



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

<b>Company Name</b>	<input type="text" value="Powerco Limited"/>
<b>Disclosure Date</b>	<input type="text" value="31 August 2023"/>
<b>Disclosure Year (year ended)</b>	<input type="text" value="31 March 2023"/>

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

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## **Disclosure Template Instructions**

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

### ***Company Name and Dates***

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

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

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

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

### ***Data Entry Cells and Calculated Cells***

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

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

### ***Validation Settings on Data Entry Cells***

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

### ***Conditional Formatting Settings on Data Entry Cells***

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

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

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

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

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

**Inserting Additional Rows and Columns**

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

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

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

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

**Disclosures by Sub-Network**

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

**Schedule References**

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

**Description of Calculation References**

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

**Worksheet Completion Sequence**

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

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

**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 in accordance with this and other schedules, and information disclosed under the other requirements of the determination.

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

sch ref

7	<b>1(i): Expenditure metrics</b>				
8		<b>Expenditure per GWh energy delivered to ICPs (\$/GWh)</b>	<b>Expenditure per average no. of ICPs (\$/ICP)</b>	<b>Expenditure per MW maximum coincident system demand (\$/MW)</b>	<b>Expenditure per MVA of capacity from EDB-owned distribution transformers (\$/MVA)</b>
9	<b>Operational expenditure</b>	22,442	312	114,296	3,827
10	Network	10,478	146	53,361	1,787
11	Non-network	11,965	166	60,935	2,040
12					
13	<b>Expenditure on assets</b>	58,797	818	299,445	10,027
14	Network	56,450	785	287,490	9,627
15	Non-network	2,347	33	11,954	400
16					
17	<b>1(ii): Revenue metrics</b>				
18		<b>Revenue per GWh energy delivered to ICPs (\$/GWh)</b>	<b>Revenue per average no. of ICPs (\$/ICP)</b>		
19	<b>Total consumer line charge revenue</b>	78,769	1,096		
20	Standard consumer line charge revenue	105,512	901		
21	Non-standard consumer line charge revenue	36,433	101,546		
22					
23	<b>1(iii): Service intensity measures</b>				
24					
25	Demand density	33			<i>Maximum coincident system demand per km of circuit length (for supply) (kW/km)</i>
26	Volume density	171			<i>Total energy delivered to ICPs per km of circuit length (for supply) (MWh/km)</i>
27	Connection point density	12			<i>Average number of ICPs per km of circuit length (for supply) (ICPs/km)</i>
28	Energy intensity	13,909			<i>Total energy delivered to ICPs per average number of ICPs (kWh/ICP)</i>
29					
30	<b>1(iv): Composition of regulatory income</b>				
31				<b>(\$000)</b>	<b>% of revenue</b>
32	Operational expenditure			111,324	28.29%
33	Pass-through and recoverable costs excluding financial incentives 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	<b>Total regulatory income</b>			393,491	
39					
40	<b>1(v): Reliability</b>				
41					
42	Interruption rate			22.89	<i>Interruptions per 100 circuit km</i>

Company Name **Powerco Limited**  
For Year Ended **31 March 2023**

## SCHEDULE 2: REPORT ON RETURN ON INVESTMENT

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

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

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

sch ref

	CY-2	CY-1	Current Year CY
	31 Mar 21	31 Mar 22	31 Mar 23
	%	%	%
<b>2(i): Return on Investment</b>			
<b>ROI – comparable to a post tax WACC</b>			
Reflecting all revenue earned	2.55%	8.10%	8.37%
Excluding revenue earned from financial incentives	2.52%	8.11%	8.41%
Excluding revenue earned from financial incentives and wash-ups	2.54%	8.13%	8.43%
<b>Mid-point estimate of post tax WACC</b>			
25th percentile estimate	3.72%	3.52%	4.88%
75th percentile estimate	4.40%	4.20%	5.56%
<b>ROI – comparable to a vanilla WACC</b>			
Reflecting all revenue earned	2.88%	8.40%	8.88%
Excluding revenue earned from financial incentives	2.85%	8.41%	8.92%
Excluding revenue earned from financial incentives and wash-ups	2.88%	8.43%	8.94%
<b>WACC rate used to set regulatory price path</b>	4.57%	4.57%	4.57%
<b>Mid-point estimate of vanilla WACC</b>			
25th percentile estimate	4.05%	3.82%	5.39%
75th percentile estimate	4.73%	4.50%	6.07%
<b>2(ii): Information Supporting the ROI</b>			
			<b>(\$000)</b>
Total opening RAB value	2,285,796		
plus Opening deferred tax	(88,512)		
<b>Opening RIV</b>		2,197,284	
<b>Line charge revenue</b>		390,730	
Expenses cash outflow	221,922		
add Assets commissioned	255,747		
less Asset disposals	(745)		
add Tax payments	(3,190)		
less Other regulated income	2,762		
<b>Mid-year net cash outflows</b>		472,462	
<b>Term credit spread differential allowance</b>		2,509	
Total closing RAB value	2,589,537		
less Adjustment resulting from asset allocation	(574)		
less Lost and found assets adjustment	–		
plus Closing deferred tax	(106,605)		
<b>Closing RIV</b>		2,483,506	
<b>ROI – comparable to a vanilla WACC</b>			8.88%
Leverage (%)			42%
Cost of debt assumption (%)			4.38%
Corporate tax rate (%)			28%
<b>ROI – comparable to a post tax WACC</b>			8.37%

Company Name **Powerco Limited**  
 For Year Ended **31 March 2023**

**SCHEDULE 2: REPORT ON RETURN ON INVESTMENT**

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

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sch ref

**2(iii): Information Supporting the Monthly ROI**

Opening RIV N/A

	Line charge revenue	Expenses cash outflow	Assets commissioned	Asset disposals	Other regulated income	Monthly net cash outflows
April						-
May						-
June						-
July						-
August						-
September						-
October						-
November						-
December						-
January						-
February						-
March						-
<b>Total</b>	-	-	-	-	-	-

Tax payments N/A

Term credit spread differential allowance N/A

Closing RIV N/A

Monthly ROI – comparable to a vanilla WACC N/A

Monthly ROI – comparable to a post tax WACC N/A

**2(iv): Year-End ROI Rates for Comparison Purposes**

Year-end ROI – comparable to a vanilla WACC 8.76%

Year-end ROI – comparable to a post tax WACC 8.25%

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

**2(v): Financial Incentives and Wash-Ups**

Net recoverable costs allowed under incremental rolling incentive scheme	-
Purchased assets – avoided transmission charge	-
Energy efficiency and demand incentive allowance	-
Quality incentive adjustment	(1,103)
Other financial incentives	-
<b>Financial incentives</b>	(1,103)

Impact of financial incentives on ROI -0.04%

Input methodology claw-back	-
CPP application recoverable costs	-
Catastrophic event allowance	-
Capex wash-up adjustment	(612)
Transmission asset wash-up adjustment	-
2013–15 NPV wash-up allowance	-
Reconsideration event allowance	-
Other wash-ups	-
<b>Wash-up costs</b>	(612)

Impact of wash-up costs on ROI -0.02%

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 ref

7	<b>3(i): Regulatory Profit</b>	(\$000)
8	<b>Income</b>	
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)	1,661
12		
13	<b>Total regulatory income</b>	<b>393,491</b>
14	<b>Expenses</b>	
15	less Operational expenditure	111,324
16		
17	less Pass-through and recoverable costs excluding financial incentives and wash-ups	110,598
18		
19	<b>Operating surplus / (deficit)</b>	<b>171,569</b>
20		
21	less Total depreciation	103,563
22		
23	plus Total revaluations	151,386
24		
25	<b>Regulatory profit / (loss) before tax</b>	<b>219,392</b>
26		
27	less Term credit spread differential allowance	2,509
28		
29	less Regulatory tax allowance	14,903
30		
31	<b>Regulatory profit/(loss) including financial incentives and wash-ups</b>	<b>201,980</b>
32		
33	<b>3(ii): Pass-through and Recoverable Costs excluding Financial Incentives and Wash-Ups</b>	(\$000)
34	<b>Pass through costs</b>	
35	Rates	2,171
36	Commerce Act levies	951
37	Industry levies	1,207
38	CPP specified pass through costs	-
39	<b>Recoverable costs excluding financial incentives and wash-ups</b>	
40	Electricity lines service charge payable to Transpower	93,892
41	Transpower new investment contract charges	7,238
42	System operator services	-
43	Distributed generation allowance	5,138
44	Extended reserves allowance	-
45	Other recoverable costs excluding financial incentives and wash-ups	-
46	<b>Pass-through and recoverable costs excluding financial incentives and wash-ups</b>	<b>110,598</b>
47		



