribution LineSWER conductorkm1.9812.0597839HVDistribution CableDistribution UG XIPE or PVCkm1.9812.0597841HVDistribution CableDistribution UG PILCkm1.11.1041HVDistribution Switchgear3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisersNo.78980041.542HVDistribution switchgear3.3/6.6/11/22kV CB (pole mounted) - except RMUNo.4.214.09(12)43HVDistribution switchgear3.3/6.6/11/22kV CB (pole mounted) - except RMUNo.1.7361.429(307)44HVDistribution switchgear3.3/6.6/11/22kV SWitch (group mounted) - except RMUNo.1.7361.429(307)45HVDistribution switchgear3.3/6.6/11/22kV SWitch (group mounted) - except RMUNo.1.7361.429(307)46HVDistribution TransformerPole Mounted TransformerNo.9.9.932.2291.83 <td>70 3</td>	70 3
34HVZone Substation TransformerZone Substation TransformersNo.2162115(1)35HVDistribution LineDistribution OH Open Wire Conductorkm14,69714,661(36)36HVDistribution LineDistribution OH Aerial Cable Conductorkm37HVDistribution LineSWE conductorkm79921438HVDistribution CableDistribution UG XLPE or PVCkm1,9812,0597839HVDistribution CableDistribution Submarine Cablekm1111041HVDistribution switchgear3,3/6,6/11/22kV CB (pole mounted) - reclosers and sectionalisersNo.421409(12)42HVDistribution switchgear3,3/6,6/11/22kV CB (indoor)No.421409(12)43HVDistribution switchgear3,3/6,6/11/22kV Switch (ground mounted) - except RMUNo.1,7361,429(307)44HVDistribution switchgear3,3/6,6/11/22kV Switch (ground mounted) - except RMUNo.1,7361,429(307)45HVDistribution TransformerPole Mounted TransformerNo.2,7703,13036046HVDistribution TransformerVoltage regulatorsNo.1,331,37447HVDistribution SubstationsGround Mounted TransformerNo.4,0393,783(256)48HVDistribution Tran	- 3
35HVDistribution LineDistribution OH Open Wire Conductorkm14,69714,661(36)36HVDistribution LineDistribution OH Aerial Cable Conductorkm37HVDistribution LineSWER conductorkm799.21438HVDistribution CableDistribution UG XLPE or PVCkm1.9812.0597839HVDistribution CableDistribution UG XLPE or PVCkm1.9131.022(21)40HVDistribution CableDistribution UG PLCkm1.111.1041HVDistribution switchgear3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisersNo.4214094.04942HVDistribution switchgear3.3/6.6/11/22kV CB (pole mounted) - except RMUNo.4.0494.04958644HVDistribution switchgear3.3/6.6/11/22kV Switch (ground mounted) - except RMUNo.1.7261.4294.030745HVDistribution TransformerPole Mounted TransformerNo.2.7703.1303602.2292.2948HVDistribution TransformerVoltAge regulatorsNo.1.331.377449HVDistribution TransformerNo.4.0393.7631.2242.22948HVDistribution TransformerNo.4.0393.7631.22449LVV Ustreet lightingGround Mounte	(1) 3
36HVDistribution LineDistribution OH Aerial Cable Conductorkm37HVDistribution LineSWER conductorkm799.21.438HVDistribution CableDistribution UG XLPE or PVCkm1.9812.0597.839HVDistribution CableDistribution UG XLPE or PVCkm1.9311.029(21)40HVDistribution CableDistribution Submarine Cablekm1.11.1041HVDistribution switchgear3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisersNo.7.898.041.542HVDistribution switchgear3.3/6.6/11/22kV CB (Indoor)No.4.214.099(12)43HVDistribution switchgear3.3/6.6/11/22kV SWitches and fuses (pole mounted)No.3.9,91040.4965.8644HVDistribution switchgear3.3/6.6/11/22kV SWitches and fuses (pole mounted)No.1.7731.429(307)45HVDistribution switchgear3.3/6.6/11/22kV SWitche group and mounted) - except RMUNo.2.7703.1303.6046HVDistribution TransformerPole Mounted TransformerNo.9.0959.3242.22947HVDistribution TransformerVoltage regulatorsNo.1.331.37449HVDistribution SubstationsGround Mounted TransformerNo.9.0959.3242.229	(36) 4
37HVDistribution LineSWER conductorkm79921438HVDistribution CableDistribution UG XLPE or PVCkm1.9812.0597.839HVDistribution CableDistribution UG PLCkm1.9931.72(21)40HVDistribution CableDistribution Sumarine Cablekm1111041HVDistribution switchgear3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisersNo.421409(12)43HVDistribution switchgear3.3/6.6/11/22kV CB (indoor)No.421409(12)44HVDistribution switchgear3.3/6.6/11/22kV CB (indoor)No.3.9,91040.4965.8644HVDistribution switchgear3.3/6.6/11/22kV RMUNo.2.7703.1303.6045HVDistribution switchgear3.3/6.6/11/22kV RMUNo.2.7782.7,649(138)46HVDistribution TransformerPole Mounted TransformerNo.9.93242.2913947HVDistribution TransformerVoltage regulatorsNo.4.0393.7,783(256)50LVLV LineLV OH Conductorkm3.3,635,49313913951LVLV CableLV OH Conductorkm3.3,635,49313952LVLV Street lightingLV OH/OG Streetlight circuitkm3.4,633,0672.453 <td>- 4</td>	- 4
38HVDistribution CableDistribution UG XLPE or PVCkm1.9812.0597839HVDistribution CableDistribution UG PILCkm11931.72(21)40HVDistribution CableDistribution Submarine Cablekm1.111.11041HVDistribution switchgear3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisersNo.7898.041.1542HVDistribution switchgear3.3/6.6/11/22kV CB (indoor)No.4.214.09(12)43HVDistribution switchgear3.3/6.6/11/22kV SU (indoor)No.3.9.9040.4965.8644HVDistribution switchgear3.3/6.6/11/22kV SW (indoor)No.1.17361.429(307)45HVDistribution switchgear3.3/6.6/11/22kV SW (indoor)No.2.7703.1303.6046HVDistribution TransformerPole Mounted TransformerNo.2.7703.1303.6047HVDistribution TransformerPole Mounted TransformerNo.2.77372.7.649(138)48HVDistribution TransformerVoltage regulatorsNo.1.131.37449HVDistribution SubstationsGround Mounted Substation HousingNo.4.0393.783(256)50LVLV LineLV Ochoductorkm3.0433.0672.4251LVLV cableLV Gablekm3.043<	14 4
39HVDistribution CableDistribution UG PILCkm193172(21)40HVDistribution CableDistribution Submarine Cablekm1111041HVDistribution switchgear3.3/6.6/11/22kV C8 (pole mounted) - reclosers and sectionalisersNo.789880411542HVDistribution switchgear3.3/6.6/11/22kV C8 (pole mounted) - reclosers and sectionalisersNo.421409(12)43HVDistribution switchgear3.3/6.6/11/22kV Switches and fuses (pole mounted) - except RMUNo.1.7361.429(307)44HVDistribution switchgear3.3/6.6/11/22kV Switches and fuses (pole mounted) - except RMUNo.2.7703.13036044HVDistribution switchgear3.3/6.6/11/22kV Switch (ground mounted) - except RMUNo.2.7703.13036045HVDistribution TransformerPole Mounted TransformerNo.2.77872.7.649(138)46HVDistribution TransformerGround Mounted TransformerNo.9.0959.324229447HVDistribution TransformerGround Mounted Substation HousingNo.4.0393.783(256)50LVLV LineLV OCableLV OG Cablekm4.4524.6662.1451LVLV CableLV UG Cablekm3.0433.0672.452LVLV Street lightingLV UG Cablekm3.0433.067 <t< td=""><td>78 3</td></t<>	78 3
40HVDistribution CableDistribution Submarine Cablekm11111041HVDistribution switchgear3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisersNo.78980411542HVDistribution switchgear3.3/6.6/11/22kV CB (Indoor)No.421409(12)43HVDistribution switchgear3.3/6.6/11/22kV Switches and fuses (pole mounted)No.39.91040.49658644HVDistribution switchgear3.3/6.6/11/22kV Switch (ground mounted) - except RMUNo.1.7361.429(307)45HVDistribution switchgear3.3/6.6/11/22kV Switch (ground mounted) - except RMUNo.2.7703.13036046HVDistribution switchgear3.3/6.6/11/22kV RMUNo.2.7703.13036047HVDistribution TransformerPole Mounted TransformerNo.27.78727.649(138)48HVDistribution TransformerGround Mounted TransformerNo.9.0959.32422248HVDistribution SubstationsGround Mounted Substation HousingNo.4.0393.783(256)50LVLV LineLV OH Conductorkm5.3535.49313913951LVLV CableLV OG CableLV OH/UG Streetlight circuitm3.0433.0672.452LVLV Street lightingU/H/UG Screetlight circuitm3.2452.6602.14 <td>(21) 3</td>	(21) 3
41HVDistribution switchgear3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisersNo.78980411542HVDistribution switchgear3.3/6.6/11/22kV CB (Indoor)No.421409(12)43HVDistribution switchgear3.3/6.6/11/22kV Switches and fuses (pole mounted)No.39.91040.949658644HVDistribution switchgear3.3/6.6/11/22kV Switch (ground mounted) - except RMUNo.1.7361.429(307)45HVDistribution switchgear3.3/6.6/11/22kV Switch (ground mounted) - except RMUNo.2.7703.13036046HVDistribution TransformerPole Mounted TransformerNo.2.778727.649(138)47HVDistribution TransformerGround Mounted TransformerNo.9.0959.3242.2948HVDistribution TransformerVoltage regulatorsNo.1.331.37449HVDistribution SubstationsGround Mounted Substation HousingNo.4.0393.783(256)50LVLV LineLV OH Conductorkm5.3535.4931.391.3951LVLV cableLV OH Conductorkm3.0433.0672.4452LVLV Street lightingLV OH/UG Screetlight circuitkm3.0433.0672.4453LVConnectionsOH/UG Consumer service connectionsNo.2.24572.6201.616354	0 4
42HVDistribution switchgear3.3/6.6/11/22kV CB (Indoor)No.421409(12)43HVDistribution switchgear3.3/6.6/11/22kV Switches and fuses (pole mounted)No.39.91040.49658644HVDistribution switchgear3.3/6.6/11/22kV Switch (ground mounted) - except RMUNo.1.7361.429(307)45HVDistribution switchgear3.3/6.6/11/22kV RMUNo.2.7703.13036046HVDistribution TransformerPole Mounted TransformerNo.2.778727,649(138)47HVDistribution TransformerGround Mounted TransformerNo.9.0959.32422948HVDistribution TransformerVoltage regulatorsNo.1.131.137449HVDistribution SubstationsGround Mounted Substation HousingNo.4.0393.783(256)50LVLV LiveLV OH Conductorkm5.3535.4991.3951LVLV CableLV OH Conductorkm3.0433.0672.4452LVLV Street lightingLV OH/UG Streetlight circuitkm3.0433.0672.4453LVConnectionsOH/UG Consumer service connectionsNo.2.24572.62016354AllProtectionProtection relays (electromechanical, solid state and numeric)No.2.4572.62016355AllSCADA and communicationsSCADA and c	15 3
43HVDistribution switchgear3.3/6.6/11/22kV Switches and fuses (pole mounted)No.39.91040.49658644HVDistribution switchgear3.3/6.6/11/22kV Switch (ground mounted) - except RMUNo.1,7361,429(307)45HVDistribution switchgear3.3/6.6/11/22kV Switch (ground mounted) - except RMUNo.2,7703.13036046HVDistribution TransformerPole Mounted TransformerNo.2,7703.13036047HVDistribution TransformerGround Mounted TransformerNo.9,0959,32422948HVDistribution TransformerVoltage regulatorsNo.1133137449HVDistribution SubstationsGround Mounted Substation HousingNo.4,0393,783(256)50LVLV LivineLV OH Conductorkm5,5535,49313913951LVLV CableLU OG Cablekm4,4524,66621452LVLV Street lightingLV OH/UG Streetlight circuitkm3,0433,0672453LVConnectionsOH/UG consumer service connectionsNo.2,247354,10661,63454AllProtectionProtection relays (electromechanical, solid state and numeric)No.2,4572,62016354AllSCADA and communications equipment operating as a single systemLot11-56AllGapacitor	(12) 3
44HVDistribution switchgear3.3/6.6/11/22kV Switch (ground mounted) - except RMUNo.1.7361.429(307)45HVDistribution switchgear3.3/6.6/11/22kV RMUNo.2.7703.13036046HVDistribution TransformerPole Mounted TransformerNo.2.778727.649(138)47HVDistribution TransformerGround Mounted TransformerNo.9.0959.32422948HVDistribution TransformerVoltage regulatorsNo.1.331.37449HVDistribution SubstationsGround Mounted Substation HousingNo.4.0393.783(256)50LVLV LineLV OH Conductorkm5.3535.4931.395151LVLV CableLV UG Cablekm4.4524.6662.1452LVLV Street lightingLV OH/UG Streetlight circuitkm3.0433.0672.453LVConnectionsOH/UG consumer service connectionsNo.2.92,472354,10661,63454AllProtectionProtection relays (electromechanical, solid state and numeric)No.2.4572.62016355AllSCADA and communicationsSCADA and communications equipment operating as a single systemLot11-56AllGapacitor BanksGapacitors including controlsNo515151-	586 3
45HVDistribution switchgear3.3/6.6/11/22kV RMUNo.2.7703.1303.6046HVDistribution TransformerPole Mounted TransformerNo.27,78727,649(138)47HVDistribution TransformerGround Mounted TransformerNo.9,0959,32422948HVDistribution TransformerVoltage regulatorsNo.1133137449HVDistribution SubstationsGround Mounted Substation HousingNo.4,0393,783(256)50LVLV LV cableLV OH Conductorkm5,3535,493139551LVLV CableLV OH Conductorkm3,0433,0672452LVLV Street lightingLV OH/UG Streetlight circuitkm3,0433,0672453LVConnectionsOH/UG consumer service connectionsNo.229,2472354,10661,63454AllProtectionProtection relays (electromechanical, solid state and numeric)No.2,4572,62016355AllSCADA and communications equipment operating as a single systemLot11-56AllCapacitor BanksCapacitors including controlsNo.5151-	(307) 2
46HVDistribution TransformerPole Mounted TransformerNo.27,78727,649(138)47HVDistribution TransformerGround Mounted TransformerNo.9,0959,32422948HVDistribution TransformerVoltage regulatorsNo.133133449HVDistribution SubstationsGround Mounted Substation HousingNo.4,0393,783(256)50LVLV LineLV OH Conductorkm5,3535,493139351LVLV CableLV G Gablekm4,4524,66621452LVLV Street lightingLV OH/UG Streetlight circuitkm3,0433,06722453LVConnectionsOH/UG Consumer service connectionsNo.292,472354,10661,63454AllProtectionProtection relays (electromechanical, solid state and numeric)No.2,4572,62016355AllSCADA and communicationsSCADA and communications equipment operating as a single systemLot1156AllCapacitor BanksCapacitors including controlsNo.5151	360 2
47HVDistribution TransformerGround Mounted TransformerNo.9,0959,32422948HVDistribution TransformerVoltage regulatorsNo.133137449HVDistribution SubstationsGround Mounted Substation HousingNo.4,0393,783(256)50LVLV LineLV OH Conductorkm5,3535,493139551LVLV CableLV OH Conductorkm4,4524,66621452LVLV Street lightingLV OH/UG Streetlight circuitkm3,0433,06724453LVConnectionsOH/UG Consumer service connectionsNo.292,472354,106661,63454AllProtectionProtection relays (electromechanical, solid state and numeric)No.2,4572,62016355AllSCADA and communicationsSCADA and communications equipment operating as a single systemLot1156AllCapacitor BanksCapacitor rincluding controlsNo.5515151	(138) 3
48       HV       Distribution Transformer       Voltage regulators       No.       133       137       4         49       HV       Distribution Substations       Ground Mounted Substation Housing       No.       4,039       3,783       (226)         50       LV       LV Line       LV OH Conductor       km       5,353       5,493       139         51       LV       LV Cable       LV OH Conductor       km       4,452       4,666       214         52       LV       LV Cable       LV OG Cable       km       3,043       3,067       24         53       LV       Connections       OH/UG Streetight circuit       km       3,043       3,067       24         54       All       Protection       Protection relays (electromechanical, solid state and numeric)       No.       22,457       2,620       163         55       All       SCADA and communications       SCADA and communications equipment operating as a single system       Lot       1       1          56       All       Capacitor Banks       Capacitors including controls       No       551       51       51       51	229 3
49HVDistribution SubstationsGround Mounted Substation HousingNo.4,0393,783(256)50LVLV LineLV OH Conductorkm5,3535,49313951LVLV CableLV OG Cablekm4,4524,66621452LVLV Street lightingLV OH/UG Streetlight circuitkm3,0433,0672453LVConcertionsOH/UG consumer service connectionsNo.292,472354,10661,63454AllProtectionProtection relays (electromechanical, solid state and numeric)No.2,4572,62016355AllSCADA and communicationsSCADA and communications equipment operating as a single systemLot1156AllCapacitor BanksCapacitors including controlsNo515151	4 3
50LVLV LineLV OH Conductorkm5,3535,49313951LVLV CableLV UG Cablekm4,4524,66621452LVLV Street lightingLV OH/UG Streetlight circuitkm3,0433,0672453LVConnectionsOH/UG consumer service connectionsNo.292,472354,10661,63454AllProtectionProtection relays (electromechanical, solid state and numeric)No.2,4572,62016355AllSCADA and communications equipment operating as a single systemLot1156AllCapacitor BanksCapacitors including controlsNo5151	(256) 2
51LVLV CableLV UG Cablekm4,4524,66621452LVLV Street lightingLV OH/UG Streetlight circuitkm3,0433,0672453LVConnectionsOH/UG consumer service connectionsNo.292,472354,10661,63454AllProtectionProtection relays (electromechanical, solid state and numeric)No.2,4572,62016355AllSCADA and communicationsSCADA and communications equipment operating as a single systemLot1156AllCapacitor BanksCapacitors including controlsNo5151	139 3
52       LV       LV Street lighting       LV OH/UG Streetlight circuit       km       3,043       3,067       24         53       LV       Connections       OH/UG consumer service connections       No.       292,472       354,106       61,634         54       All       Protection       Protection relays (electromechanical, solid state and numeric)       No.       2,457       2,620       163         55       All       SCADA and communications       SCADA and communications equipment operating as a single system       Lot       1       1          56       All       Capacitor Banks       Capacitorrig controls       No       51       51	214 3
53       LV       Connections       No.       292,472       354,106       61,634         54       All       Protection       Protection relays (electromechanical, solid state and numeric)       No.       2,457       2,620       163         55       All       SCADA and communications       SCADA and communications equipment operating as a single system       Lot       1       1          56       All       Capacitor Banks       Capacitors including controls       No       551       51       51	24 2
54     All     Protection     Protection relays (electromechanical, solid state and numeric)     No.     2,457     2,620     163       55     All     SCADA and communications     SCADA and communications equipment operating as a single system     Lot     1     1     -       56     All     Capacitor Banks     Capacitors including controls     No     51     51     -	,634 2
55       All       SCADA and communications       SCADA and communications equipment operating as a single system       Lot       1       1       -         56       All       Capacitor Banks       Capacitors including controls       No       51       51       -	163 3
56         All         Capacitor Banks         Capacitors including controls         No         51         51         –	- 4
	- 4
5/ All Load Control Centralised plant Lot 36 36 –	- 4
58         All         Load Control         Relays         No         3,440         3,907         467	467 2
59         All         Civils         Cable Tunnels         km         –          /         />	- 4

