EDB Information Disclosure Requirements
Information Templates

Schedules 1–10
excluding 5f–5h

Company Name	Powerco Limited
Disclosure Date	31 August 2024
Disclosure Year (year ended)	31 March 2024

Templates for Schedules 1–10 excluding 5f–5h
Prepared 16 February 2024

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Disclosure Template Instructions

This document forms Schedules 1–10 to the Electricity Distribution Information Disclosure (Targeted Review 2024) Amendment Determination 2024 [2024] NZCC 2.
The Schedules take the form of templates 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 2023").

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:P106 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 in rows 10 to 60 of the column "Items at end of year (quantity)" 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 schedule 4, 5b, 5c, 5d, 5e, 6a, 8, 9d, and 9e templates 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 the schedule 5c, 6a, and 9e templates 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.
The schedule 5d and 5e templates 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 L and Q, and between U and AF. If inserting additional columns, headings will need to be copied into the added columns. Additionally, 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 column headings and 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.

Description of Calculation References

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

Worksheet Completion Sequence

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

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

Company Name	**Powerco Limited**
For Year Ended	**31 March 2024**

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 this ID determination. This will include information disclosed in accordance with this and other schedules, and information disclosed under the other requirements of this determination.
This information is part of audited disclosure information (as defined in section 1.4 of this ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

1(i): Expenditure metrics

	Expenditure per GWh energy delivered to ICPs ($/GWh)	Expenditure per average no. of ICPs ($/ICP)	Expenditure per MW maximum coincident system demand ($/MW)	Expenditure per km circuit length ($/km)	Expenditure per MVA of capacity from EDB-owned distribution transformers ($/MVA)
Operational expenditure	24,590	342	127,230	4,213	34,090
Network	10,399	145	53,804	1,782	14,416
Non-network	14,191	197	73,426	2,431	19,674
Expenditure on assets	56,349	783	291,547	9,654	78,117
Network	54,405	756	281,489	9,321	75,423
Non-network	1,944	27	10,058	333	2,695

1(ii): Revenue metrics

	Revenue per GWh energy delivered to ICPs ($/GWh)	Revenue per average no. of ICPs ($/ICP)
Total consumer line charge revenue	85,432	1,188
Standard consumer line charge revenue	111,594	962
Non-standard consumer line charge revenue	43,018	115,159

1(iii): Service intensity measures

Demand density	33	*Maximum coincident system demand per km of circuit length (for supply) (kW/km)*
Volume density	171	*Total energy delivered to ICPs per km of circuit length (for supply) (MWh/km)*
Connection point density	12	*Average number of ICPs per km of circuit length (for supply) (ICPs/km)*
Energy intensity	13,903	*Total energy delivered to ICPs per average number of ICPs (kWh/ICP)*

1(iv): Composition of regulatory income

	($000)	% of revenue
Operational expenditure	123,031	29.88%
Pass-through and recoverable costs excluding financial incentives and wash-ups	98,674	23.96%
Total depreciation	114,919	27.91%
Total revaluations	103,311	25.09%
Regulatory tax allowance	12,374	3.01%
Regulatory profit/(loss) including financial incentives and wash-ups	163,504	39.71%
Total regulatory income	411,771	

1(v): Reliability

Interruption rate	20.21	*Interruptions per 100 circuit km*

Company Name	**Powerco Limited**
For Year Ended	**31 March 2024**

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 this 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 this ID determination), and so is subject to the assurance report required by section 2.8.

sch ref		CY-2	CY-1	Current Year CY
7	**2(i): Return on Investment**			
8				
9	**ROI – comparable to a post tax WACC**	%	%	%
10	Reflecting all revenue earned	8.10%	8.37%	5.75%
11	Excluding revenue earned from financial incentives	8.11%	8.41%	5.95%
12	Excluding revenue earned from financial incentives and wash-ups	8.13%	8.43%	5.95%
13				
14	**Mid-point estimate of post tax WACC**	3.52%	4.88%	6.05%
15	25th percentile estimate	2.84%	4.20%	5.37%
16	75th percentile estimate	4.20%	5.56%	6.73%
17				
18				
19	**ROI – comparable to a vanilla WACC**			
20	Reflecting all revenue earned	8.40%	8.88%	6.45%
21	Excluding revenue earned from financial incentives	8.41%	8.92%	6.65%
22	Excluding revenue earned from financial incentives and wash-ups	8.43%	8.94%	6.65%
23				
24	**WACC rate used to set regulatory price path**	4.57%	4.57%	4.57%
25				
26	**Mid-point estimate of vanilla WACC**	3.82%	5.39%	6.75%
27	25th percentile estimate	3.14%	4.71%	6.07%
28	75th percentile estimate	4.50%	6.07%	7.43%
29				

30	**2(ii): Information Supporting the ROI**		($000)	
31				
32	Total opening RAB value	2,589,537		
33	*plus* Opening deferred tax	(106,605)		
34	**Opening RIV**		2,482,932	
35				
36	**Line charge revenue**		427,436	
37				
38	Expenses cash outflow	221,706		
39	*add* Assets commissioned	239,627		
40	*less* Asset disposals	20,096		
41	*add* Tax payments	(2,828)		
42	*less* Other regulated income	(15,665)		
43	**Mid-year net cash outflows**		454,074	
44				
45	**Term credit spread differential allowance**		2,578	
46				
47	Total closing RAB value	2,796,870		
48	*less* Adjustment resulting from asset allocation	(589)		
49	*less* Lost and found assets adjustment	–		
50	*plus* Closing deferred tax	(121,807)		
51	**Closing RIV**		2,675,653	
52				
53	**ROI – comparable to a vanilla WACC**			6.45%
54				
55	Leverage (%)			42%
56	Cost of debt assumption (%)			5.97%
57	Corporate tax rate (%)			28%
58				
59	**ROI – comparable to a post tax WACC**			5.75%
60				

Company Name	**Powerco Limited**
For Year Ended	**31 March 2024**

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 this 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 this ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

2(iii): Information Supporting the Monthly ROI

Opening RIV — N/A

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

Tax payments — N/A

Term credit spread differential allowance — N/A

Closing RIV — N/A

Monthly ROI – comparable to a vanilla WACC — N/A

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

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

Year-end ROI – comparable to a vanilla WACC — 6.55%

Year-end ROI – comparable to a post tax WACC — 5.85%

** 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

IRIS incentive adjustment	(5,713)	
Purchased assets – avoided transmission charge		
Energy efficiency and demand incentive allowance		
Quality incentive adjustment	(1,339)	
Other financial incentives		
Financial incentives		(7,052)

Impact of financial incentives on ROI — –0.21%

Input methodology claw-back		
CPP application recoverable costs		
Catastrophic event allowance		
Capex wash-up adjustment	–	
Transmission asset wash-up adjustment		
2013–15 NPV wash-up allowance		
Reconsideration event allowance		
Other wash-ups		
Wash-up costs		–

Impact of wash-up costs on ROI — –

Company Name	**Powerco Limited**
For Year Ended	**31 March 2024**

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 this ID determination), and so is subject to the assurance report required by section 2.8.

sch ref			($000)
7	**3(i): Regulatory Profit**		
8		**Income**	
9		Line charge revenue	427,436
10	*plus*	Gains / (losses) on asset disposals	(19,545)
11	*plus*	Other regulated income (other than gains / (losses) on asset disposals)	3,880
12			
13		**Total regulatory income**	411,771
14		**Expenses**	
15	*less*	Operational expenditure	123,031
16			
17	*less*	Pass-through and recoverable costs excluding financial incentives and wash-ups	98,674
18			
19		**Operating surplus / (deficit)**	190,065
20			
21	*less*	Total depreciation	114,919
22			
23	*plus*	Total revaluations	103,311
24			
25		**Regulatory profit / (loss) before tax**	178,457
26			
27	*less*	Term credit spread differential allowance	2,578
28			
29	*less*	Regulatory tax allowance	12,374
30			
31		**Regulatory profit/(loss) including financial incentives and wash-ups**	163,504
32			

			($000)	
33	**3(ii): Pass-through and Recoverable Costs excluding Financial Incentives and Wash-Ups**			
34		**Pass through costs**		
35		Rates	2,495	
36		Commerce Act levies	1,298	
37		Industry levies	1,213	
38		CPP specified pass through costs	–	
39		**Recoverable costs excluding financial incentives and wash-ups**		
40		Electricity lines service charge payable to Transpower	87,215	
41		Transpower new investment contract charges	6,631	
42		System operator services	–	
43		Distributed generation allowance	(302)	
44		Extended reserves allowance	–	
45		Other recoverable costs excluding financial incentives and wash-ups	125	
46		**Pass-through and recoverable costs excluding financial incentives and wash-ups**		98,674
47				

		($000)
48	**3(iv): Merger and Acquisition Expenditure**	
49		
50	Merger and acquisition expenditure	–
51		
52	*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)*	

		($000)
53	**3(v): Other Disclosures**	
54		
55	Self-insurance allowance	–

Company Name	**Powerco Limited**
For Year Ended	**31 March 2024**

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 this 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)

		RAB CY-4 ($000)	RAB CY-3 ($000)	RAB CY-2 ($000)	RAB CY-1 ($000)	RAB CY ($000)
	Total opening RAB value	1,787,100	1,962,910	2,053,806	2,285,796	2,589,537
less	**Total depreciation**	69,808	80,369	93,441	103,563	114,919
plus	**Total revaluations**	44,763	29,063	140,129	151,386	103,311
plus	**Assets commissioned**	208,182	184,197	199,318	255,747	239,627
less	**Asset disposals**	7,414	42,007	14,079	(745)	20,096
plus	**Lost and found assets adjustment**	–	–	–	–	–
plus	**Adjustment resulting from asset allocation**	86	11	62	(574)	(589)
	Total closing RAB value	1,962,910	2,053,806	2,285,796	2,589,537	2,796,870

Company Name	**Powerco Limited**
For Year Ended	**31 March 2024**

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 this ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

4(ii): Unallocated Regulatory Asset Base

		Unallocated RAB * ($000)	Unallocated RAB * ($000)	RAB ($000)	RAB ($000)
29	**Total opening RAB value**		2,606,431		2,589,537
30	*less*				
31	**Total depreciation**		117,039		114,919
32	*plus*				
33	**Total revaluations**		103,805		103,311
34	*plus*				
35	Assets commissioned (other than below)	239,879		238,723	
36	Assets acquired from a regulated supplier	–		–	
37	Assets acquired from a related party	904		904	
38	**Assets commissioned**		240,783		239,627
39	*less*				
40	Asset disposals (other than below)	20,098		20,096	
41	Asset disposals to a regulated supplier	–		–	
42	Asset disposals to a related party	–		–	
43	**Asset disposals**		20,098		20,096
44					
45	*plus* **Lost and found assets adjustment**		–		–
46					
47	*plus* **Adjustment resulting from asset allocation**				(589)
48					
49	**Total closing RAB value**		2,813,882		2,796,870

50 ** 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 2024**

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 this ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

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

54		CPI_4	1,267
55		CPI_4^{-4}	1,218
56		Revaluation rate (%)	4.02%

			Unallocated RAB *		RAB	
58			($000)	($000)	($000)	($000)
60		Total opening RAB value	2,606,431		2,589,537	
61	*less*	Opening value of fully depreciated, disposed and lost assets	26,143		21,532	
63		Total opening RAB value subject to revaluation	2,580,288		2,568,004	
64		**Total revaluations**		103,805		103,311

4(iv): Roll Forward of Works Under Construction

			Unallocated works under construction		Allocated works under construction	
68		**Works under construction—preceding disclosure year**		89,603		88,021
69	*plus*	Capital expenditure	238,887		238,087	
70	*less*	Assets commissioned	240,783		239,627	
71	*plus*	Adjustment resulting from asset allocation			68	
72		**Works under construction - current disclosure year**		87,706		86,549
74		Highest rate of capitalised finance applied				3.83%

Company Name	**Powerco Limited**
For Year Ended	**31 March 2024**

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 this ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

4(v): Regulatory Depreciation

		Unallocated RAB *		RAB	
		($000)	($000)	($000)	($000)
	Depreciation - standard	78,743		78,512	
	Depreciation - no standard life assets	38,295		36,407	
	Depreciation - modified life assets	–		–	
	Depreciation - alternative depreciation in accordance with CPP	–		–	
	Total depreciation		117,039		114,919

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*

4(vii): Disclosure by Asset Category

($000 unless otherwise specified)

		Subtransmission lines	Subtransmission cables	Zone substations	Distribution and LV lines	Distribution and LV cables	Distribution substations and transformers	Distribution switchgear	Other network assets	Non-network assets	Total
	Total opening RAB value	104,143	72,080	207,654	603,370	435,799	320,222	202,309	532,506	111,454	2,589,537
less	Total depreciation	3,552	2,110	10,725	22,798	19,496	13,028	9,297	16,236	17,677	114,919
plus	Total revaluations	4,164	2,899	8,109	24,145	17,489	12,763	7,892	21,985	3,866	103,311
plus	Assets commissioned	12,455	12,726	16,030	47,086	54,823	32,730	21,051	25,569	17,157	239,627
less	Asset disposals	724	9	1,820	5,511	512	2,741	5,798	2,903	77	20,096
plus	Lost and found assets adjustment	–	–	–	–	–	–	–	–	–	–
plus	Adjustment resulting from asset allocation	(87)	–	–	(1,048)	–	–	–	–	546	(589)
plus	Asset category transfers	2,710	2,769	3,488	10,247	11,930	7,117	4,580	(42,840)	(0)	(0)
	Total closing RAB value	119,108	88,355	222,736	655,491	500,032	357,063	220,736	518,080	115,269	2,796,870
	Asset Life										
	Weighted average remaining asset life	42.3	43.8	30.6	41.2	34.6	33.2	29.5	29.4	18.4	(years)
	Weighted average expected total asset life	58.1	53.6	46.3	58.0	49.5	49.4	39.2	32.0	23.6	(years)

Company Name	**Powerco Limited**
For Year Ended	**31 March 2024**

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 this ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

5a(i): Regulatory Tax Allowance

				($000)
8		**Regulatory profit / (loss) before tax**		178,457
9				
10	*plus*	Income not included in regulatory profit / (loss) before tax but taxable	1,510 *	
11		Expenditure or loss in regulatory profit / (loss) before tax but not deductible	(252) *	
12		Amortisation of initial differences in asset values	9,617	
13		Amortisation of revaluations	21,334	
14				32,210
15				
16	*less*	Total revaluations	103,311	
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	180 *	
20		Notional deductible interest	62,982	
21				166,473
22				
23		**Regulatory taxable income**		44,194
24				
25	*less*	Utilised tax losses	–	
26		Regulatory net taxable income		44,194
27				
28		Corporate tax rate (%)	28%	
29		**Regulatory tax allowance**		12,374
30				
31	*	Workings to be provided in Schedule 14		

