

# EDB Information Disclosure Requirements Information Templates for

Schedules 1–10

Company Name Disclosure Date Disclosure Year (year ended)

Powerco Limited
31 August 2023
31 March 2023

Templates for Schedules 1–10 excluding 5f–5g Template Version 5.1. Prepared 24 November 2022

## **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
- 10. Schedule 10

## **Changes Since Previous Version**

Refer to the Targeted Information Disclosure Review - Electricity Distribution Businesses Final reasons paper - Tranche 1, for the details of changes made. A summary is provided in Chapter 2.

Company Name	Powerco Limited
For Year Ended	31 March 2023

## **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 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

18 19

20

21

22

42

#### 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	22,442	312	114,296	3,827	31,396
10	Network	10,478	146	53,361	1,787	14,658
11	Non-network	11,965	166	60,935	2,040	16,738
12						
13	Expenditure on assets	58,797	818	299,445	10,027	82,255
14	Network	56,450	785	287,490	9,627	78,971
15	Non-network	2,347	33	11,954	400	3,284
16 17	1(ii): Revenue metrics					

Revenue per GWh energy delivered to ICPs (\$/GWh)	Revenue per average no. of ICPs (\$/ICP)	
78,769	1,096	
105,512	901	
36,433	101,546	

#### 23 1(iii): Service intensity measures

Total consumer line charge revenue

Standard consumer line charge revenue

Non-standard consumer line charge revenue

24					
25	Demand density	Maximum coincident system demand per km of circuit length (for supply) (kW/km)			
26	Volume density	171	Total energy delivered to ICPs per km of circuit length (for supply) (MWh/km)		
27	Connection point density	12	Average number of ICPs per km of circuit length (for supply) (ICPs/km)		
28	Energy intensity	13,909	Total energy deliv	vered to ICPs per ave	erage number of ICPs (kWh/ICP)
29					
30	1(iv): Composition of regulatory income				
31			(\$000)	% of revenue	
32	Operational expenditure		111,324	28.29%	
33	Pass-through and recoverable costs excluding financial incentive	es and wash-ups	110,598	28.11%	
34	Total depreciation		103,563	26.32%	
35	Total revaluations		151,386	38.47%	
36	Regulatory tax allowance		14,903	3.79%	
37	Regulatory profit/(loss) including financial incentives and wash-ups		201,980	51.33%	
38	Total regulatory income		393,491		
39		•			

# 40 **1(v): Reliability**

Interruption rate

Interruptions per 100 circuit km

22.89

	Company Name	Po	owerco Limited	
	For Year Ended	3	31 March 2023	
SC	HEDULE 2: REPORT ON RETURN ON INVESTMENT			
thei prov EDB	schedule requires information on the Return on Investment (ROI) for the EDB relative to the Commerce Commission's estima 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 makes this ele vided in 2(iii). Is must provide explanatory comment on their ROI in Schedule 14 (Mandatory Explanatory Notes). Information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to t	ction, information sup	porting this calculat	ion must be
sch ref	f			
7	2(i): Return on Investment	CY-2	CY-1	Current Year CY
8		31 Mar 21	31 Mar 22	31 Mar 23
9	ROI – comparable to a post tax WACC	%	%	%
10	Reflecting all revenue earned	2.55%	8.10%	8.37%
11	Excluding revenue earned from financial incentives	2.52%	8.11%	8.41%
12 13	Excluding revenue earned from financial incentives and wash-ups	2.54%	8.13%	8.43%
13 14	Mid-point estimate of post tax WACC	3.72%	3.52%	4.88%
15	25th percentile estimate	3.04%	2.84%	4.20%
16	75th percentile estimate	4.40%	4.20%	5.56%
17				
18 10	POL comparable to a vanilla WACC			
19 20	ROI – comparable to a vanilla WACC	2.88%	8 40%	0.000/
20 21	Reflecting all revenue earned Excluding revenue earned from financial incentives	2.88%	8.40% 8.41%	8.88% 8.92%
22	Excluding revenue earned from financial incentives and wash-ups	2.88%	8.43%	8.94%
23		••	<b>I</b>	
24	WACC rate used to set regulatory price path	4.57%	4.57%	4.57%
25				
26	Mid-point estimate of vanilla WACC	4.05%	3.82%	5.39%
27	25th percentile estimate	3.37% 4.73%	3.14%	4.71%
28 29	75th percentile estimate	4.73%	4.50%	6.07%
30 31	2(ii): Information Supporting the ROI		(\$000)	
32	Total opening RAB value	2,285,796		
33	plus Opening deferred tax	(88,512)		
34	Opening RIV	L	2,197,284	
35		г	200 720	
36	Line charge revenue	L	390,730	
37 38	Expenses cash outflow	221,922		
39	add Assets commissioned	255,747		
40	less Asset disposals	(745)		
41	add Tax payments	(3,190)		
42	less Other regulated income	2,762	1	
43 44	Mid-year net cash outflows	L	472,462	
44 45	Term credit spread differential allowance	Г	2,509	
46		L		
47	Total closing RAB value	2,589,537		
48	less Adjustment resulting from asset allocation	(574)		
49	less Lost and found assets adjustment	-		
50 51	plus Closing deferred tax	(106,605)	2 492 505	
51 52	Closing RIV	L	2,483,506	
53	ROI – comparable to a vanilla WACC		Γ	8.88%
54				
55	Leverage (%)			42%
56	Cost of debt assumption (%)			4.38%
57	Corporate tax rate (%)			28%
58 59	ROI – comparable to a post tax WACC		г	8.37%
60				0.3770
00				

				Company Name		Powerco Limited		
				For Year Ended		31 March 2023		
	HEDULE 2: REPORT ON RETUR							
	schedule requires information on the Return on I							
	their ROI based on a monthly basis if required by clause 2.3.3 of the ID Determination or if they elect to. If an EDB makes this election, information supporting this calculation must be provided in 2(iii).							
	s must provide explanatory comment on their RO						2.0	
	information is part of audited disclosure information	tion (as defined in section	1.4 of the ID determination),	and so is subject to t	he assurance repor	t required by section	2.8.	
sch rej 61	2(iii): Information Supporting th	e Monthly ROI						
62		,,						
63 64	Opening RIV						N/A	
65								
66		Line charge	Expenses cash outflow	Assets	Asset	Other regulated	Monthly net cash	
67	April	revenue		commissioned	disposals	income	outflows –	
68	May						_	
69 70	June						-	
70 71	July August						-	
72	September							
73	October						-	
74	November						-	
75	December						-	
76 77	January February						-	
78	March							
79	Total	-	-	-	-	-	-	
80		·						
81 82	Tax payments						N/A	
83	Term credit spread differential allo	owance					N/A	
84								
85 86	Closing RIV						N/A	
86 87								
88	Monthly ROI – comparable to a vanil	la WACC					N/A	
<i>89</i>								
90 91	Monthly ROI – comparable to a post	tax WACC					N/A	
92	2(iv): Year-End ROI Rates for Cor	mparison Purpose	s					
93								
94 95	Year-end ROI – comparable to a vanil	lla WACC					8.76%	
96	Year-end ROI – comparable to a post	tax WACC					8.25%	
97								
98 99	* these year-end ROI values are comp	arable to the ROI reporte	d in pre 2012 disclosures by EL	Bs and do not repre	sent the Commissio	n's current view on Ri	ЭІ.	
100	2(v): Financial Incentives and Wa	ash-Ups						
101	. /						_	
102	Net recoverable costs allowed under	-	entive scheme			-		
103	Purchased assets – avoided transm					_		
104 105	Energy efficiency and demand incer Quality incentive adjustment	ntive allowance				- (1,103)		
105	Other financial incentives					(1,103)		
107	Financial incentives						(1,103)	
108								
109	Impact of financial incentives on ROI						-0.04%	
111	Input methodology claw-back					-		
112	CPP application recoverable costs					-		
113	Catastrophic event allowance					-		
114 115	Capex wash-up adjustment Transmission asset wash-up adjusti	ment				(612)		
115 116	2013–15 NPV wash-up allowance							
117	Reconsideration event allowance							
118	Other wash-ups					-		
119	Wash-up costs						(612)	

Impact of wash-up costs on ROI

121

-0.02%

Company Name	Powerco Limited
For Year Ended	31 March 2023
SCHEDULE 2: BEDORT ON RECULATORY BROEIT	

#### SCHEDULE 3: REPORT ON REGULATORY PROFIT

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

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

sch r	ef			
7	3(i): Regulatory Profit	(\$000)		
8	Income			
9	Line charge revenue	390,730		
10	plus Gains / (losses) on asset disposals	1,100		
11	plus Other regulated income (other than gains / (losses) on asset disposals)			
12				
13	Total regulatory income	393,491		
14	Expenses			
15	less Operational expenditure	111,324		
16				
17	less Pass-through and recoverable costs excluding financial incentives and wash-ups	110,598		
18				
19	Operating surplus / (deficit)	171,569		
20				
21	less Total depreciation	103,563		
22				
23	plus Total revaluations	151,386		
24 25	Degulatory rysfit (/loca) hofeys tay	219,392		
25	Regulatory profit / (loss) before tax	219,392		
20	less Term credit spread differential allowance	2,509		
28				
29	less Regulatory tax allowance	14,903		
30				
31	Regulatory profit/(loss) including financial incentives and wash-ups	201,980		
32				
33	3(ii): Pass-through and Recoverable Costs excluding Financial Incentives and Wash-Ups	(\$000)		
34	Pass through costs			
35	Rates	2,171		
36	Commerce Act levies	951		
37	Industry levies	1,207		
38	CPP specified pass through costs	-		
39	Recoverable costs excluding financial incentives and wash-ups	02.002		
40	Electricity lines service charge payable to Transpower	93,892		
41	Transpower new investment contract charges	7,238		
42 43	System operator services			
43	Distributed generation allowance Extended reserves allowance			
44	Other recoverable costs excluding financial incentives and wash-ups			
46	Pass-through and recoverable costs excluding financial incentives and wash-ups	110,598		
47				
-77				

Company Name	Powerco Limited
For Year Ended	31 March 2023
SCHEDULE 3: REPORT ON REGULATORY PROFIT	

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

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

sch re	ef				
48	3(iii): Increme	ntal Rolling Incentive Sch	eme	(\$0	000)
49				CY-1	СҮ
50				31 Mar 22	31 Mar 23
51	Allowed co	ntrollable opex		-	_
52	Actual cont	rollable opex		-	-
53					
54	Incrementa	l change in year			_
55					
					Previous years'
				Previous years'	incremental
				incremental	change adjusted
56				change	for inflation
57	CY-5	31 Mar 18		-	-
58	CY-4	31 Mar 19		_	_
59	CY-3	31 Mar 20			-
60	CY-2	31 Mar 21		-	-
61	CY-1	31 Mar 22		-	-
62	Net increme	tal rolling incentive scheme			-
63					
64	Net recovera	ole costs allowed under incremental rollin	ng incentive scheme		-
65	3(iv): Merger ar	d Acquisition Expenditure			
70					(\$000)
66	Merger and	acquisition expenditure			_
67					
	Provida cor	montany on the henefits of margar and a	cquisition expenditure to the electricity distribution business, including r	aquirad disclosuras	in accordance with
68		in Schedule 14 (Mandatory Explanatory N		equired disclosures	
69	3(v): Other Disc	osuras			
	S(V). Other Disc	USUIES			
70					(\$000)
71	Self-insurar	ce allowance			

Company Name	Powerco Limited
For Year Ended	31 March 2023
SCHEDULE 4. REPORT ON VALUE OF THE REGULATORY ASSET BASE (ROLLED FORWARD)	

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

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

	4(i): Regulatory Asset Base Value (Rolled Forward)		RAB	RAB	RAB	RAB	RAB
	8	for year ended	31 Mar 19	31 Mar 20	31 Mar 21	31 Mar 22	31 Mar 23
	9		(\$000)	(\$000)	(\$000)	(\$000)	(\$000)
1			1,657,737	1,787,100	1,962,910	2,053,806	2,285,796
1	1						
1			67,008	69,808	80,369	93,441	103,563
1	3			<u> </u>			
1			24,327	44,763	29,063	140,129	151,386
1	5			<u> </u>			
1			185,313	208,182	184,197	199,318	255,747
1	7			<u> </u>			
1			12,096	7,414	42,007	14,079	(745)
1	9			<u> </u>			
2			-	-	_	-	-
2	1						
2			(1,173)	86	11	62	(574)
2	3						
2	4 Total closing RAB value		1,787,100	1,962,910	2,053,806	2,285,796	2,589,537
2	5						

	Company Name	Powerco Limited						
	For Year Ended	31 March 2023						
SC	SCHEDULE 4: REPORT ON VALUE OF THE REGULATORY ASSET BASE (ROLLED FORWARD)							
EDE	This schedule requires information on the calculation of the Regulatory Asset Base (RAB) value to the end of this disclosure year. This informs the ROI calculation in Schedule 2. EDBs must provide explanatory comment on the value of their RAB in Schedule 14 (Mandatory Explanatory Notes). This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.							
sch re	f							
26	4(ii): Unallocated Regulatory Asset Base							

	(				
27		Unallocat	ed RAB *	RA	В
28		(\$000)	(\$000)	(\$000)	(\$000)
29	Total opening RAB value		2,301,428	l i i [	2,285,796
30	less		2,002,120	L	2,200,700
31	Total depreciation		105,484	Γ	103,563
32	plus				
33	Total revaluations		152,218		151,386
34	plus				
35	Assets commissioned (other than below)	257,019		255,212	
36	Assets acquired from a regulated supplier	_		-	
37	Assets acquired from a related party	535		535	
38	Assets commissioned		257,554		255,747
39	less				
40	Asset disposals (other than below)	(715)		(745)	
41	Asset disposals to a regulated supplier			-	
42	Asset disposals to a related party			-	
43	Asset disposals		(715)		(745)
44					
45	plus Lost and found assets adjustment		-		-
46				r	
47	plus Adjustment resulting from asset allocation			L	(574)
48				г	0.500.50-
49	Total closing RAB value		2,606,431	L	2,589,537
	* The 'unallocated RAB' is the total value of those assets used wholly or partially to provide electricity distribution services without any allowance being made for the alloca	ation of costs to se	rvices provided by	he supplier that a	are not

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

		Company Name	Ро	werco Limite	d
		For Year Ended	3	1 March 2023	
SC	CHEDULE 4: REPORT ON VALUE OF THE REGULATORY ASSET BASE (ROLLED FORWARD)	L			
	s 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	,			
	3 senerate requires information on the value of their RAB in Schedule 14 (Mandatory Explanatory Notes). This information is part of audited disclosure information (		4 of the ID deterr	nination), and so i	s subject to the
	urance report required by section 2.8.				
cob rot	4				
sch ref					
52 52	4(iii): Calculation of Revaluation Rate and Revaluation of Assets				
53 54					1,218
55	$CPI_{4}^{-4}$			-	1,142
56	Revaluation rate (%)				6.65%
57				L	
58		Unallocate	d RAB *	RA	В
59		(\$000)	(\$000)	(\$000)	(\$000)
60	Total opening RAB value	2,301,428	[	2,285,796	
61	less Opening value of fully depreciated, disposed and lost assets	14,156		11,029	
62			-		
63	Total opening RAB value subject to revaluation	2,287,272		2,274,767	
64	Total revaluations	L	152,218	L	151,386
65					
66	4(iv): Roll Forward of Works Under Construction				
67		Unallocated w	1	Allocated w	
68	Works under construction—preceding disclosure year	242.025	105,131	220 700	104,126
69 70	plus Capital expenditure	242,025		239,700	
70 71	less Assets commissioned plus Adjustment resulting from asset allocation	257,554		255,747 (58)	
72	Works under construction - current disclosure year	Г	89,603	(38)	88,021
73			05,005		00,021
74	Highest rate of capitalised finance applied				3.12%
11					5.1270

			,			
		Со	mpany Name	Po	owerco Limite	d
		or Year Ended	3	1 March 2023	3	
SCI	HEDULE 4: REPORT ON VALUE OF THE REGULATORY ASSET BASE (ROLLED	FORWARD)				
	schedule requires information on the calculation of the Regulatory Asset Base (RAB) value to the end of this disclosure y					
EDBs	s must provide explanatory comment on the value of their RAB in Schedule 14 (Mandatory Explanatory Notes). This info		efined in section 1	.4 of the ID deter	mination), and so i	s subject to the
assur	rance report required by section 2.8.					
sch ref						
75						
76	4(v): Regulatory Depreciation					
77			Unallocat	ed RAB *	RA	В
78			(\$000)	(\$000)	(\$000)	(\$000)
79	Depreciation - standard		72,380		72,277	
80	Depreciation - no standard life assets		33,104		31,286	
81	Depreciation - modified life assets		-		-	
82	Depreciation - alternative depreciation in accordance with CPP	l	-		-	
83	Total depreciation			105,484		103,563
84	Aluily Disclosure of Changes to Depression Profiles		(*****			
85	4(vi): Disclosure of Changes to Depreciation Profiles		(\$000 ur	nless otherwise sp	Closing RAB	Closing RAB
				Depreciation	value under	value under
				charge for the	'non-standard'	'standard'
86	Asset or assets with changes to depreciation*	Reason for non-standard depreciation (tex	t entry)	period (RAB)	depreciation	depreciation
87						
88						
89						
90						
91 92						
92 93						
94						
95	* include additional rows if needed					

Company Name	Powerco Limited
For Year Ended	31 March 2023

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

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

#### sch ref

## 96 4(vii): Disclosure by Asset Category

	(\$000 unless otherwise specified) Distribution							/	97			
	Non-network assets	Other network assets	Distribution switchgear	substations and transformers	Distribution and LV cables	Distribution and LV lines	Zone substations	Subtransmissio n cables	Subtransmissio n lines		3	98
9,125 2,285,796	99,125	510,723	182,674	287,136	364,000	514,290	178,751	60,103	88,993	Total opening RAB value		99
4,918 103,563	14,918	14,237	8,618	11,412	18,233	20,235	10,781	1,947	3,181	less Total depreciation	) less	100
5,593 <b>151,386</b>	5,593	35,482	11,763	18,903	24,216	33,814	11,718	4,024	5,873	plus Total revaluations	plus	101
1,663 255,747	21,663	25,130	18,447	23,289	53,917	69,357	24,926	8,120	10,900	plus Assets commissioned	? plus	102
259 (745)	259	(22,636)	6,249	3,174	405	9,077	1,810	7	909	less Asset disposals	less	103
	_	-	_	-	_	_	-	-	_	plus Lost and found assets adjustment	t plus	104
250 (574)	250	-	_	-	_	(763)	-	-	(62)	plus Adjustment resulting from asset allocation	5 plus	105
- (0)	_	(47,229)	4,291	5,480	12,305	15,985	4,850	1,788	2,530	plus Asset category transfers	5 plus	106
1,454 2,589,537	111,454	532,506	202,309	320,222	435,799	603,370	207,654	72,080	104,143	Total closing RAB value	7	107
											3	108
										Asset Life	9	109
17.6 (years)	17.6	39.5	29.3	33.2	33.1	40.3	30.0	43.5	41.8	Weighted average remaining asset life	)	110
22.3 (years)	22.3	42.6	39.0	49.9	49.4	58.6	47.1	53.4	58.8	Weighted average expected total asset life	!	111
1	111	(22,636) – (47,229) 532,506 39.5	6,249 - - 4,291 202,309 29.3	3,174 - - 5,480 320,222 33.2	405  12,305 435,799 33.1	9,077 - (763) 15,985 603,370 40.3	1,810 - - 4,850 207,654 30.0	7  1,788 72,080	909  (62) 2,530 104,143 41.8	lessAsset disposalsplusLost and found assets adjustmentplusAdjustment resulting from asset allocationplusAsset category transfersTotal closing RAB valueAsset LifeWeighted average remaining asset life	less less plus plus plus	103 104 105 106 107 108 109 110

			Company Name	Powerco Limite	ed
			For Year Ended	31 March 202	3
SCI	HEDULE	5a: REPORT ON REGULATORY TAX ALLOWANCE			
profi	t). EDBs must	res information on the calculation of the regulatory tax allowance. This informat provide explanatory commentary on the information disclosed in this schedule, part of audited disclosure information (as defined in section 1.4 of the ID determ	in Schedule 14 (Mandatory Expla	natory Notes).	
sch ref					
7	5a(i): R	egulatory Tax Allowance			(\$000)
8	1	Regulatory profit / (loss) before tax			219,392
9					
10	plus	Income not included in regulatory profit / (loss) before tax but taxable		1,616 *	
11		Expenditure or loss in regulatory profit / (loss) before tax but not deductible Amortisation of initial differences in asset values		1,590 *	
12 13		Amortisation of initial differences in asset values		9,489	
13				14,740	27,434
14				L	27,434
16	less	Total revaluations		151,386	
17		Income included in regulatory profit / (loss) before tax but not taxable		_ *	
18		Discretionary discounts and customer rebates		-	
19		Expenditure or loss deductible but not in regulatory profit / (loss) before tax		196 *	
20		Notional deductible interest		42,020	
21					193,602
22					
23		Regulatory taxable income			53,224
24	,				
25	less	Utilised tax losses			52.224
26 27		Regulatory net taxable income			53,224
28		Corporate tax rate (%)		28%	
29		Regulatory tax allowance			14,903
30					
31	* Work	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 Sche	dule 5a(i).	
		····· , · · , · · , · · · · · · · · · ·			
34 35	5a(iii): /	Amortisation of Initial Difference in Asset Values			(\$000)
36		Opening unamortised initial differences in asset values		189,771	
37	less	Amortisation of initial differences in asset values		9,489	
38	plus	Adjustment for unamortised initial differences in assets acquired			
39	less	Adjustment for unamortised initial differences in assets disposed		(2,450)	
40		Closing unamortised initial differences in asset values			182,732
41					
42		Opening weighted average remaining useful life of relevant assets (years)			20
43					
44	5a(iv): /	Amortisation of Revaluations			(\$000)
45					
46		Opening sum of RAB values without revaluations		1,949,144	
47					
48		Adjusted depreciation		88,823	
49		Total depreciation		103,563	
50 51		Amortisation of revaluations			14,740
51					