Company Name	Powerco Limited
For Year Ended	31 March 2022
Network / Sub-network Name	Western Region

# SCHEDULE 9a: ASSET REGISTER

sch ref

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.

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.	148,142	149,201	1,059	4
10	All	Overhead Line	Wood poles	No.	27,055	26,003	(1,052)	3
11	All	Overhead Line	Other pole types	No.	1,277	1,271	(6)	2
12	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	952	963	11	4
13	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km	-	-	-	4
14	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km	86	103	18	3
15	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km	13	13	0	4
16	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressurised)	km	-	-	-	4
17	HV	Subtransmission Cable	Subtransmission UG up to 66kV (PILC)	km	1	1	(0)	4
18	HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	km	-	-	-	4
19	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Oil pressurised)	km	-	-	-	4
20	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Gas Pressurised)	km	-	-	-	4
21	HV	Subtransmission Cable	Subtransmission UG 110kV+ (PILC)	km	-	-	-	4
22	HV	Subtransmission Cable	Subtransmission submarine cable	km	-	-	-	4
23	HV	Zone substation Buildings	Zone substations up to 66kV	No.	85	83	(2)	2
24	HV	Zone substation Buildings	Zone substations 110kV+	No.	-	-	-	4
25	HV	Zone substation switchgear	50/66/110kV CB (Indoor)	No.	-	-	-	4
26	HV	Zone substation switchgear	50/66/110kV CB (Outdoor)	No.	-	-	-	4
27	HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No.	19	24	5	2
28	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.	531	519	(12)	4
29	HV	Zone substation switchgear	33kV RMU	No.	1	2	1	4
30	HV	Zone substation switchgear	22/33kV CB (Indoor)	No.	68	82	14	3
31	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.	106	103	(3)	3
32	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.	471	500	29	3
33	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.	41	41	-	3
34	HV	Zone Substation Transformer	Zone Substation Transformers	No.	129	126	(3)	3
35	HV	Distribution Line	Distribution OH Open Wire Conductor	km	10,068	10,056	(12)	4
36	HV	Distribution Line	Distribution OH Aerial Cable Conductor	km	-	-	-	4
37	HV	Distribution Line	SWER conductor	km	17	23	6	4
38	HV	Distribution Cable	Distribution UG XLPE or PVC	km	685	723	38	3
39	HV	Distribution Cable	Distribution UG PILC	km	95	73	(22)	3
40	HV	Distribution Cable	Distribution Submarine Cable	km	-	-	-	4
41	HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers	No.	453	463	10	3
42	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.	279	270	(9)	3
43	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	24,514	24,886	372	3
44	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	829	678	(151)	2
45	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.	1,222	1,373	151	2
46	HV	Distribution Transformer	Pole Mounted Transformer	No.	18,912	18,683	(229)	3
47	HV	Distribution Transformer	Ground Mounted Transformer	No.	3,870	3,942	72	3
48	HV	Distribution Transformer	Voltage regulators	No.	76	79	3	3
49	HV	Distribution Substations	Ground Mounted Substation Housing	No.	1,604	1,485	(119)	2
50	LV	LV Line	LV OH Conductor	km	3,448	3,509	61	3
51	LV	LV Cable	LV UG Cable	km	2,334	2,477	143	3
52	LV	LV Street lighting	LV OH/UG Streetlight circuit	km	1,370	1,378	8	2
53	LV	Connections	OH/UG consumer service connections	No.	156,326	185,409	29,083	2
54	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.	1,264	1,289	25	3
55	All	SCADA and communications	SCADA and communications equipment operating as a single system	Lot	1	1	-	4
56	All	Capacitor Banks	Capacitors including controls	No	5	5	-	4
57	All	Load Control	Centralised plant	Lot	26	25	(1)	4
58	All	Load Control	Relays	No	1,619	1,675	56	2
59	All	Civils	Cable Tunnels	km	-	-	-	4

Company Name	Powerco Limited
For Year Ended	31 March 2022
Network / Sub-network Name	Eastern Region

# SCHEDULE 9a: ASSET REGISTER

sch ref

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.

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.	81,868	82,370	502	4
10	All	Overhead Line	Wood poles	No.	3,943	3,730	(213)	3
11	All	Overhead Line	Other pole types	No.	2,426	2,374	(52)	2
12	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	542	543	1	4
13	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km	-	-	-	4
14	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km	154	157	3	3
15	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km	-	-	-	4
16	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressurised)	km	-	-	-	4
17	HV	Subtransmission Cable	Subtransmission UG up to 66kV (PILC)	km	-	-	-	4
18	HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	km	-	-	-	4
19	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Oil pressurised)	km	-	-	-	4
20	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Gas Pressurised)	km	-	-	-	4
21	HV	Subtransmission Cable	Subtransmission UG 110kV+ (PILC)	km	-	-	-	4
22	HV	Subtransmission Cable	Subtransmission submarine cable	km	-	-	-	4
23	HV	Zone substation Buildings	Zone substations up to 66kV	No.	71	67	(4)	2
24	HV	Zone substation Buildings	Zone substations 110kV+	No.	-	-	-	4
25	HV	Zone substation switchgear	50/66/110kV CB (Indoor)	No.	-	-	-	4
26	HV	Zone substation switchgear	50/66/110kV CB (Outdoor)	No.	19	18	(1)	4
27	HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No.	11	17	6	2
28	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.	291	288	(3)	4
29	HV	Zone substation switchgear	33kV RMU	No.	-	-	-	4
30	HV	Zone substation switchgear	22/33kV CB (Indoor)	No.	73	95	22	3
31	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.	77	75	(2)	3
32	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.	379	420	41	3
33	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.	-	-	-	3
34	HV	Zone Substation Transformer	Zone Substation Transformers	No.	87	89	2	3
35	HV	Distribution Line	Distribution OH Open Wire Conductor	km	4,629	4,605	(24)	4
36	HV	Distribution Line	Distribution OH Aerial Cable Conductor	km	-	-	-	4
37	HV	Distribution Line	SWER conductor	km	61	69	7	4
38	HV	Distribution Cable	Distribution UG XLPE or PVC	km	1,296	1,336	40	3
39	HV	Distribution Cable	Distribution UG PILC	km	98	99	1	3
40	HV	Distribution Cable	Distribution Submarine Cable	km	11	11	0	4
41	HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers	No.	336	341	5	3
42	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.	142	139	(3)	3
43	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	15,396	15,610	214	3
44	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	907	751	(156)	2
45	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.	1,548	1,757	209	2
46	HV	Distribution Transformer	Pole Mounted Transformer	No.	8,875	8,966	91	3
47	HV	Distribution Transformer	Ground Mounted Transformer	No.	5,225	5,382	157	3
48	HV	Distribution Transformer	Voltage regulators	No.	57	58	1	3
49	HV	Distribution Substations	Ground Mounted Substation Housing	No.	2,435	2,298	(137)	2
50	LV	LV Line		km	1,905	1,983	78	3
51	LV	LV Cable	LV UG Cable	кm	2,118	2,189	/1	3
52	LV	Lv Street lighting		KM	1,673	1,689	16	2
53		Connections	On Jog consumer service connections	NO.	136,146	168,697	32,551	2
54	All	Frotection	Protection relays (electromechanical, solid state and numeric)	NO.	1,193	1,331	138	3
55	All	SCADA and communications	SCADA and communications equipment operating as a single system	LOT	1	1	-	4
50	All	Load Control	Captrolicod plant	NO	46	46	_	4
57		Load Control	Centraliseu pidfit Rolave	LOC	10	11	1	4
50		Civils	Cable Tuppels	km	1,821	2,232	411	2
39	All	CIVIIS	Cable Fulfillers	KIII	-	-	-	4

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																						Ne	etwork / Si	ub-network	Name						Power	.co Limite	ed					
SCHEDUL	E 9b: ASSET AGE PROFIL	E																																				
This schedule r	quires a summary of the age profile (ba	sed on year of installation) of the assets that make up the network, by	y asset cat	cegory and asset	class. All units re	elating to cab	ole and line a	assets, that	are expressed	I in km, refe	r to circuit	lengths.																										
ch ref																																						
8	Disclosure Year (year ended)	31 March 2022	1							Number of	assets at	disclosure	year end b	y installati	on date																							
																																		No. with	Items at	at No.	. with	
0 Volta	Arret category	Arrat dar	Unite	1	.940 1950	1960	1970	1980	1990	2000	2001	2002	2002	2004	2005	2006	2007	2009	2009	2010 20	11 2012	2012	2014	2015	2016 3	1017 201	e 201	0 202	202	1 20	022 20	122 21	2026	age	end of yes	ear def	efault Dat	a accuracy
10 All	Overhead Line	Concrete poles / steel structure	No.	22	730 4.42	0 29.849	53.554	48.367	26.499	3,350	3.129	2.078	2.320	1.882	1.797	1.831	2.158	2.398	2.821	2.548 2	.229 2.4	16 3.305	3.408	3,393	4.250	3.945 3.	545 4	443 4.1	28 4.6	607 2	2.029	-		120	231.5	571	-	3
11 All	Overhead Line	Wood poles	No.	27	34 68	6 4.829	7.187	6.842	7.438	408	257	375	418	300	234	142	191	96	70	90	34	3 3	2	4	-	1	10	-	10	25	7	-		10	29.7	733	-	3
12 All	Overhead Line	Other pole types	No.	-		4 37	2,716	53	93	21	70	37	40	46	89	70	31	29	22	7	10	2 9	3	2	1	-	4	15	4	31	67	-		137	3,64	545	-	2
13 HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	-	0 5	4 297	418	296	224	8	0	3	1	1	14	2	9	4	11	3	34	15 0	10	0	11	28	16	15	12	8	11	-		1	1,50	306	-	3
14 HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-		-	-	-	-		-	-		- N	J/A
15 HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km	-		0	19	8	21	7	1	6	1	1	1	2	9	2	7	7	22	7 5	1	12	3	25	29	19	35	2	1	-		9	26	.61	-	4
16 HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km	-		13	-	-	-	0	-	-	-	-	-	-	-	-	-	-		-	-	-	-		-		-	-	-	-		-	1	13	-	4
17 HV	Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressurised)	km			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-		-	-	-	-		-	-	_	- N	/A
18 HV	Subtransmission Cable	Subtransmission UG up to 66kV (PILC)	km	<u> </u>		0	0	0	0	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-		-	-	-				-	1	-	4
19 HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	8m			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-		-		-	-	-			+	+	4-	- N	/A
20 HV	Subtransmission Cable	Subtransmission ora 110kv+ (oil pressurised)	ALL I			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-		-		-	-		_				_	- N	18
22 HV	Subtransmission Cable	Subtransmission UG 110kV+ (Gas Pressurised)	km				-	-		-	-	-	-	-	_	-	-	-	-	-		-			-						_	<u> </u>			+	_		14
23 HV	Subtransmission Cable	Subtransmission submarine cable	km	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-		-			-	-	-		-	-		- N	4/4
24 HV	Zone substation Buildings	Zone substations up to 66kV	No.	-		2 5	14	12	13	-	-	-	-	1	24	2	5	1	1	1	3	2 3	3	1	3	-	1	-	2	3	8	-		40	15	150	-	2
25 HV	Zone substation Buildings	Zone substations 110kV+	No.	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-		-	-	-	-		-	-		- N	I/A
26 HV	Zone substation switchgear	50/66/110kV CB (Indoor)	No.	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-		-	-	-	-		-	-/		- N	i/A
27 HV	Zone substation switchgear	50/66/110kV CB (Outdoor)	No.	-		-	2	4	1	-	-	-	-	-	-	1	6	-	-	-		-	-	3	-	-	-			1	-	-		-	1	18	-	2
28 HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No.	-		-	-	2	-	-	-	-	-	-	1	-	-	2	1	-	4	3 5	2	3	6	-	-	-		-	-	-		12		41	-	2
29 HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.	-		100	144	160	111	9	6	1	3	6	10	2	11	11	13	14	13	25 16	6	22	39	12	13	19	16	14	6	-		5	. 80	<i>J</i> 07	-	2
30 HV	Zone substation switchgear	33kV RMU	No.			-	-	-	-	-	-	-	-	-	-	-	2	-	-	-		-	-	-	-	-	-		-	-	-	-		-		2	-	2
31 HV	Zone substation switchgear	22/33kV CB (Indoor)	No.			-	-	-	23	-	-	-	-	-	-	-	6	6	-	14	21	6 9	8	-	23	9	9	8	13 -	-		-		22	17	.77	-	2
32 HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.			8	14	33	21	5	1	-	-	-	5	-	4	4	8	1	2	3 4	6	8	10	9	8	10	3	5				5	17	.78	-	2
33 HV	zone substation switchgear	3.3/6.6/11/22xV CB (ground mounted)	NO.			68	134	105	114	ь	20	1	3	19	12	18	37	18	20	9	33 :	16 32		41	46	3/	31	18	26	9	- 3	-			92	20	-	- 2
34 HV	Zone substation switchgear	3.3/6.6/11/22XV CB (pole mounted) Zone Substation Transformerr	NO.			1 20	- 20	21	5 22		-	- 2	-	1	1	-	1	-	3	5	-	5 11	4	12	- 10	9 .	_	1 -	e .	6	-	-			- 4	41	-	3
26 44	Distribution Line	Distribution OH Onen Wire Conductor	km.	79	417 1.17	6 2 200	2 605	2 105	1 214	40	50	00	60	74	65	77	91	62	97	92	65 0	05 129	115	115	112	120	112	121 1	22 1	192	72	-	-		14.64	661	-	2
37 HV	Distribution Line	Distribution OH Aerial Cable Conductor	km	-		-	-	-	-	-	-	-	-		-	-	-	-	-	-		-	-	-	-		-			-	-	-		-	-		- N	4/4
38 HV	Distribution Line	SWER conductor	km	-	0 /	0 15	34	11	8	-	-	0	5	-	-	-	0	1	0	0	-	0 0	7	1	1	1	2	1	2	2	3	-		-	4	92	-	3
39 HV	Distribution Cable	Distribution UG XLPE or PVC	km	-	0 !	5 41	203	399	291	48	41	28	29	41	49	57	56	59	52	48	38 3	38 41	41	45	49	50	45	84	53	36	32	-		50	2,05	159	-	3
40 HV	Distribution Cable	Distribution UG PILC	km	-		1 15	54	67	20	2	2	2	3	0	0	1	1	0	0	0	0	0 0	0	0	-	0	0	0 -	-	-	-	-		4	1 17	172	-	3
41 HV	Distribution Cable	Distribution Submarine Cable	km			-	-	2	7	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	0	0	-	-		-	-	-		-	2	11	-	3
42 HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers	s No.		- 3	1 1	15	32	29	5	6	11	6	18	13	17	10	11	25	23	21	28 32	33	50	95	75	78	55	35	34	11	-		34	. 80	104	-	2
43 HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.	<u></u>	- 6	6 50	145	62	64	4	1	1	2	4	7	3	-	7	7	6	6	5 4	5	4	4	7 -	-	-	4 -	-	-	-		1	40	.09	-	2
44 HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	12	16 577	3 2,057	5,851	5,187	4,562	387	851	853	676	714	803	787	795	746	757	749	665 76	58 827	1,114	1,247	1,355	1,534 1/	457 1,	610 1,3	70 1,4	419	662	-		92	40,49	86	-	2
45 HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.		- 3	2 67	239	216	224	17	27	19	37	49	34	60	64	47	54	34	38	34 28	13	8	14	5	9	9	6	35	11	-		29	1,42	29	-	2
46 HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.			5 54	242	242	221	38	68	41	40	74	75	98	120	95	108	77	69 1	85 84	101	133	153	167	175	189 1	72 1	107	74	-		22	3,13	30	-	3
47 HV	Distribution Transformer	Fore mounted transformer	NO.		- 68	0 691	2,182	3,836	5,098	464	524	511	590	6/3	033	002	05/	063	642	000	102 21	vu 623	6/4	093	060	735	10	734 /	20 B	010	745	_		839	27,64	47	-	
40 40	Distribution Transformer	Voltage segulator:	No.			4 100	040	1,215	1,970	177	215	100	195	240	247	292	210	232	400	200	2 2	7 4	244	201	10	501	A 223	36 26	s0 2	c .		<u> </u>		140	2,34	24	-	
50 HV	Distribution Substations	Ground Mounted Substation Housing	No	1	-	2 88	831	713	324	17	22	21	40	59	22	26	32	54	59	57	31 1	53 51	55	72	78	105	129	139 1	14	78	65	-		415	37	783	-	3
51 LV	LV Line	LV OH Conductor	km	1	2 7	8 562	1,429	498	242	11	17	19	19	17	15	16	17	18	13	12	10	8 11	15	7	15	14	17	19	19	22	12	-		2,337	5.44	493	-	2
52 LV	LV Cable	LV UG Cable	km	0	0 /	8 150	996	916	728	63	63	52	61	98	113	116	133	131	115	59	45 4	41 38	47	49	69	91	91	105	83	57	33	-		11?	4,64	366	-	2
53 LV	LV Street lighting	LV OH/UG Streetlight circuit	km	1	- 1	2 135	609	443	390	39	39	25	25	67	69	62	58	50	54	29	22	18 12	13	17	27	31	32	33	19	10	5	-		722	3,0/	367	-	2
54 LV	Connections	OH/UG consumer service connections	No.	-		-	253,223	-	-	8,227	3,874	3,938	4,698	5,149	5,096	5,454	5,290	4,310	3,358	3,194 2	,947 2,9	60 3,212	3,609	4,050	4,791	5,353 4,7	791 4,	887 4,8	91 5,6	649 1	1,155	-		-	354,10	105 25	53,223	2
55 All	Protection	Protection relays (electromechanical, solid state and numeric)	No.	-		78	311	192	122	61	3	6	4	19	32	49	24	49	69	13	51	43 60	154	233	220	176	164	88 1	37	83	17	-		167	2,67	320	-	3
56 All	SCADA and communications	SCADA and communications equipment operating as a single syst	t Lot			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-		-	-   -	-	-		1		1	-	2
57 All	Capacitor Banks	Capacitors including controls	No	<u> </u>		-	-	1	26	2	- 1	-	-	-		-	1	-	1	1	-	6 1	. 1	3	-	1	3	3	1 -	-   -	-	-				51	-	4
58 All	Load Control	Centralised plant	Lot			-	4	4	8	-	1	-	-	-		-	-	-	3	1	1	6 1	. 2	-	1	-	1	1	1	1	-	-		-	7	36	-	3
59 All	Load Control	Relays	No	2		9 20	776	293	275	70	41	33	32	86	51	77	92	47	73	89	73	34 197	79	75	69	82 :	119	169	94	48	21	_		781	3,90	107	-	2