5a(ii): Disclosure of Permanent Differences

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

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

				($000)
36		Opening unamortised initial differences in asset values	182,732	
37	*less*	Amortisation of initial differences in asset values	9,617	
38	*plus*	Adjustment for unamortised initial differences in assets acquired	–	
39	*less*	Adjustment for unamortised initial differences in assets disposed	2,581	
40		Closing unamortised initial differences in asset values		170,533
41				
42		Opening weighted average remaining useful life of relevant assets (years)		19

5a(iv): Amortisation of Revaluations

				($000)
46		Opening sum of RAB values without revaluations	2,117,854	
47				
48		Adjusted depreciation	93,585	
49		Total depreciation	114,919	
50		Amortisation of revaluations		21,334

5a(v): Reconciliation of Tax Losses

				($000)
54		**Opening tax losses**	–	
55	*plus*	Current period tax losses	–	
56	*less*	Utilised tax losses	–	
57		**Closing tax losses**		–

Company Name	**Powerco Limited**
For Year Ended	**31 March 2024**

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 this ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

5a(vi): Calculation of Deferred Tax Balance

			($000)	($000)
58				
59				
60		**Opening deferred tax**	(106,605)	
61				
62	*plus*	Tax effect of adjusted depreciation	26,204	
63				
64	*less*	Tax effect of tax depreciation	31,154	
65				
66	*plus*	Tax effect of other temporary differences*	1,966	
67				
68	*less*	Tax effect of amortisation of initial differences in asset values	2,693	
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	9,540	
73				
74	*plus*	Deferred tax cost allocation adjustment	16	
75				
76		**Closing deferred tax**		(121,807)

77

5a(vii): Disclosure of Temporary Differences

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

79

80

5a(viii): Regulatory Tax Asset Base Roll-Forward

			($000)	($000)
81				
82				
83		**Opening sum of regulatory tax asset values**	1,463,848	
84	*less*	Tax depreciation	111,266	
85	*plus*	Regulatory tax asset value of assets commissioned	234,788	
86	*less*	Regulatory tax asset value of asset disposals	54,167	
87	*plus*	Lost and found assets adjustment	–	
88	*plus*	Adjustment resulting from asset allocation	(533)	
89	*plus*	Other adjustments to the RAB tax value	(43)	
90		**Closing sum of regulatory tax asset values**		1,532,626

Company Name	**Powerco Limited**
For Year Ended	**31 March 2024**

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

sch ref

5b(i): Summary—Related Party Transactions

		($000)	($000)	
8	**Total regulatory income**		17	
9				
10	**Market value of asset disposals**		–	
11				
12	Service interruptions and emergencies	–		
13	Vegetation management	–		
14	Routine and corrective maintenance and inspection	–		
15	Asset replacement and renewal (opex)	–		
16	**Network opex**		–	
17	Business support	–		
18	System operations and network support - other	–		
19	Non-network solutions provided by a related party or third party (Not Required before DY2025)	–		*Not Required before DY2025*
20	**Operational expenditure**		–	
21	Consumer connection	–		
22	System growth	–		
23	Asset replacement and renewal (capex)	904		
24	Asset relocations	–		
25	Quality of supply	–		
26	Legislative and regulatory	–		
27	Other reliability, safety and environment	–		
28	**Expenditure on non-network assets**		–	
29	**Expenditure on assets**		904	
30	Cost of financing		–	
31	Value of capital contributions		–	
32	Value of vested assets		–	
33	**Capital Expenditure**		904	
34	**Total expenditure**		904	
35				
36	**Other related party transactions**		–	

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

38	Name of related party	Nature of opex or capex service provided	Total value of transactions ($000)
39	Base Power Limited	Asset replacement and renewal (capex)	904
40			
41			
42			
43			
44			
45			
46			
47			
48			
49			
50			
51			
52			
53			
54	**Total value of related party transactions**		904

55 ** include additional rows if needed*

Company Name	**Powerco Limited**
For Year Ended	**31 March 2024**

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 this ID determination), and so is subject to the assurance report required by section 2.8.

sch ref			
7			
8	**5c(i): Qualifying Debt (may be Commission only)**		
30			
31	**5c(ii): Attribution of Term Credit Spread Differential**		
32			
33	**Gross term credit spread differential**		5,343
34			
35	Total book value of interest bearing debt	2,344,187	
36	Leverage	42%	
37	Average opening and closing RAB values	2,693,204	
38	**Attribution Rate (%)**		48%
39			
40	**Term credit spread differential allowance**		2,578

Company Name	**Powerco Limited**
For Year Ended	**31 March 2024**

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 this ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

5d(i): Operating Cost Allocations

		Value allocated ($000s)			
	Arm's length deduction	distribution services	distribution services	Total	OVABAA allocation increase ($000s)
Service interruptions and emergencies					
Directly attributable		8,420			
Not directly attributable	–	–	–	–	–
Total attributable to regulated service		8,420			
Vegetation management					
Directly attributable		11,242			
Not directly attributable	–	–	–	–	–
Total attributable to regulated service		11,242			
Routine and corrective maintenance and inspection					
Directly attributable		19,185			
Not directly attributable	–	–	–	–	–
Total attributable to regulated service		19,185			
Asset replacement and renewal					
Directly attributable		13,182			
Not directly attributable	–	–	–	–	–
Total attributable to regulated service		13,182			
Non-network solutions provided by a related party or third party *Not required before DY2025*					
Directly attributable					
Not directly attributable				–	
Total attributable to regulated service		–			
System operations and network support					
Directly attributable		23,147			
Not directly attributable	–	2,050	652	2,702	–
Total attributable to regulated service		25,198			
Business support					
Directly attributable		1,314			
Not directly attributable	–	44,492	7,296	51,788	–
Total attributable to regulated service		45,805			
Operating costs directly attributable		76,489			
Operating costs not directly attributable	–	46,542	7,948	54,490	–
Operational expenditure		123,031			

Company Name	**Powerco Limited**
For Year Ended	**31 March 2024**

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 this ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

5d(ii): Other Cost Allocations

		($000)
	Pass through and recoverable costs	
	Pass through costs	
	Directly attributable	4,769
	Not directly attributable	236
	Total attributable to regulated service	5,005
	Recoverable costs	
	Directly attributable	93,544
	Not directly attributable	125
	Total attributable to regulated service	93,669

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

			($000)	
	Change in cost allocation 1		**CY-1**	**Current Year (CY)**
	Cost category			
	Original allocator or line items			
	New allocator or line items			
	Rationale for change			
	Change in cost allocation 2			
	Cost category			
	Original allocator or line items			
	New allocator or line items			
	Rationale for change			
	Change in cost allocation 3			
	Cost category			
	Original allocator or line items			
	New allocator or line items			
	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 2024**

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 this ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

5e(i): Regulated Service Asset Values

		($000s) Electricity distribution services
	Subtransmission lines	
	Directly attributable	119,108
	Not directly attributable	–
	Total attributable to regulated service	119,108
	Subtransmission cables	
	Directly attributable	88,355
	Not directly attributable	–
	Total attributable to regulated service	88,355
	Zone substations	
	Directly attributable	222,736
	Not directly attributable	–
	Total attributable to regulated service	222,736
	Distribution and LV lines	
	Directly attributable	655,491
	Not directly attributable	–
	Total attributable to regulated service	655,491
	Distribution and LV cables	
	Directly attributable	500,032
	Not directly attributable	–
	Total attributable to regulated service	500,032
	Distribution substations and transformers	
	Directly attributable	357,063
	Not directly attributable	–
	Total attributable to regulated service	357,063
	Distribution switchgear	
	Directly attributable	220,736
	Not directly attributable	–
	Total attributable to regulated service	220,736
	Other network assets	
	Directly attributable	518,080
	Not directly attributable	–
	Total attributable to regulated service	518,080
	Non-network assets	
	Directly attributable	41,838
	Not directly attributable	73,430
	Total attributable to regulated service	115,269
	Regulated service asset value directly attributable	2,723,440
	Regulated service asset value not directly attributable	73,430
	Total closing RAB value	2,796,870

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

($000)

			CY-1	Current Year (CY)
	Change in asset value allocation 1			
	Asset category			
	Original allocator or line items			
	New allocator or line items			
	Rationale for change			
	Change in asset value allocation 2			
	Asset category			
	Original allocator or line items			
	New allocator or line items			
	Rationale for change			
	Change in asset value allocation 3			
	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 2024**

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 this ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

6a(i): Expenditure on Assets

			($000)	($000)
8		Consumer connection		78,372
9		System growth		59,708
10		Asset replacement and renewal		110,393
11		Asset relocations		5,424
12		Reliability, safety and environment:		
13		Quality of supply	12,809	
14		Legislative and regulatory	617	
15		Other reliability, safety and environment	4,877	
16		**Total reliability, safety and environment**		18,303
17		**Expenditure on network assets**		272,200
18		Expenditure on non-network assets		9,726
19				
20		**Expenditure on assets**		281,926
21	*plus*	Cost of financing		2,172
22	*less*	Value of capital contributions		46,010
23	*plus*	Value of vested assets		–
24				
25		**Capital expenditure**		238,087

6a(ii): Subcomponents of Expenditure on Assets (where known)

			($000)
28		Energy efficiency and demand side management, reduction of energy losses	378
29		Overhead to underground conversion	512
30		Research and development	739

6a(iii): Consumer Connection

		*Consumer types defined by EDB**	($000)	($000)
34		Small	46,024	
35		Commercial	21,992	
36		Industrial	10,356	
37		** include additional rows if needed*		
38		**Consumer connection expenditure**		78,372
39				
40	*less*	Capital contributions funding consumer connection expenditure	43,818	
41		**Consumer connection less capital contributions**		34,554

6a(iv): System Growth and Asset Replacement and Renewal

			System Growth ($000)	Replacement and Renewal ($000)
46		Subtransmission	4,835	10,556
47		Zone substations	26,008	10,563
48		Distribution and LV lines	2,283	55,355
49		Distribution and LV cables	13,762	11,083
50		Distribution substations and transformers	2,967	12,394
51		Distribution switchgear	1,230	7,786
52		Other network assets	8,623	2,655
53		**System growth and asset replacement and renewal expenditure**	59,708	110,393
54	*less*	Capital contributions funding system growth and asset replacement and renewal	–	46
55		**System growth and asset replacement and renewal less capital contributions**	59,708	110,347

6a(v): Asset Relocations

			($000)	($000)
58		*Project or programme**		
59		NZTA Northern Link Relocations	1,608	
60		Mangorei Rd roundabout UG	736	
61		Tauranga City Precinct Development	1,446	
62		road works (SH2).	731	
63		LV OH conversion to UG request for new subdivision	238	
64		Install new HV cable for additonal culvert request from TCC	280	
65		** include additional rows if needed*		
66		All other projects or programmes - asset relocations	385	
67		**Asset relocations expenditure**		5,424
68	*less*	Capital contributions funding asset relocations	2,096	
69		**Asset relocations less capital contributions**		3,328
70				

Company Name	**Powerco Limited**
For Year Ended	**31 March 2024**

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 this ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

6a(vi): Quality of Supply

		($000)	($000)
	*Project or programme**		
	Automation Projects	3,400	
	Generation Projects	3,566	
	Remote Control Projects	3,600	
	** include additional rows if needed*		
	All other projects programmes - quality of supply	2,242	
	Quality of supply expenditure		12,809
less	Capital contributions funding quality of supply	–	
	Quality of supply less capital contributions		12,809

6a(vii): Legislative and Regulatory

		($000)	($000)
	*Project or programme**		
	AUFLS Renewals/Upgrade	617	
	** include additional rows if needed*		
	All other projects or programmes - legislative and regulatory	–	
	Legislative and regulatory expenditure		617
less	Capital contributions funding legislative and regulatory	–	
	Legislative and regulatory less capital contributions		617

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

		($000)	($000)
	*Project or programme**		
	OHFSP Valley	617	
	Oakura Sub - new power transformer bay	559	
	Gladstone ZS Bund	346	
	Line Differential Protection and Critical Comms	327	
	Seismic Upgrade	401	
	Te Puke & Atuaroa Sub high capacity communications	299	
	Power Pilot Rollout	292	
	East PTN PH3	231	
	Rangiuru Road Network Realignment	161	
	Poletop Photography	1,215	
	** include additional rows if needed*		
	All other projects or programmes - other reliability, safety and environment	427	
	Other reliability, safety and environment expenditure		4,877
less	Capital contributions funding other reliability, safety and environment	50	
	Other reliability, safety and environment less capital contributions		4,826

6a(ix): Non-Network Assets

Routine expenditure

		($000)	($000)
	*Project or programme**		
	Enterprise Asset Management System	2,313	
	IT Renewal	629	
	Customer Transformation	1,190	
	Finance System Improvements	1,026	
	NP Office Alterations	552	
	Facilities	1,252	
	Leases	2,624	
	** include additional rows if needed*		
	All other projects or programmes - routine expenditure	(486)	
	Routine expenditure		9,100

Atypical expenditure

		($000)	($000)
	*Project or programme**		
	Enterprise Asset Management System	567	
	** include additional rows if needed*		
	All other projects or programmes - atypical expenditure	59	
	Atypical expenditure		626

	Expenditure on non-network assets	9,726

Company Name	**Powerco Limited**
For Year Ended	**31 March 2024**

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 this ID determination), and so is subject to the assurance report required by section 2.8.

sch ref			($000)	($000)
7	**6b(i): Operational Expenditure** *Required for DY2024 and DY2025 only*			
8	Service interruptions and emergencies		8,420	
9	Vegetation management		11,242	
10	Routine and corrective maintenance and inspection		19,185	
11	Asset replacement and renewal		13,182	
12	**Network opex**			52,028
13	Non-network solutions provided by a related party or third party	*Required for DY2025 only*	–	
14	System operations and network support		25,198	
15	Business support		45,805	
16	**Non-network opex**			71,003
17				
18	**Operational expenditure**			123,031
40	**6b(ii): Subcomponents of Operational Expenditure (where known)**			
41	Energy efficiency and demand side management, reduction of energy losses			287
42	Direct billing*			–
43	Research and development			85
44	Insurance			1,926
45	** Direct billing expenditure by suppliers that directly bill the majority of their consumers*			

Company Name	**Powerco Limited**
For Year Ended	**31 March 2024**

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 this ID determination), and so is subject to the assurance report required by section 2.8. For the purpose of this audit, target revenue and forecast expenditures only need to be verified back to previous disclosures.