			Company Name	Powerco Lir	nited		
			For Year Ended	31 March	2023		
SC	HEDULF	5a: REPORT ON REGULATORY TAX ALLOWANCE	L				
		ires information on the calculation of the regulatory tax allowance. This information is	used to calculate regula	tory profit/loss in Schedule	3 (regulatory		
		t provide explanatory commentary on the information disclosed in this schedule, in Sch			o (regulatory		
	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	f						
Ĩ		Possensiliation of Tax Lossos			(\$000)		
52	5d(v). I	Reconciliation of Tax Losses			(3000)		
53					l		
54 57	ntun	Opening tax losses					
55 56	plus less	Current period tax losses Utilised tax losses					
56 57	1855	Closing tax losses					
57							
58	5a(vi):	Calculation of Deferred Tax Balance			(\$000)		
59							
60		Opening deferred tax		(88,512)			
61				(	1		
62	plus	Tax effect of adjusted depreciation		24,870			
63	·			· · · · ·			
64	less	Tax effect of tax depreciation		37,767			
65							
66	plus	Tax effect of other temporary differences*		996			
67							
68	less	Tax effect of amortisation of initial differences in asset values		2,657			
69							
70	plus	Deferred tax balance relating to assets acquired in the disclosure year		-			
71					1		
72	less	Deferred tax balance relating to assets disposed in the disclosure year		3,611			
73					1		
74	plus	Deferred tax cost allocation adjustment		76			
75		Charles de forme dans			(105 505)		
76		Closing deferred tax			(106,605)		
77							
77							
78	5a(VII):	Disclosure of Temporary Differences	torickad antonomia Cal	adula Ealui) (Tau affact af at	bor tomporer.		
79		In Schedule 14, Box 6, provide descriptions and workings of items recorded in the as differences).	terisked category in Sche	edule 5a(vi) (Tax effect of ot	ner temporary		
80							
81	5a(viii)	: Regulatory Tax Asset Base Roll-Forward					
	Ja(viii)				(\$000)		
82 83		Opening sum of regulatory tax asset values		1,359,688	(3000)		
84	less	Tax depreciation		134,884			
85	plus	Regulatory tax asset value of assets commissioned		250,855			
86	less	Regulatory tax asset value of asset disposals		12,152			
87	plus	Lost and found assets adjustment					
88	plus	Adjustment resulting from asset allocation		(303)			
89	plus	Other adjustments to the RAB tax value		643			
90		Closing sum of regulatory tax asset values			1,463,848		

Company Name	Powerco Limited				
For Year Ended	31 March 2023				

#### SCHEDULE 5b: REPORT ON RELATED PARTY TRANSACTIONS

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

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

sch	ref

7	5b(i): Summary—Related Party Transactions	(\$000)	(\$000)
8	Total regulatory income		5
9			
10	Market value of asset disposals		_
11			
12	Service interruptions and emergencies		
13	Vegetation management		
14	Routine and corrective maintenance and inspection		
15	Asset replacement and renewal (opex)	-	
16	Network opex		_
17	Business support		
18	System operations and network support	-	
19	Operational expenditure		_
20	Consumer connection		
21	System growth	-	
22	Asset replacement and renewal (capex)	535	
23	Asset relocations		
24	Quality of supply		
25	Legislative and regulatory	_	
26	Other reliability, safety and environment	_	
27	Zero Expenditure on non-network assets		-
28	Expenditure on assets		535
29	Cost of financing		
30	Value of capital contributions		
31	Value of vested assets		
32	Capital Expenditure		535
33	Total expenditure		535
34			
35	Other related party transactions		_

## 36 5b(iii): Total Opex and Capex Related Party Transactions

Nature of opex or capex service           37         Name of related party         provided	(\$000)
38         Base Power Limited         Asset replacement and renewal (capex)	535
39 [Select one]	
40 [Select one]	
41 [Select one]	
42 [Select one]	
43 [Select one]	
44 [Select one]	
45 [Select one]	
46 [Select one]	
47 [Select one]	
48 [Select one]	
49 [Select one]	
50 [Select one]	
51 [Select one]	
52 [Select one]	
53 Total value of related party transactions	535
54 * include additional rows if needed 55	

	Company Name Powerco Limited
	For Year Ended 31 March 2023
S	HEDULE 5c: REPORT ON TERM CREDIT SPREAD DIFFERENTIAL ALLOWANCE
	schedule is only to be completed if, as at the date of the most recently published financial statements, the weighted average original tenor of the debt portfolio (both qualifying debt and non-qualifying debt) is greater than five years.
	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	
7	
8	5c(i): Qualifying Debt (may be Commission only)
9	
29 30	5c(ii): Attribution of Term Credit Spread Differential
31	Senij. Attribution of renn credit Spread Differential
32	Gross term credit spread differential 5,374
33	
34	Total book value of interest bearing debt 2,192,747
35	Leverage 42%
36	Average opening and closing RAB values 2,437,666
37 38	Attribution Rate (%)
39	Term credit spread differential allowance 2,509
40	

Company Name	Powerco Limited
For Year Ended	31 March 2023

#### SCHEDULE 5d: REPORT ON COST ALLOCATIONS

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

ch ref 7 8	5d(i): Operating Cost Allocations				Value alloca	ated (\$000s)		
9				Arm's length deduction	Electricity distribution services	Non-electricity distribution services	Total	OVABAA allocation increase (\$000s)
10	Service interruptions and emergencies			deduction	services	services	Total	increase (5000s)
11	Directly attributable				9,568			
12	Not directly attributable		[	-	-	-	-	-
13	Total attributable to regulated service				9,568			
14 15	Vegetation management Directly attributable				10,283	l		
16	Not directly attributable		]	-	-	-	-	-
17	Total attributable to regulated service		L		10,283		•	
18	Routine and corrective maintenance and inspection							
19	Directly attributable		r		16,342		1	
20	Not directly attributable		l	-	-	-	-	-
21	Total attributable to regulated service				16,342	l		
22 23	Asset replacement and renewal Directly attributable				15,781	l i i i i i i i i i i i i i i i i i i i		
24	Not directly attributable		[	-	-	-	-	-
25	Total attributable to regulated service				15,781			
26	System operations and network support							
27	Directly attributable		r		20,135			
28	Not directly attributable		l	-	1,751	977	2,729	-
29	Total attributable to regulated service				21,886			
30 31	Business support Directly attributable				1,663	l i i i i i i i i i i i i i i i i i i i		
32	Not directly attributable		[	-	35,801	6,342	42,143	-
33	Total attributable to regulated service				37,465		•	
34	Our section and a disable statisticately							
35 36	Operating costs directly attributable Operating costs not directly attributable		г		73,772 37,553	7,319	44,872	-
37	Operational expenditure		L		111,324	7,515	11,072	
38								
39	5d(ii): Other Cost Allocations							
	Deep through and recoverable costs				(\$000)			
40	Pass through and recoverable costs				(3000)			
41 42	Pass through costs Directly attributable				4,111	1		
43	Not directly attributable				218			
44	Total attributable to regulated service				4,329			
45	Recoverable costs							
46	Directly attributable				106,269			
47	Not directly attributable				-			
48 49	Total attributable to regulated service				106,269	l		
50	5d(iii): Changes in Cost Allocations* †							
51						(\$0	000)	
52	Change in cost allocation 1					CY-1	Current Year (CY)	
53	Cost category				Original allocation			
54 55	Original allocator or line items New allocator or line items				New allocation Difference			
56					Difference		1	
57	Rationale for change							
59								
60							000)	
61 62	Change in cost allocation 2				Original allocation	CY-1	Current Year (CY)	
63	Cost category Original allocator or line items				New allocation			
64	New allocator or line items				Difference	-	-	
65								
66	Rationale for change							
67								
68 69						(\$0	000)	
70	Change in cost allocation 3					CY-1	Current Year (CY)	
71	Cost category				Original allocation	ļ		
72 73	Original allocator or line items New allocator or line items				New allocation Difference		_	
74					Sherence		_	
75 75	Rationale for change							
77								
78	* a change in cost allocation must be completed for each cost allocator ch	hange that has occurred in the disclo	sure year. A movem	ent in an allocator r	metric is not a change	in allocator or com	oonent.	
79	t include additional rows if needed							

-		
Company Name	Powerco Limited	
For Year Ended	31 March 2023	

## SCHEDULE 5e: REPORT ON ASSET ALLOCATIONS

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

h ref	5e(i): Regulated Service Asset Values			
7	Selit. Regulated Selvice Asset values		Value allocated	
8			(\$000s) Electricity distribution	
9			services	
10	Subtransmission lines			
11	Directly attributable		104,143	
12 13	Not directly attributable Total attributable to regulated service		104,143	
14	Subtransmission cables		101/110	
15	Directly attributable		72,080	
16	Not directly attributable			
17	Total attributable to regulated service		72,080	
18 19	Zone substations Directly attributable		207,654	
20	Not directly attributable		-	
21	Total attributable to regulated service		207,654	
22	Distribution and LV lines			
23	Directly attributable		603,370	
24 25	Not directly attributable Total attributable to regulated service		603,370	
26	Distribution and LV cables			
27	Directly attributable		435,799	
28	Not directly attributable			
29	Total attributable to regulated service		435,799	
30 31	Distribution substations and transformers Directly attributable		320,222	
32	Not directly attributable		-	
33	Total attributable to regulated service		320,222	
34	Distribution switchgear			
35	Directly attributable		202,309	
36 37	Not directly attributable Total attributable to regulated service		202,309	
38	Other network assets			
39	Directly attributable		532,506	
40	Not directly attributable		-	
41	Total attributable to regulated service Non-network assets		532,506	
42 43	Directly attributable		35,386	
44	Not directly attributable		76,067	
45	Total attributable to regulated service		111,454	
46 47	Regulated service asset value directly attributable		2,513,469	
48	Regulated service asset value not directly attributat	le	76,067	
49	Total closing RAB value		2,589,537	
50				
51 52	5e(ii): Changes in Asset Allocations* †			(\$000)
53	Change in asset value allocation 1			CY-1 Current Year (CY)
54	Asset category		Original allocation	
55 56	Original allocator or line items		New allocation	
56 57	New allocator or line items		Difference	
58 60	Rationale for change			
60 61				(\$000)
62	Change in asset value allocation 2		_	CY-1 Current Year (CY)
63	Asset category		Original allocation	
64 65	Original allocator or line items New allocator or line items		New allocation Difference	
66			Difference	
67	Rationale for change			
69 70				(\$000)
71	Change in asset value allocation 3			CY-1 Current Year (CY)
72	Asset category		Original allocation	
73 74	Original allocator or line items New allocator or line items		New allocation Difference	
74 75				
76 //	Rationale for change			
79	* a change in asset allocation must be completed for each al	locator or component change that has occurred in the disclosure year. A	movement in an allocator metric is not a chan	ge in allocator or component.
80	† include additional rows if needed			

	Company Name		ited					
For Year Ended 31 March 2023								
SC	SCHEDULE 6a: REPORT ON CAPITAL EXPENDITURE FOR THE DISCLOSURE YEAR							
but EDI	This schedule requires a breakdown of capital expenditure on assets incurred in the disclosure year, including any assets in respect of which capital contributions are received, but excluding assets that are vested assets. Information on expenditure on assets must be provided on an accounting accruals basis and must exclude finance costs. EDBs must provide explanatory comment on their expenditure on assets in Schedule 14 (Explanatory Notes to Templates). This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.							
sch re	h ref							
7	6a(i): Expenditure on Assets	(\$000)	(\$000)					
8	Consumer connection		76 847					

7	6a(i): Expenditure on Assets	(\$000)	(\$000)
8	Consumer connection		76,847
9	System growth		85,401
10	Asset replacement and renewal		96,181
11	Asset relocations		8,704
12	Reliability, safety and environment:		
13	Quality of supply	8,167	
14	Legislative and regulatory	106	
15	Other reliability, safety and environment	4,609	
16	Total reliability, safety and environment		12,882
17	Expenditure on network assets		280,015
18	Expenditure on non-network assets		11,644
19			,
20	Expenditure on assets		291,659
21	plus Cost of financing		2,276
22	less Value of capital contributions		54,235
23	plus Value of vested assets		_
24			
25	Capital expenditure		239,700
26	6a(ii): Subcomponents of Expenditure on Assets (where known)		(\$000)
27	Energy efficiency and demand side management, reduction of energy losses		59
27	Overhead to underground conversion		1,736
20	Research and development		727
30	Cybersecurity (Commission only)		121
50	Cybersecurity (Commission only)		
31	6a(iii): Consumer Connection		
32	Consumer types defined by EDB*	(\$000)	(\$000)
33	Small	55,074	
34	Commercial	14,336	
35	Industrial	7,437	
36			
37			
38	* include additional rows if needed		
39	Consumer connection expenditure		76,847
40		40.500	1
41	less Capital contributions funding consumer connection expenditure	48,589	20.250
42	Consumer connection less capital contributions		28,258 Asset
43	6a(iv): System Growth and Asset Replacement and Renewal		Replacement and
44		System Growth	Renewal
45		(\$000)	(\$000)
46	Subtransmission	26,396	8,898
47	Zone substations	41,770	13,186
48	Distribution and LV lines	1,767	51,839
49	Distribution and LV cables	3,802	7,152
50	Distribution substations and transformers	3,141	8,241
51	Distribution switchgear	320	5,915
		0.200	951
52	Other network assets	8,206	551
52 53	Other network assets System growth and asset replacement and renewal expenditure	8,206	96,181
53	System growth and asset replacement and renewal expenditure	85,401	96,181

	Company Name	Powerco Limited
	For Year Ended	31 March 2023
HEDUU	E 6a: REPORT ON CAPITAL EXPENDITURE FOR THE DISCLOSURE YEAR	
_		port of which capital contributions are reading
	quires a breakdown of capital expenditure on assets incurred in the disclosure year, including any assets in resp sets that are vested assets. Information on expenditure on assets must be provided on an accounting accruals	
-	ide explanatory comment on their expenditure on assets in Schedule 14 (Explanatory Notes to Templates).	
	is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject t	o the assurance report required by section 2.8
f		
	Asset Relocations	
0a(♥).	Project or programme*	(\$000) (\$000)
	NZTA Northern Link Relocations	5,353
	Waka Kotahi SH2 Road Improvements	1,700
	Property owner requested relocations	632
		108
	Local Council requested relocations	108
	* include additional rows if needed	911
	All other projects or programmes - asset relocations	
1	Asset relocations expenditure	E 208
less	Capital contributions funding asset relocations	5,298
	Asset relocations less capital contributions	3
6a(vi)	Quality of Supply	
	Project or programme*	(\$000) (\$000)
	Automation Projects	2,983
	Remote Control Projects	1,153
	LFI Rollout	1,110
	Generation Projects	839
	LV Monitoring	781
	Princes St RMU project	454
	Backfeed support	279
	* include additional rows if needed	
	All other projects programmes - quality of supply	568
	Quality of supply expenditure	8
less	Capital contributions funding quality of supply	_
	Quality of supply less capital contributions	8
6a(vii)	: Legislative and Regulatory	
	Project or programme*	(\$000) (\$000)
	AUFLS Renewals/Upgrade	106
	* include additional rows if needed	
	All other projects or programmes - legislative and regulatory	
	Legislative and regulatory expenditure	
less	Capital contributions funding legislative and regulatory	
	Legislative and regulatory less capital contributions	
6a(viii	): Other Reliability, Safety and Environment	
Salvin	Project or programme*	(\$000) (\$000)
	Poletop Photography	1,666
	2023 Safety Signage	625
	Locks and Keys project	411
		261
	Line Differential Protection and Critical Comms	
	Rangiuru Road Network Realinement	242
	Power Pilot Rollout	211
	AwaToiToi to Tinui 33kv line Capex	179
	* include additional rows if needed	1.011
	All other projects or programmes - other reliability, safety and environment	1,014
	Other reliability, safety and environment expenditure	4
less	Capital contributions funding other reliability, safety and environment	-
1035	Other reliability, safety and environment less capital contributions	4

		Company Name	Powerco Limi	ted					
		For Year Ended	31 March 20	23					
S	SCHEDULE 6a: REPORT ON CAPITAL EXPENDITURE FOR THE DISCLOSURE YEAR								
Th	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,								
	t excluding assets that are vested assets. Information on expenditure on assets must be provide	0	nd must exclude finance c	osts.					
	Bs must provide explanatory comment on their expenditure on assets in Schedule 14 (Explanator								
	is information is part of audited disclosure information (as defined in section 1.4 of the ID deter	mination), and so is subject to the a	ssurance report required	by section 2.8.					
sch r									
109	6a(ix): Non-Network Assets								
110	Routine expenditure								
111	Project or programme*		(\$000)	(\$000)					
112	Enterprise Asset Management System		3,121						
113	Leases		1,552						
114	IT Renewal		1,035						
115	Tauranga Office Alterations		952						
116	NP Office Alterations		951						
117	Concept to Completion		855						
118	Improve Network Operations (OMS/DMS)		308						
119	Furniture		2,146						
120									
121	* include additional rows if needed								
122	All other projects or programmes - routine expenditure		294						
123	Routine expenditure		l	11,214					
124	Atypical expenditure								
125	Project or programme*		(\$000)	(\$000)					
126	Enterprise Asset Management System		324						
127									
128									
129									
130									
131	* include additional rows if needed								
132	All other projects or programmes - atypical expenditure		106						
133	Atypical expenditure			430					
134									
135	Expenditure on non-network assets			11,644					

	Company Name	Powerco	Limited						
	For Year Ended	31 Marc	ch 2023						
	SCHEDULE 6b: REPORT ON OPERATIONAL EXPENDITURE FOR THE DISCLOSURE YEAR								
	This schedule requires a breakdown of operational expenditure incurred in the disclosure year.								
	EDBs must provide explanatory comment on their operational expenditure in Schedule 14 (Explanatory notes to templates). This includes explanatory comment on any atypical operational								
	expenditure and assets replaced or renewed as part of asset replacement and renewal operational expenditure, and additional information on insurar		_						
Т	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.						
c al									
SCI	h ref								
;	6b(i): Operational Expenditure	(\$000)	(\$000)						
٤	8 Service interruptions and emergencies	9,568							
9	9 Vegetation management	10,283							
10	0 Routine and corrective maintenance and inspection	16,342							
11	Asset replacement and renewal	15,781							
12	2 Network opex		51,973						
13	3 System operations and network support	21,886							
14	4 Business support	37,465							
15	5 Non-network opex	L	59,351						
16	5	-							
17	7 Operational expenditure	L	111,324						
18	6b(ii): Subcomponents of Operational Expenditure (where known)								
19		Г	250						
20		-							
21			16						
22			1,770						
23									
24									

Company NamePowerco LimitedFor Year Ended31 March 2023

# 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.

7	7(i): Revenue	Target (\$000) <sup>1</sup>	Actual (\$000)	% variance
8	Line charge revenue	392,725	390,730	(1%)
9	7(ii): Expenditure on Assets	Forecast (\$000) <sup>2</sup>	Actual (\$000)	% variance
10	Consumer connection	66,426	76,847	16%
11	System growth	85,098	85,401	0%
12	Asset replacement and renewal	80,726	96,181	19%
13	Asset relocations	9,024	8,704	(4%)
14	Reliability, safety and environment:			
15	Quality of supply	7,871	8,167	4%
16	Legislative and regulatory	1,490	106	(93%)
17	Other reliability, safety and environment	4,791	4,609	(4%)
18	Total reliability, safety and environment	14,152	12,882	(9%)
19	Expenditure on network assets	255,426	280,015	10%
20	Expenditure on non-network assets	13,422	11,644	(13%)
21	Expenditure on assets	268,848	291,659	8%
22	7(iii): Operational Expenditure			
23	Service interruptions and emergencies	7,273	9,568	32%
24	Vegetation management	10,183	10,283	1%
25	Routine and corrective maintenance and inspection	16,934	16,342	(3%)
26	Asset replacement and renewal	10,328	15,781	53%
27	Network opex	44,718	51,973	16%
28	System operations and network support	20,359	21,886	8%
29	Business support	36,133	37,465	4%
30	Non-network opex	56,492	59,351	5%
31	Operational expenditure	101,210	111,324	10%
32	7(iv): Subcomponents of Expenditure on Assets (where known)			
33	Energy efficiency and demand side management, reduction of energy losses		59	_
34	Overhead to underground conversion	-	1,736	-
35	Research and development	-	727	-
36				
37	7(v): Subcomponents of Operational Expenditure (where known	)		
38	Energy efficiency and demand side management, reduction of energy losses	_ [	250	_
39	Direct billing	_		_
40	Research and development	_	16	_
41	Insurance	_	1,770	_
41	instructed and a second s		1,770	
43	1 From the nominal dollar target revenue for the disclosure year disclosed under clause 2.4.3	(3) of this determing	tion	
44	2 From the CY+1 nominal dollar expenditure forecasts disclosed in accordance with clause 2.4.3			beginning of the
		, ,,	<i>j</i> · · · · ·	5 5 5 7 7 -