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).  
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sch ref

		(\$000)	
		CY-1	CY
		31 Mar 22	31 Mar 23
48	<b>3(iii): Incremental Rolling Incentive Scheme</b>		
49			
50			
51	Allowed controllable opex	-	-
52	Actual controllable opex	-	-
53			
54	Incremental change in year		-
55			
56			
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	<b>Net incremental rolling incentive scheme</b>		-
63			
64	<b>Net recoverable costs allowed under incremental rolling incentive scheme</b>		-
65	<b>3(iv): Merger and Acquisition Expenditure</b>		
70			(\$000)
66	Merger and acquisition expenditure		-
67			
68	<i>Provide commentary on the benefits of merger and acquisition expenditure to the electricity distribution business, including required disclosures in accordance with section 2.7, in Schedule 14 (Mandatory Explanatory Notes)</i>		
69	<b>3(v): Other Disclosures</b>		
70			(\$000)
71	Self-insurance allowance		-

Company Name	<b>Powerco Limited</b>
For Year Ended	<b>31 March 2023</b>

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

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

*sch ref*

4(i): Regulatory Asset Base Value (Rolled Forward)		for year ended				
		RAB 31 Mar 19 (\$000)	RAB 31 Mar 20 (\$000)	RAB 31 Mar 21 (\$000)	RAB 31 Mar 22 (\$000)	RAB 31 Mar 23 (\$000)
7						
8						
9						
10	Total opening RAB value	1,657,737	1,787,100	1,962,910	2,053,806	2,285,796
11						
12	less Total depreciation	67,008	69,808	80,369	93,441	103,563
13						
14	plus Total revaluations	24,327	44,763	29,063	140,129	151,386
15						
16	plus Assets commissioned	185,313	208,182	184,197	199,318	255,747
17						
18	less Asset disposals	12,096	7,414	42,007	14,079	(745)
19						
20	plus Lost and found assets adjustment	-	-	-	-	-
21						
22	plus Adjustment resulting from asset allocation	(1,173)	86	11	62	(574)
23						
24	Total closing RAB value	1,787,100	1,962,910	2,053,806	2,285,796	2,589,537
25						

Company Name	Powerco Limited
For Year Ended	31 March 2023

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

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		Unallocated RAB *		RAB	
		(\$000)	(\$000)	(\$000)	(\$000)
26	<b>4(ii): Unallocated Regulatory Asset Base</b>				
27					
28					
29	Total opening RAB value		2,301,428		2,285,796
30	less				
31	Total depreciation		105,484		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	<b>Assets commissioned</b>		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	<b>Asset disposals</b>		(715)		(745)
44					
45	plus Lost and found assets adjustment		-		-
46					
47	plus Adjustment resulting from asset allocation				(574)
48					
49	<b>Total closing RAB value</b>		2,606,431		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 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	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

#### 52 4(iii): Calculation of Revaluation Rate and Revaluation of Assets

53				
54	CPI <sub>4</sub>			1,218
55	CPI <sub>4</sub> <sup>-4</sup>			1,142
56	Revaluation rate (%)			6.65%

		Unallocated RAB *		RAB	
		(\$000)	(\$000)	(\$000)	(\$000)
59					
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	<b>Total revaluations</b>		152,218		151,386

#### 66 4(iv): Roll Forward of Works Under Construction

		Unallocated works under		Allocated works under	
68	<b>Works under construction—preceding disclosure year</b>		105,131		104,126
69	plus Capital expenditure	242,025		239,700	
70	less Assets commissioned	257,554		255,747	
71	plus Adjustment resulting from asset allocation			(58)	
72	<b>Works under construction - current disclosure year</b>		89,603		88,021
73					
74	Highest rate of capitalised finance applied				3.12%

Company Name **Powerco Limited**  
 For Year Ended **31 March 2023**

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

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75  
76 **4(v): Regulatory Depreciation**

Unallocated RAB *		RAB	
(\$000)	(\$000)	(\$000)	(\$000)
72,380		72,277	
33,104		31,286	
-		-	
-		-	
<b>Total depreciation</b>		<b>105,484</b>	<b>103,563</b>

84  
85 **4(vi): Disclosure of Changes to Depreciation Profiles**

(\$000 unless otherwise specified)

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

\* include additional rows if needed

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

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

(\$000 unless otherwise specified)

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

Company Name **Powerco Limited**For Year Ended **31 March 2023****SCHEDULE 5a: REPORT ON REGULATORY TAX ALLOWANCE**

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

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

sch ref

		(\$000)	
7	<b>5a(i): Regulatory Tax Allowance</b>		
8	<b>Regulatory profit / (loss) before tax</b>		219,392
9			
10	<i>plus</i> 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	1,590	*
12	Amortisation of initial differences in asset values	9,489	
13	Amortisation of revaluations	14,740	
14			27,434
15			
16	<i>less</i> 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	<b>Regulatory taxable income</b>		53,224
24			
25	<i>less</i> Utilised tax losses	-	
26	Regulatory net taxable income		53,224
27			
28	Corporate tax rate (%)	28%	
29	<b>Regulatory tax allowance</b>		14,903

\* Workings to be provided in Schedule 14

**5a(ii): Disclosure of Permanent Differences**

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

		(\$000)	
34	<b>5a(iii): Amortisation of Initial Difference in Asset Values</b>		
35			
36	Opening unamortised initial differences in asset values	189,771	
37	<i>less</i> Amortisation of initial differences in asset values	9,489	
38	<i>plus</i> Adjustment for unamortised initial differences in assets acquired	-	
39	<i>less</i> Adjustment for unamortised initial differences in assets disposed	(2,450)	
40	Closing unamortised initial differences in asset values		182,732
41			
42	Opening weighted average remaining useful life of relevant assets (years)		20

**5a(iv): Amortisation of Revaluations** (\$000)

45	Opening sum of RAB values without revaluations	1,949,144	
46			
47	Adjusted depreciation	88,823	
48	Total depreciation	103,563	
49	Amortisation of revaluations		14,740
50			
51			

Company Name **Powerco Limited**  
 For Year Ended **31 March 2023**

**SCHEDULE 5a: REPORT ON REGULATORY TAX ALLOWANCE**

This schedule requires information on the calculation of the regulatory tax allowance. This information is used to calculate regulatory profit/loss in Schedule 3 (regulatory profit). EDBs must provide explanatory commentary on the information disclosed in this schedule, in Schedule 14 (Mandatory Explanatory Notes). This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

52	<b>5a(v): Reconciliation of Tax Losses</b>		(\$000)
53			
54	Opening tax losses	-	
55	plus Current period tax losses	-	
56	less Utilised tax losses	-	
57	<b>Closing tax losses</b>		<b>-</b>

58	<b>5a(vi): Calculation of Deferred Tax Balance</b>		(\$000)
59			
60	Opening deferred tax	(88,512)	
61			
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			
72	less Deferred tax balance relating to assets disposed in the disclosure year	3,611	
73			
74	plus Deferred tax cost allocation adjustment	76	
75			
76	<b>Closing deferred tax</b>		<b>(106,605)</b>

77

78 **5a(vii): Disclosure of Temporary Differences**

79 *In Schedule 14, Box 6, provide descriptions and workings of items recorded in the asterisked category in Schedule 5a(vi) (Tax effect of other temporary*

80 *differences).*

81	<b>5a(viii): Regulatory Tax Asset Base Roll-Forward</b>		(\$000)
82			
83	Opening sum of regulatory tax asset values	1,359,688	
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	<b>Closing sum of regulatory tax asset values</b>		<b>1,463,848</b>



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

	(\$000)	(\$000)
<b>7 5b(i): Summary—Related Party Transactions</b>		
<b>8 Total regulatory income</b>		5
<b>9</b>		
<b>10 Market value of asset disposals</b>		—
<b>11</b>		
12 Service interruptions and emergencies	—	
13 Vegetation management	—	
14 Routine and corrective maintenance and inspection	—	
15 Asset replacement and renewal (opex)	—	
<b>16 Network opex</b>		—
17 Business support	—	
18 System operations and network support	—	
<b>19 Operational expenditure</b>		—
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	—	
<b>27 Expenditure on non-network assets</b>		—
<b>28 Expenditure on assets</b>		535
29 Cost of financing		—
30 Value of capital contributions		—
31 Value of vested assets		—
<b>32 Capital Expenditure</b>		535
<b>33 Total expenditure</b>		535
<b>34</b>		
<b>35 Other related party transactions</b>		—