sch ref				
7	**7(i): Revenue**	**Target ($000) [1]**	**Actual ($000)**	**% variance**
8	Line charge revenue	427,278	427,436	0%
9	**7(ii): Expenditure on Assets**	**Forecast ($000) [2]**	**Actual ($000)**	**% variance**
10	Consumer connection	83,374	78,372	(6%)
11	System growth	87,420	59,708	(32%)
12	Asset replacement and renewal	94,359	110,393	17%
13	Asset relocations	6,541	5,424	(17%)
14	Reliability, safety and environment:			
15	Quality of supply	10,338	12,809	24%
16	Legislative and regulatory	2,873	617	(79%)
17	Other reliability, safety and environment	5,352	4,877	(9%)
18	**Total reliability, safety and environment**	18,563	18,303	(1%)
19	**Expenditure on network assets**	290,257	272,200	(6%)
20	Expenditure on non-network assets	17,225	9,726	(44%)
21	Expenditure on assets	307,482	281,926	(8%)
22	**7(iii): Operational Expenditure**			
23	Service interruptions and emergencies	8,132	8,420	4%
24	Vegetation management	13,234	11,242	(15%)
25	Routine and corrective maintenance and inspection	19,835	19,185	(3%)
26	Asset replacement and renewal	11,437	13,182	15%
27	**Network opex**	52,638	52,028	(1%)
28	Non-network solutions provided by a related party or third party *Not Required before DY2025*		–	–
29	System operations and network support	22,183	25,198	14%
30	Business support	45,971	45,805	(0%)
31	**Non-network opex**	68,154	71,003	4%
32	**Operational expenditure**	120,792	123,031	2%
33	**7(iv): Subcomponents of Expenditure on Assets (where known)**			
34	Energy efficiency and demand side management, reduction of energy losses	–	378	–
35	Overhead to underground conversion	–	512	–
36	Research and development	–	739	–
37				
38	**7(v): Subcomponents of Operational Expenditure (where known)**			
39	Energy efficiency and demand side management, reduction of energy losses	–	287	–
40	Direct billing	–	–	–
41	Research and development	–	85	–
42	Insurance	–	1,926	–
43				

44 *1 From the nominal dollar target revenue for the disclosure year disclosed under clause 2.4.3(3) of this determination*

45 *2 From the CY+1 nominal dollar expenditure forecasts disclosed in accordance with clause 2.6.6 for the forecast period starting at the beginning of the disclosure year (the second to last disclosure of Schedules 11a and 11b)*

Company Name	**Powerco Limited**
For Year Ended	**31 March 2024**
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.
EDBs should feel free to adjust the page break of this schedule to assist with readibility if needed.

sch ref

8(i): Billed Quantities by Price Component

Billed quantities by price component — *Not Required after DY2024*

Consumer group name or price category code	Standardised connection types	Standard or non-standard consumer group (specify)	Average no. of ICPs in disclosure year	Energy delivered to ICPs in disclosure year (MWh)	Price component	Fixed	Variable (Anytime)	Variable (Peak)	Variable (Off-Peak)	Generation	Demand	Power Factor	Fixed
					Unit charging basis (eg, days, kW of demand, kVA of capacity, etc.)	Days	kWh	kWh	kWh	kWh	kW of AMD	kVArh	Fixture Count Days
Unmetered/Base Power	Streetlights/Unmetered	Standard	596	7,346		179,528	7,346,328	–	–	–	–	–	9,429,145
Small	Residential/Small Commercial	Standard	356,720	2,817,661		126,184,425	489,015,126	723,692,940	1,742,536,261	14,439,117	–	–	–
Medium	Commercial	Standard	1,829	269,500		652,597	214,630,971	15,883,594	38,985,767	656,872	–	9,542	–
Large	Large Commercial/Industrial	Non-standard	583	510,890		207,415	510,890,301	–	–	–	–	58,974	–
Large	XLarge Commercial/Industrial	Non-standard	130	1,397,828		41,396	1,182,013,897	–	–	–	–	47,517	–
Add extra rows for additional consumer groups or price category codes as necessary													
		Standard consumer totals	359,144	3,094,507		127,016,550	710,992,425	739,576,534	1,781,522,028	15,095,989	–	9,542	9,429,145
		Non-standard consumer totals	713	1,908,718		248,811	1,692,904,198	–	–	–	–	106,491	–
		Total for all consumers	359,857	5,003,226		127,265,361	2,403,896,623	739,576,534	1,781,522,028	15,095,989	–	116,033	9,429,145

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

Line charge revenues ($000) by price component — *Not Required after DY2024*

Consumer group name or price category code	Standardised connection types	Standard or non-standard consumer group (specify)	Total line charge revenue in disclosure year	Total distribution line charge revenue	Total transmission line charge revenue	Price component	Fixed	Variable (Anytime)	Variable (Peak)	Variable (Off-Peak)	Generation	Demand	Power Factor	Fixed
				Not Required after DY2024		Rate (eg, $ per day, $ per kWh, etc.)	Days	kWh	kWh	kWh	kWh	kW of AMD	kVArh	Fixture Count Days
Unmetered/Base Power	Streetlights/Unmetered	Standard	$2,211	1,909	303		1,942	–	–	–	–	–	–	269
Small	Residential/Small Commercial	Standard	$316,628	258,122	58,506		73,833	30,891	99,591	112,305	–	–	–	8
Medium	Commercial	Standard	$26,488	21,280	5,208		13,746	9,026	1,936	1,491	–	–	288	–
Large	Large Commercial/Industrial	Non-standard	$35,122	24,901	10,221		34,284	–	–	–	–	–	838	–
Large	XLarge Commercial/Industrial	Non-standard	$46,987	22,962	24,024		46,475	–	–	–	–	–	512	–
Add extra rows for additional consumer groups or price category codes as necessary														
		Standard consumer totals	$345,327	$281,311	$64,016		$89,521	$39,917	$101,528	$113,796	–	–	$288	$277
		Non-standard consumer totals	$82,109	$47,864	$34,245		$80,759	–	–	–	–	–	$1,349	–
		Total for all consumers	$427,436	$329,174	$98,261		$170,281	$39,917	$101,528	$113,796	–	–	$1,638	$277

8(iii): Number of ICPs directly billed

Number of directly billed ICPs at year end	21	**Check** OK

Company Name	**Powerco Limited**
For Year Ended	**31 March 2024**
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.
EDBs should feel free to adjust the page break of this schedule to assist with readibility if needed.

sch ref

8(i): Billed Quantities by Price Component

Billed quantities by price component — *Not Required after DY2024*

Consumer group name or price category code	Standardised connection types	Standard or non-standard consumer group (specify)	Average no. of ICPs in disclosure year	Energy delivered to ICPs in disclosure year (MWh)	Price component	Fixed	Variable (Anytime)	Variable (Peak)	Variable (Off-Peak)	Generation	Demand	Power Factor	Fixed
					Unit charging basis (eg, days, kW of demand, kVA of capacity, etc.)	Days	kWh	kWh	kWh	kWh	kW of AMD	kVArh	Fixture Count Days
Basepower	Residential	Standard	–	–		–	–	–	–	–	–	–	4,392
E1	Residential	Standard	187,383	1,522,539		65,776,372	–	486,024,976	1,174,097,220	–	–	–	–
E100	Commercial	Standard	294	95,741		106,633	95,740,607	–	–	–	–	–	–
W50	Industrial	Non-standard	247	274,011		89,152	274,011,384	–	–	–	–	–	–
SPECIAL	Industrial	Non-standard	59	378,342		16,562	378,341,891	–	–	–	–	–	–
Add extra rows for additional consumer groups or price category codes as necessary													
		Standard consumer totals	187,677	1,618,279		65,883,005	95,740,607	486,024,976	1,174,097,220	–	–	–	4,392
		Non-standard consumer totals	305	652,353		105,713	652,353,275	–	–	–	–	–	–
		Total for all consumers	187,982	2,270,633		65,988,718	748,093,882	486,024,976	1,174,097,220	–	–	–	4,392

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

Line charge revenues ($000) by price component — *Not Required after DY2024*

Consumer group name or price category code	Standardised connection types	Standard or non-standard consumer group (specify)	Total line charge revenue in disclosure year	Total distribution line charge revenue	Total transmission line charge revenue	Price component	Fixed	Variable (Anytime)	Variable (Peak)	Variable (Off-Peak)	Generation	Demand	Power Factor	Fixed
				Not Required after DY2024		Rate (eg, $ per day, $ per kWh, etc.)	Days	kWh	kWh	kWh	kWh	kW of AMD	kVArh	Fixture Count Days
Basepower	Residential	Standard	$7	7	–		–	–	–	–	–	–	–	7
E1	Residential	Standard	$179,059	146,000	33,060		25,506	–	67,886	85,667	–	–	–	–
E100	Commercial	Standard	$7,803	6,115	1,689		5,935	1,647	–	–	–	–	222	–
W50	Industrial	Non-standard	$18,425	13,097	5,328		18,000	–	–	–	–	–	425	–
SPECIAL	Industrial	Non-standard	$14,513	7,435	7,078		14,334	–	–	–	–	–	179	–
Add extra rows for additional consumer groups or price category codes as necessary														
		Standard consumer totals	$186,869	$152,121	$34,748		$31,441	$1,647	$67,886	$85,667	–	–	$222	$7
		Non-standard consumer totals	$32,938	$20,532	$12,406		$32,334	–	–	–	–	–	$604	–
		Total for all consumers	$219,807	$172,653	$47,155		$63,775	$1,647	$67,886	$85,667	–	–	$825	$7

8(iii): Number of ICPs directly billed

Number of directly billed ICPs at year end	8	**Check**	**OK**

Company Name	**Powerco Limited**
For Year Ended	**31 March 2024**
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.
EDBs should feel free to adjust the page break of this schedule to assist with readibility if needed.

sch ref

8(i): Billed Quantities by Price Component

Billed quantities by price component — *Not Required after DY2024*

Consumer group name or price category code	Standardised connection types	Standard or non-standard consumer group (specify)	Average no. of ICPs in disclosure year	Energy delivered to ICPs in disclosure year (MWh)	Price component	Fixed	Variable (Anytime)	Variable (Peak)	Variable (Off-Peak)	Generation	Demand	Power Factor	Fixed
					Unit charging basis (eg, days, kW of demand, kVA of capacity, etc.)	Days	kWh	kWh	kWh	kWh	kW of AMD	kVArh	Fixture Count Days
T01, T02, V01, V02	Streetlights/Unmetered	Standard	596	7,346		179,528	7,346,328	–	–	–	–	–	9,424,753
T05S, T06S, V05S, V06S	Residential/Small Commercial	Standard	169,337	1,295,122		60,408,053	489,015,126	237,667,964	568,439,041	14,439,117	–	–	–
T22, T28, V22, V28	Commercial	Standard	1,536	173,760		545,964	118,890,364	15,883,594	38,985,767	656,872	–	9,542	–
T50, V40	Large Commercial/Industrial	Non-standard	337	236,879		118,263	236,878,917	–	–	–	–	58,974	–
T60, V60	XLarge Commercial/Industrial	Non-standard	72	1,019,486		24,834	803,672,006	–	–	–	–	47,517	–
Add extra rows for additional consumer groups or price category codes as necessary													
		Standard consumer totals	171,468	1,476,228		61,133,545	615,251,818	253,551,557	607,424,809			9,542	9,424,753
		Non-standard consumer totals	408	1,256,365		143,098	1,040,550,923	–	–			106,491	–
		Total for all consumers	171,876	2,732,593		61,276,643	1,655,802,740	253,551,557	607,424,809			116,033	9,424,753

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

Line charge revenues ($000) by price component — *Not Required after DY2024*

Consumer group name or price category code	Standardised connection types	Standard or non-standard consumer group (specify)	Total line charge revenue in disclosure year	Total distribution line charge revenue	transmission line charge revenue	Price component	Fixed	Variable (Anytime)	Variable (Peak)	Variable (Off-Peak)	Generation	Demand	Power Factor	Fixed
				Not Required after DY2024		Rate (eg, $ per day, $ per kWh, etc.)	Days	kWh	kWh	kWh	kWh	kW of AMD	kVArh	Fixture Count Days
T01, T02, V01, V02	Streetlights/Unmetered	Standard	$2,204	1,902	303		1,942	–	–	–	–	–	–	262
T05S, T06S, V05S, V06S	Residential/Small Commercial	Standard	$137,569	112,123	25,446		48,328	30,891	31,705	26,637	–	–	–	8
T22, T28, V22, V28	Commercial	Standard	$18,685	15,166	3,519		7,811	7,380	1,936	1,491	–	–	67	–
T50, V40	Large Commercial/Industrial	Non-standard	$16,697	11,805	4,892		16,284	–	–	–	–	–	413	–
T60, V60	XLarge Commercial/Industrial	Non-standard	$32,474	15,527	16,947		32,142	–	–	–	–	–	333	–
Add extra rows for additional consumer groups or price category codes as necessary														
		Standard consumer totals	$158,458	$129,190	$29,268		$58,080	$38,270	$33,642	$28,128			$67	$270
		Non-standard consumer totals	$49,171	$27,332	$21,839		$48,426	–	–	–			$745	–
		Total for all consumers	$207,629	$156,522	$51,107		$106,506	$38,270	$33,642	$28,128			$812	$270

8(iii): Number of ICPs directly billed

Number of directly billed ICPs at year end	13	**Check**	**OK**

Company Name	**Powerco Limited**
For Year Ended	**31 March 2024**
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