34

																								Compo	nu Name					P	owerco Li	imited			<u> </u>	
																								Compu For Vo	ny Nume				<u> </u>		31 March	2022			—	
																							Network /	rui ic Sub-netwo	wk Name						Nestern R	tegion				
		-																					Mermonk)	500 110100	in a manne							-Bioli				
SCHEDULE	90: ASSET AGE PROFILI																																			
This schedule req	uires a summary of the age profile (ba:	ised on year of installation) of the assets that make up the network, b	y asset categor	iry and ass	set class. All ur	inits relatin	g to cable and i	line assets,	that are expre	ssed in km,	refer to cire	uit lengths																								
th ref																																				
8	Disclosure Year (year ended)	31 March 2022								Numb	er of assets	at disclosu	re year end	by installatio	n date																					
					1940 1	1950	1960 197	0 198	0 1990																								NO.	with Items	ear defau	an It Data accura
9 Voltage	Asset category	Asset class	Units pro	e-1940	-1949 -:	1959 -	-1969 -197	79 -19	89 -1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011 2	2012 20	13 2014	2015	2016	2017	2018	2019 2020	2021	2022	2023	2024	2025 unk	nown (quanti	ty) dater	i (1-4)
10 All	Overhead Line	Concrete poles / steel structure	No.	21	726	3,359	16,384 27,2	290 33,	014 21,08	9 3,284	4 2,967	1,629	1,820	1,361	1,318	1,167	1,329	1,366	1,701	1,434	1,425	1,573 2	2,235 2,49	7 2,402	3,034	2,660	2,525	3,173 2,43	\$7 2,66	8 1,214	-	-	-	99 149,7	.01 -	
11 AI	Overhead Line	Wood poles	No.	27	34	488	4,564 6,4	441 6,	113 5,84	6 393	3 23	373	417	298	225	142	186	62	60	20	26	3	3	4	-	-	7	-	6 24	4 6	-	-	-	4 26,0	.03 -	
12 All	Overhead Line	Other pole types	No.	-	-	3	22 7	757	41 6	2 11	1 18		15	38	30	10	3	5	3	2	10	1	2	2	1	-	4	13	3 25	9 64	-	-	-	114 1,7		
13 HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	-	0	17	205 2	290	186 14	1 2	2 (		0	0	11	-	2	-	11	2	0	0	0	0 0	11	22	15	12 1	2 1	7 11	-			9	63 -	
14 HV	Subtransmission Line	Subtransmission OF 110KVY conductor	km	-	-	-									-	-		-	-	-	-	-									-				-	N/A
15 HV	Subtransmission Cable	Subtransmission UG up to 66kV (ALPE) Subtransmission UG up to 66kV (ALPE)	km	-	-	-	13 -	-		a a	o -	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-		<u> -</u>		-			-	13 -	_
17 HV	Subtransmission Cable	Subtransmission LIG up to 66kV (Gas pressurised)	km	-	-	-		-		-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-		-	-	-	-	-	-	<u> </u>	N/A
18 HV	Subtransmission Cable	Subtransmission UG up to 66kV (PILC)	km	-	-	-	0	0	0	- 0	-	-	-	- 1	-	-	-	-	-	-	-	-		-	-	-	-		-	-	-	-	-	-	1 -	
19 HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	km	-	-	-		-		-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-		-	-	-	-	-	-		N/A
20 HV	Subtransmission Cable	Subtransmission UG 110kV+ (Oil pressurised)	km	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-		-	-	-	-	-	-		N/A
21 HV	Subtransmission Cable	Subtransmission UG 110kV+ (Gas Pressurised)	km	-	-	-		-		-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-		-	-	-	-	-			N/A
22 HV	Subtransmission Cable	Subtransmission UG 110kV+ (PILC)	km	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-			-	-	-	-			N/A
23 HV	Subtransmission Cable	Subtransmission submarine cable	km	-	-	-		-		-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-		+	-	-		-			N/A
24 HV	zone substation Buildings	Zone substations up to 66kV	NO.	-	-	1	3	9	8 1	- 0	-		-	1	-	-	4	-	-	1	2	-	1	1	1	-	-	-	<u> -</u>	3	-	-		35	83 -	
ZS HV	zone substation Buildings	20ne substations 110kV+	NO.	-	-	-		-		-	-		-	-	-	-	-	-	-	-	-	-		-	-	-	-		+	-	-	-		-		N/A
20 HV	Zone substation switchgear	50/66/110kV CB (Blobb)	No.	-	-	-	-			1							-	-	-	-	-	-		-	-	-	-		+	-	-	-+				N/A
20 40	Zone substation switchgear	220/ Switch (Ground Mounted)	No.	-	-	-		-		1 -	-	1 -	1 -		-	-	-	-	-	-	-				-	-	-		-	-				-	24	10/8
29 HV	Zone substation switcheear	33kV Switch (Pole Mounted)	No.	-	-	-	65	87	117 8	7 9	9 9	1	3	6	6	-	2	-	2	2	8	17	8	3 12	20	3	4	17 1	13 1	1 6	-			4 1	- 19	
30 HV	Zone substation switchgear	33kV RMU	No.	-	-	-		-		-	-	-	-	- 1	-	-	2	-	-	-	-	-		-	-	-	-		-	-	-	-	-	-	2 -	
31 HV	Zone substation switchgear	22/33kV CB (Indoor)	No.	-	-	-		-	- 2	3 -	-	-	-	-	-	-	6	-	-	14	11	-	4	- 1	3	1	-	- 1	43 -	-	-	-	-	6	82 -	
32 HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.	-	-	-	7	10	26	8 2	2 -	-	-	-	2	-	2	2	3	-	2	-	2	1 5	3	3	5	10	1	3 1	-	-	-	5 5	.03 -	
33 HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.	-	-	-	45	83	58 8	2 –	20	4	. 1	. 17	5	1	30	1	1	-	19	-	21 1	11	22	37	8	1 2	·5 -	1	-	-	-	- 5	- 00	
34 HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.	-	-	-		-	1	6 -	-	-	-	1	1	-	1	-	3	3	-	2	-	4 7	-	9	-	1 -		2 -	-	-	-	-	41 -	_
35 HV	Zone Substation Transformer	Zone Substation Transformers	No.	-	-	1	17	24	11 1	5 1	1 4	4	4	2	2	-	5	2	-	-	3	1	3	4 4	7	1	3	2	3 3	2 1	-		-	2 1	26 -	
36 HV	Distribution Line	Distribution OH Open Wire Conductor	km	78	417	1,095	1,980 2,1	197 2,	257 90	7 31	1 40	8	52	46	39	35	39	23	34	18	29	41	57 6	3 61	49	53	54	66 5	4 10	3 40	-		-	13 10,0	66 -	-
37 HV	Distribution Line	Distribution OH Aerial Cable Conductor	xm	-	-	-		-		-	-	-	-		-	-	-	-	-	-	-	-			-	-	-		+ -		-					N/A
30 HV	Distribution Cable	Distribution LIG XLPE or PVC	km	-	0	- 4	37 1	2	126 9	0 17	2 0		-	-	- 10	- 15	16	- 22	17	- 19	-	12	15 1	1 17	21	15	11	31 3	24 1	0 12	_		-	20	13 -	+
40 HV	Distribution Cable	Distribution US PUC	km	-	-	0	12	28	15	6 0			3	0		1	1				0	0	0	0	-	64 0		0 -	-	- 12	_			4	73	-
41 HV	Distribution Cable	Distribution Submarine Cable	km	-	-	-		-		- 1	-	1 - 1	-	-	-	-	-	-	-	-	-	-		-	-	-	-		1 -	-	-	-+			<u> </u>	N/A
42 HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers	No.	-	-	-	1	8	32 2	4 4	4 4		6	8	12	12	6	10	16	13	6	17	14 1	4 19	40	35	47	38 1	13 1'	8 7	-	-	-	30 /	- 463	
43 HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.	-	-	5	40	93	38 3	2 4	4 -	1	. 2	4	7	2	-	7	6	6	4	5	1	5 -	1	7	-		-	-	-	-	-	- 3	:70 -	
44 HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	12	16	544	1,404 4,4	446 3,	071 2,37	1 261	1 667	651	494	457	464	472	449	425	409	369	363	440	441 64	757	715	766	778	933 80	J1 83	0 371	-	-	-	62 24,8	- 36	
45 HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	-	-	-	53 1	115	79 9	0 9	9 16	1	. 26	i 22	16	11	33	21	28	16	16	17	13 1	2 6	12	2	2	5	4 13	3 5	-	-	-	25 6	78 -	
46 HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.	-	1	5	45 1	139	165 9	0 13	7 53	2	22	29	22	28	46	29	32	38	20	32	37 5	4 54	61	61	59	49 5	/8 51	1 29	-	-	-	19 1,7	.73 -	
47 HV	Distribution Transformer	Pole Mounted Transformer	No.	-	-	67	482 1,5	599 2,	798 3,13	6 337	7 35	35	416	449	412	371	416	387	396	310	334	381	396 44	457	410	531	457	643 52	5 53	6 466	-	-	-	821 18,6	<u>63 -</u>	
48 HV	Distribution Transformer	Ground Mounted Transformer	No.	-	-	2	66 2	298	474 54	9 83	3 86	10	. 96	88	92	102	99	123	104	76	78	98	97 13	3 138	120	120	107	130 12	4 122	2 102	-	-		129 3,5	42 -	+
40 HV	Distribution transformer	Ground Mounted Substation Mouries	No.	-	-	-		215	141 0	-				3	2	5	1	4	4	1	2	10	10 7	8	27	20	2	20			-	-+		405	/2 -	
51 1V	IV line	LV OH Conductor	km		- 2	- 26	136 6	548	98 6	8 6	9 13	1	30	13	12	12	11	11	4	43 8	7	10	8 1	2 25	3/	38	30	14 1	13 1	2 7	-			2 280 3/	- 100	+
52 LV	LV Cable	LV UG Cable	km	0	0	8	90 5	555	513 34	6 33	3 29	3	35	38	51	52	64	67	64	33	27	18	21 2	5 25	31	34	39	42 4	47 2	9 22	-	-	-	106 2/	477 -	
53 LV	LV Street lighting	LV OH/UG Streetlight circuit	km	0	-	0	24 1	164	140 10	4 12	2 12	1	11	14	23	16	19	18	22	8	8	4	4	5 6	6	6	7	8	6	2 2	-		-	716 1.	378 -	
54 LV	Connections	OH/UG consumer service connections	No.	-	-	-	- 146,8	818		1,294	4 1,225	1,174	1,676	1,897	2,101	2,205	2,317	1,993	1,642	1,618	1,426	1,347 1	1,488 1,42	5 1,419	1,538	1,857	1,940	1,908 2,18	\$7 2,43	1 477	-	-	-	- 185/	146,8	.18
SS All	Protection	Protection relays (electromechanical, solid state and numeric)	No.	-	-	-	58 1	147	59 6	3 51	7 2		-	19	12	27	1	20	32	10	29	16	24 8	143	87	109	88	45 5	i5 3	0 6	-	-	-	64 1/	- 689	
56 All	SCADA and communications	SCADA and communications equipment operating as a single syst	Lot	-	-	-		-		-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-		-	-	-	-	-	1	1 -	
57 All	Capacitor Banks	Capacitors including controls	No	-	-	-		-		1	1 -	-		-	-	-	-	-	-	-	-	3		-	-	-	1			-	-			-	5 -	
58 All	Load Control	Centralised plant	Lot	-	-	-	-	4	4	8 -	1	- 1	-	-	-	-	-	-	-	-	-	5	-	- 1	1	-	-	1 -		-	-	-	-	-	25 -	
59 All	Load Control	Relays	No	1	-	-	9 3	303	139 8	8 14	4 15	2	17	38	5	17	28	15	7	11	17	2	9 1	34	22	20	33	54 2	.6 1/	4 8	-		-	<u>688 1,</u> F	i75 -	<u> </u>
60 All	Civils	Cable Tunnels	km	-	-	-		-		-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-		-	-	-	-	-			N/A