											Company Name For Year Ended b-Network Name			Powerco L 31 March Powerco L	2023	
ule requires the billed quan vered to these ICPs.	DN BILLED QUANTITI atities and associated line charge by Price Component				n its pricing schedules. Inf	ormation is also r	required on the number of IC	CPs that are included	l in each consumer į	group or price categ	ory code, and the					
blied Quantities b	y Price Component															
							Price component	Billed quantities by	Fixed	Variable (Anytime)	Variable	Variable	Demand	Demand	Power Factor	Fixed
Consumer group name or price category code	Consumer type or types (eg, residential, commercial etc.)	Standard or non standard consumer group (specify)	Average no. of	Energy delivered to ICPs in disclosure year (MWh)			ig basis (eg, days, kW of kVA of capacity, etc.)	ICP Days	kVA of Capacity	kWh	(Peak) kWh	(Off-Peak) kWh	kW of AMD	kW of OPD	kVArh	Fixture Count Days
price category code	residential, commercial etc.)	(specify)	uisciosure year	(1010011)												
Unmetered/Base Power Small	Streetlights/Unmetered Residential/Small Commercial	Standard Standard	571 353,633	7,619 2,768,245				- 124,825,430	-	7,619,447		- 1,638,143,122	- 3,921,700	-	-	9,413,259
Medium	Commercial	Standard	1,750	2,768,245				124,825,430		244,413,392	5,794,156	1,638,143,122 14,326,940	3,921,700	- 14,798	41,072	
Large	Large Commercial/Industrial	Non-standard	567	521,966				202,240	-	521,965,933	=	-	-	=	115,389	-
Large	XLarge Commercial/Industrial	Non-standard	122	1,398,402				38,964	-	1,189,838,124	-	-	-	-	96,349	_
Add extra rows for addition	nal consumer groups or price cat			2.040.002						001 000 000	coo aco ota	4 652 470 062	2,052,222	4.4.700	44.072	0.442.250
Add extra rows for addition	Standa	rd consumer totals	s 355,954	3,040,083				125,446,466	-	821,600,636 1.711.804.057	698,268,843	1,652,470,062	3,952,222	14,798	41,072	9,413,259
Add extra rows for addition	Standa Non-standa		s 355,954 s 689	3,040,083 1,920,368 4,960,452				125,446,466 241,204 125,687,670		821,600,636 1,711,804,057 2,533,404,693	-	1,652,470,062 _ 1,652,470,062	3,952,222 _ 3,952,222	14,798 - 14,798	41,072 211,738 252,809	9,413,259  9,413,259
	Standa Non-standa	rd consumer totals rd consumer totals Il for all consumers	s 355,954 s 689	1,920,368				241,204 125,687,670	- -	1,711,804,057 2,533,404,693	- 698,268,843	_ 1,652,470,062		_ 14,798	211,738 252,809	_ 9,413,259
	Standa Non-standa Tota	rd consumer totals rd consumer totals I for all consumers mponent	s 355,954 s 689 s 356,643	1,920,368 4,960,452		Total	Price component	241,204 125,687,670	-	1,711,804,057 2,533,404,693	-	-	-	-	211,738	-
	Standa Non-standa Tota	rd consumer totals rd consumer totals il for all consumer: mponent Standard or non standard	s 355,954 s 689 s 356,643 • Total line charge	1,920,368	Total distribution line charge revenue	Total transmission line charge revenue (if available)	Price component Rate (eg, \$ per day, \$ per kWh, etc.)	241,204 125,687,670	- -	1,711,804,057 2,533,404,693	- 698,268,843 Variable	- 1,652,470,062 Variable		_ 14,798	211,738 252,809	_ 9,413,259
: Line Charge Rever	Standa Non-standa Tota nues (\$000) by Price Co Consumer type or types (eg, residential, commercial etc.)	rd consumer total: rd consumer total i for all consumers <b>mponent</b> Standard or non standard consumer group	s 355,954 689 356,643 • Total line charge p revenue in disclosure year	1,920,368 4,960,452 Notional revenue foregone from posted discounts	distribution line charge revenue	transmission line charge revenue (if available)	Rate (eg, \$ per day, \$ per kWh, etc.)	241,204 125,687,670 Line charge revenu	- - es (\$000) by price ( Fixed kVA of Capacity	1,711,804,057 2,533,404,693 component Variable (Anytime) kWh	- 698,268,843 Variable (Peak) kWh	- 1,652,470,062 Variable (Off-Peak)	- 3,952,222 Demand		211,738 252,809 Power Factor	- 9,413,259 Fixed Fixture Count Days
: Line Charge Rever Consumer group name or price category code	Standa Non-standa Tota nues (\$000) by Price Co Consumer type or types (eg,	rd consumer totals rd consumer totals if for all consumers mponent Standard or non standard consumer group (specify)	s 355,954 s 689 356,643 to Total line charge revenue in	1,920,368 4,960,452 Notional revenue foregone from posted discounts	distribution line charge	transmission line charge revenue (if	Rate (eg, \$ per day, \$ per kWh, etc.)	241,204 125,687,670 Line charge revenu	es (\$000) by price o	1,711,804,057 2,533,404,693 component Variable (Anytime)	 698,268,843 Variable (Peak) kWh	- 1,652,470,062 Variable (Off-Peak)	- 3,952,222 Demand		211,738 252,809 Power Factor	- 9,413,259 Fixed Fixture Count
: Line Charge Rever Consumer group name or price category code Unmetered/Base Power Small Medium	Standa Non-standa Tota nues (\$000) by Price Co Consumer type or types (eg, residential, commercial etc.) Streetlights/Unmetered Residential/Small Commercial Commercial	rd consumer totals rd consumer totals i for all consumers mponent Standard or norr standard or norr standard or source (specify) Standard Standard Standard	s 355,954 689 356,643 • Total line charge revenue in disclosure year \$1,975 \$293,890 \$24,899	1,920,368 4,960,452 Notional revenue foregone from posted discounts	distribution line charge revenue \$1,362 \$218,096 \$18,766	transmission line charge revenue (if available) \$612 \$75,794 \$6,134	Rate (eg, \$ per day, \$ per kWh, etc.)	241,204 125,687,670 Line charge revent Fixed ICP Days	es (\$000) by price of Fixed kVA of Capacity	1,711,804,057 2,533,404,693 Variable (Anytime) kWh \$294 \$39,490 \$10,951	 698,268,843 Variable (Peak) kWh  \$95,935 		- 3,952,222 Demand		211,738 252,809 Power Factor kVArh 	
: Line Charge Rever Consumer group name or price category code Unmetered/Base Power Small Medium Large	Standa Non-standa Tota nues (\$000) by Price Co consumer type or types (eg, residential, commercial etc.) Streetights/Unmetered Residential/Small Commercial Commercial Large Commercial/Industrial	rd consumer totals rd consumer totals if or all consumers mponent Standard or non standard consumer group (specify) Standard Standard Standard Standard Non-standard	<ul> <li>355,954</li> <li>689</li> <li>356,643</li> <li>Total line charge</li> <li>revenue in disclosure year</li> <li>\$1,975</li> <li>\$293,890</li> <li>\$24,899</li> <li>\$30,105</li> </ul>	1,920,368 4,960,452 Notional revenue foregone from posted discounts	distribution line charge revenue \$1,362 \$218,096 \$18,766 \$20,684	transmission line charge revenue (if available) \$612 \$75,794 \$6,134 \$9,421	Rate (eg, \$ per day, \$ per kWh, etc.)	241,204 125,687,670 Line charge revent Fixed ICP Days		1,711,804,057 2,533,404,693 2,533,404,693 Variable (Anytime) kWh \$39,490 \$10,951		_ 1,652,470,062 Variable (Off-Peak) kWh 	 3,952,222 Demand kW of AMD 		211,738 252,809 Power Factor kVArh 	 9,413,259 Fixed Fixture Count Days \$1,681 
: Line Charge Rever Consumer group name or price category code Unmetered/Base Power Small Medium	Standa Non-standa Tota nues (\$000) by Price Co Consumer type or types (eg, residential, commercial etc.) Streetlights/Unmetered Residential/Small Commercial Commercial	rd consumer totals rd consumer totals i for all consumers mponent Standard or norr standard or norr standard or source (specify) Standard Standard Standard	s 355,954 689 356,643 • Total line charge revenue in disclosure year \$1,975 \$293,890 \$24,899	1,920,368 4,960,452 Notional revenue foregone from posted discounts	distribution line charge revenue \$1,362 \$218,096 \$18,766	transmission line charge revenue (if available) \$612 \$75,794 \$6,134	Rate (eg, \$ per day, \$ per kWh, etc.)	241,204 125,687,670 Line charge revent Fixed ICP Days	es (\$000) by price of Fixed kVA of Capacity	1,711,804,057 2,533,404,693 Variable (Anytime) kWh \$294 \$39,490 \$10,951	 698,268,843 Variable (Peak) kWh  \$95,935 		 3,952,222 Demand kW of AMD 	- 14,798 Demand kW of OPD	211,738 252,809 Power Factor kVArh 	
: Line Charge Rever Consumer group name or price category code Unmetered/Base Power Small Medium Large	Standa Non-standa Tota nues (\$000) by Price Co consumer type or types (eg, residential, commercial etc.) Streetights/Unmetered Residential/Small Commercial Commercial Large Commercial/Industrial	rd consumer totals rd consumer totals if or all consumers mponent Standard or non standard consumer group (specify) Standard Standard Standard Standard Non-standard	<ul> <li>355,954</li> <li>689</li> <li>356,643</li> <li>Total line charge</li> <li>revenue in disclosure year</li> <li>\$1,975</li> <li>\$293,890</li> <li>\$24,899</li> <li>\$30,105</li> </ul>	1,920,368 4,960,452 Notional revenue foregone from posted discounts	distribution line charge revenue \$1,362 \$218,096 \$18,766 \$20,684	transmission line charge revenue (if available) \$612 \$75,794 \$6,134 \$9,421	Rate (eg, \$ per day, \$ per kWh, etc.)	241,204 125,687,670 Line charge revent Fixed ICP Days		1,711,804,057 2,533,404,693 2,533,404,693 Variable (Anytime) kWh \$39,490 \$10,951		_ 1,652,470,062 Variable (Off-Peak) kWh 	 3,952,222 Demand kW of AMD 		211,738 252,809 Power Factor kVArh 	
: Line Charge Rever Consumer group name or price category code Unmetered/Base Power Small Medium Large Large	Standa Non-standa Tota nues (\$000) by Price Co consumer type or types (eg, residential/small commercial commercial Large Commercial/Industrial XLarge Commercial/Industrial	rd consumer totals rd consumer totals i for all consumers mponent Standard or nor standard consumer group (specify) Standard Standard Standard Non-standard Non-standard	<ul> <li>355,954</li> <li>689</li> <li>356,643</li> <li>Total line charge revenue in disclosure year</li> <li>\$1,975</li> <li>\$233,890</li> <li>\$24,899</li> <li>\$30,105</li> <li>\$39,861</li> </ul>	1,920,368 4,960,452 Notional revenue foregone from posted discounts	distribution line charge revenue \$1,362 \$218,096 \$18,766 \$20,684	transmission line charge revenue (if available) \$612 \$75,794 \$6,134 \$9,421	Rate (eg, \$ per day, \$ per kWh, etc.)	241,204 125,687,670 Line charge revent Fixed ICP Days		1,711,804,057 2,533,404,693 2,533,404,693 Variable (Anytime) kWh \$39,490 \$10,951		_ 1,652,470,062 Variable (Off-Peak) kWh 	 3,952,222 Demand kW of AMD 		211,738 252,809 Power Factor kVArh 	
: Line Charge Rever Consumer group name or price category code Unmetered/Base Power Small Medium Large Large	Standa Non-standa Tota nues (\$000) by Price Co consumer type or types (eg, residential, commercial etc.) Streetlights/Unmetered Residential/Small Commercial Commercial Large Commercial/Industrial XLarge Commercial/Industrial al consumer groups or price cat	rd consumer totals rd consumer totals i for all consumers mponent Standard or nor standard consumer group (specify) Standard Standard Standard Non-standard Non-standard	<ul> <li>355,954</li> <li>689</li> <li>356,643</li> <li>Total line charge</li> <li>revenue in disclosure year</li> <li>\$1,975</li> <li>\$293,890</li> <li>\$24,899</li> <li>\$30,105</li> <li>\$39,861</li> <li>\$39,861</li> <li>\$39,861</li> <li>\$39,861</li> </ul>	1,920,368 4,960,452 Notional revenue foregone from posted discounts	distribution line charge revenue \$1,362 \$218,096 \$18,766 \$20,684	transmission line charge revenue (if available) \$612 \$75,794 \$6,134 \$9,421	Rate (eg, \$ per day, \$ per kWh, etc.)	241,204 125,687,670 Line charge revent Fixed ICP Days		1,711,804,057 2,533,404,693 2,533,404,693 Variable (Anytime) kWh \$39,490 \$10,951		_ 1,652,470,062 Variable (Off-Peak) kWh 	 3,952,222 Demand kW of AMD 		211,738 252,809 Power Factor kVArh 	
: Line Charge Rever Consumer group name or price category code Unmetered/Base Power Small Medium Large Large	Standa Non-standa Tota nues (\$000) by Price Co consumer type or types (eg, residential/small commercial commercial Large Commercial/Industrial XLarge Commercial/Industrial XLarge Commercial/Industrial and consumer groups or price cat Standa Non-standa	rd consumer totals rd consumer totals i for all consumers mponent Standard or nor standard consumer group (specify) Standard Standard Standard Standard Non-standard Non-standard Non-standard Non-standard Consumer group (specify) Standard	s 355,954 689 356,643 5 356,643 5 359,850 5 359,754 5 359,75	1,920,368 4,960,452 Notional revenue foregone from posted discounts (if applicable)	distribution line charge revenue \$1,362 \$218,096 \$318,766 \$20,684 \$21,455 	transmission line charge revenue (j svailable) \$612 \$75,794 \$6,134 \$9,421 \$18,406 \$18,406 \$18,406 \$18,206 \$18,2540 \$22,540	Rate (eg, \$ per day, \$ per kWh, etc.)	241,204 125,687,670 Line charge revent Fixed ICP Days - \$51,716 \$7,702 \$29,297 \$39,186 - \$39,186 - \$55,418 \$68,483		1,711,804,057 2,533,404,693 2,533,404,693 Variable (Anytime) kWh \$294 \$39,490 \$10,951 		- 1,652,470,062 Variable (Off-Peak) kWh - - - - - - - - - - - - -			211,738 252,809 Power Factor kVArh 	
: Line Charge Rever Consumer group name or price category code Unmetered/Base Power Small Medium Large Large	Standa Non-standa Tota nues (\$000) by Price Co Consumer type or types (eg, residential, commercial commercial Large Commercial/Industrial XLarge Commercial/Industrial XLarge Commercial/Industrial nal consumer groups or price cot Standa Non-standa Tota	rd consumer totals id consumer totals if or all consumers mponent Standard or non standard consumer group (specify) Standard Standard Standard Non-standard Non-standard Non-standard e standard Non-standard Standard Non-standard Non-standard Non-standard Standard Non-standard Non-standard Non-standard Non-standard Non-standard Standard Non-standard Standard Non-standard Standard Standard Non-standard Standard Non-standard Standard Non-standard Standard Non-standard Standard Non-standard Standard Non-standard Standard Non-standard Standard Non-standard Standard Non-standard Standard Non-standard Standar	s 355,954 689 356,643 ■ Total line charge revenue in disclosure year \$1,975 \$293,890 \$24,899 \$30,105 \$39,861 ■ = = = = = = = = = = = = =	1,920,368 4,960,452 Notional revenue foregone from posted discounts (if applicable) 	distribution line charge revenue \$1,362 \$218,096 \$20,684 \$21,455	transmission line charge revenue (if available) \$5612 \$75,794 \$6,134 \$9,421 \$18,406 \$18,406 \$18,406 \$18,406	Rate (eg, \$ per day, \$ per kWh, etc.)	241,204 125,687,670 Line charge revent Fixed ICP Days 		1,711,804,057 2,533,404,693 2,533,404,693 Variable (Anytime) kWh \$39,490 \$10,951 		_ 1,652,470,062 Variable (Off-Peak) kWh 			211,738 252,809 Power Factor kVArh 	

	BILLED QUANTITI			VENILES						Company Name For Year Ended Network Name			Powerco 31 Marc Western	n 2023	
quires the billed quantities se ICPs.		revenues for each p			pricing schedules. Information	is also required on the number of ICPs that a	are included in each (	consumer group or	price category code, a	nd the energy					
							Billed quantities by	y price component		Variable	Variable				1
Consumer group name or price	Consumer type or types (eg, residential,	Standard or non- standard consumer group	Average no. of	Energy delivered to ICPs in disclosure year		Price componen Unit charging basis (eg, days, kW of demand, kVA of capacity, etc.)	Fixed ICP Days	Fixed kVA of Capacity	Variable (Anytime) kWh	(Peak) kWh	(Off-Peak) kWh	Demand kW of AMD	Demand kW of OPD	Power Factor kVArh	Fixed
category code	commercial etc.)	(specify)	year	(MWh)											
E1	Commercial	Standard	185,933				65,124,870	-	-	478,890,567	1,139,527,655	3,921,700	-	-	-
E100 W50	Commercial Commercial/Industrial	Standard Non-standard	276	5 93,011 4 283,488			98,795 85,319		93,011,242 283,488,228	-	-	30,521	14,798	31,294 61,353	
SPECIAL	Commercial/Industrial	Non-standard	52	2 376,042			15,999	-	376,042,086	-	-	-		27,864	
Add over a rowe for	additional consumer groups		adas as pasassanu												
Add Extra rows jor a	uuuuuunui consumer groups														
		ard consumer totals	186,209	1,589,182			65,223,665	-	93,011,242	478,890,567	1,139,527,655	3,952,222	14,798	31,294	
	Non-standa		186,209 296				65,223,665 101,318 65,324,983	- - -	93,011,242 659,530,314 752,541,556	478,890,567 – 478,890,567	1,139,527,655 – 1,139,527,655	3,952,222 – 3,952,222	14,798 _ 14,798	31,294 89,216 120,510	
i): Line Charge Revo	Non-standa	ard consumer totals ard consumer totals al for all consumers	296 186,505	659,530			101,318	-	659,530,314 752,541,556	- 478,890,567	_ 1,139,527,655	- 1	-	89,216	
i): Line Charge Reve	Non-standa Tot	ard consumer totals ard consumer totals al for all consumers	296 186,505	659,530		Total Price component	101,318 65,324,983	-	659,530,314 752,541,556	-	-	- 1	-	89,216	
): Line Charge Reve Consumer group name or price category code	Non-standa Tot	ard consumer totals ard consumer totals al for all consumers	186,209 296 186,505	659,530	Total distribution line charge revenue	Price component transmission line charge Rate (eg, \$ per day, \$ pe revenue (if kWh, etc. available)	Line charge revenue Fixed	- ies (\$000) by price d	659,530,314 752,541,556	- 478,890,567 Variable	- 1,139,527,655 Variable	3,952,222	14,798	89,216 120,510	
Consumer group name or price	Non-standa Tot enues (\$000) by Pric Consumer type or types (eg, residential,	ard consumer totals ard consumer totals al for all consumers ce Component Standard or non- standard consumer group	Total line charge revenue in disclosure year	659,530 2,248,713 Notional revenue foregone from posted discounts (if applicable)	distribution line charge revenue	Total transmission line charge Rate (eg, \$ per day, \$ pe revenue (if kWh, etc.	101,318 65,324,983 Line charge revenu Fixed ICP Days	res (\$000) by price of Fixed	659,530,314 752,541,556 component Variable (Anytime)	- 478,890,567 Variable (Peak) kWh	– 1,139,527,655 Variable (Off-Peak)		– 14,798 Demand	89,216 120,510 Power Factor	Fixed
Consumer group name or price category code E1 E100	Non-standa Tot enues (\$000) by Price Consumer type or types (eg, residential, commercial etc.)	ard consumer totals ard consumer totals al for all consumers ce Component Standard or non- standard consumer group (specify) Standard Standard	186,209         296           186,505         186,505           Total line charge revenue in disclosure year         \$161,595           \$161,595         \$7,512	659,530 2,248,713 Notional revenue foregone from posted discounts (if applicable)	distribution line charge revenue \$122,331 \$5,645	Total transmission line charge revenue (if available) \$39,265 \$1,868	101,318 65,324,983 Line charge revenu Fixed ICP Days \$15,413 \$869	res (\$000) by price of Fixed	659,530,314 752,541,556 component Variable (Anytime)	- 478,890,567 Variable (Peak)	- 1,139,527,655 Variable (Off-Peak) kWh		– 14,798 Demand	89,216 120,510 Power Factor kVArh	Fixed Fixture Count D
Consumer group name or price category code E1 E100 W/50	Non-stands Tot enues (\$000) by Price Consumer type or types (eg, residential, commercial Commercial Commercial	ard consumer totals ard consumer totals al for all consumers ce Component Standard or non- standard consumer group (specify) Standard Non-standard	186,209         296           186,505         186,505           Total line charge revenue in disclosure year         \$161,595           \$161,595         \$7,512           \$151,593         \$15,938	659,530 2,248,713 Notional revenue foregone from posted discounts (if applicable)	distribution line charge revenue \$122,331 \$5,645 \$11,042	Total transmision line charge revenue (ff available) \$39,265 \$1,868 \$4,896	101,318 65,324,983 Line charge revenu Fixed ICP Days \$15,413 \$869 \$15,509	- Fixed KVA of Capacity	659,530,314 752,541,556 variable (Anytime) kWh	- 478,890,567 Variable (Peak) kWh \$64,379 - -	- 1,139,527,655 Variable (Off-Peak) kWh	Demand kW of AMD	- 14,798 Demand kW of OPD - \$1,868 -	89,216 120,510 Power Factor kVArh	Fixed Fixture Count D
Consumer group name or price category code E1 E100	Non-standa Tot enues (\$000) by Price Consumer type or types (eg, residential, commercial etc.)	ard consumer totals ard consumer totals al for all consumers ce Component Standard or non- standard consumer group (specify) Standard Standard	186,209         296           186,505         186,505           Total line charge revenue in disclosure year         \$161,595           \$161,595         \$7,512	659,530 2,248,713 Notional revenue foregone from posted discounts (if applicable)	distribution line charge revenue \$122,331 \$5,645	Total transmission line charge revenue (if available) \$39,265 \$1,868	101,318 65,324,983 Line charge revenu Fixed ICP Days \$15,413 \$869	- Ites (\$000) by price of Fixed KVA of Capacity	659,530,314 752,541,556 Variable (Anytime) kWh 		- 1,139,527,655 Variable (Off-Peak) kWh	Demand kW of AMD	 Demand kW of OPD 	89,216 120,510 Power Factor kVArh	Fixed Fixture Count D
Consumer group name or price category code E1 E100 W/50	Non-stands Tot enues (\$000) by Price Consumer type or types (eg, residential, commercial Commercial Commercial	ard consumer totals ard consumer totals al for all consumers ce Component Standard or non- standard consumer group (specify) Standard Non-standard	186,209         296           186,505         186,505           Total line charge revenue in disclosure year         \$161,595           \$161,595         \$7,512           \$151,593         \$15,938	659,530 2,248,713 Notional revenue foregone from posted discounts (if applicable)	distribution line charge revenue \$122,331 \$5,645 \$11,042	Total transmision line charge revenue (ff available) \$39,265 \$1,868 \$4,896	101,318 65,324,983 Line charge revenu Fixed ICP Days \$15,413 \$869 \$15,509	- Fixed KVA of Capacity	659,530,314 752,541,556 variable (Anytime) kWh	- 478,890,567 Variable (Peak) kWh \$64,379 - -	- 1,139,527,655 Variable (Off-Peak) kWh	Demand kW of AMD	- 14,798 Demand kW of OPD - \$1,868 -	89,216 120,510 Power Factor kVArh	Fixed Fixture Count D
Consumer group name or price category code E1 E100 W/50	Non-stands Tot enues (\$000) by Price Consumer type or types (eg, residential, commercial Commercial Commercial	ard consumer totals ard consumer totals al for all consumers ce Component Standard or non- standard consumer group (specify) Standard Non-standard	186,209         296           186,505         186,505           Total line charge revenue in disclosure year         \$161,595           \$161,595         \$7,512           \$151,593         \$15,938	659,530 2,248,713 Notional revenue foregone from posted discounts (if applicable)	distribution line charge revenue \$122,331 \$5,645 \$11,042	Total transmision line charge revenue (ff available) \$39,265 \$1,868 \$4,896	101,318 65,324,983 Line charge revenu Fixed ICP Days \$15,413 \$869 \$15,509	- Fixed KVA of Capacity	659,530,314 752,541,556 variable (Anytime) kWh	- 478,890,567 Variable (Peak) kWh \$64,379 - -	- 1,139,527,655 Variable (Off-Peak) kWh	Demand kW of AMD	- 14,798 Demand kW of OPD - \$1,868 -	89,216 120,510 Power Factor kVArh	Fixed Fixture Count D
Consumer group name or price category code E1 E100 W/50 SPECIAL	Consumer type or types (eg, residential, commercial etc.) Commercial/Industrial Commercial/Industrial	ard consumer totals ard consumer totals al for all consumers ce Component Standard or non- standard consumer group (specify) Standard Standard Non-standard Non-standard Non-standard standard or price cotegory co	186,209         296           186,505         186,505           Total line charge revenue in disclosure year         \$161,595           \$161,595         \$17,512           \$15,938         \$12,085           \$12,085         \$12,085	Notional revenue foregone from posted discounts (If applicable)	distribution line charge revenue \$122,331 \$5,645 \$11,042 \$6,709	Total transmission line charge revenue (if available) \$39,265 \$1,868 \$4,886 \$55,376	101,318 65,324,983 Line charge revenu Fixed ICP Days \$15,413 \$869 \$15,509 \$11,890	- Fixed KVA of Capacity	659,530,314 752,541,556 Variable (Anytime) kWh - \$465 - - - -		- 1,139,527,655 Variable (Off-Peak) kWh \$81,804 - - - - -		- 14,798 Demand kW of OPD - \$1,868 -	89,216 120,510 Power Factor kVArh	Fixed Fixture Count D
Consumer group name or price category code E1 E100 W/50 SPECIAL	Consumer type or types     (eg, residential,     commercial     Commercial     Commercial/Industrial     Commercial/Industrial     commercial/Industrial     dommercial/Industrial     dommercial/I	ard consumer totals ard consumer totals al for all consumers ce Component Standard or non- standard consumer group (specify) Standard Non-standard Non-standard Non-standard or price category co cor price category co consumer totals ard consumer totals	186,209         296           186,505         186,505           Total line charge revenue in disclosure year         \$161,595           \$161,595         \$7,512           \$15,938         \$12,085           \$15,938         \$12,085           \$15,938         \$12,085           \$161,595         \$161,595           \$15,938         \$12,085           \$15,938         \$12,085           \$161,595         \$161,595	Notional revenue foregone from posted discounts (f applicable)	distribution line charge revenue \$122,331 \$5,645 \$11,042 \$6,709 \$6,709 \$127,975 \$127,975 \$127,751	Total         Rate (eg, \$ per day,	101,318         65,324,983           Line charge revenu         Fixed           ICP Days         1           \$15,413         5869           \$15,509         \$11,890           \$11,890         \$11,890           \$15,232,232         \$11,890           \$15,232,232         \$12,398	- Fixed KVA of Capacity	659,530,314 752,541,556 Variable (Anytime) kWh - - - - - - - - - - - - - - - - - - -	- 478,890,567 Variable (Peak) kWh S64,379 - - - - - - - - - - - - - - - - - - -	- 1,139,527,655 Variable (Off-Peak) kWh \$\$1,804 - - - - - - - - - - - - -		- 14,798 Demand kW of OPD - \$1,868 -	89,216 120,510 Power Factor kVArh	Fixed Fixture Count D
Consumer group name or price category code E1 E100 W/50 SPECIAL	Consumer type or types     (eg, residential,     commercial     Commercial     Commercial/Industrial     Commercial/Industrial     commercial/Industrial     dommercial/Industrial     dommercial/I	ard consumer totals and consumer totals al for all consumers consumer group (specify) Standard Standard Non-standard Non-standard Non-standard Standard Standard stan	186,209         296           186,505         186,505           Total line charge revenue in disclosure year         \$161,595           \$161,595         \$7,512           \$15,938         \$12,085           \$12,085         \$12,085           \$200         \$169,108	Notional revenue foregone from posted discounts (f applicable)	distribution line charge revenue \$122,331 \$55,645 \$11,042 \$6,709 	Total           transmision line charge revenue (if available)         Rate (eg, \$ per day, \$ pe kWh, etc.           \$39,265         \$1,868           \$4,896         \$5,376           \$55,376         \$41,132	101,318 65,324,983 Line charge revenu Fixed ICP Days \$15,413 \$869 \$15,509 \$11,890 \$11,890 \$11,890	- Ites (\$000) by price ( Fixed KVA of Capacity	659,530,314 752,541,556 Variable (Anytime) kWh 		- 1,139,527,655 Variable (Off-Peak) kWh \$81,804 - - - - -		- 14,798 Demand kW of OPD - \$1,868 -	89,216 120,510 Power Factor kVArh	Fixed Fixture Count D