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

	Name of related party	Nature of opex or capex service provided	Total value of transactions (\$000)
37	Base Power Limited	Asset replacement and renewal (capex)	535
38		[Select one]	
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]	
<b>53 Total value of related party transactions</b>			<b>535</b>

\* include additional rows if needed

Company Name **Powerco Limited**  
 For Year Ended **31 March 2023**

**SCHEDULE 5c: REPORT ON TERM CREDIT SPREAD DIFFERENTIAL ALLOWANCE**

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

sch ref

7			
8	<b>5c(i): Qualifying Debt (may be Commission only)</b>		
9			
29			
30	<b>5c(ii): Attribution of Term Credit Spread Differential</b>		
31			
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	Attribution Rate (%)		47%
38			
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.

sch ref

**5d(i): Operating Cost Allocations**

	Arm's length deduction	Electricity distribution services	Non-electricity distribution services	Total	OVABAA allocation increase (\$000s)
<b>Value allocated (\$000s)</b>					
<b>Service interruptions and emergencies</b>					
Directly attributable		9,568			
Not directly attributable	-	-	-	-	-
<b>Total attributable to regulated service</b>		9,568			
<b>Vegetation management</b>					
Directly attributable		10,283			
Not directly attributable	-	-	-	-	-
<b>Total attributable to regulated service</b>		10,283			
<b>Routine and corrective maintenance and inspection</b>					
Directly attributable		16,342			
Not directly attributable	-	-	-	-	-
<b>Total attributable to regulated service</b>		16,342			
<b>Asset replacement and renewal</b>					
Directly attributable		15,781			
Not directly attributable	-	-	-	-	-
<b>Total attributable to regulated service</b>		15,781			
<b>System operations and network support</b>					
Directly attributable		20,135			
Not directly attributable	-	1,751	977	2,729	-
<b>Total attributable to regulated service</b>		21,886			
<b>Business support</b>					
Directly attributable		1,663			
Not directly attributable	-	35,801	6,342	42,143	-
<b>Total attributable to regulated service</b>		37,465			
<b>Operating costs directly attributable</b>		73,772			
<b>Operating costs not directly attributable</b>	-	37,553	7,319	44,872	-
<b>Operational expenditure</b>		111,324			

**5d(ii): Other Cost Allocations**

	(\$000)
<b>Pass through and recoverable costs</b>	
<b>Pass through costs</b>	
Directly attributable	4,111
Not directly attributable	218
<b>Total attributable to regulated service</b>	4,329
<b>Recoverable costs</b>	
Directly attributable	106,269
Not directly attributable	-
<b>Total attributable to regulated service</b>	106,269

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

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

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

† include additional rows if needed

Company Name	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.

sch ref

5e(i): Regulated Service Asset Values		Value allocated (\$000s)
Electricity distribution services		
<b>Subtransmission lines</b>		
Directly attributable		104,143
Not directly attributable		-
<b>Total attributable to regulated service</b>		104,143
<b>Subtransmission cables</b>		
Directly attributable		72,080
Not directly attributable		-
<b>Total attributable to regulated service</b>		72,080
<b>Zone substations</b>		
Directly attributable		207,654
Not directly attributable		-
<b>Total attributable to regulated service</b>		207,654
<b>Distribution and LV lines</b>		
Directly attributable		603,370
Not directly attributable		-
<b>Total attributable to regulated service</b>		603,370
<b>Distribution and LV cables</b>		
Directly attributable		435,799
Not directly attributable		-
<b>Total attributable to regulated service</b>		435,799
<b>Distribution substations and transformers</b>		
Directly attributable		320,222
Not directly attributable		-
<b>Total attributable to regulated service</b>		320,222
<b>Distribution switchgear</b>		
Directly attributable		202,309
Not directly attributable		-
<b>Total attributable to regulated service</b>		202,309
<b>Other network assets</b>		
Directly attributable		532,506
Not directly attributable		-
<b>Total attributable to regulated service</b>		532,506
<b>Non-network assets</b>		
Directly attributable		35,386
Not directly attributable		76,067
<b>Total attributable to regulated service</b>		111,454
<b>Regulated service asset value directly attributable</b>		2,513,469
<b>Regulated service asset value not directly attributable</b>		76,067
<b>Total closing RAB value</b>		2,589,537

**5e(ii): Changes in Asset Allocations\* †**

		(\$000)	
		CY-1	Current Year (CY)
<b>Change in asset value allocation 1</b>			
Asset category			
Original allocator or line items			
New allocator or line items			
		-	-
Rationale for change			
<b>Change in asset value allocation 2</b>			
Asset category			
Original allocator or line items			
New allocator or line items			
		-	-
Rationale for change			
<b>Change in asset value allocation 3</b>			
Asset category			
Original allocator or line items			
New allocator or line items			
		-	-
Rationale for change			

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

† include additional rows if needed

Company Name **Powerco Limited**For Year Ended **31 March 2023****SCHEDULE 6a: REPORT ON CAPITAL EXPENDITURE FOR THE DISCLOSURE YEAR**

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

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

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

sch ref

		(\$000)	(\$000)
7	<b>6a(i): Expenditure on Assets</b>		
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	<b>Total reliability, safety and environment</b>		12,882
17	<b>Expenditure on network assets</b>		280,015
18	Expenditure on non-network assets		11,644
19			
20	<b>Expenditure on assets</b>		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	<b>Capital expenditure</b>		239,700
26	<b>6a(ii): Subcomponents of Expenditure on Assets (where known)</b>		(\$000)
27	Energy efficiency and demand side management, reduction of energy losses		59
28	Overhead to underground conversion		1,736
29	Research and development		727
30	Cybersecurity (Commission only)		–
31	<b>6a(iii): Consumer Connection</b>		
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	<b>Consumer connection expenditure</b>		76,847
40			
41	less Capital contributions funding consumer connection expenditure	48,589	
42	<b>Consumer connection less capital contributions</b>		28,258
43	<b>6a(iv): System Growth and Asset Replacement and Renewal</b>		
44			
45			
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
52	Other network assets	8,206	951
53	<b>System growth and asset replacement and renewal expenditure</b>	85,401	96,181
54	less Capital contributions funding system growth and asset replacement and renewal	341	6
55	<b>System growth and asset replacement and renewal less capital contributions</b>	85,061	96,175
56			

Company Name **Powerco Limited**For Year Ended **31 March 2023****SCHEDULE 6a: REPORT ON CAPITAL EXPENDITURE FOR THE DISCLOSURE YEAR**

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

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

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

sch ref

**6a(v): Asset Relocations**

Project or programme\*

NZTA Northern Link Relocations
Waka Kotahi SH2 Road Improvements
Property owner requested relocations
Local Council requested relocations
0

(\$000)

(\$000)

5,353
1,700
632
108
-

\* include additional rows if needed

All other projects or programmes - asset relocations

911

**Asset relocations expenditure**

8,704

less Capital contributions funding asset relocations

5,298

**Asset relocations less capital contributions**

3,406

**6a(vi): Quality of Supply**

Project or programme\*

Automation Projects
Remote Control Projects
LFI Rollout
Generation Projects
LV Monitoring
Princes St RMU project
Backfeed support

(\$000)

(\$000)

2,983
1,153
1,110
839
781
454
279

\* include additional rows if needed

All other projects programmes - quality of supply

568

**Quality of supply expenditure**

8,167

less Capital contributions funding quality of supply

-

**Quality of supply less capital contributions**

8,167

**6a(vii): Legislative and Regulatory**

Project or programme\*

AUFLS Renewals/Upgrade

(\$000)

(\$000)

106

\* include additional rows if needed

All other projects or programmes - legislative and regulatory

**Legislative and regulatory expenditure**

106

less Capital contributions funding legislative and regulatory

**Legislative and regulatory less capital contributions**

106

**6a(viii): Other Reliability, Safety and Environment**

Project or programme\*

Poletop Photography
2023 Safety Signage
Locks and Keys project
Line Differential Protection and Critical Comms
Rangiorua Road Network Realignment
Power Pilot Rollout
AwaToiToi to Tinui 33kv line Capex

(\$000)

(\$000)

1,666
625
411
261
242
211
179

\* include additional rows if needed

All other projects or programmes - other reliability, safety and environment

1,014

**Other reliability, safety and environment expenditure**

4,609

less Capital contributions funding other reliability, safety and environment

-

**Other reliability, safety and environment less capital contributions**

4,609

Company Name **Powerco Limited**  
 For Year Ended **31 March 2023**

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

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

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

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

sch ref

109	<b>6a(ix): Non-Network Assets</b>		
110	<b>Routine expenditure</b>		
111	<i>Project or programme*</i>	<b>(\$000)</b>	<b>(\$000)</b>
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	<i>* include additional rows if needed</i>		
122	All other projects or programmes - routine expenditure	294	
123	<b>Routine expenditure</b>		<b>11,214</b>
124	<b>Atypical expenditure</b>		
125	<i>Project or programme*</i>	<b>(\$000)</b>	<b>(\$000)</b>
126	Enterprise Asset Management System	324	
127			
128			
129			
130			
131	<i>* include additional rows if needed</i>		
132	All other projects or programmes - atypical expenditure	106	
133	<b>Atypical expenditure</b>		<b>430</b>
134			
135	<b>Expenditure on non-network assets</b>		<b>11,644</b>

Company Name **Powerco Limited**  
 For Year Ended **31 March 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 insurance.