35

																							Company Nor						Bowor	co Limito				
																							Company Null						21 M	orch 2022		——	-	
																					Ne	twork / Su	For tear Ena						Facto	arch 2022				
CHEDI	ILE ON ASSET ACE DROEH	F																					o network rom						custo			_	_	
This schedul	requires a summary of the age profile (b)	E sed on year of installation) of the assets that make up the network in	w asset rate	eency and as	cet class. All units	relating to ca	hie and line a	issets that are	evoressed in km	refer to circ	uit lengths																							
			,																															
sch ref	Distance Versions and di	24 March 2022	1						Mused																									
°	bisclosure rear (year ended)	51 March 2022	1						NUM	ier or assets	acoisciosoi	e year end i	ay instanation	date																	No. with	Items at	No. with	
					1940 195	1960	1970	1980	1990																						age	end of year	default	Data accuracy
9 Volt	ige Asset category	Asset class	Units	pre-1940	-1949 -195	9 -1969	-1979	-1989 -	-1999 2000 5.410 6	2001	2002	2003	2004	2005	2006 20	2008	2005	2010	2011	2012	2013	2014	2015 2010	2017	2018	2019	2020	1 929	2023	2024	2025 unknown	(quantity)	dates	(1-4)
10 All	Overhead Line	Wood poles	No.	- 1	- 1	98 26	5 746	729	1.592 1	5 26	3	1	2	9	-	5	34	10 70	8	-	-	1		10 1,20	3	-	4	1	1 -	-	- 6	3,730		3
12 All	Overhead Line	Other pole types	No.	-	-	1 1	5 1,959	12	31 1	0 52	30	25	8	59	60	28	24	19 5	-	1	7	2		-	-	2	1	2	3 -	-	- 18	2,374	-	2
13 HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	-	0	37 9.	2 128	109	84	7 0	1	1	1	3	2	6	4	0 0	34	15	0	10	0	0 6	1	3	0	1 .	-	-		543	-	3
14 HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km			-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-		-	-	-	-		-	-		-	-	N/A
15 HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km	<u> </u>		-	15	1	18	5 1	-	0	0	1	2	5	2	2 6	5 15	6	4	0	12	1 2	24	6	3	2	0 -	-	- 6	157	-	4
16 HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km	<u> </u>		-	-	-		-	-	-	-	-	-		-		-	-	-	-		-	-	-	-			-			-	N/A
17 HV 18 HV	Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressurised) Subtransmission UG up to 66kV (PUC)	km				-	-		-	-	-	-	-	-		-	-	-	-	-	-		-	-	-	-		-	-	1 1 1			N/A N/A
19 HV	Subtransmission Cable	Subtransmission US 110kV+ (XI PF)	km	-	-		-	-		-	-	-	-	-	-		-		-	-	-	-	-	-	-	-	-	-	-	-		-		N/A
20 HV	Subtransmission Cable	Subtransmission UG 110kV+ (Oil pressurised)	km	-			-	-		-	-	-	-	-	-		-		-	-	-	-		-	-	-	-		-	-		-	-	N/A
21 HV	Subtransmission Cable	Subtransmission UG 110kV+ (Gas Pressurised)	km	-		-	-	-		-	-	-	-	-	-		-	-	-	-	-	-		-	-	-	-	-	-	-		-	-	N/A
22 HV	Subtransmission Cable	Subtransmission UG 110kV+ (PILC)	km	<u> </u>			-	-		-	-	-	-	-	-		-		-	-	-	-		-	-	-	-		-	-		-	-	N/A
23 HV	Subtransmission Cable	Subtransmission submarine cable	km	-		-	-	-		-	-	-	-	-	-		-	-	-	-	-	-		-	-	-	-	-	-	-		-	-	N/A
24 HV	Zone substation Buildings	Zone substations up to 66kV	No.	<u> </u>	-	1	2 5	4	3 -	-	-	-	-	24	2	1	1	1 -	1	2	2	2	-	2 -	1	-	-	3	5 -	-	- 5	67	-	2
25 HV 26 HV	Zone substation Buildings	20ne substations 110kV+ 50/56/110kV (R (Indexr)	NO.				-	-		-	-	-	-	-	-		-		-	-	-	-		-	-	-	-	-	-	-				N/A N/A
27 HV	Zone substation switcheear	50/66/110kV CB (Putdoor)	No.	-	-		2	4	1 -	-	-	-	-	-	1	6 -	-		-	-	-	-	3	-	-	-	-	1	-	-		18		2
28 HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No.	-		-	-	2		-	-	-	-	1	-	-	2	1 -	-	-	5	-		-	-	-	-		-	-	- 6	17	-	2
29 HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.	-		3	5 57	43	24 -	-	-	-	-	4	2	9	11	11 12	5	5 8	8	3	10	19 9	9	2	3	3 •	-	-	- 1	288	-	2
30 HV	Zone substation switchgear	33kV RMU	No.			-	-	-		-	-	-	-	-	-		-	-	-	-	-	-		-	-	-	-		-	-		-	-	N/A
31 HV	Zone substation switchgear	22/33kV CB (Indoor)	No.	-		-	-	-		-	-	-	-	-	-	-	6 -	-	10	) 6	5	7	-	20 8	9	8	-	-	-	-	- 16	95	-	2
32 HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.	<u> </u>		-	1 4	7	13	3 1	-	-	-	3	-	2	2	5 1	-	3	2	5	3	7 6	3	-	2	2 .	-	-		75	-	2
24 HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	NO.						34		-			- 1	-			19 9	- 19	- 10	-		30	-		-	-		2 -			420		N/A
35 HV	Zone Substation Transformer	Zone Substation Transformers	No.	-			3 5	10	7	1 1	1	-	-	-	5	4	4	2 5	2	4	8	5	9	3 -	1	2	2	4 .	-	-	- 1	89		2
36 HV	Distribution Line	Distribution OH Open Wire Conductor	km	0	0	81 72	0 1,407	938	407 1	7 19	16	17	28	26	42	42	38	47 65	i 37	53	72	52	53	54 63	58	55	68	79	31 -	-	- 4	4,605	-	3
37 HV	Distribution Line	Distribution OH Aerial Cable Conductor	km	-		-	-	-		-	-	-	-	-	-		-	-	-	-	-	-		-	-	-	-		-	-		-	-	N/A
38 HV	Distribution Line	SWER conductor	km		0	0 1	5 25	3	8 -	-	0	5	-	-	-	0	1	0 0	- 1	-	0	7	1	1 1	0	0	0	0	3 -	-		69	-	3
39 HV	Distribution Cable	Distribution UG XLPE or PVC	km	<u> </u>	-	1 .	4 89	273	212 3	6 32	17	23	33	38	42	40	37	36 29	29	26	25	22	28	28 35	34	53	38	26	20 -	-	- 30	1,336	-	3
40 HV	Distribution Cable	Distribution UG PILC	km	<u> </u>	-	0	3 26	51	13	2 2	0	-	0	-	-	0 -	_	0 -	-	-	-	-			-	-	-		-	-		99	-	3
42 HV	Distribution switcheear	3 3/5 6/11/22kV CB (pole mounted) - recipsers and sectionalisers	x No			1 -	- 7	-	5	1 2	- 2	-	- 10	1	-	4	1	9 10	15	- 11	- 18	19	31	5 4	- 31	17	- 22	16	4 -	-	- 4	341		2
43 HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.	-	-	1 1	0 52	24	32 -	1	-	-	-	-	1		-	1 -	2	-	3	-	4	3 -	-	-	4		-	-	- 1	139	-	2
44 HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	-	-	29 65	3 1,405	2,116	2,191 12	6 184	195	182	257	339	315	346 3	21 3	48 380	302	328	386	474	490 E	40 761	679	677	569	589	91 -	-	- 30	15,610	-	2
45 HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	-	-	2 1	4 124	137	134	8 11	8	11	27	18	49	31	26	26 18	1 22	17	15	1	2	2	7	4	2	22	6 -	-	- 4	751	-	2
46 HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.	<u> </u>			9 103	77	131 2	1 15	13	18	45	53	70	74	56	76 39	49	53	47	47	79	92 10	116	140	114	56	45 -	-	- 3	1,757	-	3
47 HV	Distribution Transformer	Pole Mounted Transformer	No.		-	1 20	9 583	1,038	1,962 14	7 173	155	174	224	221	231	241 2	76 2	46 290	192	159	227	231	236 2	70 203	261	291	175	274	59 -	-	- 18	8,966	-	4
48 HV	Distribution Transformer	Ground Mounted Transformer	No.	<u> </u>	-	2 10	348	739	929 11	6 127	65	97	160	155	190	219 1	59 1 r	51 130	115	122	86	106	143 1	56 18	186	199	126	119 :	35 -	-	- 11	5,382	-	4
40 HV	Distribution Substations	Ground Mounted Substation Houring	NO.			2 7	516	572	242 1	2 14		- 10	- 27	- 14	10	24	2 -	45 24	1 75	25	22	3	47	0 ·		102	04	49	41 -			2 202		2
51 LV	LV Line	LV OH Conductor	km	0	-	51 42	7 781	399	173	2 4	4	5	4	3	4	6	7	4 4	3	2	3	3	2	1 4	2	5	6	10	5 -	-	- 57	1.983	-	2
52 LV	LV Cable	LV UG Cable	km	0	-	0 6	441	403	381 3	1 34	18	26	61	62	64	69	55	51 26	18	3 23	17	22	24	38 51	53	62	36	28	11 -	-	- 7	2,189	-	2
53 LV	LV Street lighting	LV OH/UG Streetlight circuit	km	1	-	12 11	445	303	286 2	7 27	14	14	53	46	46	39	32	32 21	15	i 14	8	9	11	21 2!	25	25	13	9	3 -	-	- 6	1,689	-	2
54 LV	Connections	OH/UG consumer service connections	No.			-	106,405	-	- 6,93	3 2,645	2,764	3,022	3,252	2,995	3,248 2	,973 2,3	1,7	1,576	1,521	1,613	1,724	2,183	2,631 3,2	53 3,49	2,851	2,979	2,704	3,218	78 -	-		168,697	106,405	2
55 All	Protection	Protection relays (electromechanical, solid state and numeric)	No.	<u> </u>		21	164	133	59	4 1		4	-	20	22	23	29	37 3	22	27	36	74	90 1	33 63	76	43	82	53	11 -	-	- 98	1,331	-	3
56 All	SCADA and communications	SCADA and communications equipment operating as a single syst	t Lot	<u> </u>		-	-	-		-	-	-	-	-	-		-	-	-	-		-			-	-	-		-	-	- 1	1	-	2
57 All	Capacitor Banks	Capacitors including controls	NO				-	1	26	1 -	-	-	-	-	-		-	1 1	-	3	1	1	3		2	3	1		-	-	+ - + - +	46		4
59 All	Load Control	Relays	No	- 1		9 1	473	154	187 5	6 76	11	- 15	48	46	60	64	32	66 78	56	37	188	60	41	47 6	86	115	68	34	13 -	-	- 93	2.232		2
60 All	Civils	Cable Tunnels	km				-	-		-	-	-	-	-	-		-		-	-	-	-		-	-	-	-		-	-		-	-	N/A

36

	Company Name	F	Powerco Limited	
	For Year Ended		31 March 2022	
	Network / Sub-network Name	F	owerco Limited	
sc	HEDLILE 9C REPORT ON OVERHEAD LINES AND LINDERGROUND CABLES			
This	s schedule requires a summary of the key characteristics of the overhead line and underground cable network. All units re	lating to cable and li	ne assets that are ex	nressed in km_refe
circu	uit lengths.		ne ussets, that are ex	pressed in kin, rek
sch re	f			
	, ,			
9				
				Total circuit
10	Circuit length by operating voltage (at year end)	Overhead (km)	Underground (km)	length (km)
11	> 66kV	-	-	-
12	50kV & 66kV	163	6	169
13	33kV	1,343	269	1,612
14	SWER (all SWER voltages)	92	-	92
15	22kV (other than SWER)	121	1	122
16	6.6kV to 11kV (inclusive—other than SWER)	14,540	2,241	16,781
17	Low voltage (< 1kV)	5,493	4,666	10,159
18	Total circuit length (for supply)	21,752	7,183	28,935
19		r	1 1	
20	Dedicated street lighting circuit length (km)	1,069	1,998	3,067
21	Circuit in sensitive areas (conservation areas, iwi territory etc) (km)			-
22			(0/ aftatal	
22	Overhead circuit length by terrain (at year end)	Circuit length (km)	(% of total	
20		2 653	12%	
25	Bural	7 294	34%	
26	Remote only	-	54%	
27	Rugged only	11 480	53%	
28	Remote and russed	225	1%	
29	Unallocated overhead lines	-	-	
30	Total overhead length	21 752	100%	
31	······································		130/0	
			(% of total circuit	
32		Circuit length (km)	length)	
33	Length of circuit within 10km of coastline or geothermal areas (where known)	11,645	40%	
			(% of total	
34		Circuit length (km)	overhead length)	
35	Overhead circuit requiring vegetation management	21,752	100%	

	Company Name	F	owerco Limited	
	For Year Ended		31 March 2022	
	Network / Sub-network Name		Western Region	
SCH	HEDULE 9c. REPORT ON OVERHEAD LINES AND LINDERGROUND CABLES			
This s	chedule requires a summary of the key characteristics of the overhead line and underground cable network. All units re	lating to cable and li	ne assets that are ev	pressed in km ref
circuit	t lengths.		ne assets, that are ex	pressed in kin, rei
	°			
sch ref				
Sell lej				
9				
				Total circuit
10	Circuit length by operating voltage (at year end)	Overhead (km)	Underground (km)	length (km)
11	> 66kV	_	-	
12	50kV & 66kV	-	-	
13	33kV	963	117	1,080
14	SWER (all SWER voltages)	23	-	23
15	22kV (other than SWER)	121	1	122
16	6.6kV to 11kV (inclusive—other than SWER)	9,935	795	10,730
17	Low voltage (< 1kV)	3,509	2,477	5,986
18	Total circuit length (for supply)	14,552	3,390	17,942
19				
20	Dedicated street lighting circuit length (km)	747	631	1,378
21	Circuit in sensitive areas (conservation areas, iwi territory etc) (km)			-
22			104 C	
22	Overhead circuit length by terrain (at year and)	Circuit longth (km)	(% of total	
25	Urban		overnead length)	
24	Oldan	1,090	22%	
25	Remote only	4,092	20%	
20	Rugged only	8 440	- 5 00/	
27	Remote and rugged	0,440	30%	
20	Unallocated overhead lines	325	2%	
30		14 552	100%	
31		14,332	100%	
51			(% of total circuit	
32		Circuit length (km)	length)	
33	Length of circuit within 10km of coastline or geothermal areas (where known)	5,481	31%	
			(% of total	
34		Circuit length (km)	overhead length)	
35	Overhead circuit requiring vegetation management	14.552	100%	