										Network / Sub	31 March 2023 Eastern Region					
equires the billed quantitie	I BILLED QUANTITIES is and associated line charge reve				g schedules. Information is :	also required on the number	r of ICPs that are in	cluded in each cons	umer group or price	e category code, and t	the energy delivered					
								Billed quantities by	y price component	1		1	1		1	1
Consumer group		Standard or non- standard	- Average no. of	Energy delivered to ICPs in		Unit charging basis (eg	Price component	Fixed	Fixed	Variable (Anytime)	Variable (Peak)	Variable (Off-Peak)	Demand	Demand	Power Factor	Fixed
name or price category code	Consumer type or types (eg, residential, commercial etc.)		ICPs in disclosure year	disclosure year (MWh)		demand, kVA of cap		ICP Days	kVA of Capacity	kWh	kWh	kWh	kW of AMD	kW of OPD	kVArh	Fixture Count Days
T01, T02, V01, V02	Streetlights/Unmetered Residential/Small Commercial	Standard Standard	571	7,619				- 59,700,560	-	7,619,447	- 213,584,121	- 498,615,467	-	-	-	9,409,001
T22, T28, V22, V28	Commercial	Standard	1,474	171,208				522,241		151,402,150	213,584,121 5,794,156	498,615,467	-	-	9,778	
T50, V40 T60, V60	Large Commercial/Industrial XLarge Commercial/Industrial	Non-standard Non-standard	323	238,478 1,022,360				116,922 22,965		238,477,705 813,796,038				-	54,037	
									<u> </u>							
Add extra rows for ad	dditional consumer groups or price	e category codes as					l									
		rd consumer totals rd consumer totals		1,450,901 1,260,838				60,222,801		728,589,395	219,378,277	512,942,407	-	-	9,778	
	Iota	I for all consumers		2,711,739				139,886 60,362,687	-	1,052,273,743 1,780,863,138	- 219,378,277	- 512,942,407		-	122,521 132,299	
: Line Charge Reve	nues (\$000) by Price Co						t		-		219,378,277		-			
: Line Charge Reve							ľ	60,362,687	- -	1,780,863,138	 219,378,277	- 512,942,407	-			
: Line Charge Reve		omponent	170,138	2,711,739		Iotal	Price component	60,362,687	ues (\$000) by price of Fixed	1,780,863,138	 219,378,277 Variable (Peak)					
: Line Charge Reve Consumer group name or price category code		Standard or non- standard consumer group	5 170,138 Total line charge		Total distribution line charge revenue	transmission	[	60,362,687		1,780,863,138	Variable	Variable	-	-	132,299	9,409,001
Consumer group name or price	nues (\$000) by Price Ca Consumer type or types (eg.	Standard or non- standard consumer group	Total line charge	2,711,739 Notional revenue foregone from posted discounts	distribution line charge	Total transmission line charge Rate (eg revenue (if available)	Price component g, \$ per day, \$ per	60,362,687 Line charge revenu Fixed	Fixed	1,780,863,138 component Variable (Anytime)	Variable (Peak)	Variable (Off-Peak)	- Demand	– Demand	132,299 Power Factor	9,409,001 Fixed
Consumer group name or price category code T01, T02, V01, V02 V065	nues (\$000) by Price Co Consumer type or types (eg, residential, commercial etc.) Streetlights/Unmetered Residential/Small Commercial	Standard or non- standard or non- standard consumer group (specify) Standard Standard	Total line charge revenue in disclosure year \$1,968 \$132,295	2,711,739 Notional revenue foregone from posted discounts	distribution line charge revenue \$1,356 \$95,765	transmission line charge Rate (eg revenue (if available) \$612 \$36,530	Price component g, \$ per day, \$ per	60,362,687 Line charge revenu Fixed ICP Days	Fixed	1,780,863,138 component Variable (Anytime) kWh \$294 \$39,490	Variable (Peak)	Variable (Off-Peak)	- Demand	– Demand	132,299 Power Factor kVArh	9,409,001 Fixed Fixture Count Days \$1,674
Consumer group name or price category col, vol, vol, vols T22, T28, v22, v28	nues (\$000) by Price Co Consumer type or types (eg, residential, commercial etc.) Streetlights/Unmetered Residential/Small Commercial Commercial	Standard or non- standard consumer group (specify) Standard Standard Standard	Total line charge revenue in disclosure yar \$1,968 \$132,295 \$17,387	2,711,739 Notional revenue foregone from posted discounts	distribution line charge revenue \$1,356 \$95,765 \$13,121	transmission line charge revenue (if available) \$612 \$36,530 \$4,266	Price component g, \$ per day, \$ per	60,362,687	Fixed kVA of Capacity 	1,780,863,138 component Variable (Anytime) kWh S294	Variable (Peak) kWh	Variable (Off-Peak) kWh	Demand kW of AMD	Demand kW of OPD	132,299 Power Factor KVArh 568	9,409,001 Fixed Fixture Count Days \$1,674 
Consumer group name or price category code T01, T02, V01, V02 V065	nues (\$000) by Price Co Consumer type or types (eg, residential, commercial etc.) Streetlights/Unmetered Residential/Small Commercial	Standard or non- standard consumer group (specify) Standard Standard Standard Non-standard	Total line charge revenue in disclosure year \$1,968 \$132,295	2,711,739 Notional revenue foregone from posted discounts	distribution line charge revenue \$1,356 \$95,765	transmission line charge Rate (eg revenue (if available) \$612 \$36,530	Price component g, \$ per day, \$ per	60,362,687 Line charge revenu Fixed ICP Days	Fixed kVA of Capacity 	1,780,863,138 component Variable (Anytime) kWh \$294 \$39,490	Variable (Peak) kWh	Variable (Off-Peak) kWh	Demand kW of AMD	Demand kW of OPD	132,299 Power Factor kVArh	9,409,001 Fixed Fixture Count Days \$1,674 - - -
Consumer group name or price category code T01, T02, V01, V02 V065 T22, T28, V22, V28 T50, V40	nues (\$000) by Price Co Consumer type or types (eg. residential, commercial etc.) Streetlights/Unmetered Residential/Small Commercial Commercial Large Commercial/Industrial	Standard or non- standard consumer group (specify) Standard Standard Standard Non-standard	Total line charge revenue in disclosure year \$1,968 \$132,295 \$17,387 \$14,167	2,711,739 Notional revenue foregone from posted discounts	distribution line charge revenue \$1,356 \$95,765 \$13,121 \$9,642	S612         S612           \$36,530         \$4,266           \$4,226         \$4,525	Price component g, \$ per day, \$ per	60,362,687	Fixed kVA of Capacity - - - -	1,780,863,138 component Variable (Anytime) kWh \$294 \$39,490	Variable (Peak) kWh	Variable (Off-Peak) kWh	Demand kW of AMD	Demand kW of OPD	132,299 Power Factor kVArh	9,409,001 Fixed Fixture Count Days \$1,674 - - -
Consumer group name or price category code T01, T02, V01, V02 V065 T22, T28, V22, V28 T50, V40	nues (\$000) by Price Co Consumer type or types (eg. residential, commercial etc.) Streetlights/Unmetered Residential/Small Commercial Commercial Large Commercial/Industrial	Standard or non- standard consumer group (specify) Standard Standard Standard Non-standard	Total line charge revenue in disclosure year \$1,968 \$132,295 \$17,387 \$14,167	2,711,739 Notional revenue foregone from posted discounts	distribution line charge revenue \$1,356 \$95,765 \$13,121 \$9,642	S612         S612           \$36,530         \$4,266           \$4,226         \$4,525	Price component g, \$ per day, \$ per	60,362,687	Fixed kVA of Capacity - - - -	1,780,863,138 component Variable (Anytime) kWh \$294 \$39,490	Variable (Peak) kWh	Variable (Off-Peak) kWh	Demand kW of AMD	Demand kW of OPD	132,299 Power Factor kVArh	9,409,001 Fixed Fixture Count Days \$1,674 - - -
Consumer group name or price category color, vol., vol., vol. vols T22, T28, v22, v28 T50, v40 T60, v60	nues (\$000) by Price Co Consumer type or types (eg. residential, commercial etc.) Streetlights/Unmetered Residential/Small Commercial Commercial Large Commercial/Industrial	Standard or non- standard consumer group (specify) Standard Standard Non-standard Non-standard	Total line charge revenue in disclosure year \$132,295 \$17,387 \$14,167 \$27,776	2,711,739 Notional revenue foregone from posted discounts	distribution line charge revenue \$1,356 \$95,765 \$13,121 \$9,642	S612         S612           \$36,530         \$4,266           \$4,226         \$4,525	Price component g, \$ per day, \$ per	60,362,687	Fixed kVA of Capacity - - - -	1,780,863,138 component Variable (Anytime) kWh \$294 \$39,490	Variable (Peak) kWh	Variable (Off-Peak) kWh	Demand kW of AMD	Demand kW of OPD	132,299 Power Factor kVArh	9,409,001 Fixed Fixture Count Days \$1,674 - - -
Consumer group name or price category color, vol., vol., vol. vols T22, T28, v22, v28 T50, v40 T60, v60	nues (\$000) by Price Co Consumer type or types (eg, residential, commercial etc.) Streetlights/Unmetered Residential/Small Commercial Large Commercial/Industrial XLarge Commercial/Industrial Large Commercial/Industrial	Standard or non- standard consumer group (specify) Standard Standard Standard Non-standard Non-standard Non-standard Non-standard standard	Total line charge revenue in disclosure year \$1,968 \$132,295 \$17,307 \$14,167 \$27,776	2,711,739 Notional revenue foregone from posted discounts	distribution line charge revenue \$1,356 \$95,765 \$13,121 \$9,642 \$14,746 \$14,746 \$110,242	S612         S612           \$36,530         \$4,266           \$4,266         \$4,255           \$13,030         \$4,266           \$4,266         \$4,266           \$4,266         \$4,266           \$4,266         \$4,266           \$4,300         \$4,266           \$4,4,408         \$41,408	Price component g, \$ per day, \$ per	60,362,687	Fixed	1,780,863,138 component Variable (Anytime) kWh \$294 \$39,490	Variable (Peak) kWh	Variable (Off-Peak) kWh		Demand     kW of OPD	132,299 Power Factor KVArh S668 S376 S479 S479 S479 S668	9,409,001 Fixed Fixture Count Days S1,674
Consumer group name or price category color, vol., vol., vol. vols T22, T28, v22, v28 T50, v40 T60, v60	nues (\$000) by Price Co Consumer type or types (eg. residential, commercial etc.) Streetlights/Unmetered Residential/Small Commercial Commercial Large Commercial/Industrial XLarge Commercial/Industrial Jarge Commercial/Industrial Large Commercial Large Commercia	Standard or non- standard consumer group (specify) Standard Standard Standard Non-standard Non-standard e standard stand	Total line charge revenue in disclosure year \$1,968 \$132,295 \$17,387 \$14,167 \$27,776 	2,711,739 Notional revenue foregone from posted discounts	distribution line charge revenue \$1,356 \$95,765 \$13,121 \$9,642 \$14,746	S612         S612           \$36,530         \$4,266           \$4,266         \$4,266           \$13,030         \$13,030	Price component g, \$ per day, \$ per	60,362,687	Fixed	1,780,863,138	Variable (Peak) kWh - \$31,556 - - - -	Variable (Off-Peak) kWh - \$24,946 - - -	Demand kW of AMD	Demand kW of OPD	132,299 Power Factor kVArh	9,409,001

Company Name	Powerco Limited
For Year Ended	31 March 2023
Network / Sub-network Name	Powerco Limited
SCHEDULE 9a: ASSET REGISTER	

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

Í								
					Items at start of	Items at end of	No. 1	Data accuracy
8	Voltage	Asset category	Asset class	Units	year (quantity)	year (quantity)	Net change	(1-4)
9	All	Overhead Line	Concrete poles / steel structure	No.	231,571	232,393	822	4
10	All	Overhead Line	Wood poles	No.	29,733	28,865	(868)	4
11	All	Overhead Line	Other pole types	No.	3,645	3,666	21	3
12	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	1,506	1,492	(15)	4
13	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km	_	9	9	4
14	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km	261	297	36	3
15	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km	13	7	(5)	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	0	(1)	4
18	HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	km	_	3	3	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.	150	154	4	3
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.	18	18	-	4
27	HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No.	41	37	(4)	3
28	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.	807	800	(7)	4
29	HV	Zone substation switchgear	33kV RMU	No.	2	1	(1)	4
30	HV	Zone substation switchgear	22/33kV CB (Indoor)	No.	177	205	28	3
31	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.	178	184	6	3
32	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.	920	948	28	3
33	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.	41	34	(7)	3
34	HV	Zone Substation Transformer	Zone Substation Transformers	No.	215	214	(1)	3
35	HV	Distribution Line	Distribution OH Open Wire Conductor	km	14,661	14,642	(19)	4
36	HV	Distribution Line	Distribution OH Aerial Cable Conductor	km	_	-	-	4
37	HV	Distribution Line	SWER conductor	km	92	85	(7)	4
38	HV	Distribution Cable	Distribution UG XLPE or PVC	km	2,059	2,115	56	3
39	HV	Distribution Cable	Distribution UG PILC	km	172	167	(6)	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.	804	837	33	3
42	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.	409	413	4	3
43	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	40,496	40,814	318	3
44	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	1,429	1,386	(43)	3
45	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.	3,130	3,231	101	3
46	HV	Distribution Transformer	Pole Mounted Transformer	No.	27,649	27,600	(49)	3
47	HV	Distribution Transformer	Ground Mounted Transformer	No.	9,324	9,485	161	3
48	HV	Distribution Transformer	Voltage regulators	No.	137	147	10	3
49	HV	Distribution Substations	Ground Mounted Substation Housing	No.	3,783	4,067	284	3
50	LV	LV Line	LV OH Conductor	km	5,493	5,473	(20)	3
51	LV	LV Cable	LV UG Cable	km	4,666	4,785	119	3
52	LV	LV Street lighting	LV OH/UG Streetlight circuit	km	3,067	3,093	26	3
53	LV	Connections	OH/UG consumer service connections	No.	354,106	357,865	3,759	3
54	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.	2,620	2,769	149	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	51	51	-	4
57	All	Load Control	Centralised plant	Lot	36	36	-	4
58	All	Load Control	Relays	No	3,907	4,074	167	2
59	All	Civils	Cable Tunnels	km	-	-	-	4

Company Name	Powerco Limited
For Year Ended	31 March 2023
Network / Sub-network Name	Western Region
SCHEDULE 9a: ASSET REGISTER	

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

					Items at start of	Items at end of		Data accuracy
8	Voltage	Asset category	Asset class	Units	year (quantity)	year (quantity)	Net change	(1–4)
9	All	Overhead Line	Concrete poles / steel structure	No.	149,201	149,914	713	4
10	All	Overhead Line	Wood poles	No.	26,003	25,301	(702)	4
11	All	Overhead Line	Other pole types	No.	1,271	1,251	(20)	3
12	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	963	950	(13)	4
13	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km		-	-	4
14	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km	103	112	9	3
15	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km	13	7	(5)	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	0	(1)	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.	83	86	3	3
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.	24	26	2	3
28	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.	519	526	7	4
29	HV	Zone substation switchgear	33kV RMU	No.	2	1	(1)	4
30	HV	Zone substation switchgear	22/33kV CB (Indoor)	No.	82	109	27	3
31	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.	103	112	9	3
32	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.	500	516	16	3
33	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.	41	34	(7)	3
34	HV	Zone Substation Transformer	Zone Substation Transformers	No.	126	127	1	3
35	HV	Distribution Line	Distribution OH Open Wire Conductor	km	10,056	10,040	(16)	4
36	HV	Distribution Line	Distribution OH Aerial Cable Conductor	km	_	-	-	4
37	HV	Distribution Line	SWER conductor	km	23	17	(6)	4
38	HV	Distribution Cable	Distribution UG XLPE or PVC	km	723	738	15	3
39	HV	Distribution Cable	Distribution UG PILC	km	73	72	(1)	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.	463	483	20	3
42	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.	270	256	(14)	3
43	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	24,886	25,050	164	3
44	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	678	681	3	3
45	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.	1,373	1,367	(6)	3
46	HV	Distribution Transformer	Pole Mounted Transformer	No.	18,683	18,625	(58)	3
47	HV	Distribution Transformer	Ground Mounted Transformer	No.	3,942	3,956	14	3
48	HV	Distribution Transformer	Voltage regulators	No.	79	87	8	3
49	HV	Distribution Substations	Ground Mounted Substation Housing	No.	1,485	1,624	139	3
50	LV	LV Line	LV OH Conductor	km	3,509	3,498	(12)	3
51	LV	LV Cable	LV UG Cable	km	2,477	2,545	68	3
52	LV	LV Street lighting	LV OH/UG Streetlight circuit	km	1,378	1,387	9	3
53	LV	Connections	OH/UG consumer service connections	No.	185,409	187,066	1,657	3
54	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.	1,289	1,377	88	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	25	25	_	4
58	All	Load Control	Relays	No	1,675	1,758	83	2
59	All	Civils	Cable Tunnels	km	-	-	-	4

Company Name	Powerco Limited
For Year Ended	31 March 2023
Network / Sub-network Name	Eastern Region
SCHEDULE 9a: ASSET REGISTER	

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

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)
0 9	All	Overhead Line	Concrete poles / steel structure	No.	82,370	82,479	109	4
10	All	Overhead Line	Wood poles	No.	3,730	3,564	(166)	4
10	All	Overhead Line	Other pole types	No.	2,374	2,415	41	3
12	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	543	542	(2)	4
13	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km		9	9	4
13	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km	157	185	27	3
14	HV	Subtransmission Cable	Subtransmission UG up to 66kV (OII 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	_	3	3	4
19	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Oil pressurised)	km	_	-		4
20	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Gas Pressurised)	km				4
20	HV	Subtransmission Cable	Subtransmission UG 110kV+ (PILC)	km	_			4
22	HV	Subtransmission Cable	Subtransmission submarine cable	km				4
22	HV	Zone substation Buildings	Zone substations up to 66kV	No.	67	68	1	3
23 24	HV	Zone substation Buildings	Zone substations 110kV+	NO.		-		4
24	HV	Zone substation switchgear	50/66/110kV CB (Indoor)	No.				4
25	HV	Zone substation switchgear	50/66/110kV CB (Middor)	No.				4
27	HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No.	17	10	(6)	3
28	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.	288	274	(14)	4
20	HV	Zone substation switchgear	33kV RMU	No.	200	2/4	(14)	4
30	HV	Zone substation switchgear	22/33kV CB (Indoor)	No.	95	96	1	3
31	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.	75	72	(3)	3
32	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.	420	432	12	3
33	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.	420	432		3
34	HV	Zone Substation Transformer	Zone Substation Transformers	No.	89	87	(2)	3
35	HV	Distribution Line	Distribution OH Open Wire Conductor	km	4,605	4,601	(3)	4
36	HV	Distribution Line	Distribution OH Aerial Cable Conductor	km	-,005		(3)	4
37	HV	Distribution Line	SWER conductor	km	69	68	(1)	4
38	HV	Distribution Cable	Distribution UG XLPE or PVC	km	1,336	1,377	41	3
39	HV	Distribution Cable	Distribution UG PILC	km	99	95	(4)	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.	341	354	13	3
42	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.	139	157	18	3
43	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	15,610	15,764	154	3
44	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	751	705	(46)	3
45	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.	1,757	1,864	107	3
46	HV	Distribution Transformer	Pole Mounted Transformer	No.	8,966	8,975	9	3
47	HV	Distribution Transformer	Ground Mounted Transformer	No.	5,382	5,529	147	3
48	HV	Distribution Transformer	Voltage regulators	No.	58	60	2	3
49	HV	Distribution Substations	Ground Mounted Substation Housing	No.	2,298	2,443	145	3
50	LV	LV Line	LV OH Conductor	km	1,983	1,975	(8)	3
51	LV	LV Cable	LV UG Cable	km	2,189	2,240	51	3
52	LV	LV Street lighting	LV OH/UG Streetlight circuit	km	1,689	1,706	17	3
53	LV	Connections	OH/UG consumer service connections	No.	168,697	170,799	2,102	3
54	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.	1,331	1,392	61	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	46	46	-	4
57	All	Load Control	Centralised plant	Lot	11	11	-	4
58	All	Load Control	Relays	No	2,232	2,316	84	2
59	All	Civils	Cable Tunnels	km	-	-	-	4