9a: Asset Register

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.	232,393	233,770	1,377	4
10	All	Overhead Line	Wood poles	No.	28,865	27,202	(1,663)	4
11	All	Overhead Line	Other pole types	No.	3,666	3,605	(61)	3
12	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	1,492	1,496	5	4
13	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km	9	9	(0)	4
14	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km	297	313	15	4
15	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km	7	7	–	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	0	0	(0)	4
18	HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	km	3	3	(0)	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.	154	160	6	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	17	(1)	4
27	HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No.	37	30	(7)	3
28	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.	800	799	(1)	4
29	HV	Zone substation switchgear	33kV RMU	No.	1	1	–	4
30	HV	Zone substation switchgear	22/33kV CB (Indoor)	No.	205	248	43	3
31	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.	184	194	10	3
32	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.	948	953	5	3
33	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.	34	33	(1)	3
34	HV	Zone Substation Transformer	Zone Substation Transformers	No.	214	212	(2)	4
35	HV	Distribution Line	Distribution OH Open Wire Conductor	km	14,642	14,615	(27)	4
36	HV	Distribution Line	Distribution OH Aerial Cable Conductor	km	–	–	–	4
37	HV	Distribution Line	SWER conductor	km	85	81	(5)	4
38	HV	Distribution Cable	Distribution UG XLPE or PVC	km	2,115	2,146	31	3
39	HV	Distribution Cable	Distribution UG PILC	km	167	165	(1)	3
40	HV	Distribution Cable	Distribution Submarine Cable	km	11	11	–	4
41	HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers	No.	837	891	54	3
42	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.	413	442	29	3
43	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	40,814	41,283	469	3
44	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	1,386	1,082	(304)	4
45	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.	3,231	3,142	(89)	4
46	HV	Distribution Transformer	Pole Mounted Transformer	No.	27,600	27,859	259	3
47	HV	Distribution Transformer	Ground Mounted Transformer	No.	9,485	9,647	162	3
48	HV	Distribution Transformer	Voltage regulators	No.	147	158	11	4
49	HV	Distribution Substations	Ground Mounted Substation Housing	No.	4,067	4,580	513	3
50	LV	LV Line	LV OH Conductor	km	5,473	5,450	(23)	3
51	LV	LV Cable	LV UG Cable	km	4,785	4,906	121	3
52	LV	LV Street lighting	LV OH/UG Streetlight circuit	km	3,093	3,116	23	3
53	LV	Connections	OH/UG consumer service connections	No.	357,865	360,490	2,625	3
54	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.	2,769	2,956	187	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	50	(1)	4
57	All	Load Control	Centralised plant	Lot	36	36	–	4
58	All	Load Control	Relays	No	4,074	4,325	251	2
59	All	Civils	Cable Tunnels	km	–	–	–	4

Company Name	**Powerco Limited**
For Year Ended	**31 March 2024**
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

9a: Asset Register

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.	149,914	150,964	1,050	4
10	All	Overhead Line	Wood poles	No.	25,301	23,765	(1,536)	4
11	All	Overhead Line	Other pole types	No.	1,251	1,184	(67)	3
12	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	950	956	6	4
13	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km	–	–	–	4
14	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km	112	113	0	4
15	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km	7	7	–	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	0	0	(0)	4
18	HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	km	–	–	–	4
19	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Oil pressurised)	km	–	–	–	4
20	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Gas Pressurised)	km	–	–	–	4
21	HV	Subtransmission Cable	Subtransmission UG 110kV+ (PILC)	km	–	–	–	4
22	HV	Subtransmission Cable	Subtransmission submarine cable	km	–	–	–	4
23	HV	Zone substation Buildings	Zone substations up to 66kV	No.	86	86	–	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.	26	20	(6)	3
28	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.	526	528	2	4
29	HV	Zone substation switchgear	33kV RMU	No.	1	1	–	4
30	HV	Zone substation switchgear	22/33kV CB (Indoor)	No.	109	111	2	3
31	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.	112	126	14	3
32	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.	516	521	5	3
33	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.	34	33	(1)	3
34	HV	Zone Substation Transformer	Zone Substation Transformers	No.	127	121	(6)	4
35	HV	Distribution Line	Distribution OH Open Wire Conductor	km	10,040	10,041	1	4
36	HV	Distribution Line	Distribution OH Aerial Cable Conductor	km	–	–	–	4
37	HV	Distribution Line	SWER conductor	km	17	17	(0)	4
38	HV	Distribution Cable	Distribution UG XLPE or PVC	km	738	754	16	3
39	HV	Distribution Cable	Distribution UG PILC	km	72	71	(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.	483	506	23	3
42	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.	256	254	(2)	3
43	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	25,050	25,375	325	3
44	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	681	413	(268)	4
45	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.	1,367	1,191	(176)	4
46	HV	Distribution Transformer	Pole Mounted Transformer	No.	18,625	18,825	200	3
47	HV	Distribution Transformer	Ground Mounted Transformer	No.	3,956	4,028	72	3
48	HV	Distribution Transformer	Voltage regulators	No.	87	92	5	4
49	HV	Distribution Substations	Ground Mounted Substation Housing	No.	1,624	1,668	44	3
50	LV	LV Line	LV OH Conductor	km	3,498	3,484	(14)	3
51	LV	LV Cable	LV UG Cable	km	2,545	2,619	74	3
52	LV	LV Street lighting	LV OH/UG Streetlight circuit	km	1,387	1,392	5	3
53	LV	Connections	OH/UG consumer service connections	No.	187,066	188,349	1,283	3
54	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.	1,377	1,398	21	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	4	(1)	4
57	All	Load Control	Centralised plant	Lot	25	25	–	4
58	All	Load Control	Relays	No	1,758	1,773	15	2
59	All	Civils	Cable Tunnels	km	–	–	–	4

Company Name	**Powerco Limited**
For Year Ended	**31 March 2024**
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

9a: Asset Register

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.	82,479	82,806	327	4
10	All	Overhead Line	Wood poles	No.	3,564	3,437	(127)	4
11	All	Overhead Line	Other pole types	No.	2,415	2,421	6	3
12	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	542	540	(1)	4
13	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km	9	9	(0)	4
14	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km	185	200	15	4
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	(0)	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.	68	74	6	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	17	(1)	4
27	HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No.	11	10	(1)	3
28	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.	274	271	(3)	4
29	HV	Zone substation switchgear	33kV RMU	No.	–	–	–	4
30	HV	Zone substation switchgear	22/33kV CB (Indoor)	No.	96	137	41	3
31	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.	72	68	(4)	3
32	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.	432	432	–	3
33	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.	–	–	–	3
34	HV	Zone Substation Transformer	Zone Substation Transformers	No.	87	91	4	4
35	HV	Distribution Line	Distribution OH Open Wire Conductor	km	4,601	4,574	(28)	4
36	HV	Distribution Line	Distribution OH Aerial Cable Conductor	km	–	–	–	4
37	HV	Distribution Line	SWER conductor	km	68	63	(5)	4
38	HV	Distribution Cable	Distribution UG XLPE or PVC	km	1,377	1,392	15	3
39	HV	Distribution Cable	Distribution UG PILC	km	95	95	(0)	3
40	HV	Distribution Cable	Distribution Submarine Cable	km	11	11	–	4
41	HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers	No.	354	385	31	3
42	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.	157	188	31	3
43	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	15,764	15,908	144	3
44	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	705	669	(36)	4
45	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.	1,864	1,951	87	4
46	HV	Distribution Transformer	Pole Mounted Transformer	No.	8,975	9,034	59	3
47	HV	Distribution Transformer	Ground Mounted Transformer	No.	5,529	5,619	90	3
48	HV	Distribution Transformer	Voltage regulators	No.	60	66	6	4
49	HV	Distribution Substations	Ground Mounted Substation Housing	No.	2,443	2,912	469	3
50	LV	LV Line	LV OH Conductor	km	1,975	1,966	(9)	3
51	LV	LV Cable	LV UG Cable	km	2,240	2,286	46	3
52	LV	LV Street lighting	LV OH/UG Streetlight circuit	km	1,706	1,725	19	3
53	LV	Connections	OH/UG consumer service connections	No.	170,799	172,141	1,342	3
54	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.	1,392	1,558	166	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	2,316	2,552	236	2
59	All	Civils	Cable Tunnels	km	–	–	–	4

Company Name	**Powerco Limited**
For Year Ended	**31 March 2024**
Network / Sub-network Name	**Powerco Limited**

SCHEDULE 9b: ASSET AGE PROFILE

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

sch ref

9b: Asset Age Profile

Disclosure Year (year ende 31 March 2024

Number of assets at disclosure year end by installation date

	Voltage	Asset category	Asset class	Units	pre-1940	1940–1949	1950–1959	1960–1969	1970–1979	1980–1989	1990–1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	No. with age unknown	Items at end of year (quantity)	No. with default dates	Data accuracy (1–4)
10	All	Overhead Line	Concrete poles / steel structure	N	19	702	4,163	28,788	51,461	47,088	25,982	3,319	3,082	2,059	2,308	1,861	1,787	1,804	2,127	2,373	2,796	2,511	2,214	2,390	3,272	3,374	3,375	4,207	3,961	3,540	4,477	4,670	5,594	4,255	3,317	881	–	13	233,770	–	3
11	All	Overhead Line	Wood poles	N	23	32	609	4,001	6,475	6,140	7,086	385	256	374	396	292	230	136	185	97	70	98	23	3	6	1	6	1	1	10	1	6	11	21	185	41	–	1	27,202	–	3
12	All	Overhead Line	Other pole types	N	–	–	4	36	2,657	58	89	21	77	36	37	46	83	69	31	29	22	7	10	5	8	5	1	1	–	4	7	4	6	9	3	177	–	63	3,605	–	3
13	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	k	–	0	39	293	406	295	223	8	0	3	1	1	14	2	9	4	11	2	34	15	0	10	0	11	27	16	15	17	8	19	13	0	–	0	1,496	–	3
14	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	k	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	9	–	–	9	–	4
15	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	k	–	–	–	0	19	6	21	7	1	6	1	1	1	2	9	2	7	7	19	7	5	1	12	3	23	29	19	38	6	18	28	17	–	0	313	–	4
16	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	k	–	–	–	7	–	–	–	0	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	7	–	4
17	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressurised)	k	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A
18	HV	Subtransmission Cable	Subtransmission UG up to 66kV (PILC)	k	–	–	–	0	–	–	0	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	0	–	4
19	HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	k	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	3	–	–	3	–	4
20	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Oil pressurised)	k	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A
21	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Gas Pressurised)	k	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A
22	HV	Subtransmission Cable	Subtransmission UG 110kV+ (PILC)	k	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A
23	HV	Subtransmission Cable	Subtransmission submarine cable	k	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A
24	HV	Zone substation Buildings	Zone substations up to 66kV	N	–	–	2	5	14	12	13	–	–	–	1	1	23	2	5	1	1	1	3	2	3	3	1	3	1	1	1	3	4	7	13	3	–	31	160	–	2
25	HV	Zone substation Buildings	Zone substations 110kV+	N	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A
26	HV	Zone substation switchgear	50/66/110kV CB (Indoor)	N	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A
27	HV	Zone substation switchgear	50/66/110kV CB (Outdoor)	N	–	–	–	–	2	3	1	–	–	–	–	–	–	1	6	–	–	–	–	–	2	–	–	–	–	1	–	–	1	–	–	1	–	–	17	–	3
28	HV	Zone substation switchgear	33kV Switch (Ground Mounted)	N	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	2	1	–	4	3	5	2	3	6	–	–	–	2	–	–	2	–	–	–	30	–	3
29	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	N	–	–	–	81	137	149	101	9	5	1	3	6	10	2	10	11	13	14	11	25	16	6	21	36	12	14	24	21	22	19	16	4	–	–	799	–	3
30	HV	Zone substation switchgear	33kV RMU	N	–	–	–	–	–	–	–	–	–	–	–	–	–	–	1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	1	–	4
31	HV	Zone substation switchgear	22/33kV CB (Indoor)	N	–	–	–	–	–	–	23	–	–	–	–	–	–	6	6	–	14	21	6	9	8	–	23	9	20	11	29	7	12	44	–	–	–	248	–	3
32	HV	Zone substation switchgear	22/33kV CB (Outdoor)	N	–	–	–	8	12	30	18	4	1	–	–	–	4	–	2	4	8	1	2	3	4	2	7	9	9	9	10	10	8	17	8	3	–	1	194	–	3
33	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	N	–	–	–	55	110	86	98	5	20	1	3	19	20	18	38	18	20	9	33	14	32	26	41	48	38	42	27	39	38	15	40	–	–	–	953	–	3
34	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	N	–	–	–	–	–	–	3	–	–	–	–	1	1	–	1	–	–	–	–	2	–	3	6	1	8	–	–	2	3	1	1	–	–	–	33	–	3
35	HV	Zone Substation Transforme	Zone Substation Transformers	N	–	–	1	16	25	18	20	2	5	3	3	2	1	5	9	6	2	4	5	4	10	9	13	8	1	4	5	7	9	5	7	2	–	1	212	–	4
36	HV	Distribution Line	Distribution OH Open Wire Conductor	k	76	387	1,124	2,617	3,539	3,157	1,294	34	59	99	68	72	65	74	80	61	81	80	65	93	128	115	114	113	122	113	130	149	224	118	112	45	–	6	14,615	–	3
37	HV	Distribution Line	Distribution OH Aerial Cable Conductor	k	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A
38	HV	Distribution Line	SWER conductor	k	–	0	0	14	34	10	7	–	–	–	5	–	–	–	0	1	0	0	–	–	0	7	0	0	0	0	0	0	0	2	0	0	–	–	81	–	3
39	HV	Distribution Cable	Distribution UG XLPE or PVC	k	–	0	5	40	194	389	289	48	41	28	29	41	48	57	55	58	53	47	38	38	41	41	44	49	50	45	83	67	50	69	61	39	–	10	2,146	–	3
40	HV	Distribution Cable	Distribution UG PILC	k	–	–	1	15	51	64	19	2	2	2	3	0	0	1	1	0	0	0	0	0	0	0	0	–	0	0	0	0	0	–	0	–	–	4	165	–	3
41	HV	Distribution Cable	Distribution Submarine Cable	k	–	–	–	–	–	2	7	–	–	–	–	–	–	–	–	–	1	–	–	–	–	–	–	0	0	–	–	0	–	0	–	–	–	–	11	–	3
42	HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers	N	–	–	–	1	5	27	29	3	2	9	4	17	9	16	10	10	24	22	18	25	29	31	51	90	72	80	59	51	60	40	47	29	–	21	891	–	3
43	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	N	–	–	6	49	122	53	60	4	–	1	2	4	7	3	–	7	7	6	5	5	2	5	4	4	7	–	–	8	26	25	19	1	–	–	442	–	3
44	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	N	9	14	525	1,779	5,180	4,682	4,151	360	789	799	636	669	760	741	760	715	716	724	637	738	789	1,072	1,203	1,324	1,462	1,430	1,606	1,704	2,029	1,648	1,141	484	–	7	41,283	–	3
45	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	N	–	–	–	36	170	167	166	14	23	17	27	43	30	62	55	44	44	28	31	33	20	8	3	8	3	9	16	3	7	2	9	2	–	2	1,082	–	3
46	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	N	–	1	5	45	186	164	169	27	56	30	35	59	63	77	99	78	94	68	60	77	79	94	123	137	159	162	183	188	171	213	177	61	–	2	3,142	–	3
47	HV	Distribution Transformer	Pole Mounted Transformer	N	–	–	65	640	2,067	3,681	4,899	473	505	500	563	646	617	581	629	648	621	579	509	526	617	658	678	671	717	700	912	815	942	848	556	294	–	702	27,859	–	4
48	HV	Distribution Transformer	Ground Mounted Transformer	N	–	–	4	154	609	1,164	1,396	191	208	158	187	243	244	289	307	287	248	203	174	220	178	236	278	268	291	295	339	306	294	336	293	154	–	93	9,647	–	4
49	HV	Distribution Transformer	Voltage regulators	N	–	–	–	–	2	2	4	1	1	1	2	3	2	6	3	9	3	3	2	7	4	7	8	10	5	4	28	9	13	1	7	4	–	7	158	–	4
50	HV	Distribution Substations	Ground Mounted Substation Housing	N	1	–	2	101	898	1,008	643	60	75	62	108	122	91	77	85	90	95	62	45	38	34	57	72	88	89	44	41	16	16	7	19	434	–	–	4,580	–	3
51	LV	LV Line	LV OH Conductor	k	0	38	239	1,075	2,123	889	431	35	36	28	28	24	21	21	23	24	19	15	17	12	20	24	14	25	21	27	28	26	34	35	21	5	–	73	5,450	–	2
52	LV	LV Cable	LV UG Cable	k	0	0	8	150	995	913	726	63	63	53	61	99	114	116	132	131	115	59	45	41	38	47	49	69	91	94	106	99	95	111	93	35	–	98	4,906	–	2
53	LV	LV Street lighting	LV OH/UG Streetlight circuit	k	0	10	76	323	849	551	429	45	42	27	28	68	70	63	58	51	56	31	23	18	14	14	19	28	33	33	35	28	21	24	20	4	–	25	3,116	–	2
54	LV	Connections	OH/UG consumer service connections	N	–	–	–	–	–	–	–	8,176	3,860	3,923	4,685	5,133	5,086	5,439	5,268	4,292	3,338	3,180	2,939	2,953	3,198	3,597	4,035	4,776	5,338	4,770	4,864	4,846	5,518	4,880	3,854	862	–	251,680	360,490	–	2
55	All	Protection	Protection relays (electromechanical, solid state and numeric)	N	–	–	–	73	225	161	80	56	1	5	4	15	18	48	24	47	63	13	49	44	57	148	220	207	174	173	114	240	199	143	206	149	–	–	2,956	–	3
56	All	SCADA and communication	SCADA and communications equipment operating as a single syst	L	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	1	1	–	2
57	All	Capacitor Banks	Capacitors including controls	N	–	–	–	–	–	1	25	1	–	–	–	–	–	–	1	–	1	1	–	6	1	1	3	–	1	3	3	1	–	–	1	–	–	–	50	–	4
58	All	Load Control	Centralised plant	L	–	–	–	–	4	4	7	–	1	–	–	–	–	–	–	–	2	1	1	4	1	2	–	1	–	1	1	1	2	–	1	2	–	–	36	–	3
59	All	Load Control	Relays	N	–	–	9	23	839	327	325	76	54	38	40	95	55	79	91	44	72	81	73	37	187	76	74	70	80	123	174	172	98	115	74	21	–	703	4,325	–	2
60	All	Civils	Cable Tunnels	k	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A