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

*sch ref*

		(\$000)	(\$000)
7	<b>6b(i): Operational Expenditure</b>		
8	Service interruptions and emergencies	9,568	
9	Vegetation management	10,283	
10	Routine and corrective maintenance and inspection	16,342	
11	Asset replacement and renewal	15,781	
12	<b>Network opex</b>		51,973
13	System operations and network support	21,886	
14	Business support	37,465	
15	<b>Non-network opex</b>		59,351
16			
17	<b>Operational expenditure</b>		<b>111,324</b>
18	<b>6b(ii): Subcomponents of Operational Expenditure (where known)</b>		
19	Energy efficiency and demand side management, reduction of energy losses		250
20	Direct billing*		-
21	Research and development		16
22	Insurance		1,770
23	Cybersecurity (Commission only)		-
24	<i>* Direct billing expenditure by suppliers that directly bill the majority of their consumers</i>		



Company Name	<b>Powerco Limited</b>
For Year Ended	<b>31 March 2023</b>

## SCHEDULE 7: COMPARISON OF FORECASTS TO ACTUAL EXPENDITURE

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

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

sch ref

7	<b>7(i): Revenue</b>	Target (\$000) <sup>1</sup>	Actual (\$000)	% variance
8	Line charge revenue	392,725	390,730	(1%)
9	<b>7(ii): Expenditure on Assets</b>	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	<b>Total reliability, safety and environment</b>	14,152	12,882	(9%)
19	<b>Expenditure on network assets</b>	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	<b>7(iii): Operational Expenditure</b>			
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	<b>Network opex</b>	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	<b>Non-network opex</b>	56,492	59,351	5%
31	<b>Operational expenditure</b>	101,210	111,324	10%
32	<b>7(iv): Subcomponents of Expenditure on Assets (where known)</b>			
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	<b>7(v): Subcomponents of Operational Expenditure (where known)</b>			
38	Energy efficiency and demand side management, reduction of energy losses	–	250	–
39	Direct billing	–	–	–
40	Research and development	–	16	–
41	Insurance	–	1,770	–
42				

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

2 From the CY+1 nominal dollar expenditure forecasts disclosed in accordance with clause 2.6.6 for the forecast period starting at the beginning of the

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

**SCHEDULE 8: REPORT ON BILLED QUANTITIES AND LINE CHARGE REVENUES**

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

sch ref

**8(i): Billed Quantities by Price Component**

Consumer group name or price category code	Consumer type or types (eg, residential, commercial etc.)	Standard or non-standard consumer group (specify)	Average no. of ICPs in disclosure year	Energy delivered to ICPs in disclosure year (MWh)	Unit charging basis (eg, days, kW of demand, kVA of capacity, etc.)	Price component	Billed quantities by price component											
							Fixed ICP Days	Fixed kVA of Capacity	Variable (Anytime) kWh	Variable (Peak) kWh	Variable (Off-Peak) kWh	Demand kW of AMD	Demand kW of OPD	Power Factor kVArh	Fixed Fixture Count Days			
Unmetered/Base Power	Streetlights/Unmetered	Standard	571	7,619			-	-	7,619,447	-	-	-	-	-	-	-	-	9,413,259
Small	Residential/Small Commercial	Standard	353,633	2,768,245			124,825,430	-	569,567,798	692,474,687	1,638,143,122	3,921,700	-	-	-	-	-	-
Medium	Commercial	Standard	1,750	264,219			621,036	-	244,413,392	5,794,156	14,326,940	30,521	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 additional consumer groups or price category codes as necessary																		
Standard consumer totals			355,954	3,040,083			125,446,466	-	821,600,636	698,268,843	1,652,470,062	3,952,222	14,798	41,072	-	-	-	9,413,259
Non-standard consumer totals			689	1,920,368			241,204	-	1,711,804,057	-	-	-	-	-	211,738	-	-	-
Total for all consumers			356,643	4,960,452			125,687,670	-	2,533,404,693	698,268,843	1,652,470,062	3,952,222	14,798	252,809	-	-	-	9,413,259

columns for additional billed quantities by price component as necessary

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

Consumer group name or price category code	Consumer type or types (eg, residential, commercial etc.)	Standard or non-standard consumer group (specify)	Total line charge revenue in disclosure year	Notional revenue foregone from posted discounts (if applicable)	Total distribution line charge revenue	Total transmission line charge revenue (if available)	Rate (eg, \$ per day, \$ per kWh, etc.)	Price component	Line charge revenues (\$000) by price component									
									Fixed ICP Days	Fixed kVA of Capacity	Variable (Anytime) kWh	Variable (Peak) kWh	Variable (Off-Peak) kWh	Demand kW of AMD	Demand kW of OPD	Power Factor kVArh	Fixed Fixture Count Days	
Unmetered/Base Power	Streetlights/Unmetered	Standard	\$1,975	-	\$1,362	\$612			-	-	\$294	-	-	-	-	-	-	\$1,681
Small	Residential/Small Commercial	Standard	\$293,890	-	\$218,096	\$75,794			\$51,716	-	\$39,490	\$95,935	\$106,749	-	-	-	-	-
Medium	Commercial	Standard	\$24,899	-	\$18,766	\$6,134			\$7,702	-	\$10,951	-	-	\$4,091	\$1,868	\$288	-	-
Large	Large Commercial/Industrial	Non-standard	\$30,105	-	\$20,684	\$9,421			\$29,297	-	-	-	-	-	-	\$808	-	-
Large	XLarge Commercial/Industrial	Non-standard	\$39,861	-	\$21,455	\$18,406			\$39,186	-	-	-	-	-	-	\$674	-	-
Add extra rows for additional consumer groups or price category codes as necessary																		
Standard consumer totals			\$320,764	-	\$238,224	\$82,540			\$59,418	-	\$50,734	\$95,935	\$106,749	\$4,091	-	-	-	-
Non-standard consumer totals			\$69,965	-	\$42,139	\$27,827			\$68,483	-	-	-	-	-	-	-	-	-
Total for all consumers			\$390,730	-	\$280,363	\$110,367			\$127,902	-	\$50,734	\$95,935	\$106,749	\$4,091	-	-	-	-

columns for additional line charge revenues by price component as necessary

**8(iii): Number of ICPs directly billed**

Number of directly billed ICPs at year end

Check

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

**SCHEDULE 8: REPORT ON BILLED QUANTITIES AND LINE CHARGE REVENUES**

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

sch ref

**8(i): Billed Quantities by Price Component**

Consumer group name or price category code	Consumer type or types (eg. residential, commercial etc.)	Standard or non-standard consumer group (specify)	Average no. of ICPs in disclosure year	Energy delivered to ICPs in disclosure year (MWh)
E1	Commercial	Standard	185,933	1,496,171
E100	Commercial	Standard	276	93,011
W50	Commercial/Industrial	Non-standard	244	283,488
SPECIAL	Commercial/Industrial	Non-standard	52	376,042
Add extra rows for additional consumer groups or price category codes as necessary				
		Standard consumer totals	186,209	1,589,182
		Non-standard consumer totals	296	659,530
		Total for all consumers	186,505	2,248,713