	Company Name	Powerco Limited
	For Year Ended	31 March 2023
	Network / Sub-network Name	Powerco Limited
SCHEDULE 9b: ASSET AGE PROFILE		
This schedule requires a summary of the age profile (based on year of installation) of the assets that make up the network, by asset category and asset class. All units relating to cable and line assets, that are expressed in km, refer to circuit lengths.		

sch																																			
8		Disclosure Year (year ended	31 March 2023						Nu	umber of	assets at d	lisclosure y	year end by	/ installat	ion date																	No. with	end of	No with	Data
				Unit			0 1970																									age	year	default a	
9		Asset category	Asset class	s pre-1940		-1959 -196					2001									2011 2012														dates	(1-4)
10	All All	Overhead Line	Concrete poles / steel structure	N 21		4,236 29,1			26,228	3,330	3,119	2,068	2,309	1,874 294	232	1,824	2,143 2,38			2,220 2,395	3,285	3,398	3,387	4,218 3,	951 3,54	7 4,45	8 4,587	5,205	3,375	27	-	29	232,393 28,865	+	
11	All	Overhead Line Overhead Line	Wood poles Other pole types	N 24	34	659 4,4	3 6,940	54	92	21	258	3/9	413	294	86	70	31 2			32 3 10 2	3	2	5	-	1 1	0	1 8	15	93	5/ -	-	83			- 3
	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	<u></u>	-	4 2	30 2,707		224	21	09	30	39	40	14	70	0 2	-		34 15		3	-	11	- 28	4 .	5 17	3/	93	04 -		60	1,492	-+	
	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	× -	U	40 2:	412	295	224	•	0	3	1	-	14		9 1	11	3	54 15	0	10	0		20 .	.0 1:	5 1/	0	15		-	U	1,492		4
	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	× -	_		0 19	-	- 21	- 7	- 1	-	- 1	- 1	- 1			- 7	- 7	22 7	-	-	12	-	25 3	9 19	9 38		- 18	23 -	-	-	297		4
	HV		Subtransmission UG up to 66kV (ALP E)	<u>]</u>	_	_	7	0	21			-	-	-	-	2	3 .			22 1			12	3	25	5 1	3 30		10	23 -		0	257	-+	
	HV	Subtransmission Cable Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressurised)	×	-	-	/ -	-	-		-	-	-	-	-	-		_	-		-	-	-	-				_	-				<u> </u>	-+	N/A
	HV	Subtransmission Cable	Subtransmission UG up to 66kV (PILC)	2	_		0 0	_	-	-	-	-	-	-	-	-		_	_		_	_	-	-		-	-	-	_						N/A
	HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	2	_	_	0 0	_		-	-	-	-	-	-	-		_	_		_	_	-	-		-	-	-	_				2		
	HV	Subtransmission Cable	Subtransmission UG 110kV+ (kEPE) Subtransmission UG 110kV+ (Oil pressurised)	2	_			_	_	-	-	-	-	-	-	-		_	_		_	_	-	-		-	-	-	_	3 -					N/A
	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Gir pressurised)	2	_			_	_	-	-	-	-	-	-	-		_	_		_	_	-	-		-	-	-	_						N/A
	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Gas Pressuised)		_			_	-	-	_	-	-	-	-	-		_	_		_		-	-		-	-	_	_		_	_			N/A
	HV	Subtransmission Cable	Subtransmission submarine cable	k -					-	_	_	_	_	_	_	_		-			-		-	-					_		-	-			N/A
	HV		Zone substations up to 66kV	N		2	5 14	12	13	_	_	_	1	1	23	2	5	1	1	3 2	2	3	1	3	- 1	1	1 3	4	7	13 -	1 -	20	154		2
25	HV	Zone substation Buildings	Zone substations 110kV+	N -	-		- 14	-	-	-	-	-	-	-	-	-		- 1	-		-	- 1	-	-				-	-		1 -	-	-	-	N/A
	HV		50/66/110kV CB (Indoor)		-		-	-	-	-	-	-	-	-	-	-		-	-		-	-	-	-		-	-	-	-		-	-	-		N/A
	HV		50/66/110kV CB (Outdoor)		-		2	4	1	-	-	-	-	-	-	1	6 -	-	-		-	-	3	-		-	-	1	_		-	-	18	-	3
	HV		33kV Switch (Ground Mounted)	N -	-		-	2	-	-	-	-	-	-	1	-	- 3	1	-	4 3	5	2	3	6		-	-	-	6	2 -	-	_	37	-	3
	HV		33kV Switch (Pole Mounted)	N -	-	- 3	37 138	155	106	9	6	1	3	6	10	2	10 1	13	14	13 25	16	6	21	37	12 1	4 20	4 19	19	16	7 -	-	_	800	-	3
	HV	Zone substation switchgear		N -	-		-	-	-	-	-	-	-	-	-	-	1 -	-	-		-	-	-	-		-	-	-	-		-	_	1	-	3
	HV	Zone substation switchgear		N -	-		-	-	23	-	-	-	-	-	-	-	6	-	14	21 6	9	8	-	23	9 3	0 1	1 14	6	11	18 -	-	_	205	-	3
	HV	Zone substation switchgear		N -	-	-	10 14	33	20	4	1	-	-	-	4	-	3	8	1	2 3	4	2	7	10	9	9 10	0 7	6	11		-	2	184	-	3
	HV		3.3/6.6/11/22kV CB (ground mounted)	N -	-	- 1	51 124	96	105	7	20	1	3	19	20	18	38 1	20	9	33 14	33	26	41	48	37 3	2 2	7 36	37	10	15 -	-	-	948	-	3
	HV		3.3/6.6/11/22kV CB (pole mounted)	N -	-		-	1	4	-	-	-	-	1	1	-	1 -	-	-	- 2	-	4	6	1	8 -		1 1	2	-	1 -	-	-	34	-	3
35	HV		Zone Substation Transformers	N -	-	1 :	19 26	19	22	2	5	3	4	2	2	5	9	2	4	5 4	11	9	13	10	1	4 5	5 7	9	4		-	1	214	-	3
36	HV	Distribution Line	Distribution OH Open Wire Conductor	k 78	403	1.134 2.6	59 3.566	3.178	1.302	34	59	99	69	72	65	74	80 6	82	81	65 94	129	115	115	113	122 1	4 130	0 151	217	106	69 -	-	6	14,642	-	3
37	HV	Distribution Line	Distribution OH Aerial Cable Conductor	k -	-		-	-	-	-	-	-	-	-	-	-		-	-		-	-	-	-		-	-	-	-		-	-	-	-	N/A
	HV	Distribution Line	SWER conductor	k -	0	0	14 34	10	7	-	-	-	5	-	-	-	0	0	0		0	7	0	0	0	0 0	0 0	0	3	4 -	-	-	85	-	3
	HV	Distribution Cable	Distribution UG XLPE or PVC	k -	0	5 4	1 199	394	290	48	41	28	29	41	49	57	55 5	52	48	38 38	41	40	45	49	50 4	5 84	4 66	45	68	59 -	-	11	2,115	-	3
40	HV	Distribution Cable	Distribution UG PILC	k -	-	1 :	15 52	64	19	2	2	2	3	0	0	1	1	0	0	0 0	0	0	0	-	0	0 0	0 0	0	-		-	4	167	-	3
	HV	Distribution Cable	Distribution Submarine Cable	k -	-		-	2	7	-	-	-	-	-	-	-		1	-		-	-	-	0	0 -	-	0	-	0		-	-	11	-	3
	HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers	N -	-	1	1 12	29	29	5	3	9	5	18	12	16	11 1	25	21	20 27	30	33	51	94	75	9 54	8 48	53	27	12 -	-	22	837	-	3
43	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	N -	-	6 4	19 123	58	61	4	-	1	2	4	7	3	-	7	6	5 5	2	5	4	4	7 -	-	8	11	12	12 -	-	-	413	-	3
	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	N 12	14	551 1,9	1 5,530	4,947	4,354	373	818	822	658	693	787	771	784 73	735	738	650 751	803	1,096	1,225	1,339 1,	499 1,44	4 1,614	4 1,598	1,785	1,171	569 -	-	9	40,814	-	3
	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	N -	-	2 (	59 228	216	234	15	25	18	36	49	35	58	60 4	53	33	36 34	22	12	8	14	5	9 1	1 4	8	9	14 -	-	21	1,386	-	3
	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	N -	1	5 4	48 225	222	178	33	60	37	40	72	70	88	117 8	105	75	67 79	82	98	131	149	163 10	8 18	9 188	162	178	96 –	-	18	3,231	-	3
	HV	Distribution Transformer	Pole Mounted Transformer	N -	-	64 6	51 2,108	3,745	4,999	477	511	506	574	658	625	585	637 65	627	588	515 536	619	662	682	676	720 70	7 91	7 786	895	784	360 -	-	724		-	4
48	HV	Distribution Transformer	Ground Mounted Transformer	N -	-	4 1	60 629	1,194	1,434	193	209	164	191	246	243	291	311 28	252	206	185 221	181	239	279	271	296 29	7 339	9 299	281	299	183 -	-	100	9,485	-	4
49	HV	Distribution Transformer	Voltage regulators	N -	-		2	2	4	1	1	1	2	3	2	6	3	3	3	2 7	4	8	9	10	5	4 21	8 8	10	-	3 -	-	7	147	-	4
50	HV	Distribution Substations	Ground Mounted Substation Housing	N 1	-	2 1	87 803	711	315	16	25	24	42	59	23	29	35 5	57	58	31 52	. 50	56	71	78	106 13	9 14	7 172	153	198	117 -	-	365	4,067	-	3
51	LV	LV Line	LV OH Conductor	k 0	38	241 1,0	35 2,145	898	434	35	36	28	29	24	22	21	23 2	19	15	17 12	20	24	14	25	21	7 21	8 24	30	28	12 -	-	74	5,473	-	2
52	LV	LV Cable	LV UG Cable	k 0	0	8 1	50 997	915	727	63	63	53	61	98	114	116	132 13	115	59	45 41	38	47	49	68	91 9	4 10	6 96	87	82	38 -	-	100	4,785	-	2
53	LV	LV Street lighting	LV OH/UG Streetlight circuit	k 1	10	77 33	23 850	552	428	45	41	27	28	69	70	63	58 5	56	31	23 18	14	14	19	28	33 3	3 3	5 26	19	15	9 -	-	25	3,093	-	2
54	LV	Connections	OH/UG consumer service connections	N -	-		-	-	-	8,203	3,866	3,928	4,693	5,145	5,092	5,445	5,280 4,30	3,347	3,189	2,946 2,955	3,206	3,606	4,041	4,778 5,	344 4,7	5 4,87	1 4,862	5,579	4,979	988 -	-	252,446	357,865	-	2
55	All	Protection	Protection relays (electromechanical, solid state and numeric)	N -	-	- 1	78 280	181	105	57	2	6	4	15	32	49	26 4	64	16	48 44	57	148	224	212	173 1	6 11	3 189	168	80	81 -	-	95	2,769	-	3
56	All	SCADA and communications	SCADA and communications equipment operating as a single system	L -	-		-	-	-	-	-	-	-	-	-	-		-	-		-	-	-	-		-	-	-	-		-	1	1	-	2
57	All	Capacitor Banks	Capacitors including controls	N -	-		-	1	25	2	-	-	-	-	-	-	1 -	1	1	- 6	1	1	3	-	1	3 3	3 1	-	1		-	-	51	-	4
58	All	Load Control	Centralised plant	L -	-		4	4	8	-	1	-	-	-	-	-		3	1	1 6	1	2	-	1	-	1 1	1 1	1	-		-	-	36	-	3
59	All	Load Control	Relays	N -	-	9	23 796	300	284	71	45	36	37	90	54	77	92 4	73	89	74 33	187	79	76	70	81 13	1 174	4 148	71	73	32 -	-	733	4,074	-	2
60	All	Civils	Cable Tunnels	k -	-		-	-	-	-	-	-	-	-	-	-		-	-		-	-	-	-		-		-	-		-	-	-	-	N/A

Company Name	Powerco Limited
For Year Ended	31 March 2023
Network / Sub-network Name	Western Region

#### SCHEDULE 9b: ASSET AGE PROFILE

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

sch re	f																																				
8		Disclosure Year (year ended)	31 March 2023							N	umber of asse	s at disclos	ure year en	d by instal	lation date																						
																																			end of I		
	Voltage	Asset category	Asset class	Jnit	1940 1949				1980 1989		2000 200	1 2002	2003	2004	2005	2000	2007	2000	2000	2010 20		2012	201.4	2015	2010	2017				21 2022	2022	2024	2025	age			(1-4)
10	All		Concrete poles / steel structure	s pre-1940			16.083				3 265 2 9					1 164	1.319	1.354			423 1.563				3.022					020 2.033			2025		149,914	dates	(1-4)
10	All		Wood poles	20			4 325	6 1 9 6	6.025	5 782	393 2,9		/			1,104	1,319	1,354	1,093		24 3	2,223	2,495	2,402	5,022	2,001	2,524	3,130	2,794 3,	14 40		_	-	20		-+	
12	All		Other pole types	24	34	403	4,235	755	42	62	333 6		7 13				101	5	3		10 1	2	1	*	- 1	_	4	7	4	35 92			-	67	13,301	-+	3
12	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor		-	7	205	285	186	140	1	0	2 0	30		10	2		11	2	0 0	2		-	11	22	15	12	12	7 15	-	-	-	07	950	-+	
14	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor				205	205	100	140	1	0	2 0								0 0		0	0	11	22	15	12	12	/ 15	-	-	-		350	-+	N/A
15	HV		Subtransmission UG up to 66kV (XLPE)			-	0	4	5	3	3	0	6 0	1	0	_	3	0	6	0	8 0	1	0	1	1	4	5	13	34	2 1	11	-	-	0	112		4
16	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	)			7	-	-	-	0	•	0 0	-							0 0	-			-	-	-		54		-			- v	7		
17	HV		Subtransmission UG up to 66kV (Gas pressurised)		-	_		_	_	_	-	_		_	-	_			-	-		_	_	-	_	_	-	-	-		-	-	-			-+	N/A
18	HV		Subtransmission UG up to 66kV (PILC)					-	_	-			_				-			-			_	_	_	_	_	-	-						-		4
19	HV		Subtransmission UG 110kV+ (XLPE)		-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	_	-	-	-	-	-	-	-	-		-	-	-				N/A
20	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Oil pressurised)		-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	_	-	-	-	-	-	-	-	-		-	-	-				N/A
21	HV		Subtransmission UG 110kV+ (Gas Pressurised)		-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	_	-	-	-	-	-	-	-	-		-	-	-				N/A
22			Subtransmission UG 110kV+ (PILC)		-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	_	-	-	-	-	-	-	-	-		-	-	-				N/A
23	HV		Subtransmission submarine cable	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-		-	-	-	- 1	-	-	N/A
24	HV		Zone substations up to 66kV	1 -	-	1	3	9	8	10		_	1	1	-	-	4	-	-	1	2 -	1	1	1	1	-	-	-	3	- 2	5	-	-	29	86	-	2
25	HV		Zone substations 110kV+		-	-	-	-	-	-		_	-	-	-	-	-	-	-			-	-	-	-	-	-	-	-		-	-	-	-	-	-	N/A
26	HV		50/66/110kV CB (Indoor)	-	-	-	-	-	-	_		-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-		-	-	-	-	-		N/A
27	HV		50/66/110kV CB (Outdoor)	-	-	-	-	-	-	_		-	-	-	-	-	-	-	-	-		-	-	-	_	-	-	-	-		-	-	-	-	-	-	N/A
28	HV		33kV Switch (Ground Mounted)	-	-	-	-	-	-	_		-	-	-	-	-	-	-	-	-	4 3	-	2	3	6	_	-	-	-	- 6	1 2	-	-	-	26	-	3
29	HV		33kV Switch (Pole Mounted)	-	-	-	63	83	113	82	9	6	1 3	6	6	-	2	-	2	2	8 17	8	3	12	20	3	4	22	14	15 15		-	-	-	526	-	3
30	HV		33kV RMU	-	-	-	-	-	-	-		-		-	-	-	1	-	-	-		-	-	-	-	-	-	-	-		-	-	-	-	1	-	3
31	HV	Zone substation switchgear		-	-	-	-	-	-	23		-	_	-	-	-	6	-	-	14	11 -	4	1	-	3	1	1	3	13	- 11	18	-	-	-	109	-	3
32	HV		22/33kV CB (Outdoor)	-	-	-	9	10	26	8	2 -	-	-	-	1	-	2	2	3	-	2 -	1	1	4	3	3	6	10	3	4 10	-	-	-	2	112	-	3
33	HV		3.3/6.6/11/22kV CB (ground mounted)	- 1	-	-	38	73	51	78	-	20	1 1	17	13	1	30	1	1	-	19 -	20	10	11	22	37	8	9	33	- 7	15	-	-	-	516	-	3
34	HV		3.3/6.6/11/22kV CB (pole mounted)	- 1	-	-	-	-	1	4		-	-	1	1	-	1	-	-	-	- 2	-	4	6	1	8	-	1	1	2 -	1	-	-	-	34	-	3
35	HV		Zone Substation Transformers	- 1	-	1	17	21	11	15	1	4	2 4	2	2	-	5	2	-	-	3 1	3	4	4	7	1	3	3	5	2 3	-	-	-	1	127	-	3
36	HV		Distribution OH Open Wire Conductor	k 78	403	1,055	1,945	2,175	2,249	903	30	10 E	4 52	44	39	32	38	23	34	18	28 41	57	63	61	49	53	56	70	71	124 59	58	-	-	6	10,040	-	3
37	HV		Distribution OH Aerial Cable Conductor	k -	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-		-	-	-	-	-	-	N/A
38	HV	Distribution Line	SWER conductor	× -	0	-	-	9	8	-		-	-	-	-	-	-	-	-			-	-	0	0	0	0	0	0	0 -	0	-	-	-	17	-	3
39	HV		Distribution UG XLPE or PVC	× -	0	4	37	113	125	80	12	9 1	1 6	9	10	15	16	22	17	19	9 12	15	19	18	21	15	11	31	26	12 21	16	-	-	10	738	-	3
40	HV		Distribution UG PILC	× -	-	0	12	27	15	6	0	0	2 3	0	0	1	1	0	0	0	0 0	0	0	0	-	0	0	0	0	0 -	-	-	-	4	72	-	3
41	HV		Distribution Submarine Cable	× -	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-		-	-	-	-	-	-	N/A
42	HV		3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers	- 1	-	-	1	5	29	24	4	2	7 5	8	11	11	6	10	16	13	6 17	12	14	19	40	35	48	40	23	34 17	6	-	-	20	483	-	3
43	HV		3.3/6.6/11/22kV CB (Indoor)	- 1	-	5	40	81	37	32	4 -		1 2	4	7	2	-	7	6	6	4 5	1	5	-	1	6	-	-	-		-	-	-	-	256	-	3
44	HV		3.3/6.6/11/22kV Switches and fuses (pole mounted)	12	14	524	1,315	4,198	2,940	2,261	253 6	12 63	2 481	442	459	461	441	419	398	363	358 431	424	632	745	705	748	770	933	981 1,	068 648	346	-	-	6	25,050	-	3
45	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	- 1	-	-	55	115	86	103	9	16 1	1 26	22	16	10	30	20	28	16	16 17	8	12	6	12	2	2	7	2	3 5		-	-	21	681	-	3
46	HV		3.3/6.6/11/22kV RMU	- 1	1	5	38	125	149	66	15	17 2	5 22	28	20	27	44	26	31	36	19 29	35	52	55	60	60	55	51	63	72 66	28	-	-	17	1,367	-	3
47	HV		Pole Mounted Transformer	- 1	-	63	462	1,554	2,733	3,079	332 3	42 35	3 402	436	405	361	407	379	385	301	328 378	393	433	445	408	520	446	631	591	603 514	222	-	-	719	18,625	-	4
48	HV	Distribution Transformer	Ground Mounted Transformer	- 1	-	2	63	293	466	524	80	34 10	1 94	87	87	103	95	121	102	75	75 98	95	135	138	116	115	109	132	145	137 125	62	-	-	97	3,956	-	4
49	HV	Distribution Transformer	Voltage regulators	- 1	-	-	-	2	1	4	-	1	1 2	3	2	5	1	4	3	1	2 6	1	5	8	4	1	2	12	3	6 -	-	-	-	7	87	-	4
50	HV	Distribution Substations	Ground Mounted Substation Housing	1	-	-	18	305	150	83	5	11 2	1 32	34	9	11	11	22	14	24	6 17	19	31	24	38	37	34	47	65	62 89	46	-	-	358	1,624	-	3
51	LV	LV Line	LV OH Conductor	k 0	38	182	644	1,352	499	262	34	32 2	4 23	20	19	17	17	17	14	11	14 10	17	21	12	24	17	24	23	15	18 16	9	-	-	72	3,498	-	2
52	LV	LV Cable	LV UG Cable	k 0	0	8	90	554	512	346	33	29 3	4 35	37	52	52	63	67	64	33	27 18	20	25	25	31	34	41	43	53	51 51	19	-	-	96	2,545	-	2
53	LV	LV Street lighting	LV OH/UG Streetlight circuit	k 0	10	65	213	406	249	143	18	15 1	3 14	15	24	17	20	20	24	10	8 4	7	5	8	7	7	8	10	8	5 6	5	-	-	22	1,387	-	2
54	LV		OH/UG consumer service connections	- 1	-	-	-	-	-	-	1,292 1,2	28 1,17	0 1,675	1,897	2,099	2,204	2,313	1,989	1,636	1,614 1,	426 1,346	1,485	1,424	1,413	1,537	1,857	1,933	1,898	2,177 2,	423 2,078	521	-	-	146,431	187,066	-	2
55	All		Protection relays (electromechanical, solid state and numeric)	· -	-	-	58	125	53	51	57	1	6 –	15	12	27	3	19	29	13	29 16	23	77	134	81	106	89	65	80	65 49	53	-	-	41	1,377	-	3
56	All		SCADA and communications equipment operating as a single syster	L -	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-		-	-	-	1	1	-	2
57	All		Capacitors including controls	N -	-	-	-	-	-	-	1 -	-	-	-	-	-	-	-	-	-	- 3	-	-	-	-	-	1	-	-		-	-	-	-	5	-	4
58	All		Centralised plant	L -	-	-	-	4	4	8	-	1 –	-	-	-	-	-	-	-	-	- 5	-	1	-	1	-	-	1	-		-	-	-	-	25	-	3
59	All		Relays	r _	-	-	9	310	148	96	14	18 2	3 21	38	7	17	27	14	7	12	17 2	8	20	34	22	20	34	57	58	22 33	10	-	-	660	1,758	-	2
60	All	Civils	Cable Tunnels	k	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-		-	-	-	-	-	-	N/A

Company Nan	Powerco Limited
For Year End	31 March 2023
Network / Sub-network Nan	Eastern Region

SCHEDULE 9b: ASSET AGE PROFILE This schedule requires a summary of the age profile (based on year of installation) of the assets that make up the network, by asset category and asset class. All units relating to cable and line assets, that are expressed in km, refer to circuit lengths.