Company Name	**Powerco Limited**
For Year Ended	**31 March 2024**
Network / Sub-network Name	**Western Region**

SCHEDULE 9b: ASSET AGE PROFILE

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

sch ref

9b: Asset Age Profile

Disclosure Year (year ended) 31 March 2024

Number of assets at disclosure year end by installation date

	Voltage	Asset category	Asset class	Units	pre-1940	1940–1949	1950–1959	1960–1969	1970–1979	1980–1989	1990–1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	No. with age unknown	end of year (quantity)	with default dates	Data accuracy (1–4)
10	All	Overhead Line	Concrete poles / steel structure	N	18	698	3,144	15,909	26,023	32,158	20,735	3,254	2,921	1,612	1,815	1,350	1,314	1,154	1,308	1,348	1,689	1,417	1,419	1,560	2,217	2,478	2,392	3,012	2,672	2,523	3,169	2,857	3,298	2,728	2,313	448	–	11	150,964	–	3
11	All	Overhead Line	Wood poles	N	23	32	427	3,769	5,762	5,477	5,638	370	230	371	395	290	223	136	180	63	61	28	23	3	6	–	5	–	–	7	1	3	6	18	177	41	–	–	23,765	–	3
12	All	Overhead Line	Other pole types	N	–	–	3	22	736	46	58	11	18	7	12	38	28	10	3	5	3	2	10	1	2	1	1	1	–	4	7	4	4	2	–	87	–	58	1,184	–	3
13	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	–	0	7	201	279	186	141	1	0	2	0	0	11	–	2	–	11	2	0	0	0	0	0	11	22	15	12	12	7	19	12	–	–	0	956	–	3
14	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A
15	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km	–	–	–	0	4	5	3	3	0	6	0	1	0	–	3	0	5	0	8	0	1	0	1	1	4	5	13	34	2	1	10	2	–	0	113	–	4
16	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km	–	–	–	7	–	–	–	0	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	7	–	4
17	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressurised)	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A
18	HV	Subtransmission Cable	Subtransmission UG up to 66kV (PILC)	km	–	–	–	0	–	–	0	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	0	–	4
19	HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A
20	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Oil pressurised)	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A
21	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Gas Pressurised)	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A
22	HV	Subtransmission Cable	Subtransmission UG 110kV+ (PILC)	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A
23	HV	Subtransmission Cable	Subtransmission submarine cable	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A
24	HV	Zone substation Buildings	Zone substations up to 66kV	No	–	–	1	3	9	8	10	–	–	–	1	1	–	–	4	–	–	1	2	–	1	1	1	–	–	–	3	–	2	8	–	–	29	86	–	2
25	HV	Zone substation Buildings	Zone substations 110kV+	No	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A
26	HV	Zone substation switchgear	50/66/110kV CB (Indoor)	No	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A
27	HV	Zone substation switchgear	50/66/110kV CB (Outdoor)	No	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A
28	HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	4	3	–	2	3	6	–	–	–	–	–	–	2	–	–	20	–	3
29	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No	–	–	–	63	82	107	77	9	5	1	3	6	6	–	2	–	2	2	6	17	8	3	12	20	3	4	22	16	17	17	14	4	–	–	528	–	3
30	HV	Zone substation switchgear	33kV RMU	No	–	–	–	–	–	–	–	–	–	–	–	–	–	–	1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	1	–	4
31	HV	Zone substation switchgear	22/33kV CB (Indoor)	No	–	–	–	–	–	–	23	–	–	–	–	–	–	–	6	–	–	14	11	–	4	1	–	3	1	1	3	13	1	12	18	–	–	–	111	–	3
32	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No	–	–	–	7	9	24	8	2	–	–	–	–	1	–	1	2	3	–	2	–	1	1	4	2	3	6	10	6	6	16	8	3	–	1	126	–	3
33	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No	–	–	–	37	69	41	70	–	20	1	1	17	13	1	30	1	1	–	19	–	19	10	11	22	37	17	9	32	1	12	30	–	–	–	521	–	3
34	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No	–	–	–	–	–	–	3	–	–	–	–	1	1	–	1	–	–	–	–	2	–	3	6	1	8	–	–	2	3	1	1	–	–	–	33	–	3
35	HV	Zone Substation Transformer	Zone Substation Transformers	No	–	–	1	13	21	10	14	1	4	2	3	2	1	–	5	2	–	–	3	1	3	4	4	6	1	3	3	5	1	4	1	2	–	1	121	–	4
36	HV	Distribution Line	Distribution OH Open Wire Conductor	km	76	387	1,047	1,928	2,166	2,242	901	29	40	83	52	43	39	32	38	23	34	18	28	41	57	63	61	49	53	56	70	72	129	65	91	23	–	6	10,041	–	3
37	HV	Distribution Line	Distribution OH Aerial Cable Conductor	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A
38	HV	Distribution Line	SWER conductor	km	–	0	–	–	9	8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	0	0	0	0	0	0	0	–	0	0	–	–	17	–	3
39	HV	Distribution Cable	Distribution UG XLPE or PVC	km	–	0	4	36	111	123	80	12	9	11	6	8	10	15	16	22	18	19	9	12	15	19	17	21	15	11	31	26	12	21	17	20	–	9	754	–	3
40	HV	Distribution Cable	Distribution UG PILC	km	–	–	0	12	26	15	6	0	0	2	3	0	0	1	1	0	0	0	0	0	0	0	0	–	0	0	0	0	0	–	0	–	–	4	71	–	3
41	HV	Distribution Cable	Distribution Submarine Cable	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A
42	HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers	No	–	–	–	1	5	27	24	2	2	7	4	8	8	11	6	9	15	13	5	16	11	13	19	38	34	49	41	26	38	28	13	13	–	20	506	–	3
43	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No	–	–	5	40	81	32	32	4	–	1	2	4	7	2	–	7	6	6	4	5	1	5	–	1	6	–	–	–	–	–	3	–	–	–	254	–	3
44	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No	9	14	499	1,209	3,907	2,781	2,151	244	618	614	463	424	441	440	426	408	384	353	351	425	418	619	729	699	734	766	940	1,064	1,244	993	724	278	–	6	25,375	–	3
45	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No	–	–	–	23	68	42	45	8	14	10	19	17	11	9	25	16	19	11	11	16	6	8	1	7	1	2	12	2	3	2	3	–	–	2	413	–	3
46	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No	–	1	5	34	89	92	60	9	43	19	18	19	14	20	29	18	22	29	13	27	32	49	49	50	56	52	49	64	73	77	47	31	–	1	1,191	–	3
47	HV	Distribution Transformer	Pole Mounted Transformer	No	–	–	64	452	1,529	2,696	3,029	327	335	348	398	431	398	359	398	375	380	296	323	373	392	426	443	405	515	445	628	609	638	564	363	189	–	697	18,825	–	4
48	HV	Distribution Transformer	Ground Mounted Transformer	No	–	–	2	63	289	455	514	79	83	96	90	86	87	100	94	120	101	76	64	98	95	132	137	114	111	110	132	147	142	150	108	63	–	90	4,028	–	4
49	HV	Distribution Transformer	Voltage regulators	No	–	–	–	–	2	1	4	–	1	1	2	3	2	5	1	4	3	1	2	6	1	5	7	4	1	2	12	5	8	–	2	–	–	7	92	–	4
50	HV	Distribution Substations	Ground Mounted Substation Housing	No	1	–	–	24	344	150	128	16	20	39	62	49	26	30	22	39	29	20	20	9	19	32	34	32	22	13	15	8	14	4	19	428	–	–	1,668	–	3
51	LV	LV Line	LV OH Conductor	km	0	38	180	637	1,336	494	260	34	32	24	23	20	18	17	17	17	14	11	14	10	17	21	12	23	17	24	23	17	22	22	16	4	–	71	3,484	–	2
52	LV	LV Cable	LV UG Cable	km	0	0	8	90	552	511	346	32	29	34	35	37	52	52	63	66	64	33	27	18	20	25	25	31	34	41	43	55	58	70	52	21	–	94	2,619	–	2
53	LV	LV Street lighting	LV OH/UG Streetlight circuit	km	–	10	65	212	405	247	143	18	15	13	14	15	24	17	20	20	24	10	8	4	7	5	8	7	7	8	10	9	7	8	8	2	–	22	1,392	–	2
54	LV	Connections	OH/UG consumer service connections	No	–	–	–	–	–	–	–	1,290	1,225	1,169	1,671	1,889	2,095	2,202	2,308	1,983	1,629	1,609	1,421	1,345	1,480	1,422	1,411	1,537	1,854	1,933	1,896	2,172	2,375	2,036	1,911	427	–	146,059	188,349	–	2
55	All	Protection	Protection relays (electromechanical, solid state and numeric)	No	–	–	–	57	67	35	29	56	–	5	–	15	6	26	3	19	28	9	30	16	23	78	129	80	107	86	65	107	75	94	108	45	–	–	1,398	–	3
56	All	SCADA and communications	SCADA and communications equipment operating as a single syst	Lot	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	1	1	–	2
57	All	Capacitor Banks	Capacitors including controls	No	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	3	–	–	–	–	–	1	–	–	–	–	–	–	–	4	–	4
58	All	Load Control	Centralised plant	Lot	–	–	–	–	4	4	7	–	1	–	–	–	–	–	–	–	–	–	–	4	–	1	–	1	–	–	1	–	–	–	–	2	–	–	25	–	3
59	All	Load Control	Relays	No	–	–	–	9	310	141	88	14	20	22	19	36	7	16	27	12	7	10	16	4	8	19	34	21	19	32	58	73	32	50	25	8	–	636	1,773	–	2
60	All	Civils	Cable Tunnels	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A

Company Name	**Powerco Limited**
For Year Ended	**31 March 2024**
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