Price component	Billed quantities by price component								
	Fixed	Fixed	Variable (Anytime)	Variable (Peak)	Variable (Off-Peak)	Demand	Demand	Power Factor	Fixed
	ICP Days	kVA of Capacity	kWh	kWh	kWh	kW of AMD	kW of OPD	kVAh	Fixture Count Days
	65,124,870	-	-	478,890,567	1,139,527,655	3,921,700	-	-	-
	98,795	-	93,011,242	-	-	30,521	14,798	31,294	-
	85,319	-	283,488,228	-	-	-	-	61,353	-
	15,999	-	376,042,086	-	-	-	-	27,864	-
Add extra rows for additional consumer groups or price category codes as necessary									
	65,223,665	-	93,011,242	478,890,567	1,139,527,655	3,952,222	14,798	31,294	-
	101,318	-	659,530,314	-	-	-	-	89,216	-
	65,324,983	-	752,541,556	478,890,567	1,139,527,655	3,952,222	14,798	120,510	-

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

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

Consumer group name or price category code	Consumer type or types (eg. residential, commercial etc.)	Standard or non-standard consumer group (specify)	Total line charge revenue in disclosure year	Notional revenue foregone from posted discounts (if applicable)
E1	Commercial	Standard	\$161,595	-
E100	Commercial	Standard	\$7,512	-
W50	Commercial/Industrial	Non-standard	\$15,938	-
SPECIAL	Commercial/Industrial	Non-standard	\$12,085	-
Add extra rows for additional consumer groups or price category codes as necessary				
		Standard consumer totals	\$169,108	-
		Non-standard consumer totals	\$28,023	-
		Total for all consumers	\$197,130	-

Total distribution line charge revenue	Total transmission line charge revenue (if available)
\$122,331	\$39,265
\$5,645	\$1,868
\$11,042	\$4,896
\$6,709	\$5,376
Add extra rows for additional consumer groups or price category codes as necessary	
\$127,975	\$41,132
\$17,751	\$10,272
\$145,726	\$51,404

Price component	Line charge revenues (\$000) by price component								
	Fixed	Fixed	Variable (Anytime)	Variable (Peak)	Variable (Off-Peak)	Demand	Demand	Power Factor	Fixed
	ICP Days	kVA of Capacity	kWh	kWh	kWh	kW of AMD	kW of OPD	kVAh	Fixture Count Days
	\$15,413	-	-	\$64,379	\$81,804	-	-	-	-
	\$869	-	\$465	-	-	\$4,091	\$1,868	\$219	-
	\$15,509	-	-	-	-	-	-	\$429	-
	\$11,890	-	-	-	-	-	-	\$195	-
Add extra rows for additional consumer groups or price category codes as necessary									
	\$16,282	-	\$465	\$64,379	\$81,804	\$4,091	-	-	-
	\$27,398	-	-	-	-	-	-	-	-
	\$43,680	-	\$465	\$64,379	\$81,804	\$4,091	-	-	-

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

**8(iii): Number of ICPs directly billed**

Number of directly billed ICPs at year end

Check  OK

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

**SCHEDULE 8: REPORT ON BILLED QUANTITIES AND LINE CHARGE REVENUES**

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

sch ref

**8(i): Billed Quantities by Price Component**

Consumer group name or price category code	Consumer type or types (eg, residential, commercial etc.)	Standard or non-standard consumer group (specify)	Average no. of ICPs in disclosure year	Energy delivered to ICPs in disclosure year (MWh)	Unit charging basis (eg, days, kW of demand, kVA of capacity, etc.)	Price component	Billed quantities by price component														
							Fixed ICP Days	Fixed kVA of Capacity	Variable (Anytime) kWh	Variable (Peak) kWh	Variable (Off-Peak) kWh	Demand kW of AMD	Demand kW of OPD	Power Factor kVArh	Fixed Fixture Count Days						
T01, T02, V01, V02	Streetlights/Unmetered	Standard	571	7,619					7,619,447											9,409,001	
V06S	Residential/Small Commercial	Standard	167,700	1,272,074			59,700,560		569,567,798	213,584,121	498,615,467										
T22, T28, V22, V28	Commercial	Standard	1,474	171,208			522,241		151,402,150	5,794,156	14,326,940								9,778		
T50, V40	Large Commercial/Industrial	Non-standard	323	238,478			116,922		238,477,705										54,037		
T60, V60	XLarge Commercial/Industrial	Non-standard	70	1,022,360			22,965		813,796,038										68,485		
Add extra rows for additional consumer groups or price category codes as necessary																					
Standard consumer totals			169,745	1,450,901			60,222,801		728,589,395	219,378,277	512,942,407								9,778	9,409,001	
Non-standard consumer totals			393	1,260,838			139,886		1,052,273,743											122,521	
Total for all consumers			170,138	2,711,739			60,362,687		1,780,863,138	219,378,277	512,942,407								132,299	9,409,001	

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

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

Consumer group name or price category code	Consumer type or types (eg, residential, commercial etc.)	Standard or non-standard consumer group (specify)	Total line charge revenue in disclosure year	Notional revenue foregone from posted discounts (if applicable)	Total distribution line charge revenue	Total transmission line charge revenue (if available)	Price component	Rate (eg, \$ per day, \$ per kWh, etc.)	Line charge revenues (\$000) by price component											
									Fixed ICP Days	Fixed kVA of Capacity	Variable (Anytime) kWh	Variable (Peak) kWh	Variable (Off-Peak) kWh	Demand kW of AMD	Demand kW of OPD	Power Factor kVArh	Fixed Fixture Count Days			
T01, T02, V01, V02	Streetlights/Unmetered	Standard	\$1,968		\$1,356	\$612					\$294									\$1,674
V06S	Residential/Small Commercial	Standard	\$132,295		\$95,765	\$36,530					\$39,490	\$31,556	\$24,946							
T22, T28, V22, V28	Commercial	Standard	\$17,387		\$13,121	\$4,266					\$6,833								\$68	
T50, V40	Large Commercial/Industrial	Non-standard	\$14,167		\$9,642	\$4,525					\$13,788								\$378	
T60, V60	XLarge Commercial/Industrial	Non-standard	\$27,776		\$14,746	\$13,030					\$27,297								\$479	
Add extra rows for additional consumer groups or price category codes as necessary																				
Standard consumer totals			\$151,650		\$110,242	\$41,408					\$43,137	\$50,269	\$31,556	\$24,946					\$68	\$1,674
Non-standard consumer totals			\$41,943		\$24,388	\$17,555					\$41,085								\$858	
Total for all consumers			\$193,593		\$134,629	\$58,963					\$84,222	\$50,269	\$31,556	\$24,946					\$926	\$1,674

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

**8(iii): Number of ICPs directly billed**

Number of directly billed ICPs at year end

Check

Company Name	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.

sch ref

8	Voltage	Asset category	Asset class	Units	Items at start of year (quantity)	Items at end of year (quantity)	Net change	Data accuracy (1-4)
9	All	Overhead Line	Concrete poles / steel structure	No.	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.

sch ref

8	Voltage	Asset category	Asset class	Units	Items at start of year (quantity)	Items at end of year (quantity)	Net change	Data accuracy (1-4)
9	All	Overhead Line	Concrete poles / steel structure	No.	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.

sch ref

8	Voltage	Asset category	Asset class	Units	Items at start of year (quantity)	Items at end of year (quantity)	Net change	Data accuracy (1-4)
9	All	Overhead Line	Concrete poles / steel structure	No.	82,370	82,479	109	4
10	All	Overhead Line	Wood poles	No.	3,730	3,564	(166)	4
11	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
14	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km	157	185	27	3
15	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km	-	-	-	4
16	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressurised)	km	-	-	-	4
17	HV	Subtransmission Cable	Subtransmission UG up to 66kV (PILC)	km	-	-	-	4
18	HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	km	-	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.	67	68	1	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.	17	11	(6)	3
28	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.	288	274	(14)	4
29	HV	Zone substation switchgear	33kV RMU	No.	-	-	-	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.	-	-	-	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	-	-	-	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	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 ref	Disclosure Year (year ended)	Number of assets at disclosure year end by installation date																												No. with age unknown	end of year (quantity)	No. with default dates	accurac y (1-4)	
		1940	1949	1959	1969	1979	1989	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020					2021
8	31 March 2023																																	
9	Voltage																																	
10	All	Overhead Line																																
11	All	Overhead Line																																
12	All	Overhead Line																																
13	HV	Subtransmission Line																																
14	HV	Subtransmission Line																																
15	HV	Subtransmission Cable																																
16	HV	Subtransmission Cable																																
17	HV	Subtransmission Cable																																
18	HV	Subtransmission Cable																																
19	HV	Subtransmission Cable																																
20	HV	Subtransmission Cable																																
21	HV	Subtransmission Cable																																
22	HV	Subtransmission Cable																																
23	HV	Subtransmission Cable																																
24	HV	Zone substation Buildings																																
25	HV	Zone substation Buildings																																
26	HV	Zone substation switchgear																																
27	HV	Zone substation switchgear																																
28	HV	Zone substation switchgear																																
29	HV	Zone substation switchgear																																
30	HV	Zone substation switchgear																																
31	HV	Zone substation switchgear																																
32	HV	Zone substation switchgear																																
33	HV	Zone substation switchgear																																
34	HV	Zone substation switchgear																																
35	HV	Zone Substation Transformer																																
36	HV	Distribution Line																																
37	HV	Distribution Line																																
38	HV	Distribution Line																																
39	HV	Distribution Cable																																
40	HV	Distribution Cable																																
41	HV	Distribution Cable																																
42	HV	Distribution switchgear																																
43	HV	Distribution switchgear																																
44	HV	Distribution switchgear																																
45	HV	Distribution switchgear																																
46	HV	Distribution switchgear																																
47	HV	Distribution Transformer																																
48	HV	Distribution Transformer																																
49	HV	Distribution Transformer																																
50	HV	Distribution Substations																																
51	LV	LV Line																																
52	LV	LV Cable																																
53	LV	LV Street lighting																																
54	LV	Connections																																
55	All	Protection																																
56	All	SCADA and communications																																
57	All	Capacitor Banks																																
58	All	Load Control																																
59	All	Load Control																																
60	All	Civils																																