sch	f		[]																																
8		Disclosure Year (year ended)	31 March 2023						N	lumber of a	issets at dis	closure yea	r end by inst	allation date																		No with	end of 1	No with	course
				pre-	1940	1950 19	0 1970	1980	1990																							age		default	y
9		ge Asset category		Units 1940			69 –1979		T		2001 2																	2021 202			2025				(1-4)
10	All	Overhead Line	Concrete poles / steel structure	No 1	L 4	1,031 13,0				65		448	495 51	7 476	660	824	1,033			7 83	2 1,062	903	985	,196 1,29	1,023	1,302	1,793	2,185 1,3	42 54	9 –	-	9	82,479	-	3
11	All	Overhead Line	Wood poles	No -	-		58 74	-		15	26	3	1	2 8	-	5	34	10	70	8 -	-	1	1	- :	. 3	1	4	1	1	7 –	-	1	3,564		3
	All	Overhead Line	Other pole types	No -	-		14 1,95			10	51	29	26	3 58	60	28	24	19	5 -		1 6	2	-		-	-	1	2	1 5	9 -	-	16	2,415	-	3
13	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km -	0	32	92 12	7 109	84	6	0	1	1	1 3	2	6	4	0	0 3	14 1	.5 0	10	0	0	1	3	5	1	0 -	-	-		542		3
14	HV HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km -	-		- 1	- s 1	- 18	-	-	-		-	-	-	- 2	-		5	-	-	- 12	1 2	24	-	-	4	17 1	2 -	-	-	185	_	4
		Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	Km -	-		. 1	5 1	18	5	1	-	U	1	2	5	2	2	6	5	6 4	U	12	1 2	. 24	6	4	4	1/ 1	2 -	-		185		4 N/A
16	HV HV	Subtransmission Cable Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised) Subtransmission UG up to 66kV (Gas pressurised)	Km _	-			-	-	-	-	-		-	-	-	-	-		-	-	-	-		-	-	-		-	-	-	++	<u> </u>		N/A N/A
	HV	Subtransmission Cable	Subtransmission UG up to 66kV (PILC)	krr -	-			-	-	-	-	-		-	-	-	-	-				-	-		-	-	-			_	-	++			N/A
19	HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	km -	_					_	-	-		-	_	-	-	-		-			-	_			_			3 -			3		4
20	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Oil pressurised)	km -	-			-	-	-	-	-		-	-	-	-	-		-	-	-	-		-	-	-		-	-	-	-	-	-	N/A
	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 -	- 1		- 1	-	- 1	-	-	-		-	-	- 1	-	-		-	-	-	-		-	-	-		-	-	-				N/A
24	HV	Zone substation Buildings	Zone substations up to 66kV	No -	-	1	2	5 4	3	-	-	-		23	2	1	1	1	-	1	2 2	2	-	2 -	1	1	-	4	5	5 -	-	-	68	-	2
25	HV	Zone substation Buildings	Zone substations 110kV+	No -	-			-	-	-	-	-		-	-	-	-	-		-	-	-	-		-	-	-		-	-	-	-	-	-	N/A
26	HV	Zone substation switchgear	50/66/110kV CB (Indoor)	No -	-			-	-	-	-	-		-	-	-	-	-		-	-	-	-		-	-	-		-	-	-	-	-	-	N/A
27	HV	Zone substation switchgear	50/66/110kV CB (Outdoor)	No -	-		-	2 4	1	-	-	-		-	1	6	-	-		-	-	-	3		-	-	-	1 -	-	-	-	-	18	-	3
28	HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No -	-			2	-	-	-	-		1	-	-	2	1		-	5	-	-		-	-	-		-	-	-	-	11	-	3
29	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	Na –	-	-	24 5	5 42	24	-	-	-		4	2	8	11	11	12	5	8 8	3	9	17	10	2	5	4	1 -	-	-	-	274	-	3
30	HV	Zone substation switchgear	33kV RMU	No –	-			-	-	-	-	-		-	-	-	-	-		-	-	-	-		-	-	-		-	-	-	-	-	-	N/A
31	HV	Zone substation switchgear	22/33kV CB (Indoor)	No –	-			-	-	-	-	-		-	-	-	6	-		0	6 5	7	-	20	19	8	1	6 -	-	-	-	-	96		3
32	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No -	-	-	1	4 7	12	2	1	-		3	-	1	2	5	1 -	_	3 3	1	3	7	3	-	4	2	1 -	-	-		72		3
33	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No -	-	-	23 5	1 45	27	7	-	-	2	2 7	17	8	17	19	9 :	4 1	4 13	16	30	26 -	24	18	3	37	3 -	-	-	-	432		3
34		Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No -	-			-	-	-	-	-		-	-	-	-	-		-	-	-	-		-	-	-		-	-	-	-	-	-	N/A
35	HV	Zone Substation Transformer	Zone Substation Transformers	No –	-	-	2	5 8	7	1	1	1		-	5	4	4	2	4	2	3 8	5	9	3 -	1	2	2	7	1 -	-	-		87	-	3
36	HV	Distribution Line	Distribution OH Open Wire Conductor	km 0	0 0	78 7	13 1,39	1 929	399	5	19	16	16 2	3 25	42	42	38	47	63 3	17 5	3 72	52	54	64 7	58	60	80	93	47 1	1 -	-		4,601	-	3
37	HV	Distribution Line	Distribution OH Aerial Cable Conductor	km -	-			-	-	-	-	-		-	-	-	-	-		-	-	-	-		-	-	-		-	-	-			-	N/A
38	HV	Distribution Line	SWER conductor	km -	0	0	14 2	5 2	7	-	- 22	- 17	5 -	-	-	0	1	0	0 -	-	0	7	0	0	0	0	0	-	3	4 -	-	+	68		
39	HV	Distribution Cable	Distribution UG XLPE or PVC	km _	-	1	4 8	6 269 5 49		36	32	17	23 3	3 38	42	39	37	36	29	9 2	6 25	22	28	28 3	34	54	40	33	47 4	3 -	-	+ 1	1,377		3
40	HV HV	Distribution Cable	Distribution UG PILC	km -	-	0	3 Z	5 49	13	2	- 2	0	-		-	0	-	0		-	-	-	-		-	-	-		-	-	-	+	95		
41	HV	Distribution Cable Distribution switchgear	Distribution Submarine Cable 3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers	Km -	-			2		-	-	-		-	-	-	-	1		4 1	.0 18	- 19	32	54 4	31	- 18	25	19	- 0	-	-		354		
42	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No -	-	1 -	0 4	2 21	20	1	1	2	- 1	, <u>1</u>	1	2	1	9	• •	4 1	1	19	32	2 4	51	10	25	19	10 12 1	2 -	-		157		
43	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Induct) 3.3/6.6/11/22kV Switches and fuses (pole mounted)	No -	_	27 6	26 1 33		~~~	120	176	190	177 25	328	310	343	314	337	375 29	1 -	0 379	464	480	634 75	674	681	617	717 5	23 22	2 -		3	15,764		3
45	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No -			14 11	2,007	2,033	6	9	7	10 2		48	343	28	25		0 1	7 14		2	2 73	7	4	2	5	4 22	9 -		<u>+</u>	705		3
46	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	Ng -		-	10 10			18	13	12	18 4	1 50	61	73	61	74		18 5	0 47		76	89 10	113	138	125	90 1	12 6	8 -	-	1	1.864		3
47	HV	Distribution Transformer	Pole Mounted Transformer	No -	- 1	1 1	.99 55	4 1,012	1,920	145	169	153	172 22	2 220	224	230	273	242	287 18	57 15	8 226	229	237	268 20	261	286	195	292 2	70 13	8 -	-	5	8,975	-	4
48	HV	Distribution Transformer	Ground Mounted Transformer	Na -	-	2	97 33	6 728	910	113	125	63	97 15	156	188	216	167	150	131 1	0 12	3 86	104	141	155 18	188	207	154	144 1	74 12	1 -	-	3	5,529	-	4
49	HV	Distribution Transformer	Voltage regulators	No -	-			1	-	1	-	-		-	1	2	5	-	2 -		1 3	3	1	6	2	16	5	4 -		3 –	-	-	60	-	4
50	HV	Distribution Substations	Ground Mounted Substation Housing	No -	-	2	69 49	8 561	232	11	14	3	10 2	5 14	18	24	33	43	34 3	15 3	5 31	25	47	40 6	95	100	107	91 1	09 7	1 -	-	7	2,443	-	3
51	LV	LV Line	LV OH Conductor	km –	-	59 4	41 79	3 399	172	1	4	4	5	4 3	4	6	7	5	4	3	2 3	3	2	1	2	5	9	12	12	3 –	-	2	1,975	-	2
52	LV	LV Cable	LV UG Cable	km 0	) -	0	60 44	3 403	381	31	34	18	26 6	1 62	64	69	65	50	26	8 2	3 17	22	24	38 5	53	63	43	35	30 1	9 –	-	4	2,240	-	2
53	LV	LV Street lighting	LV OH/UG Streetlight circuit	km 1	L –	12 1	.11 44	4 303	286	27	27	14		3 46	46	39	32	32		5 1		9	11	21 2		20	18	14	-	4 –	-	3	1,706	-	2
54	LV	Connections	OH/UG consumer service connections	No –				-	-	6,911	2,638	2,758 3,	018 3,24	3 2,993	3,241	2,967		1,711	1,575 1,52	-/	9 1,721	-/		,241 3,48			2,685	3,156 2,9	-	7 –	-	106,015	170,799	-	2
55	All	Protection	Protection relays (electromechanical, solid state and numeric)	No –		-	20 15	5 128	54	-	1	-	4 –	20	22	23	27	35	3 :	9 2	8 34	71	90	131 6	87	48	109	103	31 2	8 -	-	54	1,392	-	3
56	All	SCADA and communications	SCADA and communications equipment operating as a single system	Lot -				-	-	-	-	-		-	-	-	-	-		-	-	-	-		-	-	-		-	-	-	1	1	-	2
57	All	Capacitor Banks	Capacitors including controls	No -	-			1	25	1	-	-		-	-	1	-	1	1 -	_	3 1	1	3	- :	. 2	3	1	-	1 -	-	-	-	46		4
58	All	Load Control	Centralised plant	Lot -	-			-	-	-	-	-		-	-	-	-	3	1	1	1 1	1	-		1	-	1	1 -	-	-	-	-	11		3
59	All	Load Control	Relays	No -	-	9	14 48	6 152	188	57	27	13	16 5	2 47	60	65	32	66	77 5	7 3	1 179	59	42	48 6	87	117	90	49	40 2	2 –	-	73	2,316		2
60	All	Civils	Cable Tunnels	km –			- 1 -	-	-	-	-	-	-   -	-	-	-	-	-		-	-	-	-	-   -	-	-	-		-	-	-		-	-	N/A

Company Name	Powerco Limited
For Year Ended	31 March 2023
Network / Sub-network Name	Powerco Limited

## SCHEDULE 9c: REPORT ON OVERHEAD LINES AND UNDERGROUND CABLES

sch ref

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

	9				Total circuit length
1	10	Circuit length by operating voltage (at year end)	Overhead (km)	Underground (km)	(km)
1	11	>66kV	9	3	13
1	12	50kV & 66kV	163	6	169
1	13	33kV	1,328	299	1,628
1	14	SWER (all SWER voltages)	85	-	85
1	15	22kV (other than SWER)	121	1	122
1	16	6.6kV to 11kV (inclusive—other than SWER)	14,521	2,291	16,812
1	17	Low voltage (< 1kV)	5,473	4,785	10,258
1	18	Total circuit length (for supply)	21,701	7,386	29,087
Ĺ	19			-	
ź	20	Dedicated street lighting circuit length (km)	1,067	2,027	3,093
	21	Circuit in sensitive areas (conservation areas, iwi territory etc) (km)			-
ź	22				
	23	Overhead circuit length by terrain (at year end)	Circuit length (km)	(% of total overhead length)	
	23	Urban	2,649	12%	
	25	Rural	7,277	34%	
	26	Remote only	-	-	
	27	Rugged only	11,448	53%	
	28	Remote and rugged	327	2%	
	20 29	Unallocated overhead lines	-		
	30	Total overhead length	21,701	100%	
	31			100/0	
				(% of total circuit	
3	32		Circuit length (km)	(% of total circuit length)	
	32 33	Length of circuit within 10km of coastline or geothermal areas (where known)	Circuit length (km)	•	
		Length of circuit within 10km of coastline or geothermal areas (where known)		length)	
		Length of circuit within 10km of coastline or geothermal areas (where known)		length) 40% (% of total	
(1) (1)	33	Length of circuit within 10km of coastline or geothermal areas (where known) Overhead circuit requiring vegetation management	11,727	length) 40% (% of total	

Company Name	Powerco Limited
For Year Ended	31 March 2023
Network / Sub-network Name	Western Region

# SCHEDULE 9c: REPORT ON OVERHEAD LINES AND UNDERGROUND CABLES

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

scl	h re	ſ			
	9				
1	0	Circuit length by operating voltage (at year end)	Overhead (km)	Underground (km)	Total circuit length (km)
1		>66kV	_	-	
1	2	50kV & 66kV	_	_	-
1	3	33kV	950	120	1,070
1	4	SWER (all SWER voltages)	17	-	17
1	5	22kV (other than SWER)	121	1	122
1	6	6.6kV to 11kV (inclusive—other than SWER)	9,919	808	10,728
1	7	Low voltage (< 1kV)	3,498	2,545	6,043
1	8	Total circuit length (for supply)	14,506	3,475	17,980
1	9				
2	0	Dedicated street lighting circuit length (km)	745	642	1,387
2		Circuit in sensitive areas (conservation areas, iwi territory etc) (km)			-
2	2			(% of total	
2	3	Overhead circuit length by terrain (at year end)	Circuit length (km)	•	
2		Urban	1,693	12%	
2		Rural	4,085	28%	
2		Remote only	-	-	
2	7	Rugged only	8,400	58%	
2	8	Remote and rugged	327	2%	
2	9	Unallocated overhead lines	-	-	
3	0	Total overhead length	14,506	100%	
3	1				
				(% of total circuit	
3			Circuit length (km)	length)	
3	3	Length of circuit within 10km of coastline or geothermal areas (where known)	5,505	31%	
				(% of total	
3			Circuit length (km)		
3	5	Overhead circuit requiring vegetation management	14,506	100%	

Company Name	Powerco Limited
For Year Ended	31 March 2023
Network / Sub-network Name	Eastern Region

# SCHEDULE 9c: REPORT ON OVERHEAD LINES AND UNDERGROUND CABLES

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

scł	h re	f			
	9				Total circuit length
1	0	Circuit length by operating voltage (at year end)	Overhead (km)	Underground (km)	(km)
1	1	>66kV	9	3	13
1	2	50kV & 66kV	163	6	169
1	3	33kV	378	179	558
1	4	SWER (all SWER voltages)	68	-	68
1	5	22kV (other than SWER)	-	-	-
1	6	6.6kV to 11kV (inclusive—other than SWER)	4,601	1,483	6,085
1	7	Low voltage (< 1kV)	1,975	2,240	4,215
1	8	Total circuit length (for supply)	7,196	3,911	11,107
1	9			-	
2	о	Dedicated street lighting circuit length (km)	322	1,384	1,706
2	1	Circuit in sensitive areas (conservation areas, iwi territory etc) (km)			-
2.	2				
			<b>6</b> <sup>1</sup> <b>1 1 1 1 1 1 1 1 1 1</b>	(% of total	
2.		Overhead circuit length by terrain (at year end)	Circuit length (km)		1
2		Urban	956	13%	-
2.		Rural	3,192	44%	-
2		Remote only	-	-	-
2		Rugged only	3,048	42%	
2		Remote and rugged	-	-	
2.		Unallocated overhead lines	-	-	
3		Total overhead length	7,196	100%	J
3.	1			(% of total circuit	
3.	2		Circuit length (km)	•	
3		Length of circuit within 10km of coastline or geothermal areas (where known)	6,222	56%	
			0,222	•	1
3.	1		Circuit length (km)	(% of total overhead length)	
3.		Overhead circuit requiring vegetation management	7,196	100%	1
3.	2	Overnead circuit requiring vegetation management	7,196	100%	1

Company NamePowerco LimitedFor Year Ended31 March 2023

# SCHEDULE 9d: REPORT ON EMBEDDED NETWORKS

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

sch i	ref			
			Number of ICPs	Line charge revenue
8	Location *		served	(\$000)
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
	* Extend embedded distribution networks table as necessary to disclose each embedded network owned by the El	DB which is embedded	d in another EDB's netv	vork or in another
26	embedded network			

	Company Name	Powerco Limited
	For Year Ended	31 March 2023
	Network / Sub-network Name	Powerco Limited
sc	CHEDULE 9e: REPORT ON NETWORK DEMAND	
This	s schedule requires a summary of the key measures of network utilisation for the disclosure year (number of new	connections including distributed
gen	eration, peak demand and electricity volumes conveyed).	
sch re	•	
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	4,666
12	Commercial	71
13	Large Commercial/Industrial	23
14 15		
16	* include additional rows if needed	
17	Connections total	4,760
18	Number of ICDs decommissioned in user by second trace	
19	Number of ICPs decommissioned in year by consumer type	Number of
20	Consumer types defined by EDB*	decommissionings
21	Small	1,123
22	Medium	15
23 24	Large	8
24		
26	* include additional rows if needed	
27	Decommissionings total	1,146
28 29	Distributed generation	
30	Number of connections made in year	1,650 connections
31	Capacity of distributed generation installed in year	1,123 <b>MVA</b>
32		
33	9e(ii): System Demand	
34		Demand at time
25		of maximum
35 36	Maximum coincident system demand	coincident demand (MW)
37	GXP demand	860
38	plus Distributed generation output at HV and above	114
39	Maximum coincident system demand	974
40	less Net transfers to (from) other EDBs at HV and above	-
41	Demand on system for supply to consumers' connection points	974
42	Electricity volumes carried	Energy (GWh)
43	Electricity supplied from GXPs	4,616
44 45	less Electricity exports to GXPs plus Electricity supplied from distributed generation	125
46	less Net electricity supplied to (from) other EDBs	
47	Electricity entering system for supply to consumers' connection points	5,225
48	less Total energy delivered to ICPs	4,960
49 50	Electricity losses (loss ratio)	265 5.1%
51	Load factor	0.61
52	9e(iii): Transformer Capacity	(20)(2)
53	Distribution transformer conscitu (EDP owned)	(MVA)
54 55	Distribution transformer capacity (EDB owned) Distribution transformer capacity (Non-EDB owned, estimated)	3,546
56	Total distribution transformer capacity	3,716
57		
58	Zone substation transformer capacity	2,418
59		

	Company Name	Powerco Limited
	For Year Ended	31 March 2023
	Network / Sub-network Name	Western Region
S	CHEDULE 9e: REPORT ON NETWORK DEMAND	
	is schedule requires a summary of the key measures of network utilisation for the disclosure year (number of new	connections including distributed
	neration, peak demand and electricity volumes conveyed).	, and the second s
sch re	Í.	
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	2,027
12	Commercial	11
13	Large Commercial/Industrial	7
14		
15 16	* include additional rows if needed	
17	Connections total	2,045
18		
19	Number of ICPs decommissioned in year by consumer type	
20	Consumer types defined by EDB*	Number of decommissionings
21	Small	524
22	Medium	2
23	Large	2
24		
25		
26 27	* include additional rows if needed Decommissionings total	528
28		
29		
30	Distributed generation	
31 32	Number of connections made in year Capacity of distributed generation installed in year	814 connections 6 MVA
52		
33	9e(ii): System Demand	
34 35		Demand at time
		of maximum
26	Maximum asia side at a state of demand	coincident
36	Maximum coincident system demand GXP demand	demand (MW)
37 38	plus Distributed generation output at HV and above	388 74
39	Maximum coincident system demand	462
40	less Net transfers to (from) other EDBs at HV and above	-
41	Demand on system for supply to consumers' connection points	462
42	Electricity volumes carried	Energy (GWh)
43	Electricity supplied from GXPs	2,098
44	less Electricity exports to GXPs	7
45	plus Electricity supplied from distributed generation	318
46	less Net electricity supplied to (from) other EDBs	-
47 48	Electricity entering system for supply to consumers' connection points <i>less</i> Total energy delivered to ICPs	2,409 2,249
40	Electricity losses (loss ratio)	160 6.7%
50		100 0.775
51	Load factor	0.60
52	9e(iii): Transformer Capacity	
53		(MVA)
54	Distribution transformer capacity (EDB owned)	1,752
55	Distribution transformer capacity (Non-EDB owned, estimated)	116
56	Total distribution transformer capacity	1,869
57		4.407
58	Zone substation transformer capacity	1,197

	Company Name	Powerco Limited
	For Year Ended	31 March 2023
	Network / Sub-network Name	Eastern Region
S	CHEDULE 9e: REPORT ON NETWORK DEMAND	
-	is schedule requires a summary of the key measures of network utilisation for the disclosure year (number of new	connections including distributed
gei	neration, peak demand and electricity volumes conveyed).	
sch re	Í.	
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	2,639
12	Commercial	60
13	Large Commercial/Industrial	16
14		
15 16	* include additional rows if needed	
17	Connections total	2,715
18		
19	Number of ICPs decommissioned in year by consumer type	Number of
20	Consumer types defined by EDB*	Number of decommissionings
21	Small	599
22	Medium	13
23	Large	6
24		
25		
26 27	* include additional rows if needed Decommissionings total	618
21		010
19	Distributed generation	
20	Number of connections made in year	836 connections
21	Capacity of distributed generation installed in year	6 <b>MVA</b>
22	9e(ii): System Demand	
23		
24		Demand at time of maximum
		coincident
25	Maximum coincident system demand	demand (MW)
26	GXP demand	446
27	plus Distributed generation output at HV and above	72
28	Maximum coincident system demand	518
29 30	less Net transfers to (from) other EDBs at HV and above Demand on system for supply to consumers' connection points	518
		Energy (GWh)
31 32	Electricity volumes carried Electricity supplied from GXPs	2,518
32	less Electricity exports to GXPs	118
34	plus Electricity supplied from distributed generation	416
35	<i>less</i> Net electricity supplied to (from) other EDBs	
36	Electricity entering system for supply to consumers' connection points	2,816
37	less Total energy delivered to ICPs	2,712
38	Electricity losses (loss ratio)	104 3.7%
39 40	Load factor	0.62
		0.02
41	9e(iii): Transformer Capacity	(50)(6)
42		(MVA)
43 44	Distribution transformer capacity (EDB owned) Distribution transformer capacity (Non-EDB owned, estimated)	<u> </u>
44	Total distribution transformer capacity	1,847
46		
47	Zone substation transformer capacity	1,221

Company Name	Powerco Limited
For Year Ended	31 March 2023
Network / Sub-network Name	Powerco Limited
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This schedule requires a summary of the key measures of network reliability (interruptions, SAIDI, SAIFI and fault rate) for the disclosure year. EDBs must provide explanatory comment on their network reliability for the disclosure year in Schedule 14 (Explanatory notes to templates). The SAIFI and SAIDI information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