	Company Name	F	owerco Limited	
	For Year Ended		31 March 2022	
	Network / Sub-network Name		Eastern Region	
sc	HEDLILE 90 REPORT ON OVERHEAD LINES AND LINDERGROUND CABLES			
Thi		lating to cable and li	no accets that are ev	proceed in two refe
circ	s schedule requires a summary of the key characteristics of the overhead line and underground cable network. All units re-	lating to caple and li	ne assets, that are ex	pressed in km, ren
circ				
cch r	of			
SCILIE	-)			
q				
5				Total circuit
10	Circuit length by operating voltage (at year end)	Overhead (km)	Underground (km)	length (km)
11	> 66kV	-	-	-
12	50kV & 66kV	163	6	169
13	33kV	380	152	532
14	SWER (all SWER voltages)	69	-	69
15	22kV (other than SWER)	-	-	-
16	6.6kV to 11kV (inclusive—other than SWER)	4,605	1,446	6,05:
17	Low voltage (< 1kV)	1,983	2,189	4,172
18	Total circuit length (for supply)	7,200	3,793	10,993
19				
20	Dedicated street lighting circuit length (km)	323	1,367	1,689
21	Circuit in sensitive areas (conservation areas, iwi territory etc) (km)			-
22				
22	Querkand circuit langth by targain (at your and)	Circuit longth (km)	(% of total	
25			129/	
24	Pural	2 202	15%	
25	Remote only	5,203	44%	
20	Runged only	- 2 040	- /2%	
27	Romete and rugged	3,040	4270	
20 20	Linallocated overhead lines			
20	Total overhead length	7 200	100%	
31	i otal overhead length	7,200	100%	
			(% of total circuit	
32		Circuit length (km)	length)	
33	Length of circuit within 10km of coastline or geothermal areas (where known)	6,165	56%	
			(% of total	
34		Circuit length (km)	overhead length)	
35	Overhead circuit requiring vegetation management	7,200	100%	
			·	

			Company Name	Powerc	o Limited
			For Year Ended	<b>31 Ma</b>	rch 2022
SC This	<b>HEDULE 9d:</b> schedule requires	REPORT ON EMBEDDED NETWORKS information concerning embedded networks owned by an EDB that are embedded in another EDB's	network or in another	embedded network.	
8	y	Location *		Number of ICPs served	Line charge revenue (\$000)
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
22					
23					
24					
25					
	* Extend em	bedded distribution networks table as necessary to disclose each embedded network owned by the El	DB which is embedded	in another EDB's netw	vork or in another
26	embedded n	etwork			

	Company Name	Powerco Limited
	For Year Ended	31 March 2022
	Network / Sub-network Name	Powerco Limited
SC	HEDULE 9e: REPORT ON NETWORK DEMAND	
This	schedule requires a summary of the key measures of network utilisation for the disclosure year (number	r of new connections including
distr	ributed generation, peak demand and electricity volumes conveyed).	
sch rø	f	
schrie		
8	9e(i): Consumer Connections	
9	Number of ICPs connected in year by consumer type	
10	Concurrent types defined by EDP*	Number of
11	Residential/Small Commercial	5.255
12	Commercial	47
13	Large Commercial/Industrial	12
14	[EDB consumer type]	_
15	[EDB consumer type]	-
16	* include additional rows if needed	
17	Connections total	5,314
10 19	Distributed generation	
20	Number of connections made in year	1.103 connections
21	Capacity of distributed generation installed in year	13 <b>MVA</b>
22	9e(ii): System Demand	
23 24		
24		Demand at time of
		coincident
25	Maximum coincident system domand	demand (MW)
25 26	GYP demand	861
20	plus Distributed generation output at HV and above	125
28	Maximum coincident system demand	986
29	less Net transfers to (from) other EDBs at HV and above	_
30	Demand on system for supply to consumers' connection points	986
31	Electricity volumes carried	Energy (GWh)
32	Electricity supplied from GXPs	4,624
33	nus Electricity supplied from distributed generation	806
35	less Net electricity supplied to (from) other EDBs	-
36	Electricity entering system for supply to consumers' connection points	5,266
37	less Total energy delivered to ICPs	4,994
38	Electricity losses (loss ratio)	272 5.2%
39		
40	Load factor	0.61
41	9e(iii): Transformer Capacity	
42		(MVA)
43	Distribution transformer capacity (EDB owned)	3,492
44	Distribution transformer capacity (Non-EDB owned, estimated)	149
45	Total distribution transformer capacity	3,640
46		
47	Zone substation transformer capacity	2,376

	Company Maria	Powerce Limited
	Company Name	21 March 2022
	For Year Ended	
		western Region
SC	HEDULE 9e: REPORT ON NETWORK DEMAND	
This	schedule requires a summary of the key measures of network utilisation for the disclosure year (number of new co	onnections including
uisti	ibuccu generation, peak demand and electricity volumes conveyed).	
sch re	f	
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/Small Commercial	2,269
12	Large Commercial/Industrial	
14	[EDB consumer type]	
15	[EDB consumer type]	-
16	* include additional rows if needed	
17	Connections total	2,281
18	Distributed concertion	
19 20	Distributed generation	connections
20 21	Canacity of distributed generation installed in year	8 MVA
21	capacity of distributed generation instance in year	
22	9e(ii): System Demand	
23		
24		Demand at time of
		maximum
		coincident demand (MW)
25	Maximum coincident system demand	
26	GXP demand	352
27	Maximum coincident system demand	464
29	less Net transfers to (from) other EDBs at HV and above	
30	Demand on system for supply to consumers' connection points	464
31	Electricity volumes carried	Energy (GWh)
32	Electricity supplied from GXPs	2,042
33	less Electricity exports to GXPs	25
34	plus Electricity supplied from distributed generation	404
36	Electricity entering system for supply to consumers' connection points	2.421
37	less Total energy delivered to ICPs	2,260
38	Electricity losses (loss ratio)	161 6.6%
39		
40	Load factor	0.60
11	9e(iii): Transformer Canacity	
41		(MVA)
42	Distribution transformer capacity (FDB owned)	1 743
44	Distribution transformer capacity (Non-EDB owned, estimated)	104
45	Total distribution transformer capacity	1,847
46		
46 47	Zone substation transformer capacity	1,133

	Company Name	Powerco Limited
	For Year Ended	31 March 2022
	Network / Sub-network Name	Eastern Region
SC	HEDULE 9e: REPORT ON NETWORK DEMAND	
This	schedule requires a summary of the key measures of network utilisation for the disclosure year (numbe	r of new connections including
distr	ributed generation, peak demand and electricity volumes conveyed).	
sch re	f	
8	9e(i): Consumer Connections	
9	Number of ICPs connected in year by consumer type	
10	Concurrent types defined by EDR*	Number of
11	Residential/Small Commercial	2.986
12	Commercial	35
13	Large Commercial/Industrial	12
14	[EDB consumer type]	_
15	[EDB consumer type]	-
16	* include additional rows if needed	
17	Connections total	3,033
10 19	Distributed generation	
20	Number of connections made in year	751 connections
21	Capacity of distributed generation installed in year	5 <b>MVA</b>
22	9e(ii): System Demand	
23 24		
24		Demand at time of
		maximum
25	Maximum asia sidant sustana daman d	demand (MW)
25		450
20	plus Distributed generation output at HV and above	76
28	Maximum coincident system demand	526
29	less Net transfers to (from) other EDBs at HV and above	_
30	Demand on system for supply to consumers' connection points	526
31	Electricity volumes carried	Energy (GWh)
32	Electricity supplied from GXPs	2,582
33	less Electricity exports to GXPs	138
34 35	plus Electricity supplied from distributed generation	402
36	Electricity entering system for supply to consumers' connection points	2.846
37	less Total energy delivered to ICPs	4,994
38	Electricity losses (loss ratio)	(2,148) (75.5%)
39		
40	Load factor	0.62
11	9e(iii): Transformer Canacity	
41	Setting transformer capacity	(MVA)
43	Distribution transformer capacity (FDB owned)	1 749
44	Distribution transformer capacity (Non-EDB owned, estimated)	45
45	Total distribution transformer capacity	1,794
46		
47	Zone substation transformer capacity	1,243
77		

		Company Name	Powe	erco Limited
		For Year Ended	31	March 2022
	Network / Sub	-network Name	Powe	erco Limited
SCH	HEDULE 10: REPORT ON NETWORK RELIABILITY	_		
This	schedule requires a summary of the key measures of network reliability (interruptions. SAIDI. SAIFI and fault rate	e) for the disclosure v	ear. EDBs must pro	wide explanatory comment
on th	eir network reliability for the disclosure year in Schedule 14 (Explanatory notes to templates). The SAIFI and SAI	DI information is part	of audited disclosu	ure information (as defined in
sectio	on 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.			
sch ref				
Ĩ				
8	10(i): Interruptions			
	Interventions building	Number of		
9	Interruptions by class	Interruptions		
10	Class A (planned interruptions by Transpower)	2 102		
12	Class C (upplanned interruptions on the network)	3 300		
13	Class D (unplanned interruptions by Transpower)	5,390		
14	Class E (unplanned interruptions of EDB owned generation)			
15	Class F (unplanned interruptions of generation owned by others)	6		
16	Class G (unplanned interruptions caused by another disclosing entity)			
17	Class H (planned interruptions caused by another disclosing entity)			
18	Class I (interruptions caused by parties not included above)	670		
19	Total	6,272		
20		1011		
21	Interruption restoration	≤3Hrs	>3hrs	
22	Class C interruptions restored within	1,829	1,561	
23	CAID and CAID builting	CAIFI	CAUDI	
24	SAIFI and SAIDI by class	SAIFI	SAIDI	
25	Class A (planned interruptions by Transpower)	0.12	25.48	
20	Class C (unplanned interruptions on the network)	2,20	315.04	
28	Class D (unplanned interruptions by Transpower)	0.14	24,58	
29	Class E (unplanned interruptions of EDB owned generation)		2.100	
30	Class F (unplanned interruptions of generation owned by others)	0.00	0.01	
31	Class G (unplanned interruptions caused by another disclosing entity)			
32	Class H (planned interruptions caused by another disclosing entity)			
33	Class I (interruptions caused by parties not included above)	0.11	25.67	
34	Total	2.96	486.5	
35				
36	Normalised SAIFI and SAIDI	Normalised SAIFI	Normalised SAIDI	
37	Classes B & C (interruptions on the network)	2.49	285.56	
38				

		Company Name	Powerce	o Limited
		For Year Ended	31 Ma	rch 2022
		Network / Sub-network Name	Powerce	o Limited
SCH This s on th section 39 40 41 42 43 44 45	HEDULE 10: REPORT ON NETWORK RELIABILITY schedule requires a summary of the key measures of network reliability (interruptions, SA leir network reliability for the disclosure year in Schedule 14 (Explanatory notes to templa on 1.4 of the ID determination), and so is subject to the assurance report required by sect 10(ii): Class C Interruptions and Duration by Cause Cause Lightning Vegetation Adverse weather Adverse environment	IDI, SAIFI and fault rate) for the disclosure yetes). The SAIFI and SAIDI information is part ion 2.8.           SAIFI           0.04         0.46         0.11         0.00	SAIDI 3.35 112.66 3.433 0.71	e explanatory comment information (as defined in
46 47	Third party interference Wildlife	0.21	23.58	
48	Human error	0.14	2.78	
49	Defective equipment	0.74	99.54	
50 51	Cause unknown	0.29	25.91	
52 53	10(iii): Class B Interruptions and Duration by Main Equipme	ent Involved		
54	Main equipment involved	SAIFI	SAIDI	
55	Subtransmission lines	0.01	1.27	
56	Subtransmission cables	0.00	0.00	
57	Subtransmission other	0.00	0.00	
58	Distribution intes (excluding LV)	0.30	89.15	
60	Distribution cables (excluding LV)	0.03	4.90	
61 62	10(iv): Class C Interruptions and Duration by Main Equipme	nt Involved		
63	iviain equipment involved	SAIFI	SAIDI	
64	Subtransmission lines	0.39	41.10	
65	Subtransmission cables	0.05	C 22	
60	Subtransmission other	0.05	0.32	
62	Distribution cables (excluding LV)	1.55	230.41	
69	Distribution cables (excluding LV)	0.12	7.51	
70	10(v): Fault Rate			Fault rate (faulte
	Main equipment involved	Number of Faults Ci	rcuit length (km)	per 100km)
71		186	1,506	12.35
71 72	Subtransmission lines		275	_
71 72 73	Subtransmission lines Subtransmission cables		275	
71 72 73 74	Subtransmission lines Subtransmission cables Subtransmission other	8	273	
71 72 73 74 75	Subtransmission lines Subtransmission cables Subtransmission other Distribution lines (excluding LV)	8 4,380	14,753	29.69
71 72 73 74 75 76	Subtransmission lines Subtransmission cables Subtransmission other Distribution lines (excluding LV) Distribution cables (excluding LV)	8 4,380 123	14,753 2,242	29.69
71 72 73 74 75 76 77	Subtransmission lines Subtransmission cables Subtransmission other Distribution lines (excluding LV) Distribution cables (excluding LV) Distribution other (excluding LV)	8 4,380 123 199	14,753 2,242	29.69 5.49

		_		
	(	Company Name	Powe	erco Limited
		For Year Ended	31	March 2022
	Network / Sub	-network Name	Wes	tern Region
SCI	HEDULE 10: REPORT ON NETWORK RELIABILITY	-		
This	schedule requires a summary of the key measures of network reliability (interruptions, SAIDI, SAIFI and fault rate	e) for the disclosure y	ear. EDBs must pro	wide explanatory comment
on th	heir network reliability for the disclosure year in Schedule 14 (Explanatory notes to templates). The SAIFI and SAI	DI information is part	of audited disclose	ure information (as defined in
secti	on 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.			
sch ref	e de la constante de			
8	10(i): Interruptions			
٥	Interruptions by class	Number of		
10	Class A (planned interruptions by Transpower)	5		
11	Class B (planned interruptions of the network)	1.212		
12	Class C (unplanned interruptions on the network)	2,331		
13	Class D (unplanned interruptions by Transpower)	3		
14	Class E (unplanned interruptions of EDB owned generation)			
15	Class F (unplanned interruptions of generation owned by others)	6		
16	Class G (unplanned interruptions caused by another disclosing entity)			
17	Class H (planned interruptions caused by another disclosing entity)			
18	Class I (interruptions caused by parties not included above)	426		
19	Total	3,983		
20	Interruption restoration	<3Hrs	>3hrs	
21	Class C interruptions restored within	1 256	1 075	
23		1,250	1,075	
24	SAIFI and SAIDI by class	SAIFI	SAIDI	
25	Class A (planned interruptions by Transpower)	0.06	12.56	
26	Class B (planned interruptions on the network)	0.41	96.91	
27	Class C (unplanned interruptions on the network)	2.63	331.81	
28	Class D (unplanned interruptions by Transpower)	0.05	6.09	
29	Class E (unplanned interruptions of EDB owned generation)			
30	Class F (unplanned interruptions of generation owned by others)	0.00	0.02	
31	Class G (unplanned interruptions caused by another disclosing entity)			
32	Class H (planned interruptions caused by another disclosing entity)	0.10		
33	Class I (interruptions caused by parties not included above)	0.13	30.90	
34	locar	3.28	478.3	
55				
36	Normalised SAIFI and SAIDI	Normalised SAIFI	Iormalised SAIDI	
37	Classes B & C (interruptions on the network)	3.00	322.88	
38				

		Company Name	Powerco	o Limited
		For Year Ended	31 Mai	rch 2022
		Network / Sub-network Name	Wester	n Region
CH This scon the ection 39 40 41 42	EDULE 10: REPORT ON NETWORK RELIABILITY hedule requires a summary of the key measures of network reliability (interruptions, ir network reliability for the disclosure year in Schedule 14 (Explanatory notes to tem a 1.4 of the ID determination), and so is subject to the assurance report required by s 10(ii): Class C Interruptions and Duration by Cause Cause Lightning	SAIDI, SAIFI and fault rate) for the disclosure yu plates). The SAIFI and SAIDI information is part ection 2.8. SAIFI	ear. EDBs must provide of audited disclosure i SAIDI 5.89	e explanatory comment information (as defined i
43	Vegetation	0.51	99.79	
44	Adverse weather	0.10	26.83	
45	Adverse environment	0.01	0.81	
46	Third party interference	0.22	21.91	
47	Wildlife	0.35	17.69	
18	Human error	0.11	2.31	
19	Defective equipment	0.89	127.21	
50	Cause unknown	0.36	29.37	
55 56	Subtransmission lines Subtransmission cables	0.00	0.22	
57	Subtransmission other	0.00	0.00	
8	Distribution lines (excluding LV)	0.36	87.97	
9	Distribution cables (excluding LV)	0.00	0.69	
1 2	10(iv): Class C Interruptions and Duration by Main Equipr	nent Involved		
3	Main equipment involved	SAIFI	SAIDI	
4 5	Subtransmission cables	0.53	25.64	
6	Subtransmission other	0.03	2.69	
7	Distribution lines (excluding LV)	1.92	287.28	
8	Distribution cables (excluding LV)	0.04	5.79	
9	Distribution other (excluding LV)	0.11	10.41	
70	10(v): Fault Rate			Fault rate (faul
			rcuit length (km)	per 100km)
1	Main equipment involved	Number of Faults Ci		
1	Main equipment involved Subtransmission lines	Number of Faults Ci 151	963	15.6
1 2 3	Main equipment involved Subtransmission lines Subtransmission cables	Number of Faults Ci	963 117	
1 2 3 4	Main equipment involved Subtransmission lines Subtransmission cables Subtransmission other	Number of Faults C	963 117	-
1 2 3 4 5	Main equipment involved Subtransmission lines Subtransmission cables Subtransmission other Distribution lines (excluding LV)	Number of Faults Cl	963 117 10,080	
1 2 3 4 5 5 7	Main equipment involved Subtransmission lines Subtransmission cables Subtransmission other Distribution lines (excluding LV) Distribution cables (excluding LV) Distribution cables (excluding LV)	Number of Faults C	963 117 10,080 796	15.6 