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**

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

sch ref

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

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.

sch ref

9				
10	<b>Circuit length by operating voltage (at year end)</b>			<b>Total circuit length</b>
11	> 66kV	Overhead (km)	Underground (km)	(km)
12	50kV & 66kV	-	-	-
13	33kV	950	120	1,070
14	SWER (all SWER voltages)	17	-	17
15	22kV (other than SWER)	121	1	122
16	6.6kV to 11kV (inclusive—other than SWER)	9,919	808	10,728
17	Low voltage (< 1kV)	3,498	2,545	6,043
18	<b>Total circuit length (for supply)</b>	<b>14,506</b>	<b>3,475</b>	<b>17,980</b>
19				
20	Dedicated street lighting circuit length (km)	745	642	1,387
21	Circuit in sensitive areas (conservation areas, iwi territory etc) (km)			-
22				
23	<b>Overhead circuit length by terrain (at year end)</b>	<b>Circuit length (km)</b>	<b>(% of total overhead length)</b>	
24	Urban	1,693	12%	
25	Rural	4,085	28%	
26	Remote only	-	-	
27	Rugged only	8,400	58%	
28	Remote and rugged	327	2%	
29	Unallocated overhead lines	-	-	
30	<b>Total overhead length</b>	<b>14,506</b>	<b>100%</b>	
31				
32		<b>Circuit length (km)</b>	<b>(% of total circuit length)</b>	
33	Length of circuit within 10km of coastline or geothermal areas (where known)	5,505	31%	
34		<b>Circuit length (km)</b>	<b>(% of total overhead length)</b>	
35	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.

sch ref

		Overhead (km)	Underground (km)	Total circuit length (km)
9				
10	<b>Circuit length by operating voltage (at year end)</b>			
11	> 66kV	9	3	13
12	50kV & 66kV	163	6	169
13	33kV	378	179	558
14	SWER (all SWER voltages)	68	–	68
15	22kV (other than SWER)	–	–	–
16	6.6kV to 11kV (inclusive—other than SWER)	4,601	1,483	6,085
17	Low voltage (< 1kV)	1,975	2,240	4,215
18	<b>Total circuit length (for supply)</b>	<b>7,196</b>	<b>3,911</b>	<b>11,107</b>
19				
20	Dedicated street lighting circuit length (km)	322	1,384	1,706
21	Circuit in sensitive areas (conservation areas, iwi territory etc) (km)			–
22				
23	<b>Overhead circuit length by terrain (at year end)</b>			
24	Urban	956		13%
25	Rural	3,192		44%
26	Remote only	–		–
27	Rugged only	3,048		42%
28	Remote and rugged	–		–
29	Unallocated overhead lines	–		–
30	<b>Total overhead length</b>	<b>7,196</b>		<b>100%</b>
31				
32				
33	Length of circuit within 10km of coastline or geothermal areas (where known)	6,222		56%
34				
35	Overhead circuit requiring vegetation management	7,196		100%

Company Name	<b>Powerco Limited</b>
For Year Ended	<b>31 March 2023</b>

**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.

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

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

**SCHEDULE 9e: REPORT ON NETWORK DEMAND**

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

sch ref

**9e(i): Consumer Connections**

Number of ICPs connected in year by consumer type

Consumer types defined by EDB\*

Residential/Small Commercial
Commercial
Large Commercial/Industrial

Number of connections (ICPs)

4,666
71
23

\* include additional rows if needed

**Connections total**

4,760
-------

Number of ICPs decommissioned in year by consumer type

Consumer types defined by EDB\*

Small
Medium
Large

Number of decommissionings

1,123
15
8

\* include additional rows if needed

**Decommissionings total**

1,146
-------

**Distributed generation**

Number of connections made in year

1,650	connections
-------	-------------

Capacity of distributed generation installed in year

1,123	MVA
-------	-----

**9e(ii): System Demand**

**Maximum coincident system demand**

GXP demand

Demand at time of maximum coincident demand (MW)

860
-----

plus Distributed generation output at HV and above

114
-----

**Maximum coincident system demand**

974
-----

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

-
---

**Demand on system for supply to consumers' connection points**

974
-----

**Electricity volumes carried**

Energy (GWh)

Electricity supplied from GXPs

4,616
-------

less Electricity exports to GXPs

125
-----

plus Electricity supplied from distributed generation

734
-----

less Net electricity supplied to (from) other EDBs

-
---

**Electricity entering system for supply to consumers' connection points**

5,225
-------

less Total energy delivered to ICPs

4,960
-------

**Electricity losses (loss ratio)**

265	5.1%
-----	------

**Load factor**

0.61
------

**9e(iii): Transformer Capacity**

(MVA)

Distribution transformer capacity (EDB owned)

3,546
-------

Distribution transformer capacity (Non-EDB owned, estimated)

170
-----

**Total distribution transformer capacity**

3,716
-------

**Zone substation transformer capacity**

2,418
-------

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

**SCHEDULE 9e: REPORT ON NETWORK DEMAND**

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

sch ref

**9e(i): Consumer Connections**

Number of ICPs connected in year by consumer type

Consumer types defined by EDB\*

Residential/Small Commercial
Commercial
Large Commercial/Industrial

Number of connections (ICPs)

2,027
11
7

\* include additional rows if needed

Connections total

2,045
-------

Number of ICPs decommissioned in year by consumer type

Consumer types defined by EDB\*

Small
Medium
Large

Number of decommissionings

524
2
2

\* include additional rows if needed

Decommissionings total

528
-----

**Distributed generation**

Number of connections made in year

814
-----

connections

Capacity of distributed generation installed in year

6
---

MVA

**9e(ii): System Demand**

**Maximum coincident system demand**

GXP demand

388
-----

plus Distributed generation output at HV and above

74
----

Maximum coincident system demand

462
-----

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

-
---

Demand on system for supply to consumers' connection points

462
-----

**Electricity volumes carried**

Electricity supplied from GXPs

2,098
-------

less Electricity exports to GXPs

7
---

plus Electricity supplied from distributed generation

318
-----

less Net electricity supplied to (from) other EDBs

-
---

Electricity entering system for supply to consumers' connection points

2,409
-------

less Total energy delivered to ICPs

2,249
-------

Electricity losses (loss ratio)

160
-----

6.7%

Load factor

0.60
------

**9e(iii): Transformer Capacity**

Distribution transformer capacity (EDB owned)

1,752
-------

Distribution transformer capacity (Non-EDB owned, estimated)

116
-----

Total distribution transformer capacity

1,869
-------

Zone substation transformer capacity

1,197
-------



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

**SCHEDULE 9e: REPORT ON NETWORK DEMAND**

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

sch ref

**9e(i): Consumer Connections**

Number of ICPs connected in year by consumer type

Consumer types defined by EDB\*

Residential/Small Commercial
Commercial
Large Commercial/Industrial

Number of connections (ICPs)

2,639
60
16

\* include additional rows if needed

Connections total

2,715
-------

Number of ICPs decommissioned in year by consumer type

Consumer types defined by EDB\*

Small
Medium
Large

Number of decommissionings

599
13
6

\* include additional rows if needed

Decommissionings total

618
-----

**Distributed generation**

Number of connections made in year

836	connections
-----	-------------

Capacity of distributed generation installed in year

6	MVA
---	-----

**9e(ii): System Demand**

**Maximum coincident system demand**

GXP demand

Demand at time of maximum coincident demand (MW)