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8	10(i): Interruptions		
		Number of	
9	Interruptions by class	interruptions	
10	Class A (planned interruptions by Transpower)	7	
11	Class B (planned interruptions on the network)	1,997	
12	Class C (unplanned interruptions on the network)	3,916	
13	Class D (unplanned interruptions by Transpower)	9	
14	Class E (unplanned interruptions of EDB owned generation)	-	
15	Class F (unplanned interruptions of generation owned by others)	2	
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)	727	
19	Total	6,658	
20			
21	Interruption restoration	≤3Hrs	>3hrs
22	Class C interruptions restored within	1,940	1,976
23			
24	SAIFI and SAIDI by class	SAIFI	SAIDI
25	Class A (planned interruptions by Transpower)	0.11	17.39
26	Class B (planned interruptions on the network)	0.40	94.40
27	Class C (unplanned interruptions on the network)	2.47	395.73
28	Class D (unplanned interruptions by Transpower)	0.43	27.97
29	Class E (unplanned interruptions of EDB owned generation)	-	-
30	Class F (unplanned interruptions of generation owned by others)	0.00	0.06
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)	0.10	28.59
34	Total	3.51	564.1
35		Normalized CALEL AL	
36	Normalised SAIFI and SAIDI		ormalised SAIDI
37	Classes B & C (interruptions on the network)	2.84	314.68
20			
38			
39	Transitional SAIDI and SAIDI (previous method)	SAIFI	SAIDI
39	Where EDBs do not currently record their SAIFI and SAIDI values using the 'multi-co		
	and SAIDI values on the same basis that they employed as at 31 March 2023 as 'Tr	ansitional SAIFI' and 'Transiti	onal SAIDI' values,
	addition to their SAIFI and SAIDI values (Classes B & C) using the 'multi-count appro	oach'. This is a transitional re	eporting requireme
40	shall be in place for the 2024, 2025, and 2026 disclosure years.		
41	Class B (planned interruptions on the network)		
42	Class C (unplanned interruptions on the network)		

Company Name	Powerco Limited
For Year Ended	31 March 2023
Network / Sub-network Name	Powerco Limited

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

44	10(ii): Class C Interruptions and Duration by Cause		
45			
46	Cause	SAIFI	SAIDI
47	Lightning	0.09	10.37
48	Vegetation	0.53	170.77
49	Adverse weather	0.08	24.20
50	Adverse environment	0.00	1.44
51	Third party interference	0.23	28.53
52	Wildlife	0.21	11.81
53	Human error	0.07	1.26
54	Defective equipment	0.93	115.09
55	Cause unknown	0.33	32.27
56			
57	Breakdown of third party interference	SAIFI	SAIDI
58	Dig-in	0.01	0.7
59	Overhead contact	0.01	0.6
60	Vandalism	0.00	0.0
61	Vehicle damage	0.20	26.1

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

Main equipment involved	SAIFI	SAIDI
Subtransmission lines	0.01	3.65
Subtransmission cables	-	_
Subtransmission other	-	-
Distribution lines (excluding LV)	0.38	90.27
Distribution cables (excluding LV)	0.00	0.46
Distribution other (excluding LV)	0.00	0.02

0.01

1.2

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

Main equipment involved	SAIFI	SAIDI
Subtransmission lines	0.65	83.20
Subtransmission cables	0.00	0.42
Subtransmission other	0.03	1.10
Distribution lines (excluding LV)	1.57	294.33
Distribution cables (excluding LV)	0.09	7.59
Distribution other (excluding LV)	0.11	9.09

#### 10(v): Fault Rate

Other

62

63

82

				Fault
83	Main equipment involved	Number of Faults	Circuit length (km)	per
84	Subtransmission lines	194	1,501	
85	Subtransmission cables	1	308	
86	Subtransmission other	8		
87	Distribution lines (excluding LV)	4,885	14,727	
88	Distribution cables (excluding LV)	125	2,292	
89	Distribution other (excluding LV)	228		
90	Total	5,441		

12.92 0.32

33.17 5.45

Company Name	Powerco Limited
For Year Ended	31 March 2023
Network / Sub-network Name	Western Region
-	

10(i). Interruptions

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

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8	

	10(i): Interruptions		
		Number of	
9	Interruptions by class	interruptions	1
10	Class A (planned interruptions by Transpower)	3	-
11	Class B (planned interruptions on the network)	1,316	-
12	Class C (unplanned interruptions on the network)	2,632	-
13	Class D (unplanned interruptions by Transpower)	6	
14	Class E (unplanned interruptions of EDB owned generation)		
15	Class F (unplanned interruptions of generation owned by others)	2	
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)	409	
19	Total	4,368	
20			
21	Interruption restoration	≤3Hrs	>3hrs
22	Class C interruptions restored within	1,345	1,287
23			
24	SAIFI and SAIDI by class	SAIFI	SAIDI
25	Class A (planned interruptions by Transpower)	0.03	11.06
26	Class B (planned interruptions on the network)	0.44	105.74
27	Class C (unplanned interruptions on the network)	2.69	298.31
28	Class D (unplanned interruptions by Transpower)	0.35	25.32
29	Class E (unplanned interruptions of EDB owned generation)	_	_
30	Class F (unplanned interruptions of generation owned by others)	0.00	0.11
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	27.86
34	Total	3.62	468.4
35			
36	Normalised SAIFI and SAIDI	Normalised SAIFI	Normalised SAIDI
37	Classes B & C (interruptions on the network)	3.04	336.56
38			
39	Transitional SAIDI and SAIDI (previous method)	SAIFI	SAIDI
39	Where EDBs do not currently record their SAIFI and SAIDI values using the 'multi-count'		
	and SAIDI values on the same basis that they employed as at 31 March 2023 as 'Transi		
	addition to their SAIFI and SAIDI values (Classes B & C) using the 'multi-count approach		
40	shall be in place for the 2024, 2025, and 2026 disclosure years.		
41	Class B (planned interruptions on the network)		
42	Class C (unplanned interruptions on the network)		

Company Name	Powerco Limited
For Year Ended	31 March 2023
Network / Sub-network Name	Western Region

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

44 45	10(ii): Class C Interruptions and Duration by Cause		
43			
46	Cause	SAIFI	SAIDI
47	Lightning	0.12	14.36
48	Vegetation	0.36	70.83
49	Adverse weather	0.11	30.76
50	Adverse environment	0.01	1.48
51	Third party interference	0.29	24.64
52	Wildlife	0.31	16.75
53	Human error	0.08	1.94
54	Defective equipment	1.08	111.07
55	Cause unknown	0.33	26.47
56			
57	Breakdown of third party interference	SAIFI	SAIDI
58	Dig-in	0.01	0.58
59	Overhead contact	0.00	0.25
60	Vandalism	0.00	0.00

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

Main equipment involved	SAIFI	SAIDI
Subtransmission lines	0.00	0.38
Subtransmission cables	-	-
Subtransmission other	-	-
Distribution lines (excluding LV)	0.44	104.49
Distribution cables (excluding LV)	0.00	0.83
Distribution other (excluding LV)	0.00	0.04

0.26

0.02

22.17

1.63

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

Main equipment involved	SAIFI	SAIDI
Subtransmission lines	0.72	27.29
Subtransmission cables	0.01	0.81
Subtransmission other	0.02	1.70
Distribution lines (excluding LV)	1.74	253.29
Distribution cables (excluding LV)	0.06	6.56
Distribution other (excluding LV)	0.14	8.66

#### 10(v): Fault Rate

Vehicle damage

Other

61

62

63

82

				Fault r
83	Main equipment involved	Number of Faults	Circuit length (km)	per
84	Subtransmission lines	153	950	
85	Subtransmission cables	1	120	
86	Subtransmission other	4		
87	Distribution lines (excluding LV)	3,311	10,058	
88	Distribution cables (excluding LV)	41	809	
89	Distribution other (excluding LV)	141		
90	Total	3,651		

Fault rate (faults per 100km)

> 16.10 0.83

32.92 5.07

Company Name	Powerco Limited
For Year Ended	31 March 2023
Network / Sub-network Name	Eastern Region

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

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Number of interruptions by Class A (planned interruptions by Transpower)         d Class A (planned interruptions on the network)           12         Class B (planned interruptions on the network)         1224           13         Class D (unplanned interruptions on the network)         1244           14         Class E (unplanned interruptions on the network)         1244           15         Class E (unplanned interruptions on the network)         1244           16         Class F (unplanned interruptions caused by another disclosing entity)            16         Class I (planned interruptions caused by another disclosing entity)            17         Class I (planned interruptions caused by another disclosing entity)            18         Class I (planned interruptions caused by another disclosing entity)            18         Class I (planned interruptions caused by another disclosing entity)            19         Total         536         689           20         Class I (planned interruptions caused by another disclosing entity)             21         Class A (planned interruptions on the network)         0.035         68197           22         Class A (planned interruptions on the network)         0.353         38087           22         Class A (p	8	10(i): Interruptions		
10       Class A (planned interruptions by Transpower)       4         11       Class B (planned interruptions on the network)       524         12       Class D (unplanned interruptions of DB owned generation)       -         13       Class I (unplanned interruptions of generation owned by others)       -         14       Class G (unplanned interruptions caused by another disclosing entity)       -         15       Class G (unplanned interruptions caused by another disclosing entity)       -         16       Class G (unplanned interruptions caused by another disclosing entity)       -         17       Class H (planned interruptions caused by another disclosing entity)       -         18       Class C (interruption searced by another disclosing entity)       -         19       Total       595       689         20       Interruption restoration       5145       5147         21       Class C (interruptions on the network)       2.220       623         22       Class D (unplanned interruptions on the network)       2.22       502.47         23       Class D (unplanned interruptions on the network)       2.22       502.47         24       Class D (unplanned interruptions on the network)       2.22       502.47         25       Class D (unplanned interruptions on the network)<				
11     Class B (planned interruptions on the network)     681       12     Class C (unplanned interruptions by transpower)     3       14     Class C (unplanned interruptions of EDB owned generation)        15     Class C (unplanned interruptions of generation owned by others)        16     Class C (unplanned interruptions caused by another disclosing entity)        17     Class I (Interruptions caused by another disclosing entity)        18     Class I (Interruptions caused by another disclosing entity)        19     Total     2,2200       20     Interruption restoration     SHrs     >Ahrs       21     Class C (interruptions restored within         22     Class A (planned interruptions by Transpower)     0.33     8197       23     Class A (planned interruptions of the network)     0.33     8197       24     Class A (planned interruptions by Transpower)     0.35     8197       25     Class A (planned interruptions of the network)     0.20     2432       26     Class C (unplanned interruptions of EDB owned generation)         27     Class C (unplanned interruptions of EDB owned generation)         28     Class C (unplanned interruptions of EDB owned generation)				1
12       Class C (unplanned interruptions on the network)       1,284         13       Class D (unplanned interruptions of CDB owned generation)       -         14       Class E (unplanned interruptions of generation owned by others)       -         15       Class G (unplanned interruptions caused by another disclosing entity)       -         16       Class G (unplanned interruptions caused by another disclosing entity)       -         17       Class I (planned interruptions caused by another disclosing entity)       -         18       Class I (interruptions caused by parties not included above)       3,116         19       Total       2,220         21       Interruptions restored within       595       689         22       Class I (planned interruptions by Transpower)       0,20       2,432         23       Class A (planned interruptions on the network)       0,335       81.97         24       Class B (planned interruptions by Transpower)       0,535       30.87         25       Class B (planned interruptions of BDB owned generation)       -       -         26       Class B (unplanned interruptions of generation owned by others)       -       -         27       Class E (unplanned interruptions caused by another disclosing entity)       -       -         28 <td< td=""><td></td><td></td><td></td><td></td></td<>				
13       Class D (unplanned interruptions of Transpower)       3         14       Class E (unplanned interruptions of generation owned by others)       -         15       Class G (unplanned interruptions of generation owned by others)       -         16       Class I (planned interruptions caused by another disclosing entity)       -         17       Class II (interruptions caused by another disclosing entity)       -         18       Class II (interruptions caused by another disclosing entity)       -         19       Total       2,220         10       Class II (interruptions restored within       595       689         11       Class A (planned interruptions on the network)       0.03       5819         12       Class A (planned interruptions on the network)       0.03       8197         12       Class I (inplanned interruptions on the network)       0.23       8197         12       Class I (inplanned interruptions on the network)       0.23       8197         12       Class I (unplanned interruptions of EDB owned generation)       -       -         12       Class I (unplanned interruptions of EDB owned generation)       -       -         12       Class I (interruptions caused by another disclosing entity)       -       -         12       Class I (inter				
14       Class E (unplanned interruptions of EDB owned generation)       —         15       Class F (unplanned interruptions caused by another disclosing entity)       —         16       Class I (interruptions caused by another disclosing entity)       —         17       Class I (interruptions caused by another disclosing entity)       —         18       Class I (interruptions caused by another disclosing entity)       —         19       Total       2,290         20       Lass I (interruptions restored within       595       689         21       Interruption restoration       SAIF       SAIF       SAID         22       Class A (planned interruptions by Transpower)       0.20       24.33         23       Class B (planned interruptions on the network)       0.22       502.47         24       Class B (planned interruptions of DB owned generation)       —       —         25       Class C (unplanned interruptions of DB owned generation)       —       —         26       Class C (unplanned interruptions caused by another disclosing entity)       —       —         26       Class C (unplanned interruptions caused by another disclosing entity)       —       —       —         27       Class C (unplanned interruptions caused by another disclosing entity)       —       — <td></td> <td></td> <td>´</td> <td></td>			´	
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)       318         19       Total       2,290         20       2,290       2,290         21       Interruption restoration       SHFs       >3hrs         22       Class C Interruptions restored within       595       689         23       Class A (planned interruptions on the network)       0.20       24.32         24       Class A (planned interruptions on the network)       0.33       81.97         25       Class A (planned interruptions on the network)       0.33       30.87         26       Class C (unplanned interruptions on the network)       0.33       30.87         27       Class C (unplanned interruptions of generation)       —       —         28       Class F (unplanned interruptions of generation owned by others)       —       —         29       Class F (unplanned interruptions of generation owned by others)       —       —         29       Class F (unplanned interruptions caused by another discl			3	
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)       318         21       Interruption restoration       2,290         22       Class C interruptions restored within       595       689         23       Class C interruptions restored within       595       689         24       SAIFI and SAIDI by class       SAIFI       SAIDI         25       Class A (planned interruptions on the network)       0.20       24.32         26       Class A (planned interruptions on the network)       0.35       8.197         27       Class C (unplanned interruptions on the network)       0.35       30.82         28       Class D (unplanned interruptions on the network)       0.53       30.82         29       Class E (unplanned interruptions of EDB owned generation)           21       Class G (unplanned interruptions caused by another disclosing entity)           21       Class G (unplanned interruptions caused by another disclosing entity)           22       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)       318         19       Total       2,290         20       Interruption restoration       S3Hrs       >3hrs         21       Class C Interruptions restored within       595       669         22       Class A (planned interruptions by Transpower)       0.20       24.432         23       Class A (planned interruptions on the network)       0.20       24.432         24       Class A (planned interruptions on the network)       0.22       502.472         25       Class B (planned interruptions on the network)       2.22       502.472         26       Class D (unplanned interruptions of EDB owneer)       0.53       30.87         27       Class E (unplanned interruptions of EDB owneer)       0.53       30.87         28       Class F (uplanned interruptions caused by another disclosing entity)       -       -         29       Class H (planned interruptions caused by another disclosing entity)       -       -         39       Total       Normalised SAIFI and SAIDI       Normalised SAIFI Normalised SAIDI         39       Class I (interruptions caused by another disclosing entity)       -       -         319       Class I (interruptions on the network)       2.54       305.45				
19       Total       2,290         20       Interruption restoration       \$3Hrs       >3hrs         21       Interruption restored within       595       689         22       Class C Interruptions restored within       0.20       24.32         23       Class A (planned interruptions by Transpower)       0.20       24.32         24       Class A (planned interruptions on the network)       0.33       18197         25       Class C (unplanned interruptions on the network)       0.53       30.87         26       Class D (unplanned interruptions of EDB owned generation)       -       -         27       Class E (unplanned interruptions of generation owned by others)       -       -         28       Class F (unplanned interruptions caused by another disclosing entity)       -       -         29       Class I (planned interruptions caused by another disclosing entity)       -       -         29       Class I (planned interruptions caused by another disclosing entity)       -       -         31       Class I (interruptions caused by another disclosing entity)       -       -         32       Class I (interruptions on the network)       2.54       30.545         33       Class I (interruptions on the network)       2.54       30.545     <			-	
20       Interruption restoration       S3Hrs       >3hrs         21       Class C interruptions restored within       595       689         22       Class C interruptions restored within       595       689         23       Class C (interruptions restored within       501       501         24       SAIFI and SAIDI by class       SAIFI       SAIDI         25       Class A (planned interruptions on the network)       0.20       24.32         26       Class B (planned interruptions on the network)       0.22       502.47         27       Class C (unplanned interruptions of EDB owned generation)       -       -         29       Class F (unplanned interruptions of EDB owned generation)       -       -       -         31       Class G (unplanned interruptions caused by another disclosing entity)       -       -       -         32       Class I (interruptions caused by another disclosing entity)       -       -       -         32       Class I (interruptions on the network)       2.54       305.45         34       Total       30.40       669.0         35       Classe I & C (interruptions on the network)       2.54       305.45         36       Normalised SAIFI and SAIDI (previous method)       SAIFI	-			
21       Interruption restoration       SHrs       >3hrs         22       Class C interruptions restored within       595       689         23       Class C interruptions restored within       595       689         24       SAIFI and SAIDI by class       SAIF       SAIDI         25       Class A (planned interruptions on the network)       0.20       24.32         26       Class B (planned interruptions on the network)       0.23       5.81.97         27       Class C (unplanned interruptions on the network)       0.22       5.02.47         28       Class C (unplanned interruptions on the network)       0.23       3.08.7         29       Class C (unplanned interruptions of EDB owned generation)       -       -         30       Class F (unplanned interruptions caused by another disclosing entity)       -       -         31       Class F (unplanned interruptions caused by another disclosing entity)       -       -         32       Class I (Interruptions caused by another disclosing entity)       -       -         33       Class I (Interruptions on the network)       2.54       305.45         34       Total       2.54       305.45         35       Classes B & C (Interruptions on the network)       2.54       305.45		Total	2,290	]
23       SAIFI and SAIDI by class       SAIFI       SAIDI         24       SAIFI and SAIDI by class       SAIFI       SAIDI         25       Class A (planned interruptions on the network)       0.35       81.97         26       Class B (planned interruptions on the network)       0.35       81.97         27       Class C (unplanned interruptions on the network)       2.22       502.47         28       Class D (unplanned interruptions of tDB owned generation)       -       -         29       Class E (unplanned interruptions of EDB owned generation)       -       -         30       Class E (unplanned interruptions caused by another disclosing entity)       -       -       -         31       Class I (interruptions caused by another disclosing entity)       -       -       -       -         32       Class I (interruptions caused by another disclosing entity)       -       -       -       -         33       Class I (interruptions caused by parties not included above)       0.10       29.40       3.40       669.00         34       Total       Total       2.54       305.45       3.81         38       Vibrer EDBs do not currently record their SAIFI and SAIDI values using the 'multi-count' approach, they shall continue to record their SAIFI SAIDI values on the same basis that t		Interruption restoration	≤3Hrs	>3hrs
And Provides and SAIDI by class     SAIF     SAIDI       25     Class A (planned interruptions by Transpower)     0.20     24.32       26     Class B (planned interruptions on the network)     0.35     8.1.97       27     Class C (unplanned interruptions on the network)     2.22     502.47       28     Class D (unplanned interruptions on the network)     2.22     502.47       29     Class C (unplanned interruptions by Transpower)     0.53     3.0.87       29     Class F (unplanned interruptions of generation owned by others)     -     -       30     Class G (unplanned interruptions caused by another disclosing entity)     -     -       31     Class G (unplanned interruptions caused by another disclosing entity)     -     -       32     Class I (planned interruptions caused by another disclosing entity)     -     -       33     Class I (interruptions caused by another disclosing entity)     -     -       34     Total     3.40     669.0       35     Classe B & C (interruptions on the network)     2.54     305.45       36     Normalised SAIFI and SAIDI (previous method)     SAIFI     SAIDI       37     Classes B & C (interruptions on the network)     2.54     305.45       38     Transitional SAIDI and SAIDI (previous method)     SAIFI     SAIDI	22	Class C interruptions restored within	595	689
25       Class A (planned interruptions by Transpower)       0.20       24.32         26       Class B (planned interruptions on the network)       0.33       81.97         27       Class C (unplanned interruptions on the network)       2.22       502.47         28       Class D (unplanned interruptions by Transpower)       0.53       30.87         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)       -       -       -         32       Class I (interruptions caused by another disclosing entity)       -       -       -         34       Total       3.40       669.0         35       Classes B & C (interruptions on the network)       2.54       305.45         38       Venerational SAIDI and SAIDI (previous method)       SAIF       SAID         39       Transitional SAIDI and SAIDI (previous method)       SAIF       SAID         340       DB3 on out currently record their SAIFI and SAIDI values using the 'multi-count' approach, they shall continue to record their SAIFI<			L	
26       Class B (planned interruptions on the network)       0.35       81.97         27       Class C (unplanned interruptions on the network)       2.22       502.47         28       Class D (unplanned interruptions of EDB owned generation)       -       -         30       Class F (unplanned interruptions of EDB owned generation)       -       -         31       Class F (unplanned interruptions caused by another disclosing entity)       -       -         32       Class H (planned interruptions caused by another disclosing entity)       -       -       -         32       Class I (interruptions caused by another disclosing entity)       -       -       -       -         33       Class I (interruptions caused by another disclosing entity)       -       -       -       -         34       Total       3.40       669.0       3.40       669.0         35       0       SAIFI       Normalised SAIFI       Normalised SAIDI         36       Normalised SAIDI and SAIDI (previous method)       2.54       305.45         37       Classes B & C (interruptions on the network)       2.54       305.45         38       Where EDBs do not currently record their SAIFI and SAIDI values using the 'multi-count' approach, they shall continue to record their SAIFI SAIDI values, an addition SAIDI values (Cl	24	SAIFI and SAIDI by class	SAIFI	SAIDI
27       Class C (unplanned interruptions on the network)       2.22       502.47         28       Class D (unplanned interruptions by Transpower)       0.53       30.87         29       Class E (unplanned interruptions of EDB owned generation)       -       -         30       Class F (unplanned interruptions caused by another disclosing entity)       -       -         31       Class G (unplanned interruptions caused by another disclosing entity)       -       -         32       Class I (interruptions caused by another disclosing entity)       -       -         33       Class I (interruptions caused by another disclosing entity)       -       -         34       Total       3.40       669.0         35       Classes B & C (interruptions on the network)       2.54       305.45         36       Normalised SAIF1 and SAID1 (previous method)       SAIF1       SAID1         37       Classes B & C (interruptions on the network)       2.54       305.45         38       Verter EDBs do not currently record their SAIF1 and SAID1 values using the 'multi-count' approach, they shall continue to record their SAIF1         301 values on the same basis that they employed as at 31 March 2023 as 'Transitional SAIP1 values, in addition SAIF1 and SAID1 values (Classes B & C) using the 'multi-count' approach'. This is a transitional reporting requirement that shall be in place 2024, 2025, and 2026	25	Class A (planned interruptions by Transpower)	0.20	24.32
28       Class D (unplanned interruptions by Transpower)       0.53       30.87         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 I (planned interruptions caused by another disclosing entity)       -       -         33       Class I (interruptions caused by another disclosing entity)       -       -         34       Total       3.40       669.0         35       Classes B & C (interruptions on the network)       2.54       305.45         38       Sale       Sale       Sale       Sale         39       Transitional SAIDI and SAIDI (previous method)       Sale       Sale       Sale         39       Transitional SAIDI and SAIDI (previous method)       Sale       Sale       salo         30       ubars on the same basis that they employed as at 31 March 2023 as 'Transitional SAIFI' and 'Transitional SAIDI' values, in addition SAIFI and SAIDI values (classes B & C) using the 'multi-count approach'. This is a transitional reporting requirement that shall be in place         31       Class B (planned interruptions on the network)       Class B (planned interruptions on the network)	26	Class B (planned interruptions on the network)	0.35	81.97
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)       0.10       29.40         34       Total       3.40       669.0         35       -       -       -         36       Normalised SAIFI and SAIDI       Normalised SAIFI       Normalised SAIFI         37       Classes B & C (interruptions on the network)       2.54       305.45         38       -       -       -       -         39       Transitional SAIDI and SAIDI (previous method)       SAIFI       SAIDI         34       Where EDBs do not currently record their SAIFI and SAID values using the 'multi-count' approach, they shall continue to record their SAIFI SAIDI values, in addition SAIPI values, on the same basis that they employed as at 31 March 2023 as 'Transitional SAIPI' values, in addition SAIPI values, and 2026 disclosure years.         40       2024, 2025, and 2026 disclosure years.       -         41       Class B (planned interruptions on the netwo	27	Class C (unplanned interruptions on the network)	2.22	502.47
30       Class F (unplanned interruptions of generation owned by others)       –       <	28	Class D (unplanned interruptions by Transpower)	0.53	30.87
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)       0.10       29.40         34       Total       3.40       669.0         35       36       Normalised SAIFI and SAIDI       Normalised SAIFI       Normalised SAIFI         36       Normalised SAIFI and SAIDI       2.54       305.45         37       Classes B & C (interruptions on the network)       2.54       305.45         38	29	Class E (unplanned interruptions of EDB owned generation)	-	-
32       Class H (planned interruptions caused by another disclosing entity)       -       -         33       Class I (interruptions caused by parties not included above)       0.10       29.40         34       Total       3.40       669.0         35       0       0.10       29.40         36       Normalised SAIFI and SAIDI       Normalised SAIFI       Normalised SAIFI         37       Classes B & C (interruptions on the network)       2.54       305.45         38       0       0.10       2.54       305.45         39       Transitional SAIDI and SAIDI (previous method)       SAIFI       SAIDI         Where EDBs do not currently record their SAIFI and SAIDI values using the 'multi-count' approach, they shall continue to record their SAIFI SAIDI values on the same basis that they employed as at 31 March 2023 as 'Transitional SAIDI' values, in addition SAIFI and SAIDI values (Classes B & C) using the 'multi-count approach'. This is a transitional reporting requirement that shall be in place 2024, 2025, and 2026 disclosure years.       2024, 2025, and 2026 disclosure years.         41       Class B (planned interruptions on the network)	30	Class F (unplanned interruptions of generation owned by others)	_	-
33       Class I (interruptions caused by parties not included above)       0.10       29.40         34       Total       3.40       669.0         35       S       S       S         36       Normalised SAIFI and SAIDI       Normalised SAIFI Normalised SAIDI         37       Classes B & C (interruptions on the network)       2.54       305.45         38       SAIFI       SAIFI       SAIDI         39       Transitional SAIDI and SAIDI (previous method)       SAIFI       SAIDI         34       Where EDBs do not currently record their SAIFI and SAIDI values using the 'multi-count' approach, they shall continue to record their SAIFI SAIDI values on the same basis that they employed as at 31 March 2023 as 'Transitional SAIDI' values, in addition SAIFI and SAIDI values (Classes B & C) using the 'multi-count approach'. This is a transitional reporting requirement that shall be in place         40       2024, 2025, and 2026 disclosure years.       Class B (planned interruptions on the network)       Image: Classe B (planned interruptions on the network)	31	Class G (unplanned interruptions caused by another disclosing entity)	-	-
34       Total       3.40       669.0         35       36       Normalised SAIF1 and SAID1       Normalised SAIF1       Normalised SAIF1         36       Normalised SAIF1 and SAID1       0       0       0         37       Classes B & C (interruptions on the network)       2.54       305.45         38       39       Transitional SAID1 and SAID1 (previous method)       SAIF1       SAID1         39       Where EDBs do not currently record their SAIF1 and SAID1 values using the 'multi-count' approach, they shall continue to record their SAIF1 SAID1 values on the same basis that they employed as at 31 March 2023 as 'Transitional SAID1' values, in addition SAIF1 and SAID1 values (Classes B & C) using the 'multi-count approach'. This is a transitional reporting requirement that shall be in place 2024, 2025, and 2026 disclosure years.         40       2024, 2025, and 2026 disclosure years.         41       Class B (planned interruptions on the network)       Image: Classe and the same basis the they were and the same basis the they were and the same basis that be in place 2024, 2025, and 2026 disclosure years.         41       Class B (planned interruptions on the network)       Image: Classe 2024, 2025, and 2026 disclosure years.	32	Class H (planned interruptions caused by another disclosing entity)	-	-
35       Normalised SAIF1 and SAID1       Normalised SAIF1       Normalised SAIF1         36       Normalised SAIF1 and SAID1       Classes B & C (interruptions on the network)       2.54       305.45         37       Classes B & C (interruptions on the network)       SAIF1       SAID1         38       SAIF1       SAID1       Where EDBs do not currently record their SAIF1 and SAID1 values using the 'multi-count' approach, they shall continue to record their SAIF1 SAID1 values on the same basis that they employed as at 31 March 2023 as 'Transitional SAID1' values, in addition SAIF1 and SAID1 values (Classes B & C) using the 'multi-count approach'. This is a transitional reporting requirement that shall be in place 2024, 2025, and 2026 disclosure years.         40       Class B (planned interruptions on the network)       Class B (planned interruptions on the network)	33	Class I (interruptions caused by parties not included above)	0.10	29.40
36       Normalised SAIFI and SAID1       Normalised SAIFI       Normalised SAIFI         37       Classes B & C (interruptions on the network)       2.54       305.45         38       Image: Classes B & C (interruptions on the network)       SAIFI       SAID1         39       Transitional SAIDI and SAIDI (previous method)       SAIFI       SAID1         39       Mere EDBs do not currently record their SAIFI and SAIDI values using the 'multi-count' approach, they shall continue to record their SAIFI SAID1 values on the same basis that they employed as at 31 March 2023 as 'Transitional SAID1' values, in addition SAIFI and SAID1 values (Classes B & C) using the 'multi-count approach'. This is a transitional reporting requirement that shall be in place         40       2024, 2025, and 2026 disclosure years.       Class B (planned interruptions on the network)       Image: Class B (planned interruptions on the network)	34	Total	3.40	669.0
<ul> <li>Transitional SAIDI and SAIDI (previous method)</li> <li>SAIFI SAIDI Where EDBs do not currently record their SAIFI and SAIDI values using the 'multi-count' approach, they shall continue to record their SAIFI SAIDI values on the same basis that they employed as at 31 March 2023 as 'Transitional SAIFI' and 'Transitional SAIDI' values, in addition SAIFI and SAIDI values (Classes B &amp; C) using the 'multi-count approach'. This is a transitional reporting requirement that shall be in place 2024, 2025, and 2026 disclosure years.</li> <li>Class B (planned interruptions on the network)</li> </ul>	36			
<ul> <li>Transitional SAIDI and SAIDI (previous method)</li> <li>SAIFI SAIDI</li> <li>Where EDBs do not currently record their SAIFI and SAIDI values using the 'multi-count' approach, they shall continue to record their SAIFI SAIDI values on the same basis that they employed as at 31 March 2023 as 'Transitional SAIFI' and 'Transitional SAIDI' values, in addition SAIFI and SAIDI values (Classes B &amp; C) using the 'multi-count approach'. This is a transitional reporting requirement that shall be in place</li> <li>2024, 2025, and 2026 disclosure years.</li> <li>Class B (planned interruptions on the network)</li> </ul>				
<ul> <li>Where EDBs do not currently record their SAIFI and SAIDI values using the 'multi-count' approach, they shall continue to record their SAIFI SAIDI values on the same basis that they employed as at 31 March 2023 as 'Transitional SAIFI' and 'Transitional SAIDI' values, in addition SAIFI and SAIDI values (Classes B &amp; C) using the 'multi-count approach'. This is a transitional reporting requirement that shall be in place 2024, 2025, and 2026 disclosure years.</li> <li>Class B (planned interruptions on the network)</li> </ul>	38			
41     Class B (planned interruptions on the network)		Where EDBs do not currently record their SAIFI and SAIDI values using the 'multi-count' appro SAIDI values on the same basis that they employed as at 31 March 2023 as 'Transitional SAIFI SAIFI and SAIDI values (Classes B & C) using the 'multi-count approach'. <b>This is a transitional</b>	ach, they shall continue and 'Transitional SAID	e to record their SAIFI DI' values, in addition
				1
	42			