		Company Name	Powe	rco Limited
		For Year Ended	31 N	March 2022
	Network / Sub-	network Name	East	ern Region
SCHE	DULE 10: REPORT ON NETWORK RELIABILITY			
This sch	edule requires a summary of the key measures of network reliability (interruptions, SAIDI, SAIFI and fault rate) f	or the disclosure ye	ear. EDBs must provid	e explanatory comm
section 3	twork reliability for the disclosure year in Schedule 14 (Explanatory notes to templates). The SAIFI and SAIDI info 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.	irmation is part of a	audited disclosure info	ormation (as defined
Section .				
h ref				
0	10(i): Interruptions			
8	10(1). Interruptions	Number of		
9	Interruptions by class	interruptions		
10	Class A (planned interruptions by Transpower)	3	1	
11	Class B (planned interruptions on the network)	980		
12	Class C (unplanned interruptions on the network)	1,059		
13	Class D (unplanned interruptions by Transpower)	3		
14	Class E (unplanned interruptions of EDB owned generation)			
15	Class F (unplanned interruptions of generation owned by others)			
16	Class G (unplanned interruptions caused by another disclosing entity)			
17	Class H (planned interruptions caused by another disclosing entity)			
18	Class I (interruptions caused by parties not included above)	244		
19	Total	2,289		
20			-	
21	Interruption restoration	≤3Hrs	>3hrs	
22	Class C interruptions restored within	573	486	
23				
24	SAIFI and SAIDI by class	SAIFI	SAIDI	
25	Class A (planned interruptions by Transpower)	0.18	39.71	
26	Class B (planned interruptions on the network)	0.39	94.45	
27	Class C (unplanned interruptions on the network)	1.73	296.58	
28	Class D (unplanned interruptions by Transpower)	0.24	44.94	
29	Class E (unplanned interruptions of EDB owned generation)			
30	Class F (unplanned interruptions of generation owned by others)	-	-	
31	Class G (unplanned interruptions caused by another disclosing entity)			
32	Class H (planned interruptions caused by another disclosing entity)			
33	Class I (interruptions caused by parties not included above)	0.08	19.91	
34	Total	2.61	495.6	
35				
36	Normalised SAIFI and SAIDI	Normalised SAIFI	Normalised SAIDI	
		2.12	252.01	

		Company Name	Power	o Limited
		For Year Ended	31 Ma	arch 2022
	Network / Sub	o-network Name	Easte	rn Region
SCH	EDULE 10: REPORT ON NETWORK RELIABILITY			
This so their r sectio	thedule requires a summary of the key measures of network reliability (interruptions, SAIDI, SAIFI and fault rate) network reliability for the disclosure year in Schedule 14 (Explanatory notes to templates). The SAIFI and SAIDI inf n 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8. 10(ii): Class C Interruptions and Duration by Cause	for the disclosure year ormation is part of au	. EDBs must provide e Jited disclosure inforr	xplanatory comment on nation (as defined in
40	Cause	SAIFI	SAIDI	
12		0.01	0.55	
12	Verstation	0.01	126.92	
4J 4 4		0.40	120.05	
44 15	Adverse environment	0.00	42.35	
16		0.00	25 42	
40	Wildlife	0.20	6.09	
18	Human error	0.00	3 31	
19	Defective equipment	0.56	60.09	
50		0.30	22.10	
51		0.25	22.10	
52	10(iii): Class B Interruptions and Duration by Main Equipment Involved			
53				
54	Main equipment involved	SAIFI	SAIDI	
55	Subtransmission lines	0.03	2.42	
56	Subtransmission cables			
57	Subtransmission other	-	-	
58	Distribution lines (excluding LV)	0.35	90.45	
59	Distribution cables (excluding LV)	0.00	0.13	
60	Distribution other (excluding LV)	0.01	1.45	
51 52	10(iv): Class C Interruptions and Duration by Main Equipment Involved			
53	Main equipment involved	SAIFI	SAIDI	
54	Subtransmission lines	0.25	58.13	
65	Subtransmission cables			
66	Subtransmission other	0.07	10.32	
67	Distribution lines (excluding LV)	1.14	209.83	
68	Distribution cables (excluding LV)	0.13	13.99	
69	Distribution other (excluding LV)	0.13	4.32	
70	10(v): Fault Rate			
71	Main equipment involved	Number of Faults C	ircuit length (km)	Fault rate (fau per 100km)
72	Subtransmission lines	35	543	6
73	Subtransmission cables		157	-
	Subtransmission other	3		
74	Distribution lines (oveluding LV)	1,251	4,674	26
74 75	Distribution lines (excluding LV)			
74 75 76	Distribution lines (excluding LV) Distribution cables (excluding LV)	87	1,446	6
74 75 76 77	Distribution lines (excluding LV) Distribution cables (excluding LV) Distribution other (excluding LV)	87 75	1,446	6

Company Name	Powerco Limited

For Year Ended 31 March 2022

# Schedule 14 Mandatory Explanatory Notes

(Guidance Note: This Microsoft Word version of Schedules 14, 14a and 15 is from the Electricity Distribution Information Disclosure Determination 2012 – as amended and consolidated 9 December 2021. Clause references in this template are to that determination)

- 1. This schedule requires EDBs to provide explanatory notes to information provided in accordance with clauses 2.3.1, 2.4.21, 2.4.22, and subclauses 2.5.1(1)(f), and 2.5.2(1)(e).
- 2. This schedule is mandatory—EDBs must provide the explanatory comment specified below, in accordance with clause 2.7.1. Information provided in boxes 1 to 11 of this schedule is part of the audited disclosure information, and so is subject to the assurance requirements specified in section 2.8.
- 3. Schedule 15 (Voluntary Explanatory Notes to Schedules) provides for EDBs to give additional explanation of disclosed information should they elect to do so.

# Return on Investment (Schedule 2)

4. In the box below, comment on return on investment as disclosed in Schedule 2. This comment must include information on reclassified items in accordance with subclause 2.7.1(2).

# Box 1: Explanatory comment on return on investment

The disclosed ROI under both a Vanilla and Post tax approach for 2022 is higher than 2021 ( $\uparrow$ 191.2% to 8.40% and  $\uparrow$ 217.3% to 8.10% respectively). This is primarily driven by a \$111.1m (382.15%) increase in revaluation.

# Regulatory Profit (Schedule 3)

- 5. In the box below, comment on regulatory profit for the disclosure year as disclosed in Schedule 3. This comment must include-
  - 5.1 a description of material items included in other regulated income (other than gains / (losses) on asset disposals), as disclosed in 3(i) of Schedule 3
  - 5.2 information on reclassified items in accordance with subclause 2.7.1(2).

# Box 2: Explanatory comment on regulatory profit

Regulatory profit for the year ended 31 March 2022 is \$170.8m reflecting an increase of \$114.9m (205.72%) compared to the previous year. This was primarily due to increases in total regulatory income ( $\uparrow$ \$38.6m, 12.3%), higher revaluations ( $\uparrow$ \$111.1m, 382.2%), offset by higher operating expenditure ( $\uparrow$ \$12.5m, 13.8%), higher depreciation ( $\uparrow$ \$13.1m, 16.3%), higher pass-through and recoverable costs ( $\uparrow$ \$4.7m, 4.5%), and regulatory tax ( $\uparrow$ \$4.1m, 41.1%)

Other regulated income includes

- reimbursement of costs arising from network damage caused by a third party (e.g. income received from insurers or directly from the third parties), and
- revenue for shared corporate services provided by the regulated business to related parties.

# Merger and acquisition expenses (3(iv) of Schedule 3)

- 6. If the EDB incurred merger and acquisitions expenditure during the disclosure year, provide the following information in the box below-
  - 6.1 information on reclassified items in accordance with subclause 2.7.1(2)
  - 6.2 any other commentary on the benefits of the merger and acquisition expenditure to the EDB.

**Box 3: Explanatory comment on merger and acquisition expenditure** No merger and acquisition expenditure was incurred during the disclosure year.

# Value of the Regulatory Asset Base (Schedule 4)

7. In the box below, comment on the value of the regulatory asset base (rolled forward) in Schedule 4. This comment must include information on reclassified items in accordance with subclause 2.7.1(2).

## Box 4: Explanatory comment on the value of the regulatory asset based (rolled forward)

The closing Regulatory Asset Base (RAB) value has increased by \$232.0m (11.3%) during the year to \$2,286m. Commissioned assets ( $\uparrow$ \$15.1m, 8.2%), Revaluations ( $\uparrow$ \$111.1m, 382.2%) and Depreciation ( $\uparrow$ \$13.1m, 16.3%) were higher than 2021. Disposals ( $\downarrow$ \$27.9m, 66.5%) were lower than 2021.

The increase in revaluation is a result of the large increase in the CPI index from 2021 (1.52% compared to 6.93% in 2022).

As per 2021, the Depreciation and Disposal numbers include a provision. The provisions relate to the high WIP balance, resulting from our transition to a new ERP system. At the end of 2022 disclosure period, the Disposal provision was \$41.7m and the Depreciation provision was \$12.0m.

The adjustment resulting from asset allocations includes the below

• The removal of the 2022 movement in fibre related pole assets from the RAB. This is due to the removal of Avoidable Cost Allocation Methodology (ACAM) as a stand-alone cost allocation methodology from 01 April 2018

The asset category transfer line in Schedule 4 (vii) represents

- 1. The movement in WIP
- 2. The reclassification of substation buildings from network assets to non-network

The movements are detailed below.

Subtransmission lines (\$m)	Subtransmission cables (\$m)	Zone substations (\$m)	Distribution and LV Lines (\$m)	Distribution & LV cables (\$m)	Distribution substations & transformers (\$m)	Distribution Switchgear (\$m)	Other network assets (\$m)	Non-network assets (\$m)
\$0	(\$1)	(\$3)	(\$2)	(\$3)	(\$1)	(\$1)	\$6	\$5

# Regulatory tax allowance: disclosure of permanent differences (5a(i) of Schedule 5a)

- 8. In the box below, provide descriptions and workings of the material items recorded in the following asterisked categories of 5a(i) of Schedule 5a-
  - 8.1 Income not included in regulatory profit / (loss) before tax but taxable;
  - 8.2 Expenditure or loss in regulatory profit / (loss) before tax but not deductible;
  - 8.3 Income included in regulatory profit / (loss) before tax but not taxable;
  - 8.4 Expenditure or loss deductible but not in regulatory profit / (loss) before tax.

# Box 5: Regulatory tax allowance: permanent differences

There is \$1.7m of income that is not included in regulatory profit / (loss) before tax but is taxable. This relates predominantly to customer contribution revenue that is recognised over 10 years for tax purposes.

There is \$0.7m of expenditure in regulatory profit that is not deductible for tax relating to legal and entertainment expenditure and tool expenses that should have been capitalised.

There is no income included in regulatory profit / (loss) before tax that is not taxable.

There is \$0.2m deductible for tax but not in regulatory profit / (loss) relating to lease expenditure under NZ IFRS-16.

Regulatory tax allowance: disclosure of temporary differences (5a(vi) of Schedule 5a)

9. In the box below, provide descriptions and workings of material items recorded in the asterisked category 'Tax effect of other temporary differences' in 5a(vi) of Schedule 5a.

**Box 6: Tax effect of other temporary differences (current disclosure year)** Temporary differences amount to \$4m. The total tax effect of \$1.1m relates to:

- \$1.7m CIW income that will be recognised as taxable income over a period of 10 years
- -\$3.9m movement in employee related provisions
- \$3.6m other provisions associated with year-end
- \$2.6m prior period adjustments

# Cost allocation (Schedule 5d)

10. In the box below, comment on cost allocation as disclosed in Schedule 5d. This comment must include information on reclassified items in accordance with subclause 2.7.1(2).

# Box 7: Cost allocation

Powerco has adopted a fully distributed cost approach to allocate shared costs between Powerco's electricity distribution, gas distribution and unregulated businesses.

# Directly attributable costs

\$67.9m operating costs (65.7% of total operating costs) are directly attributable to the electricity distribution business (EDB) compared to \$59.2m in the previous disclosure year.

All operating costs except specified systems operations and network support (SONS) costs and specified business support costs are directly attributable to the specific regulated businesses. Costs that are directly attributable to the electricity distribution business primarily relate to:

- SONS (except network information services management costs)
- Customised Price-Quality Path related costs
- Network management and administration
- Customer related costs

## **Proxy allocators**

Powerco adopts ABBA (accounting-based allocation approach) to determine the cost allocators that are used to allocate operating costs not directly attributable (less any arm's length deduction) to the electricity distribution business or any other regulated service. If a causal relationship cannot be established between the cost incurred and the cost driver a proxy relationship may be used to determine the cost allocator.

Following analysis of each financial statement item by Powerco's management team and based on a combination of experience, knowledge and the comparative sizes of Powerco's regulated businesses proxy relationships have been used to allocate operating costs for which a causal relationship cannot be established. The main reason a causal relationship cannot be established is that some costs do not have just one driver. The use of one cost allocator would unfairly affect the allocation of costs between regulated businesses.

## Costs not directly attributable

\$35.5m operating costs (34.3% of total) that are not directly attributable to the EDB have been allocated to the EDB, compared to \$31.7m in the prior disclosure year.

Costs that are not directly attributable to the electricity distribution business primarily relate to SONS network information services management and business support costs.

SONS network information services management costs include personnel costs and professional service fees. A proxy fixed asset allocator based on the carrying value of network fixed assets is used.

Business support costs include personnel, professional services, information technology, building & insurance, administration and communication & marketing. The allocators vary as follows:

- Corporate services apply a proxy allocator of net revenue
- Human resources apply a proxy allocator of employee numbers
- Regulatory management apply a causal allocation of managements estimate of staff time working on electricity regulated, other regulated and unregulated services and legal apply a proxy fixed asset allocator
- Insurance apply causal allocators of indemnity values, vehicle allocations and employee numbers
- Facility costs apply a causal allocator of employee numbers and a proxy fixed assets allocator
- Information systems and projects apply a proxy fixed asset allocator

Only one allocation methodology has been applied to each functional area and there have been no changes to any cost allocator used in the current disclosure year.

Rationale for the quantifiable measure used for each proxy allocator is as follows:

Functional Area	Proxy Allocator	Rationale
Corporate Services	Net Revenue	Corporate services for the business do not only relate to asset management, therefore net revenue has been chosen as the most complete measure that encompasses all activities of the business to allocate corporate service costs.
Human Resources	Employee numbers	Human resource costs relate to managing employees of the business. Therefore an assumption can be made that the greater number of employees in a business segment, the greater the share of human resources costs required to support that segment.
Legal	Fixed Assets	A significant amount of legal costs relate to capital expenditure and existing assets. Therefore an assumption can be made the greater amount of assets in a business segment, the greater the share of legal costs required to support that segment.
Information Systems and projects	Fixed Assets	A significant amount of information systems costs relate to managing and supporting the assets of the business. Therefore an assumption can be made the greater amount of assets in a business segment, the greater the share of information system costs required to support that segment.

# Asset allocation (Schedule 5e)

11. In the box below, comment on asset allocation as disclosed in Schedule 5e. This comment must include information on reclassified items in accordance with subclause 2.7.1(2).

# Box 8: Commentary on asset allocation

\$2,214.2m (96.9%) of the total RAB value is directly attributable to the electricity distribution business (EDB). \$71.6m (3.1%) of the total RAB value is not directly attributable but has been allocated to the EDB. In the previous disclosure year, the proportionate split was 96.6% and 3.4% respectively.

The principles supporting Powerco's asset allocation are consistent with the principles supporting cost allocation described in Box 7.

Shared non-network assets have been allocated to the regulatory asset base based on the proxy allocator of fixed asset net book value.