446
-----

plus Distributed generation output at HV and above

72
----

Maximum coincident system demand

518
-----

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

-
---

Demand on system for supply to consumers' connection points

518
-----

**Electricity volumes carried**

Electricity supplied from GXPs

2,518
-------

less Electricity exports to GXPs

118
-----

plus Electricity supplied from distributed generation

416
-----

less Net electricity supplied to (from) other EDBs

-
---

Electricity entering system for supply to consumers' connection points

2,816
-------

less Total energy delivered to ICPs

2,712
-------

Electricity losses (loss ratio)

104	3.7%
-----	------

Load factor

0.62
------

**9e(iii): Transformer Capacity**

Distribution transformer capacity (EDB owned)

(MVA)

1,794
-------

Distribution transformer capacity (Non-EDB owned, estimated)

53
----

Total distribution transformer capacity

1,847
-------

Zone substation transformer capacity

1,221
-------

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

**SCHEDULE 10: REPORT ON NETWORK RELIABILITY**

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

sch ref

8 **10(i): Interruptions**

9 **Interruptions by class**

	Number of interruptions
10 Class A (planned interruptions by Transpower)	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 <b>Total</b>	6,658

21 **Interruption restoration**

	≤3Hrs	>3hrs
22 Class C interruptions restored within	1,940	1,976

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 <b>Total</b>	3.51	564.1

36 **Normalised SAIFI and SAIDI**

	Normalised SAIFI	Normalised SAIDI
37 Classes B & C (interruptions on the network)	2.84	314.68

39 **Transitional SAIDI and SAIDI (previous method)**

Where EDBs do not currently record their SAIFI and SAIDI values using the 'multi-count' approach, they shall continue to record their SAIFI and SAIDI values on the same basis that they employed as at 31 March 2023 as 'Transitional SAIFI' and 'Transitional SAIDI' values, in addition to their SAIFI and SAIDI values (Classes B & C) using the 'multi-count approach'. **This is a transitional reporting requirement that shall be in place for the 2024, 2025, and 2026 disclosure years.**

	SAIFI	SAIDI
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

**SCHEDULE 10: REPORT ON NETWORK RELIABILITY**

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

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

Cause	SAIFI	SAIDI
Lightning	0.09	10.37
Vegetation	0.53	170.77
Adverse weather	0.08	24.20
Adverse environment	0.00	1.44
Third party interference	0.23	28.53
Wildlife	0.21	11.81
Human error	0.07	1.26
Defective equipment	0.93	115.09
Cause unknown	0.33	32.27

**Breakdown of third party interference**

	SAIFI	SAIDI
Dig-in	0.01	0.7
Overhead contact	0.01	0.6
Vandalism	0.00	0.0
Vehicle damage	0.20	26.1
Other	0.01	1.2

**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

**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**

Main equipment involved	Number of Faults	Circuit length (km)	Fault rate (faults per 100km)
Subtransmission lines	194	1,501	12.92
Subtransmission cables	1	308	0.32
Subtransmission other	8		
Distribution lines (excluding LV)	4,885	14,727	33.17
Distribution cables (excluding LV)	125	2,292	5.45
Distribution other (excluding LV)	228		
<b>Total</b>	<b>5,441</b>		

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

**SCHEDULE 10: REPORT ON NETWORK RELIABILITY**

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

sch ref

8

**10(i): Interruptions**

9

**Interruptions by class**

10

Class A (planned interruptions by Transpower)

11

Class B (planned interruptions on the network)

12

Class C (unplanned interruptions on the network)

13

Class D (unplanned interruptions by Transpower)

14

Class E (unplanned interruptions of EDB owned generation)

15

Class F (unplanned interruptions of generation owned by others)

16

Class G (unplanned interruptions caused by another disclosing entity)

17

Class H (planned interruptions caused by another disclosing entity)

18

Class I (interruptions caused by parties not included above)

19

**Total**

20

21

**Interruption restoration**

22

Class C interruptions restored within

23

24

**SAIFI and SAIDI by class**

25

Class A (planned interruptions by Transpower)

26

Class B (planned interruptions on the network)

27

Class C (unplanned interruptions on the network)

28

Class D (unplanned interruptions by Transpower)

29

Class E (unplanned interruptions of EDB owned generation)

30

Class F (unplanned interruptions of generation owned by others)

31

Class G (unplanned interruptions caused by another disclosing entity)

32

Class H (planned interruptions caused by another disclosing entity)

33

Class I (interruptions caused by parties not included above)

34

**Total**

35

36

**Normalised SAIFI and SAIDI**

37

Classes B & C (interruptions on the network)

38

39

**Transitional SAIDI and SAIDI (previous method)**

40

Where EDBs do not currently record their SAIFI and SAIDI values using the 'multi-count' approach, they shall continue to record their SAIFI and SAIDI values on the same basis that they employed as at 31 March 2023 as 'Transitional SAIFI' and 'Transitional SAIDI' values, in addition to their SAIFI and SAIDI values (Classes B & C) using the 'multi-count approach'. **This is a transitional reporting requirement that 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)

43

**Number of interruptions**

3
1,316
2,632
6
–
2
–
–
409
4,368

**≤3Hrs >3hrs**

1,345	1,287
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**SAIFI SAIDI**

0.03	11.06
0.44	105.74
2.69	298.31
0.35	25.32
–	–
0.00	0.11
–	–
–	–
0.11	27.86
3.62	468.4

**Normalised SAIFI Normalised SAIDI**

3.04	336.56
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**SAIFI SAIDI**


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

**SCHEDULE 10: REPORT ON NETWORK RELIABILITY**

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

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

Cause	SAIFI	SAIDI
Lightning	0.12	14.36
Vegetation	0.36	70.83
Adverse weather	0.11	30.76
Adverse environment	0.01	1.48
Third party interference	0.29	24.64
Wildlife	0.31	16.75
Human error	0.08	1.94
Defective equipment	1.08	111.07
Cause unknown	0.33	26.47

**Breakdown of third party interference**

	SAIFI	SAIDI
Dig-in	0.01	0.58
Overhead contact	0.00	0.25
Vandalism	0.00	0.00
Vehicle damage	0.26	22.17
Other	0.02	1.63

**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

**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**

Main equipment involved	Number of Faults	Circuit length (km)	Fault rate (faults per 100km)
Subtransmission lines	153	950	16.10
Subtransmission cables	1	120	0.83
Subtransmission other	4		
Distribution lines (excluding LV)	3,311	10,058	32.92
Distribution cables (excluding LV)	41	809	5.07
Distribution other (excluding LV)	141		
<b>Total</b>	<b>3,651</b>		

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

**SCHEDULE 10: REPORT ON NETWORK RELIABILITY**

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

sch ref

8 **10(i): Interruptions**

9 **Interruptions by class**

	Number of interruptions
10 Class A (planned interruptions by Transpower)	4
11 Class B (planned interruptions on the network)	681
12 Class C (unplanned interruptions on the network)	1,284
13 Class D (unplanned interruptions by Transpower)	3
14 Class E (unplanned interruptions of EDB owned generation)	-
15 Class F (unplanned interruptions of generation owned by others)	-
16 Class G (unplanned interruptions caused by another disclosing entity)	-
17 Class H (planned interruptions caused by another disclosing entity)	-
18 Class I (interruptions caused by parties not included above)	318
19 <b>Total</b>	2,290

21 **Interruption restoration**

	≤3Hrs	>3hrs
22 Class C interruptions restored within	595	689

24 **SAIFI and SAIDI by class**

	SAIFI	SAIDI
25 Class A (planned interruptions by Transpower)	0.20	24.32
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 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)	-	-
33 Class I (interruptions caused by parties not included above)	0.10	29.40
34 <b>Total</b>	3.40	669.0

36 **Normalised SAIFI and SAIDI**

	Normalised SAIFI	Normalised SAIDI
37 Classes B & C (interruptions on the network)	2.54	305.45

39 **Transitional SAIDI and SAIDI (previous method)**

Where EDBs do not currently record their SAIFI and SAIDI values using the 'multi-count' approach, they shall continue to record their SAIFI and SAIDI values on the same basis that they employed as at 31 March 2023 as 'Transitional SAIFI' and 'Transitional SAIDI' values, in addition to their SAIFI and SAIDI values (Classes B & C) using the 'multi-count approach'. This is a transitional reporting requirement that shall be in place for the 2024, 2025, and 2026 disclosure years.