9b: Asset Age Profile

Disclosure Year (year ended) 31 March 2024

Number of assets at disclosure year end by installation date

9	Voltage	Asset category	Asset class	Units	pre-1940	1940–1949	1950–1959	1960–1969	1970–1979	1980–1989	1990–1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	No. with age unknown	end of year (quantity)	with default dates	Data accuracy (1–4)
10	All	Overhead Line	Concrete poles / steel structure	N	1	4	1,019	12,879	25,438	14,930	5,247	65	161	447	493	511	473	650	819	1,025	1,107	1,094	795	830	1,055	896	983	1,195	1,289	1,017	1,308	1,813	2,296	1,527	1,004	433	–	2	82,806	–	3
11	All	Overhead Line	Wood poles	N	–	–	182	232	713	663	1,448	15	26	3	1	2	7	–	5	34	9	70	–	–	–	1	1	1	1	3	–	3	5	3	8	–	–	1	3,437	–	3
12	All	Overhead Line	Other pole types	N	–	–	1	14	1,921	12	31	10	59	29	25	8	55	59	28	24	19	5	–	4	6	4	–	–	–	–	–	–	2	7	3	90	–	5	2,421	–	3
13	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	–	0	32	92	127	108	82	6	–	1	1	1	3	2	6	4	0	0	34	15	0	10	0	0	5	1	3	5	1	0	0	0	–	–	540	–	3
14	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	9	–	–	9	–	4
15	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km	–	–	–	–	15	1	18	5	1	–	0	0	1	2	5	2	2	6	11	6	4	0	12	1	20	24	6	4	5	17	18	15	–	0	200	–	4
16	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A
17	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressurised)	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A
18	HV	Subtransmission Cable	Subtransmission UG up to 66kV (PILC)	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A
19	HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	3	–	–	3	–	4
20	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Oil pressurised)	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A
21	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Gas Pressurised)	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A
22	HV	Subtransmission Cable	Subtransmission UG 110kV+ (PILC)	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A
23	HV	Subtransmission Cable	Subtransmission submarine cable	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A
24	HV	Zone substation Buildings	Zone substations up to 66kV	No.	–	–	1	2	5	4	3	–	–	–	–	23	2	1	1	1	–	1	2	2	2	–	2	1	1	1	–	4	5	5	3	–	2	74	–	2
25	HV	Zone substation Buildings	Zone substations 110kV+	No.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A
26	HV	Zone substation switchgear	50/66/110kV CB (Indoor)	No.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A
27	HV	Zone substation switchgear	50/66/110kV CB (Outdoor)	No.	–	–	–	–	2	3	1	–	–	–	–	–	–	1	6	–	–	–	–	–	–	–	2	–	–	–	–	–	1	–	1	–	–	–	17	–	3
28	HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	2	1	–	–	–	5	–	–	–	–	–	–	2	–	–	–	–	–	10	–	3
29	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.	–	–	–	18	55	42	24	–	–	–	–	–	4	2	8	11	11	12	5	8	8	3	9	16	9	10	2	5	5	2	2	–	–	–	271	–	3
30	HV	Zone substation switchgear	33kV RMU	No.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A
31	HV	Zone substation switchgear	22/33kV CB (Indoor)	No.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	6	–	–	10	6	5	7	–	20	8	19	8	16	6	–	26	–	–	–	137	–	3
32	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.	–	–	–	1	3	6	10	2	1	–	–	–	3	–	1	2	5	1	–	3	3	1	3	7	6	3	–	4	2	1	–	–	–	–	68	–	3
33	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.	–	–	–	18	41	45	28	5	–	–	2	2	7	17	8	17	19	9	14	14	13	16	30	26	1	25	18	7	37	3	10	–	–	–	432	–	3
34	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A
35	HV	Zone Substation Transformer	Zone Substation Transformers	No.	–	–	–	3	4	8	6	1	1	1	–	–	–	5	4	4	2	4	2	3	7	5	9	2	–	1	2	2	8	1	6	–	–	–	91	–	4
36	HV	Distribution Line	Distribution OH Open Wire Conductor	km	–	0	78	689	1,373	915	394	5	19	16	16	28	25	42	42	38	47	63	37	53	72	52	54	64	69	57	59	77	95	53	21	23	–	–	4,574	–	3
37	HV	Distribution Line	Distribution OH Aerial Cable Conductor	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A
38	HV	Distribution Line	SWER conductor	km	–	0	0	14	25	2	7	–	–	–	5	–	–	–	0	1	0	0	–	–	0	7	0	0	0	0	0	0	–	2	–	–	–	–	63	–	3
39	HV	Distribution Cable	Distribution UG XLPE or PVC	km	–	–	1	4	83	266	209	36	32	17	23	33	38	42	39	37	35	29	29	26	25	22	26	28	35	35	52	41	37	48	44	19	–	1	1,392	–	3
40	HV	Distribution Cable	Distribution UG PILC	km	–	–	0	3	25	49	13	2	2	0	–	0	–	–	0	–	0	–	–	–	–	–	–	–	–	–	–	0	0	–	–	–	–	–	95	–	3
41	HV	Distribution Cable	Distribution Submarine Cable	km	–	–	–	–	–	2	7	–	–	–	–	–	–	–	–	–	1	–	–	–	–	–	–	0	0	–	–	0	–	0	–	–	–	–	11	–	3
42	HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers	No.	–	–	–	–	–	–	5	1	–	2	–	9	1	5	4	1	9	9	13	9	18	18	32	52	38	31	18	25	22	12	34	16	–	1	385	–	3
43	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.	–	–	1	9	41	21	28	–	–	–	–	–	1	–	–	1	–	1	–	1	–	4	3	1	–	–	8	26	25	16	1	–	–	188	–	3
44	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	–	–	26	570	1,273	1,901	2,000	116	171	185	173	245	319	301	334	307	332	371	286	313	371	453	474	625	728	664	666	640	785	655	417	206	–	1	15,908	–	3
45	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	–	–	–	13	102	125	121	6	9	7	8	26	19	53	30	28	25	17	20	17	14	–	2	1	2	7	4	1	4	–	6	2	–	–	669	–	3
46	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.	–	–	–	11	97	72	109	18	13	11	17	40	49	57	70	60	72	39	47	50	47	45	74	87	103	110	134	124	98	136	130	30	–	1	1,951	–	3
47	HV	Distribution Transformer	Pole Mounted Transformer	No.	–	–	1	188	538	985	1,870	146	170	152	165	215	219	222	231	273	241	283	186	153	225	232	235	266	202	255	284	206	304	284	193	105	–	5	9,034	–	4
48	HV	Distribution Transformer	Ground Mounted Transformer	No.	–	–	2	91	320	709	882	112	125	62	97	157	157	189	213	167	147	127	110	122	83	104	141	154	180	185	207	159	152	186	185	91	–	3	5,619	–	4
49	HV	Distribution Transformer	Voltage regulators	No.	–	–	–	–	–	1	–	1	–	–	–	–	–	1	2	5	–	2	–	1	3	2	1	6	4	2	16	4	5	1	5	4	–	–	66	–	4
50	HV	Distribution Substations	Ground Mounted Substation Housing	No.	–	–	2	77	554	858	515	44	55	23	46	73	65	47	63	51	66	42	25	29	15	25	38	56	67	31	26	8	2	3	–	6	–	–	2,912	–	3
51	LV	LV Line	LV OH Conductor	km	–	–	59	438	787	395	171	1	4	4	5	4	3	4	6	7	5	4	3	2	3	3	2	1	4	2	5	10	12	13	4	1	–	2	1,966	–	2
52	LV	LV Cable	LV UG Cable	km	0	–	0	60	442	402	380	31	34	18	26	61	62	64	69	65	51	26	18	23	17	22	24	38	58	53	63	44	38	41	41	14	–	4	2,286	–	2
53	LV	LV Street lighting	LV OH/UG Streetlight circuit	km	0	–	12	111	444	304	286	27	27	13	14	53	46	46	39	32	32	21	15	14	8	9	11	21	25	25	26	19	14	16	12	2	–	3	1,725	–	2
54	LV	Connections	OH/UG consumer service connections	No.	–	–	–	–	–	–	–	6,886	2,635	2,754	3,014	3,244	2,991	3,237	2,960	2,309	1,709	1,571	1,518	1,608	1,718	2,175	2,624	3,239	3,484	2,837	2,968	2,674	3,143	2,844	1,943	435	–	105,621	172,141	–	2
55	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.	–	–	–	16	158	126	51	–	1	–	4	–	12	22	21	28	35	4	19	28	34	70	91	127	67	87	49	133	124	49	98	104	–	–	1,558	–	3
56	All	SCADA and communications	SCADA and communications equipment operating as a single syst	Lot	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	1	1	–	2
57	All	Capacitor Banks	Capacitors including controls	No.	–	–	–	–	–	1	25	1	–	–	–	–	–	–	1	–	1	1	–	3	1	1	3	–	1	2	3	1	–	1	–	–	–	–	46	–	4
58	All	Load Control	Centralised plant	Lot	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	2	1	1	–	1	1	–	–	–	1	–	1	2	–	1	–	–	–	11	–	3
59	All	Load Control	Relays	No.	–	–	9	14	529	186	237	62	34	16	21	59	48	63	64	32	65	71	57	33	179	57	40	49	61	91	116	99	66	65	49	13	–	67	2,552	–	2
60	All	Civils	Cable Tunnels	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	N/A

Company Name	**Powerco Limited**
For Year Ended	**31 March 2024**
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

9c: Overhead Lines and Underground Cables

	Overhead (km)	Underground (km)	Total circuit length (km)
Circuit length by operating voltage (at year end)			
> 66kV	9	3	13
50kV & 66kV	163	6	169
33kV	1,333	315	1,648
SWER (all SWER voltages)	81	–	81
22kV (other than SWER)	124	1	125
6.6kV to 11kV (inclusive—other than SWER)	14,491	2,321	16,812
Low voltage (< 1kV)	5,450	4,906	10,355
Total circuit length (for supply)	21,651	7,551	29,202
Dedicated street lighting circuit length (km)	1,064	2,052	3,116
Circuit in sensitive areas (conservation areas, iwi territory etc) (km)			–

	Circuit length (km)	(% of total overhead length)
Overhead circuit length by terrain (at year end)		
Urban	2,635	12%
Rural	7,263	34%
Remote only	–	–
Rugged only	11,425	53%
Remote and rugged	328	2%
Unallocated overhead lines	–	–
Total overhead length	21,651	100%

	Circuit length (km)	(% of total circuit length)	
Length of circuit within 10km of coastline or geothermal areas (where known)	11,782	40%	

	Circuit length (km)	(% of total overhead length)	
Overhead circuit requiring vegetation management	21,651	100%	*Not required after DY2025*

	Total newly identified throughout the disclosure year	Total remaining at high risk at the disclosure year-end	
Number of overhead circuit sites at high risk from vegetation damage	–	–	*Not required before DY2026*

Breakdown of overhead circuit sites at high risk from vegetation damage at disclosure year-end

Category of overhead circuit site	Number of overhead circuit sites at high risk from vegetation damage at disclosure year-end	Number of overhead circuit sites involving critical assets at disclosure year-end	
[Single tree]	–	–	*Not required before DY2026*
[Single tree - Urban]	–	–	*Not required before DY2026*
[Single tree - Rural]	–	–	*Not required before DY2026*
[Row of trees]	–	–	*Not required before DY2026*
[Span between two poles (X metres)]	–	–	*Not required before DY2026*
[Other]	–	–	*Not required before DY2026*
Total number of sites	–	–	*Not required before DY2026*

** Insert new rows in table above Total line as necessary*

Company Name	**Powerco Limited**
For Year Ended	**31 March 2024**
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

9c: Overhead Lines and Underground Cables

	Overhead (km)	Underground (km)	Total circuit length (km)
Circuit length by operating voltage (at year end)			
> 66kV	–	–	–
50kV & 66kV	–	–	–
33kV	956	120	1,076
SWER (all SWER voltages)	17	–	17
22kV (other than SWER)	124	1	125
6.6kV to 11kV (inclusive—other than SWER)	9,917	823	10,741
Low voltage (< 1kV)	3,484	2,619	6,103
Total circuit length (for supply)	14,498	3,564	18,063
Dedicated street lighting circuit length (km)	743	648	1,392
Circuit in sensitive areas (conservation areas, iwi territory etc) (km)			–

	Circuit length (km)	(% of total overhead length)
Overhead circuit length by terrain (at year end)		
Urban	1,687	12%
Rural	4,089	28%
Remote only	–	–
Rugged only	8,395	58%
Remote and rugged	328	2%
Unallocated overhead lines	–	–
Total overhead length	14,498	100%

	Circuit length (km)	(% of total circuit length)	
Length of circuit within 10km of coastline or geothermal areas (where known)	5,529	31%	

	Circuit length (km)	(% of total overhead length)	
Overhead circuit requiring vegetation management	14,498	100%	*Not required after DY2025*

	Total newly identified throughout the disclosure year	Total remaining at high risk at the disclosure year-end	
Number of overhead circuit sites at high risk from vegetation damage	–	–	*Not required before DY2026*

Breakdown of overhead circuit sites at high risk from vegetation damage at disclosure year-end

Category of overhead circuit site	Number of overhead circuit sites at high risk from vegetation damage at disclosure year-end	Number of overhead circuit sites involving critical assets at disclosure year-end	
[Single tree]	–	–	*Not required before DY2026*
[Single tree - Urban]	–	–	*Not required before DY2026*
[Single tree - Rural]	–	–	*Not required before DY2026*
[Row of trees]	–	–	*Not required before DY2026*
[Span between two poles (X metres)]	–	–	*Not required before DY2026*
[Other]	–	–	*Not required before DY2026*
Total number of sites	–	–	*Not required before DY2026*

** Insert new rows in table above Total line as necessary*

Company Name	**Powerco Limited**
For Year Ended	**31 March 2024**
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

9c: Overhead Lines and Underground Cables

	Overhead (km)	Underground (km)	Total circuit length (km)
Circuit length by operating voltage (at year end)			
> 66kV	9	3	13
50kV & 66kV	163	6	169
33kV	377	194	571
SWER (all SWER voltages)	63	–	63
22kV (other than SWER)	–	–	–
6.6kV to 11kV (inclusive—other than SWER)	4,574	1,497	6,071
Low voltage (< 1kV)	1,966	2,286	4,252
Total circuit length (for supply)	7,153	3,987	11,139
Dedicated street lighting circuit length (km)	321	1,404	1,725
Circuit in sensitive areas (conservation areas, iwi territory etc) (km)			–

Overhead circuit length by terrain (at year end)	Circuit length (km)	(% of total overhead length)
Urban	948	13%
Rural	3,174	44%
Remote only	–	–
Rugged only	3,030	42%
Remote and rugged	–	–
Unallocated overhead lines	–	–
Total overhead length	7,153	100%

	Circuit length (km)	(% of total circuit length)
Length of circuit within 10km of coastline or geothermal areas (where known)	6,253	56%

	Circuit length (km)	(% of total overhead length)	
Overhead circuit requiring vegetation management	7,153	100%	*Not required after DY2025*

	Total newly identified throughout the disclosure year	Total remaining at high risk at the disclosure year-end	
Number of overhead circuit sites at high risk from vegetation damage	—	–	*Not required before DY2026*

Breakdown of overhead circuit sites at high risk from vegetation damage at disclosure year-end

Category of overhead circuit site	Number of overhead circuit sites at high risk from vegetation damage at disclosure year-end	Number of overhead circuit sites involving critical assets at disclosure year-end	
[Single tree]	–	–	*Not required before DY2026*
[Single tree - Urban]	–	–	*Not required before DY2026*
[Single tree - Rural]	–	–	*Not required before DY2026*
[Row of trees]	–	–	*Not required before DY2026*
[Span between two poles (X metres)]	–	–	*Not required before DY2026*
[Other]	–	–	*Not required before DY2026*
Total number of sites	–	–	*Not required before DY2026*

** Insert new rows in table above Total line as necessary*

Company Name	**Powerco Limited**
For Year Ended	**31 March 2024**

SCHEDULE 9d: REPORT ON EMBEDDED NETWORKS

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

sch ref	Location *	Average number of ICPs in disclosure year	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 2024**
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 and Decommissionings

Number of ICPs connected during year by consumer type

	*Consumer types defined by EDB**	Number of connections (ICPs)
11	Residential/Small Commercial	3,736
12	Commercial	74
13	Large Commercial/Industrial	27
14		
15	** include additional rows if needed*	
16	**Connections total**	3,837