During 2022, \$4.4m of building substation assets have been transferred from network to non-network assets. The reason for the transfer was to provide greater granularity of the assets that from 1 April 2021 we could start claiming tax depreciation on again. Refer to Schedule 15, Box 1 for additional information.

# Capital Expenditure for the Disclosure Year (Schedule 6a)

- 12. In the box below, comment on expenditure on assets for the disclosure year, as disclosed in Schedule 6a. This comment must include-
  - 12.1 a description of the materiality threshold applied to identify material projects and programmes described in Schedule 6a;
  - 12.2 information on reclassified items in accordance with subclause 2.7.1(2).

# Box 9: Explanation of capital expenditure for the disclosure year

Expenditure on assets for the year ended March 2022 totalled \$252.1m which is \$10.4m (4.3%) more than the prior year (\$241.7m). This reflects increased expenditure across consumer connection, system growth and asset relocations offset by decreased expenditure in asset replacement and renewal; reliability, safety and environment and non-network. A \$28.6m increase in consumer connection, a \$5.0m increase in system growth which is offset by a \$15.4m decrease in asset replacement and renewal and \$8.8m decrease in reliability, safety and environment. These numbers account for 92% of the increase.

# Materiality threshold

A number of capex project and programme classifications exist. Whether they are material is defined as follows:

- quality of supply project the project value exceeds 5% of the category's total value
- asset relocation project the project value exceeds \$100k
- other reliability, safety and environment project or programme expenditure exceeds \$150k
- non-network programme expenditure exceeds \$300k

# **Reclassified items**

No capital expenditure has been reclassified during the current disclosure year.

# Operational Expenditure for the Disclosure Year (Schedule 6b)

- 13. In the box below, comment on operational expenditure for the disclosure year, as disclosed in Schedule 6b. This comment must include-
  - 13.1 Commentary on assets replaced or renewed with asset replacement and renewal operational expenditure, as reported in 6b(i) of Schedule 6b;
  - 13.2 Information on reclassified items in accordance with subclause 2.7.1(2);
  - 13.3 Commentary on any material atypical expenditure included in operational expenditure disclosed in Schedule 6b, a including the value of the expenditure the purpose of the expenditure, and the operational expenditure categories the expenditure relates to.

# Box 10: Explanation of operational expenditure for the disclosure year

Operating expenditure (opex) for the year ended March 2022 totalled \$103.4m which is \$12.5m (13.8%) more than the prior year (\$90.9m). All opex categories increased during the year with the exception of vegetation management. The largest increases are routine and corrective maintenance and inspection \$4.9m, business support \$3.9m and asset replacement and renewal \$2.1m. Variances noted across the remaining opex categories are smaller and account for the balance of the total opex increase.

# Reclassified items

No items have been reclassified during this disclosure year.

# Atypical expenditure

There have been no material items of atypical expenditure.

# Variance between forecast and actual expenditure (Schedule 7)

14. In the box below, comment on variance in actual to forecast expenditure for the disclosure year, as reported in Schedule 7. This comment must include information on reclassified items in accordance with subclause 2.7.1(2).

# Box 11: Explanatory comment on variance in actual to forecast expenditure Expenditure on assets

Expenditure on assets (network and non-network) for the year ended March 2022 totalled \$252.1m which is \$6.2m (2.5%) above the 2021 Asset Management Plan (AMP) forecast (\$245.9m). This net overspend is the result of a \$4.7m (2.0%) overspend on expenditure on network assets and a \$1.5m (11.1%) overspend on expenditure on non-network assets.

# Consumer connection

Despite Covid restrictions customer development was extremely strong across all of the Powerco footprint and was well over forecast levels \$25.0m (56.4%) higher than forecast. Subdivisions and associated residential connections were exceptionally strong, along with continued development for retirement village complexes. There was also a significant amount of commercial and industrial activity, with large commercial and industrial projects and multiple light industrial subdivisions across the entire Powerco footprint. Decarbonisation projects are likely to see this industrial work continue over the next year.

# System growth

Actual expenditure on system growth is less than forecast by \$28.4m (33.9%). This variance is driven largely by delays or deferrals relating to several major and minor projects.

Significant cost estimate increases to deliver the original scope have prompted a review of alternative options for Whenuakite, Kerepehi Paeroa and Kopu-Tairua projects. For Kopu-Tairua, the decision was made to move to a combination of 11kV backup generation and third party non-network support for solving the network need in the Coromandel. The backup generation projects have progressed to design and is expected to be delivered in FY2024. We are also in the process of finalising non-network support agreements.

Delays resulting from challenges with landowner access and resource availability on several large projects (Kereone Walton, Feilding-Sanson-Bulls cable link and substation, Putaruru) have also delayed spend from FY2022 to FY2023.

# • Asset replacement and renewal

Asset replacement and renewal expenditure was higher than forecast by \$14.6m (16.9%).

Overhead renewals work was accelerated into FY2022 to fill the anticipated underspends in the growth portfolio (due to the challenges progressing major projects). This opportunity was again available to us because of a large pool of construction ready largely overhead projects in hand, with construction ready contractors available to deliver. We had higher than forecast spend on reactive ARR Capex. During FY2022, we actively pursued reducing the backlog of high priority Amber defects (resolution within 6 months). The backlog reduction is an important target in our CPP submission. We also experienced a significant storm event (Cyclone Dovi) in Feb 2022, resulting in significant repair work.

# Asset relocations

Asset relocation expenditure for FY2022 was \$3.4m (61.5%) less than the AMP2021 forecast.

Asset Relocations were mostly related to NZTA or Council roading projects throughout the Powerco Network area. The upgrade of the NZTA Northern Link road from Tauranga is by far the most significant and involves lines at 33kV, 11kV and LV. That project will continue through the next year. There were a number of smaller projects related to relocating Powerco assets for safety, such as LV fuse pillars near driveways that were vulnerable to vehicle damage.

- Reliability, safety and environment
  - Quality of supply
  - Expenditure on quality of supply was lower than forecast for the period by \$3.2m (41.2%). This reduction in expenditure was primarily due to the flow-on impacts of accelerating reliability initiatives for delivery in the preceding year (FY21.
  - Other reliability, safety and environment Expenditure on other reliability, safety and environment was largely aligned with forecast.
- Expenditure on non-network assets

Expenditure on non-network assets was \$1.5m (11.1%) over forecast. The variance resulted from the timing of a planned upgrade of the Enterprise Asset Management System.

# **Operational expenditure**

Operational expenditure (opex) totalled \$103.4m during the period which is \$5.0m (5.1%) above the 2021 Asset Management Plan (AMP) forecast (\$98.4m). Network opex was \$3.2m (7.1%) above the forecast, primarily driven by overspend on routine corrective maintenance and inspections and asset replacement and renewal, while non-network opex was \$1.8m (3.4%) above the forecast.

Commentary is provided for each category where the variance against target exceeds 5.0% (subject to the difference being material in dollar terms).

• Routine corrective maintenance and inspections

Expenditure on routine corrective maintenance and inspections was \$1.5m (8.8%) higher than forecast. The primary reason for this overspend is the completion of high value maintenance activities that had been deferred from FY21 due to planned SAIDI/SAIFI constraints.

• Asset replacement and renewal

Expenditure on asset replacement and renewal was \$2.1m (19.6%) higher than forecast. This increase can largely be attributed to higher expenditure on second response following large storms events such as Cyclone Dovi, a large fault requiring generation for a sustained period of time, and an increase in fault crew deployment to manage SAIDI levels.

# Information relating to revenues and quantities for the disclosure year

- 15. In the box below provide-
  - 15.1 a comparison of the target revenue disclosed before the start of the disclosure year, in accordance with clause 2.4.1 and subclause 2.4.3(3) to total billed line charge revenue for the disclosure year, as disclosed in Schedule 8; and
  - 15.2 explanatory comment on reasons for any material differences between target revenue and total billed line charge revenue.

# Box 12: Explanatory comment relating to revenue for the disclosure year

Powerco's actual revenue for the year ended 31 March 2022 was \$364.2 compared to target revenue of \$358.7m. There is no material difference between target revenue and total billed line charge revenue.

# Network Reliability for the Disclosure Year (Schedule 10)

16. In the box below, comment on network reliability for the disclosure year, as disclosed in Schedule 10.

## Box 13: Commentary on network reliability for the disclosure year

For the year ended March 2022 Powerco's normalised SAIDI (Class B and Class C) was 286 minutes extending the worsening trend in unplanned fault restoration durations. SAIFI (Class B and Class C) rose back to 2.49 reflecting the impact of three major storms.

The increasing SAIDI supports Powerco's analysis in its customised price path (CPP) application of underlying deterioration in the network performance, reflecting declining asset condition. This is one of the drivers for increasing our investment in asset renewal. Despite increasing expenditure across a number of areas, we expect at best, only marginal improvement in network performance (measured by the average level of unplanned interruptions) during the CPP period; but with increasing improvements over the longer term.

# Calculating reliability results

Powerco has well developed processes to capture outage / interruption information and ensure the accuracy of these records. In utilising this data to complete schedule 10 the following key calculation steps are applied:

- To calculate SAIDI and SAIFI customer connection numbers ("ICPs") are calculated from the Geographic Information System ("GIS") for the transformers affected. ICPs are updated to the GIS daily from the Electricity Registry;
- The customer connection number used in the annual calculation of SAIDI and SAIFI is the average of the daily customer numbers over the Assessment year. The sum of all customer minutes interrupted is divided by the average customer connection numbers to derive the annual SAIDI minutes and SAIFI value;
- Calculation of the final year result no longer incorporates the adjustment of three minutes per interruption across all fault records historically used to correct for practical delays affecting the recorded restoration time for many faults caused by SCADA polling delays, voice communication constraints, clock time coding discrepancies, etc. This adjustment was first removed in the March 2021 year.

# The normalised results for Powerco

The normalised result (line 37 of Schedule 10) reports SAIDI and SAIFI by applying the methodology contained in the Information Disclosure Determination (IDD).

This methodology is different to the methodology used for calculating SAIDI and SAIFI for the Customised Price-Quality Path (CPP) compliance statement therefore the actual normalised result reported in this information disclosure is not the same as the CPP quality path normalised reliability result.

The Commerce Commission is aware of this inherent inconsistency and will consider this issue in future amendments to the Information Disclosure Determination<sup>1</sup>. From 2019 the quality path normalised reliability limits are not required to be disclosed in this Schedule 10.

# The normalised results for Powerco's sub-networks

When calculating the normalised SAIDI and SAIFI for the sub-networks for the purposes of Information Disclosure, Powerco has derived normalised datasets for each sub-network using boundary values calculated using the reference dataset (2005-2009 disclosure years) for each sub-network. This approach follows one of the two options provided by the Commerce Commission in its Issues Register for Electricity and Gas Information Disclosure<sup>2</sup>). Powerco has chosen this option as we consider it provides a more meaningful analysis of the actual performance of each sub-network than the alternative option of applying a Powerco wide network boundary value to the sub-networks.

# Insurance cover

17. In the box below, provide details of any insurance cover for the assets used to provide electricity distribution services, including-

<sup>&</sup>lt;sup>1</sup> Commerce Commission's issues register for gas and electricity information disclosure, item number 447.

<sup>&</sup>lt;sup>2</sup> Commerce Commission's issues register for gas and electricity information disclosure, item number 231.

- 17.1 The EDB's approaches and practices in regard to the insurance of assets used to provide electricity distribution services, including the level of insurance;
- 17.2 In respect of any self insurance, the level of reserves, details of how reserves are managed and invested, and details of any reinsurance.

# Box 14: Explanation of insurance cover

Powerco holds significant insurance cover relating to material damage and business interruption, targeted at key assets. This includes full cover for buildings and contents, substations and IS server equipment, and natural disaster cover for distribution transformers and SCADA equipment.

Powerco continues to prudently insure our network and other assets where it is economically feasible to do so, in line with good industry practice. Cover for poles, wires and pipes (commonly referred to as transmission and distribution cover) are, for all practical purposes, unavailable in NZ. Where it may be available in small amounts across our geographic region, the cost is considered to be uneconomic versus the risk, as there is a restricted retained limit and a premium cost of 10-15% of the sum insured.

To manage the immediate financial exposure to a catastrophic event affecting uninsured assets, the company maintains headroom in its debt facilities as explained below. The geographically diverse nature of Powerco's assets, and the resilience of those assets, also provides some practical mitigation of seismic risks.

Powerco maintains debt facilities, in excess of net (drawn) debt, that would be available for use should events occur which require extra funds to be made available quickly. This headroom amount is in excess of our day-to-day working capital requirements.

The value of this facility headroom, currently \$100 million, is based primarily on an assessment of the uninsured damage to Powerco's network assets undertaken by Marsh Risk Consulting. This analysis reviewed the catastrophic risk and expected loss from a catastrophic event, and was last assessed at \$70-96 million.

Insurance costs are allocated to Powerco's separate businesses following Powerco's allocation policies discussed earlier in this document.

# Amendments to previously disclosed information

- 18. In the box below, provide information about amendments to previously disclosed information disclosed in accordance with clause 2.12.1 in the last 7 years, including:
  - 18.1 a description of each error; and
  - 18.2 for each error, reference to the web address where the disclosure made in accordance with clause 2.12.1 is publicly disclosed.

**Box 15: Disclosure of amendment to previously disclosed information** There have been no amendments to previously disclosed information. Company Name Powerco Limited

For Year Ended 31 March 2022

# Schedule 15 Voluntary Explanatory Notes

(In this Schedule, clause references are to the Electricity Distribution Information Disclosure Determination 2012 – as amended and consolidated 9 December 2021.)

- 1. This schedule enables EDBs to provide, should they wish to-
  - 1.1 additional explanatory comment to reports prepared in accordance with clauses 2.3.1, 2.4.21, 2.4.22, 2.5.1 and 2.5.2;
  - 1.2 information on any substantial changes to information disclosed in relation to a prior disclosure year, as a result of final wash-ups.
- 2. Information in this schedule is not part of the audited disclosure information, and so is not subject to the assurance requirements specified in section 2.8.
- 3. Provide additional explanatory comment in the box below.

# Box 1: Voluntary explanatory comment on disclosed information Finance (schedules 2-7)

# Weighted average remaining useful life of assets (schedule 4)

The weighted average remaining useful life of assets has been calculated in accordance with Schedule 16 of the Information Disclosure Determination which specifies the weighting is based on opening RAB values. Opening RAB is a depreciated value that skews the weighted average remaining useful life value towards the newer, and consequently, higher value longer remaining life assets. This measure is therefore not a true reflection of the age of Powerco's assets.

It is also important to note that asset age, particularly total average remaining asset life, is not a key driver of the need to replace network assets. Good asset management practice would suggest this is primarily driven by overall asset health – i.e. condition/performance/criticality. For this reason, Powerco's forecast investment profiles set out in the company's current Asset Management Plan are not directly linked to addressing specific movements in average asset age although this is one of a number of key considerations.

## Disposals and Depreciation provisions

As noted in Box 4 the disposals and depreciation result for the current year include provisions related to Commissioned WIP that is included in RAB.

Powerco implemented a new ERP system in the 2020 Disclosure year, and since this implementation, the balance of assets that are commissioned but remain in WIP has increased significantly. Any disposal or depreciation related to these new assets is not fully captured in the ERP system. This had highlighted the need to include provisions in 2021, to reflect that the growth in value of Commissioned WIP should also result in disposals related to the commissioned WIP, and depreciation where the assets have been included in commissioned WIP for more than one year. These provisions have been recalculated in 2022.

The disposal and depreciation provisions apply the same methodology as is used for accounting, while also ensuring that these provisions are calculated in line with the relevant Input Methodology.

The high level of disposals included in 2021 reflected the change in methodology.

The provision included in 2022 captures new assets included in commissioned WIP this year, and assets that remain in commissioned WIP from previous years.

This provision-based approach will be used in future years.



- Powerco NZ Holdings Limited does not trade. Its purpose is to form a corporate group through share ownership.
- Powerco Limited is primarily a regulated electricity and gas distribution business. It also conduct's unregulated activities such as gas metering and includes a business development team to identify and take advantage of both regulated and unregulated opportunities. Powerco Limited provides business support services to Base Power Ltd and the unregulated 'parts' of the regulated business.
- The Gas Hub Limited and Powerco Transmission Limited are not active.
- Base Power Limited provides remote area power supply units to the market and Powerco's Electricity Distribution business.