	SAIFI	SAIDI
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	Eastern Region

**SCHEDULE 10: REPORT ON NETWORK RELIABILITY**

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

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

Cause	SAIFI	SAIDI
Lightning	0.05	6.00
Vegetation	0.72	280.26
Adverse weather	0.04	17.01
Adverse environment	0.00	1.39
Third party interference	0.17	32.79
Wildlife	0.09	6.39
Human error	0.05	0.52
Defective equipment	0.76	119.49
Cause unknown	0.33	38.63

**Breakdown of third party interference**

	SAIFI	SAIDI
Dig-in	0.01	0.76
Overhead contact	0.01	0.93
Vandalism	-	-
Vehicle damage	0.14	30.39
Other	0.01	0.70

**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**

Main equipment involved	Number of Faults	Circuit length (km)	Fault rate (faults per 100km)
Subtransmission lines	41	551	7.44
Subtransmission cables	-	188	-
Subtransmission other	4		
Distribution lines (excluding LV)	1,574	4,669	33.71
Distribution cables (excluding LV)	84	1,483	5.66
Distribution other (excluding LV)	87		
<b>Total</b>	<b>1,790</b>		

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 (↑5.83% to 8.88% and ↑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 (↑\$41.1m, 11.7%), higher revaluations (↑\$11.3m, 8.0%), offset by higher operating expenditure (↑\$7.9m, 7.6%), higher depreciation (↑\$10.1m, 10.8%), higher pass-through and recoverable costs (↑\$2.2m, 2.1%), and regulatory tax (↑\$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 (↑\$56.4m, 28.3%), Revaluations (↑\$11.3m, 8.0%) and Depreciation (↑\$10.1m, 10.8%) were higher than 2022. Disposals (↓\$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-in-progress (WIP) balance. At the end of 2023 disclosure period, the Disposal provision was \$21.0m (↓\$20.7m, 49.6%) and the Depreciation provision was \$9.2m (↓\$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.

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

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

#### *Asset allocation (Schedule 5e)*

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

#### **Box 8: Commentary on asset allocation**

\$2,513.5m (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 (↑15.7%) more than the prior year (\$252.1m). This reflects a \$7.4m (↑10.7%) increase in consumer connection, a \$30.1m (↑54.5%) increase in system growth, a \$6.6m (↑306.8%) increase in asset relocations and a \$3.6m (↑38.3%) increase in reliability, safety and environment. These are slightly offset by a \$4.9m (↓4.9%) decrease in asset replacement and renewal and \$3.2m (↓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 (↑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 (↑20.8%), asset replacement and renewal \$3.1m (↑24.6%) and service interruptions and emergencies \$2.1m (↑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 (↑8.5%) above the 2022 Asset Management Plan (AMP) forecast (\$268.8m). This net overspend is the result of a \$24.6m (↑9.6%) overspend on network assets and a \$1.8m (↓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 (↑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 (↑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 (↓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 (↓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 (↑10.0%) above the 2022 Asset Management Plan (AMP) forecast (\$101.2m). Network opex was \$7.3m (↑16.2%) above the forecast, primarily driven by overspend on Service interruptions & Emergencies and asset replacement & renewal, while non-network opex was \$2.9m (↑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 (↑31.5%) 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 (↑52.8%) 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 c\$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 (↓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	<u>Powerco Limited</u>
For Year Ended	<u>31 March 2023</u>

## **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.

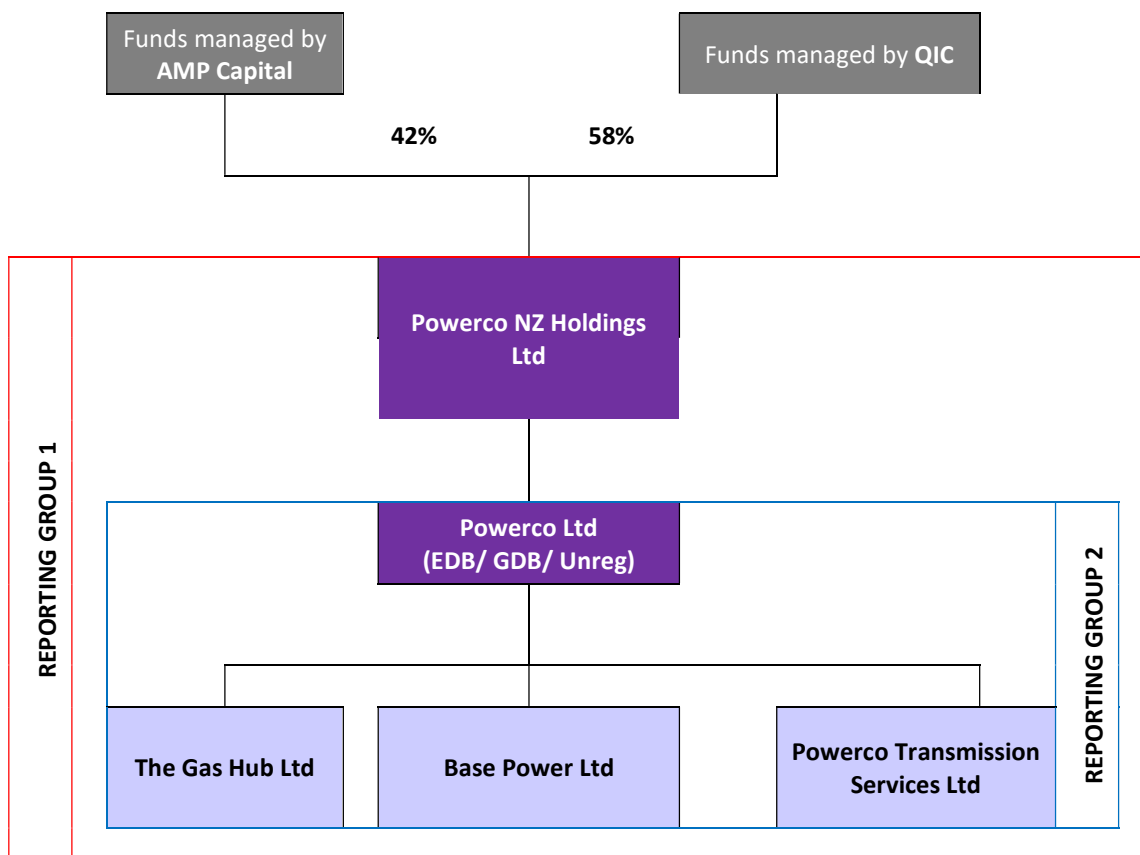
The provision included in 2023 captures new assets included in commissioned WIP this year, and assets that remain in commissioned WIP from previous years.

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.

*Related parties (schedule 5b)*

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



- 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 inferred 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

## Electricity Distribution Services Information Disclosure

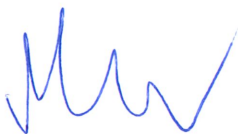
For the year ended 31 March 2023

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

We, Paul Callow and 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-
  - i. 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

Date



Director

22 / 08 / 2023

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 matters 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')	
<p>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.</p> <p>Capital expenditure in the current year was \$239.7 million and commissioned assets into the RAB of \$255.7 million, compared to network operating expenditure of \$52.0 million.</p> <p>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.</p>	<p>Our procedures on capital expenditure and commissioned assets into the RAB included the following:</p> <ul style="list-style-type: none"> <li>Assessing the Company's capitalisation policy was in line with NZ IAS 16 – <i>Property, plant and equipment</i>, NZ IFRS 16 – <i>Leases</i> and NZ IAS 38 – <i>Intangible assets</i>;</li> <li>Evaluating the design and implementation of controls over the classification of network expenditure;</li> <li>Examining a sample of capital expenditure and assets included in the RAB to invoice(s) or other supporting information to determine whether the expenditure met the capitalisation criteria in the Determination; and</li> <li>Comparing the assets commissioned into the RAB to those commissioned for financial statement purposes and investigating any significant variances.</li> </ul>
Valuation of the provision for asset disposals	
<p>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.</p> <p>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.</p> <p>This is a key assurance matter due to the quantum of the balance and the level of judgement required in determining the estimate.</p>	<p>Our procedures on management's estimation of the provision for asset disposals included the following:</p> <ul style="list-style-type: none"> <li>Evaluating the design and implementation of key controls over the disposals provision;</li> <li>Assessing key assumptions against internal information such as disposals and capitalisation history;</li> <li>Assessing changes in assumptions and methodologies from prior periods;</li> <li>Testing the arithmetical accuracy of the calculation; and</li> <li>Evaluating the sensitivity of the calculation to changes in the 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