Number of ICPs decommissioned during year by consumer type

	*Consumer types defined by EDB**	Number of decommissionings
20	Residential/Small Commercial	1,153
21	Commercial	11
22	Large Commercial/Industrial	8
23		
24	** include additional rows if needed*	
25	**Decommissionings total**	1,172

Distributed generation

28	Number of connections made in year	1,888	**connections**
29	Capacity of distributed generation installed in year	16.94	**MVA**

9e(ii): System Demand

		Demand at time of maximum coincident demand (MW)	
	Maximum coincident system demand		
35	GXP demand	868	
36	*plus* Distributed generation output at HV and above	99	
37	**Maximum coincident system demand**	967	
38	*less* Net transfers to (from) other EDBs at HV and above	–	
39	**Demand on system for supply to consumers' connection points**	967	

		Energy (GWh)	
	Electricity volumes carried		
41	Electricity supplied from GXPs	4,643	
42	*less* Electricity exports to GXPs	132	
43	*plus* Electricity supplied from distributed generation	777	
44	*less* Net electricity supplied to (from) other EDBs	–	
45	**Electricity entering system for supply to consumers' connection points**	5,288	
46	*less* Total energy delivered to ICPs	5,003	
47	**Electricity losses (loss ratio)**	285	5.4%
49	**Load factor**	0.62	

9e(iii): Transformer Capacity

		(MVA)
52	Distribution transformer capacity (EDB owned)	3,609
53	Distribution transformer capacity (Non-EDB owned)	181
54	**Total distribution transformer capacity**	3,790

		(MVA)
57	Zone substation transformer capacity (EDB owned)	2,493
58	Zone substation transformer capacity (Non-EDB owned)	–
59	**Total zone substation transformer capacity**	2,493

Company Name	**Powerco Limited**
For Year Ended	**31 March 2024**
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 and Decommissionings

Number of ICPs connected during year by consumer type

	*Consumer types defined by EDB**	Number of connections (ICPs)
	Residential/Small Commercial	1,848
	Commercial	16
	Large Commercial/Industrial	13

** include additional rows if needed*

Connections total 1,877

Number of ICPs decommissioned during year by consumer type

	*Consumer types defined by EDB**	Number of decommissionings
	Residential/Small Commercial	555
	Commercial	1
	Large Commercial/Industrial	5

** include additional rows if needed*

Decommissionings total 561

Distributed generation

Number of connections made in year	899	**connections**
Capacity of distributed generation installed in year	8.71	**MVA**

9e(ii): System Demand

		Demand at time of maximum coincident demand (MW)	
	Maximum coincident system demand		
	GXP demand	441	
plus	Distributed generation output at HV and above	36	
	Maximum coincident system demand	477	
less	Net transfers to (from) other EDBs at HV and above	–	
	Demand on system for supply to consumers' connection points	477	

		Energy (GWh)	
	Electricity volumes carried		
	Electricity supplied from GXPs	2,124	
less	Electricity exports to GXPs	5	
plus	Electricity supplied from distributed generation	325	
less	Net electricity supplied to (from) other EDBs	–	
	Electricity entering system for supply to consumers' connection points	2,444	
less	Total energy delivered to ICPs	2,271	
	Electricity losses (loss ratio)	173	7.1%

Load factor 0.58

9e(iii): Transformer Capacity

	(MVA)
Distribution transformer capacity (EDB owned)	1,776
Distribution transformer capacity (Non-EDB owned)	122
Total distribution transformer capacity	1,898

	(MVA)
Zone substation transformer capacity (EDB owned)	1,236
Zone substation transformer capacity (Non-EDB owned)	–
Total zone substation transformer capacity	1,236

Company Name	**Powerco Limited**
For Year Ended	**31 March 2024**
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 and Decommissionings

Number of ICPs connected during year by consumer type

	*Consumer types defined by EDB**	Number of connections (ICPs)
Residential/Small Commercial		1,888
Commercial		58
Large Commercial/Industrial		14

** include additional rows if needed*

Connections total 1,960

Number of ICPs decommissioned during year by consumer type

	*Consumer types defined by EDB**	Number of decommissionings
Residential/Small Commercial		598
Commercial		10
Large Commercial/Industrial		3

** include additional rows if needed*

Decommissionings total 611

Distributed generation

Number of connections made in year	989	**connections**
Capacity of distributed generation installed in year	8.23	**MVA**

9e(ii): System Demand

Maximum coincident system demand

		Demand at time of maximum coincident demand (MW)
	GXP demand	456
plus	Distributed generation output at HV and above	61
	Maximum coincident system demand	517
less	Net transfers to (from) other EDBs at HV and above	–
	Demand on system for supply to consumers' connection points	517

Electricity volumes carried

		Energy (GWh)	
	Electricity supplied from GXPs	2,518	
less	Electricity exports to GXPs	127	
plus	Electricity supplied from distributed generation	451	
less	Net electricity supplied to (from) other EDBs	–	
	Electricity entering system for supply to consumers' connection points	2,842	
less	Total energy delivered to ICPs	2,733	
	Electricity losses (loss ratio)	109	3.8%

Load factor 0.63

9e(iii): Transformer Capacity

	(MVA)
Distribution transformer capacity (EDB owned)	1,833
Distribution transformer capacity (Non-EDB owned)	59
Total distribution transformer capacity	1,892

	(MVA)
Zone substation transformer capacity (EDB owned)	1,258
Zone substation transformer capacity (Non-EDB owned)	–
Total zone substation transformer capacity	1,258

Company Name	**Powerco Limited**
For Year Ended	**31 March 2024**
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 this ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

10(i): Interruptions

Interruptions by class

	Number of interruptions
Class A (planned interruptions by Transpower)	9
Class B (planned interruptions on the network)	2,194
Class C (unplanned interruptions on the network)	3,098
Class D (unplanned interruptions by Transpower)	
Class E (unplanned interruptions of EDB owned generation)	
Class F (unplanned interruptions of generation owned by others)	
Class G (unplanned interruptions caused by another disclosing entity)	
Class H (planned interruptions caused by another disclosing entity)	
Class I (interruptions caused by parties not included above)	601
Total	5,902

Interruption restoration

	≤3Hrs	>3hrs
Class C interruptions restored within	1,771	1,327

SAIFI and SAIDI by class

	SAIFI	SAIDI
Class A (planned interruptions by Transpower)	0.07	6.9
Class B (planned interruptions on the network)	0.43	104.3
Class C (unplanned interruptions on the network)	1.57	146.7
Class D (unplanned interruptions by Transpower)		
Class E (unplanned interruptions of EDB owned generation)		
Class F (unplanned interruptions of generation owned by others)		
Class G (unplanned interruptions caused by another disclosing entity)		
Class H (planned interruptions caused by another disclosing entity)		
Class I (interruptions caused by parties not included above)	0.09	22.8
Total	2.16	280.7

Normalised SAIFI and SAIDI

	Normalised SAIFI	Normalised SAIDI	
Classes B & C (interruptions on the network)	2.00	249.6	*Not required after DY2024*

Transitional SAIFI and SAIDI (previous method)

	SAIFI	SAIDI
Class B (planned interruptions on the network)		
Class C (unplanned interruptions on the network)		

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.***

Company Name	**Powerco Limited**
For Year Ended	**31 March 2024**
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 this ID determination), and so is subject to the assurance report required by section 2.8.

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

Cause	SAIFI	SAIDI	
Lightning	0.02	2.84	
Vegetation	0.28	36.89	
Adverse weather	0.01	1.39	
Adverse environment	0.01	1.10	
Third party interference	0.19	19.64	
Wildlife	0.07	4.38	
Human error	0.07	3.05	
Defective equipment	0.57	53.91	
Cause unknown	0.33	23.45	*Not required after DY2024*
Other cause			*Not required before DY2025*
Unknown			*Not required before DY2025*

Breakdown of third party interference	SAIFI	SAIDI
Dig-in	0.01	0.58
Overhead contact	0.01	0.57
Vandalism	0.00	0.03
Vehicle damage	0.16	17.56
Other	0.02	0.91

Breakdown of vegetation interruptions (vegetation cause)	SAIFI	SAIDI	
In-zone			*Not required before DY2026*
Out-of-zone			*Not required before DY2026*

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

Main equipment involved	SAIFI	SAIDI
Subtransmission lines	0.00	1.75
Subtransmission cables		
Subtransmission other		
Distribution lines (excluding LV)	0.42	102.47
Distribution cables (excluding LV)	0.00	0.02
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	0.22	9.50
Subtransmission cables		
Subtransmission other	0.00	0.10
Distribution lines (excluding LV)	1.18	128.44
Distribution cables (excluding LV)	0.10	5.80
Distribution other (excluding LV)	0.07	2.82

10(v): Fault Rate

Main equipment involved	Number of Faults	Circuit length (km)	Fault rate (faults per 100km)
Subtransmission lines	124	1,506	8.24
Subtransmission cables	–	324	–
Subtransmission other	2		
Distribution lines (excluding LV)	4,008	14,695	27.27
Distribution cables (excluding LV)	141	2,322	6.07
Distribution other (excluding LV)	208		
Total	4,483		

Company Name	**Powerco Limited**
For Year Ended	**31 March 2024**
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 this ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

10(i): Interruptions

Interruptions by class

		Number of interruptions
10	Class A (planned interruptions by Transpower)	6
11	Class B (planned interruptions on the network)	1,386
12	Class C (unplanned interruptions on the network)	2,054
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)	348
19	**Total**	3,794

Interruption restoration

		≤3Hrs	>3hrs
22	Class C interruptions restored within	1,160	894

SAIFI and SAIDI by class

		SAIFI	SAIDI
25	Class A (planned interruptions by Transpower)	0.06	13.02
26	Class B (planned interruptions on the network)	0.53	128.89
27	Class C (unplanned interruptions on the network)	1.89	184.61
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)	0.11	26.9
34	**Total**	2.59	353.4

Normalised SAIFI and SAIDI

		Normalised SAIFI	Normalised SAIDI	
37	Classes B & C (interruptions on the network)	2.41	300.4	*Not required after DY2024*

Transitional SAIFI and SAIDI (previous method)

		SAIFI	SAIDI
40	Class B (planned interruptions on the network)		
41	Class C (unplanned interruptions on the network)		

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.***

Company Name	**Powerco Limited**
For Year Ended	**31 March 2024**
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 this 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	0.03	3.04	
Vegetation	0.27	46.33	
Adverse weather	0.01	2.24	
Adverse environment	0.01	0.79	
Third party interference	0.22	18.99	
Wildlife	0.12	7.10	
Human error	0.06	0.95	
Defective equipment	0.79	77.01	
Cause unknown	0.37	28.16	*Not required after DY2024*
Other cause			*Not required before DY2025*
Unknown			*Not required before DY2025*

Breakdown of third party interference	SAIFI	SAIDI
Dig-in	0.00	0.07
Overhead contact	0.02	0.91
Vandalism	0.00	0.06
Vehicle damage	0.17	16.83
Other	0.02	1.12

Breakdown of vegetation interruptions (vegetation cause)	SAIFI	SAIDI	
In-zone			*Not required before DY2026*
Out-of-zone			*Not required before DY2026*

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

Main equipment involved	SAIFI	SAIDI
Subtransmission lines	0.01	3.35
Subtransmission cables		
Subtransmission other		
Distribution lines (excluding LV)	0.52	125.53
Distribution cables (excluding LV)	0.00	0.01
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	0.25	7.82
Subtransmission cables		
Subtransmission other	0.00	0.19
Distribution lines (excluding LV)	1.44	167.24
Distribution cables (excluding LV)	0.11	5.62
Distribution other (excluding LV)	0.09	3.73

10(v): Fault Rate

Main equipment involved	Number of Faults	Circuit length (km)	Fault rate (faults per 100km)
Subtransmission lines	94	956	9.83
Subtransmission cables	–	120	–
Subtransmission other	2		
Distribution lines (excluding LV)	2,813	10,059	27.97
Distribution cables (excluding LV)	58	824	7.03
Distribution other (excluding LV)	107		
Total	3,074		

Company Name	**Powerco Limited**
For Year Ended	**31 March 2024**
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 this ID determination), and so is subject to the assurance report required by section 2.8.

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10(i): Interruptions

		Number of interruptions
9	**Interruptions by class**	
10	Class A (planned interruptions by Transpower)	3
11	Class B (planned interruptions on the network)	808
12	Class C (unplanned interruptions on the network)	1,044
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)	253
19	**Total**	2,108

		≤3Hrs	>3hrs
21	**Interruption restoration**		
22	Class C interruptions restored within	611	433

		SAIFI	SAIDI
24	**SAIFI and SAIDI by class**		
25	Class A (planned interruptions by Transpower)	0.08	0.22
26	Class B (planned interruptions on the network)	0.32	77.34
27	Class C (unplanned interruptions on the network)	1.23	105.15
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)	0.07	18.41
34	**Total**	1.70	201.1

		Normalised SAIFI	Normalised SAIDI	
36	**Normalised SAIFI and SAIDI**			
37	Classes B & C (interruptions on the network)	1.55	182.49	*Not required after DY2024*

		SAIFI	SAIDI
39	**Transitional SAIFI and SAIDI (previous method)**		
40	Class B (planned interruptions on the network)		
41	Class C (unplanned interruptions on the network)		

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.***

Company Name	**Powerco Limited**
For Year Ended	**31 March 2024**
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 this ID determination), and so is subject to the assurance report required by section 2.8.