Referencing limb b) of the related party definition, Powerco Limited's internal related parties include:

• Gas metering

All related party transactions are valued on an equivalent arm's length basis. Powerco Limited has not adopted the consolidation approach. Depending on the type of transaction the valuation method may require the application of a:

- a) market-tested value; or
- b) market-tested margin.

Powerco applies a market-tested value to expenditure on assets purchased from Base Power Ltd.

Powerco applies a market-tested margin to regulatory income for business support services provided to related parties. To ensure Powerco's valuation of related party transactions is based on an objective and independent measure, PwC were engaged to report the margin benchmarks observed in the market for relevant corporate services.

• The equivalent arm's length value of services provided to Base Power Limited is \$7.2k, of which 100% is allocated to Powerco's Electricity Distribution business.

• The equivalent arm's length value of services provided to Gas metering is \$526k, of which 0% is allocated to Powerco's Electricity Distribution business.

# Overhead to underground conversion (schedule 6a)

Powerco does not collect information separately where the conversion from overhead line to underground cable forms part of a larger project. The capital expenditure for this metric reported in schedule 6a is for those projects that are only converting overhead distribution to underground.

# Asset Information (schedules 9a-9c)

Asset management system

• The new ERP system in 2020 continues to be bedded-in with ongoing impact to asset data outcomes.

# Data quality

• Powerco's network is made up of fifteen legacy lines networks that have been amalgamated over time and this diversity continues to present challenges. We continue to invest in improving asset data quality and completeness and, whilst we believe it is adequate for business purposes and in line with the levels of quality available by other electricity distributors, there are some known limitations with key points are noted as follows:

- Underlying asset data comprises a comprehensive set of network information that is generally complete and consistently applied. However, a small proportion of the asset data is either internally conflicting or not wholly reliable and, for a small number of asset categories, there are also gaps in the attribute information.
- Ongoing programmes of work are continually improving the completeness and accuracy of our asset data. This
  work can impact asset quantities and age profile.
- Some asset ages have been estimated after initial data capture. While based on the best information available, these estimates contain some assumptions.
- Consumer service connections are not explicitly recorded as assets.

# Asset categorisation

Powerco operates network assets which do not clearly fit into a specified category, such as reclosers in zone substations. These assets have been included in the category that most closely relates to the asset type and function, in accordance with guidance of the Commission's issues register for electricity disclosure.

## Low voltage circuit length

• Powerco notes that low voltage circuit length has been calculated in accordance with information provided by the Commission. This requires low voltage service lines in transport corridors (other than road crossings) to be excluded. For completeness, Powerco considers that this definition understates the practical circuit length under management by Powerco.

## **Consumer Service Connections**

• In disclosures prior to 2022 consumer service connections were inferenced using a bespoke process. Asset management system streamlining has obsoleted that process and replaced it with ICP reporting. This resolves previous incompleteness but introduces an increased level of unknown and assumed age information.

# Circuits in sensitive areas

Powerco does not record sensitive area geography and therefore no circuit length is reported for this criterion.

# Circuit length under vegetation management

• Powerco's vegetation management policy applies to the whole overhead electricity network. Subject to annual budget constraints, this strategy involves an intensive trimming period in high criticality areas until the areas are under control and then a reduction to a sustainable level of vegetation management to maintain clearance from the lines.

## Transformer capacity (schedule 9e)

# Distribution transformer capacity

• Disclosed distribution transformer capacity includes transformers that are recorded as being network connected. Assumptions have been made for operational distribution substations where installed capacity is not known.

## Zone substation transformer capacity

Powerco owns transformers provided by various suppliers with ratings calculated at varying temperatures. The capacity disclosed uses a standardised rating for continuous operation at 20°C. The 2022 total includes some additional capacity resulting from refreshed calculations.

# Successive interruptions (Schedule 10)

As required by the exemption granted 17 May 2021 Powerco confirms that successive interruptions have been treated in the same way for the 2022 disclosure as they were for the 2021 disclosures.

Powerco's methodology for recognising successive interruptions is summarised below.

- If supply is cut for more than 1 minute SAIDI and SAIFI will apply
- If supply is restored for less than 1 minute it is a continuation of the initial interruption. SAIDI continues to apply and there isn't a new SAIFI
- If supply is restored for more than 1 minute but then fails again for greater than 1 minute SAIDI applies, and this event incurs a new SAIFI. There is a no SAIDI component whilst the power is on

# **Directors Certificate**



# **Electricity Distribution Services Information Disclosure**

For the year ended 31 March 2022

Certificate for year-end disclosures Pursuant to clause 2.9.2 of section 2.9

# We, John Loughlin and Paul Callow

being directors of Powerco Limited certify that, having made all reasonable enquiry, to the best of our knowledge -

- a) The information prepared for the purposes of clauses 2.3.1, 2.3.2, 2.4.21, 2.4.22, 2.5.1, 2.5.2 and 2.7.1 of the Electricity Distribution Information Disclosure 2012 in all material respects complies with that determination; and
- b) The historical information used in the preparation of Schedules 8, 9a, 9b, 9c, 9d, 9e, 10, and 14 has been properly extracted from the Powerco Limited's accounting and other records sourced from its financial and non-financial systems, and that sufficient appropriate records have been retained.
- c) In respect of information concerning assets, costs and revenues valued or disclosed in accordance with clause 2.3.6 of the Electricity Distribution Information Disclosure Determination 2012 and clauses 2.2.11(1)(g) and 2.2.11(5) of the Electricity Distribution Services Input Methodologies Determination 2012, we are satisfied that-
  - the costs and values of assets or goods or services acquired from a related party comply, in all material respects, with clauses 2.3.6(1) and 2.3.6(3) of the Electricity Distribution Information Disclosure Determination 2012 and clauses 2.2.11(1)(g) and 2.2.11(5)(a)-2.2.11(5)(b) of the Electricity Distribution Services Input Methodologies Determination 2012; and
  - ii. the value of assets or goods or services sold or supplied to a related party comply, in all material respects, with clause 2.3.6(2) of the Electricity Distribution Information Disclosure Determination 2012.

Director 2022 8 15+ Date

Director

2022 157 Date

## **INDEPENDENT AUDITOR'S REPORT**

TO THE DIRECTORS OF POWERCO LIMITED AND THE COMMERCE COMMISSION

# Report on the Disclosure Information prepared in accordance with the Electricity Distribution Information Disclosure Determination 2012 (consolidated December 2021)

We have conducted a reasonable assurance engagement on whether the information disclosed by Powerco Limited (the 'Company') required to be disclosed in accordance with the Electricity Information Disclosure Determination 2012 (consolidated December 2021) (the 'Determination') for the disclosure year ended 31 March 2022, has been prepared in all material respects, in accordance with the Determination.

The information required to be reported by the Company, under the Determination is in Schedule 1 to 4, 5a to 5g, 6a and 6b, 7, 10, and the explanatory notes in boxes 1 to 11 of Schedule 14 ('the Disclosure Information').

Further, we have conducted a reasonable assurance engagement on whether the Company's basis for valuation of related party transactions ('the Related Party Transaction Information') for the disclosure year ended 31 March 2022, has been prepared, in all material respects, in accordance with clauses 2.3.6 of the Determination, and clauses 2.2.11(1)(g) and 2.2.11(5) of the Electricity Distribution Services Input Methodologies Determination 2012 (consolidated May 2020) ('the Input Methodologies Determination').

## Opinion

This opinion has been formed on the basis of, and is subject to, the inherent limitations outlined elsewhere in this independent assurance report.

In our opinion:

- The Company has complied, in all material respects, with the Determination in preparing the Disclosure Information;
- The Related Party Transaction Information complies, in all material respects, with the Determination and the Input Methodologies Determination;
- As far as appears from an examination of them, proper records to enable the complete and accurate compilation of the Disclosure Information and the Related Party Transaction information have been kept by the Company; and
- As far as appears from an examination of the records, the information used in the preparation of the Disclosure Information and the Related Party Transaction Information has been properly extracted from the Company's accounting and other records and has been sourced, where appropriate, from the Company's financial and non-financial systems.

## **Basis of opinion**

We conducted our engagement in accordance with the International Standard on Assurance Engagements (New Zealand) 3000 (Revised): *Assurance Engagements Other Than Audits or Reviews of Historical Financial Information* and the Standard on Assurance Engagements 3100 (Revised): *Compliance Engagements* issued by the New Zealand Auditing and Assurance Standards Board. Copies of these standards are available on the External Reporting Board's website.

These standards require that we comply with ethical requirements and plan and perform our assurance engagement to provide reasonable assurance about whether the Disclosure Information has been prepared, in all material respects, with the Determination, and about whether the Related Party Transaction Information has been prepared, in all material respects, with the Determination and the Input Methodologies Determination. Reasonable assurance is a high level of assurance.

We believe that the evidence we have obtained is sufficient and appropriate to provide a basis for our conclusion.

# Key assurance matters

Key assurance matter are those matters that, in our professional judgement, were of most significance in our assurance procedures of the Disclosure Information. These matters were addressed in the context of our audit of the Disclosure Information, and in forming our opinion thereon, and we do not provide a separate opinion on these matters.

Key assurance matter	How our procedures addressed the key assurance matter
Capital expenditure and assets commissione	d into the regulatory asset base ('RAB')
The Company carries out a large number of individual network system projects that can be either operational (network maintenance) or capital (asset replacement or network growth) in nature. Capital expenditure in the current year was \$210 million and commissioned assets in to the RAB of \$199 million, compared to network operating expenditure of \$103 million. Capital expenditure and assets commissioned into the RAB are a key assurance matter due to the significant judgment pertaining to the assessment of whether the capital expenditure and assets commissioned meet the definition under the Determination.	<ul> <li>Our procedures on capital expenditure and commissioned assets into the RAB included the following:</li> <li>Assessing the Company's capitalisation policy was in line with NZ IAS 16 – Property, plant and equipment, NZ IFRS 16 – Leases and NZ IAS 38 – Intangible assets;</li> <li>Evaluating the design and implementation of controls over the classification of network expenditure;</li> <li>Examining a sample of capital expenditure and assets included in the RAB to invoice(s) or other supporting information to determine whether the expenditure met the capitalisation criteria in the Determination; and</li> <li>Comparing the assets commissioned into the RAB to those commissioned for financial statement purposes and investigating any significant variances.</li> </ul>
Valuation of the provision for asset disposals	5
As detailed in Schedule 14 and Schedule 15, the Company included a provision for assets disposals amounting to \$41 million in the regulatory asset base disclosed in the information disclosure Schedule 4. The provision is calculated using an input assumption based on historical trends. The input factor is applied against the proportion of asset replacement and renewals in commissioned assets. This is a key assurance matter due to the quantum of the balance and the level of judgement required in determining the actimate	<ul> <li>Our procedures on management's estimation of the provision for asset disposals included the following:</li> <li>Evaluating the design and implementation of key controls over the disposals provision;</li> <li>Assessing key assumptions against internal information such as disposals and capitalisation history;</li> <li>Assessing changes in assumptions and methodologies from prior periods;</li> <li>Testing the arithmetical accuracy of the calculation; and</li> <li>Evaluating the sensitivity of the calculation to changes in the</li> </ul>

#### Key assurance matter

#### How our procedures addressed the key assurance matter

Completeness and accuracy of System Average Interruption Duration Index ('SAIDI') and System Average Interruption Frequency Index ('SAIFI')

The Determination defines certain quality measures in relation to the number of interruptions, faults, cause of faults and the average SAIDI and SAIFI values.

SAIFI and SAIDI is calculated using aggregate faults and interruptions information for the period through prescribed formulas and requirements per Attachment B of the Determination.

The completeness and accuracy of SAIDI and SAIFI is a key assurance matter due to the reliance on manual switching sheets to inform the data entry of interruption information for a large volume of faults.

Additionally, the SAIDI and SAIFI calculation is subject to manual adjustments processed to normalise the calculation. Our procedures on the completeness and accuracy of SAIDI and SAIFI included the following:

- Obtaining a robust understanding of the Company's methods for recording electricity outages and their duration;
- Evaluating the design and implementation of key controls related to the recording and the reviewing of outage data;
- Utilising media searches to assess whether there are major events omitted from the outages recorded;
- On a sample basis, we selected faults recorded on the outage database and traced the number of customers, number of minutes, the class type and fault cause to the information recorded on the outage listing;
- On a sample basis, we selected faults recorded on the switching sheets and traced the number of customers, number of minutes, the class type and fault cause to the information recorded in the system and the information recorded on the outage listing;
- Where a manual adjustment is processed, for planned or unplanned, we have, on a sample basis, obtained supporting information for the adjustment;
- Recalculating the normalised SAIDI and SAIFI according to the methodology of the Determination; and
- Reviewing the disclosures in Schedule 15 in respect of the treatment of successive interruptions.

# Responsibilities of the Board of Directors for the Disclosure Information and Related Party Transaction Information

The Board of Directors is responsible on behalf of the Company for the preparation of the Disclosure Information and Related Party Transaction Information in accordance with the Determination. The responsibility includes the design, implementation and maintenance of internal control relevant to the Company's preparation of the Disclosure Information and the Related Party Transaction Information with the Determination.

## **Our Independence and Quality Control**

We have complied with the independence and other ethical requirements of Professional and Ethical Standard 1 International Code of Ethics for Assurance Practitioners (including International Independence Standards) (New Zealand) ('PES-1') issued by the New Zealand Auditing and Assurance Standards Board, which is founded on fundamental principles of integrity, objectivity, professional competence and due care, confidentiality and professional behaviour.

Other than in our capacity as auditor and the provision of other assurance services including the audit of financial statements, the audit of regulatory disclosure statements and greenhouse gas assurance, we have no relationship with or interests in the Company or any of its subsidiaries. These services have not impaired our independence as auditor of the Company as required by the Determination.

The firm applies Professional and Ethical Standard 3 (Amended): *Quality Control for Firms that Perform Audits and Reviews of Financial Statements, and Other Assurance Engagements* issued by the New Zealand Auditing and Assurance Standards Board, and accordingly maintains a comprehensive system of quality control including documented policies and procedures regarding compliance with ethical requirements, professional standards and applicable legal and regulatory requirements.

## Our responsibility for the audit of the Disclosure Information and the Related Party Transaction Information

Our responsibility is to express an opinion whether the Disclosure Information and the Related Party Transaction Information has been prepared, in all material respects, in accordance with the Determination and the Input Methodologies Determination. ISAE 3000 (Revised) and SAE 3100 (Revised) require that we plan and perform our procedures to obtain reasonable assurance that the Company has complied, in all material respects, with the Determination and the Input Methodologies Determination in relation to the preparation of the Disclosure Information and the Related Party Transaction Information.

An assurance engagement to report on the Company's preparation of the Disclosure Information and the Related Party Transaction Information in accordance with the Determination and the Input Methodologies Determination involves performing procedures to obtain evidence about the compliance activity and controls implemented to meet the requirements of the Determination and the Input Methodologies Determination. The procedures selected depend on our judgement, including the identification and assessment of risk of material non-compliance with the Determination and the Input Methodologies Determination.

We have performed procedures to obtain evidence about the amounts and disclosures in the Disclosure Information and the basis of valuation in the Related Party Transaction Information. The procedures selected depend on our judgement, including the assessment of the risks of material misstatement of the Disclosure Information and Related Party Transaction Information, whether due to fraud or error or non-compliance with the Determination or the Input Methodologies Determination. In making those risk assessments, we considered internal control relevant to the Company's preparation of the Disclosure Information and Related Party Transaction Information in order to design procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control.

## **Inherent Limitations**

Because of the inherent limitations of a reasonable assurance engagement, and the test basis of the procedures performed, it is possible that fraud, error or non-compliance may occur and not be detected.

We did not examine every transaction, adjustment or event underlying the Disclosure Information or the Related Party Transaction Information nor do we guarantee complete accuracy of the Disclosure Information or the Related Party Transaction Information. Also we did not evaluate the security and controls over the electronic publication of the Disclosure Information or the Related Party Transaction Information.

The opinion expressed in this report has been formed on the above basis.

# Use of Report

This independent assurance report has been prepared solely for the directors of the Company and the Commerce Commission for the purpose of providing those parties with reasonable assurance about whether the Disclosure Information has been prepared, in all material respects, in accordance with the Determination, and about whether the Related Party Transaction Information has been prepared, in all material respects, in accordance with the Determination and the Input Methodologies Determination.



We disclaim any assumption of responsibility for any reliance on this report to any person other than the directors of the Company or the Commerce Commission, or for any other purpose than that for which it was prepared.

Deloitte Limited

**Chartered Accountants** 18 August 2022 Auckland, New Zealand