Company Nam	Powerco Limited
For Year Ended	31 March 2023
Network / Sub-network Nam	Eastern Region

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

44	10(ii): Class C Interruptions and Duration by Cause		
45			
46	Cause	SAIFI	SAIDI
47	Lightning	0.05	6.00
48	Vegetation	0.72	280.26
49	Adverse weather	0.04	17.01
50	Adverse environment	0.00	1.39
51	Third party interference	0.17	32.79
52	Wildlife	0.09	6.39
53	Human error	0.05	0.52
54	Defective equipment	0.76	119.49
55	Cause unknown	0.33	38.63
56			
57	Breakdown of third party interference	SAIFI	SAIDI
58	Dig-in	0.01	0.76
59	Overhead contact	0.01	0.93
60	Vandalism	-	-
61	Vehicle damage	0.14	30.39
62	Other	0.01	0.70
63			

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

Main equipment involved	SAIFI	SAIDI
Subtransmission lines	0.03	7.23
Subtransmission cables	-	-
Subtransmission other	-	-
Distribution lines (excluding LV)	0.33	74.68
Distribution cables (excluding LV)	0.00	0.05
Distribution other (excluding LV)	0.00	0.00

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

Main equipment involved	SAIFI	SAIDI
Subtransmission lines	0.58	144.45
Subtransmission cables	-	-
Subtransmission other	0.04	0.43
Distribution lines (excluding LV)	1.38	339.29
Distribution cables (excluding LV)	0.13	8.72
Distribution other (excluding LV)	0.09	9.57

#### 10(v): Fault Rate

82

83	Main equipment involved	Number of Faults	Circuit length (km)
84	Subtransmission lines	41	551
85	Subtransmission cables	-	188
86	Subtransmission other	4	
87	Distribution lines (excluding LV)	1,574	4,669
88	Distribution cables (excluding LV)	84	1,483
89	Distribution other (excluding LV)	87	
90	Total	1,790	
			-

#### Fault rate (faults

per 10	0km)	
	7.44	
	-	
	33.71	
	5.66	

Company Name Powerco Limited

For Year Ended 31 March 2023

#### 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 3 April 2018. 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 2023 is slightly higher than 2022 ( $\uparrow$ 5.83% to 8.88% and  $\uparrow$ 3.39% to 8.37% respectively). This is primarily driven by a \$56.4m (28.31%) increase in commissioned assets.

# 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 2023 is \$202.0m reflecting an increase of \$31.2m (18.3%) compared to the previous year. This was primarily due to increases in total regulatory income ( $\uparrow$ \$41.1m, 11.7%), higher revaluations ( $\uparrow$ \$11.3m, 8.0%), offset by higher operating expenditure ( $\uparrow$ \$7.9m, 7.6%), higher depreciation ( $\uparrow$ \$10.1m, 10.8%), higher pass-through and recoverable costs ( $\uparrow$ \$2.2m, 2.1%), and regulatory tax ( $\uparrow$ \$1.0m, 6.9%)

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 \$303.7m (13.3%) during the year to \$2,590m. Commissioned assets ( $\uparrow$ \$56.4m, 28.3%), Revaluations ( $\uparrow$ \$11.3m, 8.0%) and Depreciation ( $\uparrow$ \$10.1m, 10.8%) were higher than 2022. Disposals ( $\downarrow$ \$14.8m, 105.3%) were lower than 2022.

As per 2022, the Depreciation and Disposal numbers include a provision. The provisions relate to the work-inprogress (WIP) balance. At the end of 2023 disclosure period, the Disposal provision was \$21.0m ( $\downarrow$ \$20.7m, 49.6%) and the Depreciation provision was \$9.2m ( $\downarrow$ \$2.8m, 22.8%).

The 2023 disposal amount is a net debit because the release of the provision was larger than the disposals in the year. This is due to the reduction of the WIP balance during the year.

The adjustment resulting from asset allocations includes the below

• The removal of the 2023 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 the movement in WIP.

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)
\$3	\$2	\$5	\$16	\$12	\$5	\$4	(\$47)	\$0

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 \$1.6m 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 \$1.6m of expenditure in regulatory profit that is not deductible for tax relating to legal and entertainment expenditure.

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 \$3.5m. The total tax effect of \$1m relates to:

- \$3.3m CIW income that will be recognised as taxable income over a period of 10 years
- \$0.7m movement in employee related provisions
- \$0.3m other provisions associated with year-end
- (\$0.2m) feasibility expenditure deductible over 5 years
- (\$0.6m) 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**

\$73.8m operating costs (66.2% of total operating costs) are directly attributable to the electricity distribution business (EDB) compared to \$67.9m 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 customer and commercial management costs)
- Customised Price-Quality Path related costs
- Network management and administration

# **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

\$37.6m operating costs (33.7% of total) that are not directly attributable to the EDB have been allocated to the EDB, compared to \$35.5m in the prior disclosure year.

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

SONS Customer and commercial management costs include customer relations costs including personnel costs, marketing costs, and professional service fees. A proxy allocator based on network Installation Control Point (ICP) count is used. Previously these costs were directly attributable to either the electricity or gas businesses.

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. There have been no changes to any cost allocator used in the current disclosure year, except described above for the SONS customer and commercial management costs.

Functional	Proxy	
Area	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.

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

# 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

\$2,513.5m (97.1%) of the total RAB value is directly attributable to the electricity distribution business (EDB). \$76.1m (2.9%) 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 96.9% and 3.1% 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.

# 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 2023 totalled \$291.7m which is \$39.6m ( $\uparrow$ 15.7%) more than the prior year (\$252.1m). This reflects a \$7.4m ( $\uparrow$ 10.7%) increase in consumer connection, a \$30.1m ( $\uparrow$ 54.5%) increase in system growth, a \$6.6m ( $\uparrow$ 306.8%) increase in asset relocations and a \$3.6m ( $\uparrow$ 38.3%) increase in reliability, safety and environment. These are slightly offset by a \$4.9m ( $\downarrow$ 4.9%) decrease in asset replacement and renewal and \$3.2m ( $\downarrow$ 21.4%) decrease in non-network.

# 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 2023 totalled \$111.3m which is \$7.9m ( $\uparrow$ 7.6%) more than the prior year (\$103.4m). All opex categories increased during the year except for routine and corrective maintenance and inspection. The largest increases are system operations and network support \$3.8m ( $\uparrow$ 20.8%), asset replacement and renewal \$3.1m ( $\uparrow$ 24.6%) and service interruptions and emergencies \$2.1m ( $\uparrow$ 28.7%). 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 2023 totalled \$291.7m which is \$22.8m ( $\uparrow$ 8.5%) above the 2022 Asset Management Plan (AMP) forecast (\$268.8m). This net overspend is the result of a \$24.6m ( $\uparrow$ 9.6%) overspend on network assets and a \$1.8m ( $\downarrow$ 13.2%) underspend on non-network assets.

Consumer connection

Customer development was extremely strong across all the Powerco footprint and was well over forecast levels \$10.4m ( $\uparrow$ 15.7%) higher than forecast. High residential property prices drove a significant level of infill subdivision activity during the first three quarters of the financial year, along with continued demand for retirement villages, and commercial and industrial development. The high volume of available work has led to very high prices being charged by all trades in this workstream. Escalating costs for imported materials has seen the average cost per job increase by approximately 15% over the previous year. Decarbonisation projects are likely to see industrial work continue over the next year.

• Asset replacement and renewal

Asset replacement and renewal expenditure was higher than forecast by \$15.5m ( $\uparrow$ 19.1%). During the 2023 disclosure year we experienced unprecedented storm events, most notably the January-March 2023 events. The result was higher than expected spend on reactive ARR capex. This was compounded by the continued programme to reduce the number of Amber defects on the network during the CPP period ending 31 March 2023.

• Legislative and regulatory

Legislative and regulatory CAPEX spend was \$1.4m ( $\downarrow$ 92.9%) less than forecast in AMP2022. This was due to a delay in upgrades to our substations to comply with Automatic Under Frequency Load Shedding requirements.

• Expenditure on non-network assets

Expenditure on non-network assets was \$1.8m ( $\downarrow$ 13.2%) below forecast. The variance resulted from the timing of planned facility upgrades and IS development plans.

# **Operational expenditure**

Operational expenditure (opex) totalled \$111.3m during the period which is \$10.1m ( $\uparrow$ 10.0%) above the 2022 Asset Management Plan (AMP) forecast (\$101.2m). Network opex was \$7.3m ( $\uparrow$ 16.2%) above the forecast, primarily driven by overspend on Service interruptions & Emergencies and asset replacement & renewal, while non-network opex was \$2.9m ( $\uparrow$ 5.1%) 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).

• Service Interruption & Emergencies

Expenditure on service interruptions & emergencies was 2.3m (1.5%) higher than forecast. The primary reason for this is the increased regularity and severity of storms experienced, highlighted by the storms which impacted the north island during January-March 2023.

• Asset replacement and renewal

Expenditure on asset replacement and renewal was 5.5m (152.8%) higher than forecast. This increase can largely be attributed to higher expenditure issued out of our control centre on second response following large storms events such as Cyclone Gabrielle, including 1m of generation.

# 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 2023 was \$390.7 compared to target revenue of  $392.7m (\downarrow 0.5\%)$ . 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 2023 Powerco's normalised SAIDI (Class B and Class C) was 315 minutes extending the worsening trend in unplanned fault restoration durations. SAIFI (Class B and Class C) also rose to 2.84 reflecting the impact of significant storms throughout the year.

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 that Powerco is determined to address. This is one of the drivers for increasing our investment in asset renewal. Despite increasing expenditure across several 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). 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 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). 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-
  - 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, Gas district regulators, Gas special crossings 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 Powerco's exposure to a catastrophic event affecting its 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 partly based 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 2023

# Schedule 15 Voluntary Explanatory Notes

(In this Schedule, clause references are to the Electricity Distribution Information Disclosure Determination 2012 – as amended and consolidated 3 April 2018.)

- 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 2023.

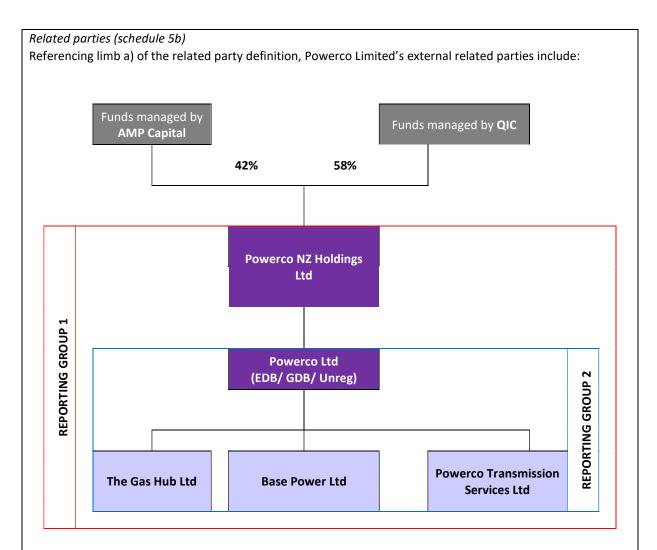
The disposal and depreciation provisions apply the same methodology as is used for accounting, while also ensuring that these provisions are calculated in line with the relevant Input Methodology.

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

The provision included in 2023 captures new assets included in commissioned WIP this year, and assets that remain in commissioned WIP from previous years.

The closing 2023 WIP balance is trending downwards and as a result, a significant portion of the original disposal provision included in 2021 has been released in 2023 to reflect the actual level of disposals.

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 \$4.4k, of which 100% is allocated to Powerco's Electricity Distribution business.
- The equivalent arm's length value of services provided to Gas metering is \$582k, 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:

- 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

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.

# **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 resolved the previous incompleteness but introduced 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

Distribution transformer capacity includes all transformers recorded as 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 20oC ambient temperature. Powerco has a small number of grid connection transformers which are excluded from this total.

### Successive interruptions (Schedule 10)

As required by the exemption granted 26 May 2023 Powerco confirms that successive interruptions have been treated in the same way for the 2023 disclosure as they were for the 2022 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 2023

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

We. Paul Callow John Loughlin

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

22 / 08 /2023

Director
22 / 08 / 2023
Date

Date

# INDEPENDENT ASSURANCE 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 July 2023)

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 July 2023) as amended by the Information Disclosure Exemption: Disclosure and auditing of reliability information issued on 26 May 2023 (the 'Determination'), for the disclosure year ended 31 March 2023, 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 2023, has been prepared, in all material respects, in accordance with clause 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 Standard on Assurance Engagements 3100 (Revised): *Compliance Engagements* ('SAE 3100 (Revised)') and the International Standard on Assurance Engagements (New Zealand) 3000 (Revised): *Assurance Engagements Other than Audits or Reviews of Historical Financial Information* ('ISAE (NZ) 3000 (Revised)'), both issued by the New Zealand Auditing and Assurance Standards Board.

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, in accordance 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 commissioned 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 \$239.7 million and commissioned assets in to the RAB of \$255.7 million, compared to network operating expenditure of \$52.0 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 disposal	S				
As detailed in Schedule 14 and Schedule 15, the Company included a provision for assets disposals amounting to \$21 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.	<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> </ul>				
This is a key assurance matter due to the quantum of the balance and the level of judgement required in determining the estimate.	<ul> <li>Testing the arithmetical accuracy of the calculation; and</li> <li>Evaluating the sensitivity of the calculation to changes in the key variables and assumptions.</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 and Input Methodologies 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 and Input Methodologies 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: *Quality Management for Firms that Perform Audits or Reviews of Financial Statements, or Other Assurance or Related Services Engagements*, which requires the firm to design, implement and operate a system of quality management including 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. SAE 3100 (Revised) requires 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.

This report is not to be used for any other purpose, recited or referred to in any document, copied or made available (in whole or in part) to any other person without our prior written consent. We accept or assume no duty, responsibility or liability to any party, other than you, in connection with the report or this engagement including without limitation, liability for negligence in relation to the opinion expressed in our report.

Deloitte Limited

Chartered Accountants 22 August 2023 Auckland, New Zealand