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

Cause	SAIFI	SAIDI	
Lightning	0.02	2.62	
Vegetation	0.29	26.56	
Adverse weather	0.01	0.46	
Adverse environment	0.01	1.44	
Third party interference	0.17	20.36	
Wildlife	0.03	1.41	
Human error	0.09	5.34	
Defective equipment	0.33	28.66	
Cause unknown	0.29	18.29	*Not required after DY2024*
Other cause			*Not required before DY2025*
Unknown			*Not required before DY2025*

Breakdown of third party interference	SAIFI	SAIDI
Dig-in	0.01	1.13
Overhead contact	0.01	0.20
Vandalism	–	–
Vehicle damage	0.14	18.35
Other	0.01	0.68

Breakdown of vegetation interruptions (vegetation cause)	SAIFI	SAIDI	
In-zone			*Not required before DY2026*
Out-of-zone			*Not required before DY2026*

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

Main equipment involved	SAIFI	SAIDI
Subtransmission lines		
Subtransmission cables		
Subtransmission other		
Distribution lines (excluding LV)	0.32	77.26
Distribution cables (excluding LV)	0.00	0.03
Distribution other (excluding LV)	0.00	0.05

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

Main equipment involved	SAIFI	SAIDI
Subtransmission lines	0.20	11.33
Subtransmission cables		
Subtransmission other		
Distribution lines (excluding LV)	0.89	86.01
Distribution cables (excluding LV)	0.10	5.99
Distribution other (excluding LV)	0.05	1.82

10(v): Fault Rate

Main equipment involved	Number of Faults	Circuit length (km)	Fault rate (faults per 100km)
Subtransmission lines	30	550	5.46
Subtransmission cables	–	203	–
Subtransmission other	–		
Distribution lines (excluding LV)	1,195	4,637	25.77
Distribution cables (excluding LV)	83	1,497	5.54
Distribution other (excluding LV)	101		
Total	1,409		

Company Name	Powerco Limited
For Year Ended	31 March 2024

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 2024 is lower than 2023 (↓27% to 6.45% and ↓31% to 5.75% respectively). This is primarily driven by a decrease in revaluations (↓32%) and a higher opening RAB (↑13%) value offset by an increase in operating surplus (↑11%).

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 2024 is $163.5m reflecting a decrease of $38.5m (19%) compared to the previous year. This was primarily due to increases in total regulatory income (↑$18.3m, 5%), lower pass-through and recoverable costs (↓$11.9m, 11%), regulatory tax (↓$2.5m, 17%), offset by lower revaluations (↓$48.1m, 32%) higher operating expenditure (↑$11.7m, 11%), and higher depreciation (↑$11.4m, 11%).

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 $207.3m (8%) during the year to $2,797m. The movements comprised of Commissioned assets (↓$16m, 6%), Revaluations (↓48.1m, 32%), Depreciation (↑$11.4m, 11%) and Disposals (↑$20.8m, 2798%).

As per 2023, the Depreciation and Disposal numbers include a provision. The provisions relate to the work-in-progress (WIP) balance. At the end of 2024 disclosure period, the Disposal provision was $23.8m (↑$2.8m, 46%) and the Depreciation provision was $4.98m (↓$4.3m, 13%).

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 2024 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)
$2.7	$2.8	$3.5	$10.2	$11.9	$7.1	$4.6	($42.8)	$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 $1.5m of income that is not included in regulatory profit / (loss) before tax but is taxable. This relates predominantly to customer contribution revenue that is recognised over 10 years for tax purposes.

There is ($0.3m) 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 $7m. The total tax effect of $1.97m relates to:

- $0.42m CIW income that will be recognised as taxable income over a period of 10 years
- $1.58m other provisions associated with year-end
- ($0.03m) other provisions associated with year-end

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

$76.5m operating costs (62.2% of total operating costs) are directly attributable to the electricity distribution business (EDB) compared to $73.8m 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

$46.5m operating costs (37.8% of total) that are not directly attributable to the EDB have been allocated to the EDB, compared to $37.6m 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

$2,723.4m (97.4%) of the total RAB value is directly attributable to the electricity distribution business (EDB). $73.4m (2.6%) 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 97.1% and 2.9% 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 2024 totalled $281.9m which is $9.7m (↓3.3%) less than the prior year ($291.7m). This reflects a $25.7m (↓30.1%) decrease in system growth, a $3.3m (↓37.7%) decrease in asset relocations and $1.9m (↓16.5%) decrease in non-network. These are slightly offset by a $14.2m (↑14.8%) increase in asset replacement and renewal, a $5.4m (↑42.1%) increase in reliability, safety and environment, and a $1.5m (↑2.0%) increase in consumer connection.

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 2024 totalled $123.0m which is $11.7m (↑10.5%) more than the prior year ($111.3m). All opex categories increased during the year except for asset replacement and renewal and service interruptions and emergencies. The largest increases are business support $8.3m (↑22.3%), system operations and network support $3.3m (↑15.1%), routine and corrective maintenance and inspection $2.8m (↑17.4%), offset by decrease in asset replacement and renewal ($2.6m) (↓16.5%). 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 2024 totalled $281.9m which is $25.6m (↓8.3%) below the 2023 Asset Management Plan (AMP) forecast ($307.5m). This net underspend is the result of a $18.0m (↓6.2%) underspend on network assets and a $7.5m (↓43.5%) underspend on non-network assets.

- Consumer connection

Customer development was slower than expected across the Powerco network and was $5.0m (↓6.0%) lower than forecast. Residential and small connections slowed down during 2024, as the pressures of the cost of living and cost of borrowing squeezed the economy. The decrease in throughput was partly offset by price pressures the industry is experiencing, and we saw a higher proportion of work shift to commercial and industrial connection works.

- System Growth

System Growth expenditure was lower than forecast in by $27.7m (↓31.7%). This was due to the delay in expenditure from our major projects of which the main contributing project is the resilience project in the Coromandel for emergency generation during network outages. Delays were owing to property and consenting timelines and equipment delivery.

- Asset replacement and renewal

Asset replacement and renewal expenditure was higher than forecast by $16m (↑17%). During 2024 we continued to work through our backlog of defects as a result of Poletop photography data capture highlighting the areas of most need. This was further driven by increased investment in overhead renewals to replace aging populations of assets where the network was most at risk. We continued to experience price increases as a result of high inflation in the local and global supply chain.

- Legislative and regulatory

Legislative and regulatory expenditure was $2.3m (↓78.5%) less than forecast in AMP2023. This was due to further delays 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 $7.5m (↓43.5%) below forecast. The variance resulted from the timing of planned facility upgrades and IS development plans.

Operational expenditure

Operational expenditure (opex) totalled $123.0m during the period which is $2.2m (↑1.9%) above the 2023 Asset Management Plan (AMP) forecast ($120.8m). Network opex was $0.6m (↓1.2%) below the forecast, while non-network opex was $2.8m (↑4.2%) 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).

- Asset replacement and renewal

Expenditure on asset replacement and renewal was $1.7m (↑15.3%) higher than forecast. This was driven by the higher-than-expected opex drivers in fault responses. This was compounded by the cost increase pressures we face as an industry.

- Vegetation Management

Expenditure on vegetation management was $2.0m (↓15.1%) lower than forecast. This was driven by the need to manage network opex costs in total to budget as a result of higher-than-expected ARR work (as above) required on the network on fault responses.

- System operations and network support

Expenditure on system operations and network support was $3.0m (↑13.6%) higher than forecast. This was driven by the increase in software maintenance and licence fee costs.

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 2024 was $427.4m compared to target revenue of $427.3m. 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 2024 Powerco's normalised SAIDI (Class B and Class C) was 250 minutes improving the trend in unplanned fault restoration durations. SAIFI (Class B and Class C) also reduced to 2.00 reflecting the impact of reduced number of storms throughout the year.

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 Default Price-Quality Path (DPP) compliance statement therefore the actual normalised result reported in this information disclosure is not the same as the DPP 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).

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.

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's 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 1-5,000 event and was last assessed at $112 million.

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

Amendments to previously disclosed information

18. In the box below, provide information about amendments to previously disclosed information disclosed in accordance with clause 2.12.1 in the last 7 years, including:

18.1 a description of each error; and

18.2 for each error, reference to the web address where the disclosure made in accordance with clause 2.12.1 is publicly disclosed.

Box 15: Disclosure of amendment to previously disclosed information

There have been no amendments to previously disclosed information.

Company Name Powerco Limited

For Year Ended 31 March 2024

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 2024.

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.

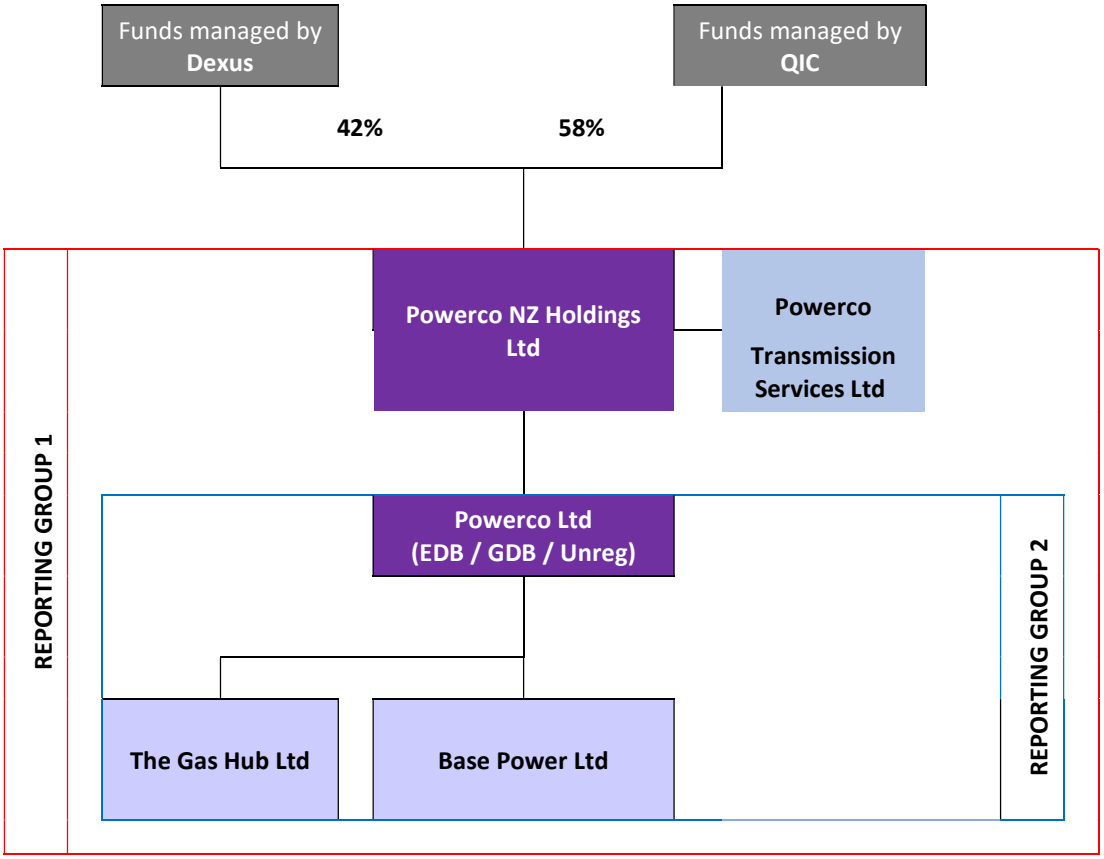
The high level of disposals included in 2021 reflected the change in methodology.

The provision included in 2024 captures new assets included in commissioned WIP this year, and assets that remain in commissioned WIP from previous years.

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

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 conducts 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 is 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 $15.8k, of which 100% is allocated to Powerco's Electricity Distribution business.
- The equivalent arm's length value of services provided to Gas metering is $720.5k, of which 0% is allocated to Powerco's Electricity Distribution business.

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

Asset Information (schedules 9a-9c)

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

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

- Ongoing programmes of work are continually improving the completeness and accuracy of our asset data. This work can impact asset quantities and age profile.
- Some asset ages have been estimated after initial data capture. While based on the best information available, these estimates contain some assumptions.
- Consumer service connections are not explicitly recorded as assets.

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

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

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

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

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

Transformer capacity (schedule 9e)

Distribution transformer capacity
Distribution transformer capacity includes all transformers recorded as network connected. Assumptions have been made for operational distribution substations where installed capacity is not known.

Zone substation transformer capacity
Powerco owns transformers provided by various suppliers with ratings calculated at varying temperatures. The capacity disclosed uses a standardised rating for continuous operation at 20oC ambient temperature.
Powerco has a small number of grid connection transformers which are excluded from this total.

Successive interruptions (Schedule 10)

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

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

Directors Certificate

Electricity Distribution Services Information Disclosure

For the year ended 31 March 2024

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

We, John Loughlin and Richard Van Breda,

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, 2.3.8 – 2.3.12, 2.4.21, 2.4.22, 2.5.1(1)(a)-(f), 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 August 2024
Date

Director

22 August 2024
Date

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INDEPENDENT AUDITOR'S REPORT
TO THE DIRECTORS OF POWERCO LIMITED AND THE COMMERCE COMMISSION

Report on the Disclosure Information prepared in accordance with the Electricity Distribution Information Disclosure Determination 2012 (consolidated 6 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 6 July 2023) ('the Information Disclosure Determination') for the disclosure year ended 31 March 2024, has been prepared in all material respects, in accordance with the Information Disclosure Determination.

The information required to be reported by the Company, and audited, under the Information Disclosure 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 2024, has been prepared, in all material respects, in accordance with clauses 2.3.6 of the Information Disclosure Determination, and clauses 2.2.11(1)(g) and 2.2.11(5) of the Electricity Distribution Services Input Methodologies Determination 2012 (consolidated 20 May 2020) and any applicable subsequent amendments ('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, for the disclosure year ended 31 March 2024:

- The Company has complied, in all material respects, with the Information Disclosure Determination in preparing the Disclosure Information;
- The Related Party Transaction Information complies, in all material respects, with the Information Disclosure 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 International Standard on Assurance Engagements (New Zealand) 3000 (Revised) *Assurance Engagements Other Than Audits or Reviews of Historical Financial Information* ('ISAE (NZ) 3000 (Revised)' and the Standard on Assurance Engagements (SAE) 3100 (Revised) *Compliance Engagements* ('ISAE (NZ) 3100 (Revised)'), issued by the New Zealand Auditing and Assurance Standards Board. Copies of these standards are available on the External Reporting Board's website.

These standards require that we comply with ethical requirements and plan and perform our assurance engagement to provide reasonable assurance about whether the Disclosure Information has been prepared, in all

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material respects, in accordance with the Information Disclosure Determination, and about whether the Related Party Transaction Information has been prepared, in all material respects, with the Information Disclosure 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 opinion.

Key assurance matters

Key assurance matters are those matters that, in our professional judgement, required significant attention when carrying out the assurance engagement during the current disclosure year. These matters were addressed in the context of our compliance engagement. We do not provide a separate opinion on these matters.

Key assurance matter	How our procedures addressed the key assurance matter
Capital expenditure and assets commissioned into the regulatory asset base ('RAB')	
The Company carries out a large number of individual network system projects that can be either operational (network maintenance) or capital (asset replacement or network growth) in nature. Capital expenditure on network and non-network assets in the current year was $281.9 million and commissioned assets into the RAB was $239.6 million, compared to network operating expenditure of $52.0 million. Capital expenditure and assets commissioned into the RAB are a key assurance matter due to the significant judgment pertaining to the assessment of whether the capital expenditure and assets commissioned meet the definition under the Information Disclosure Determination.	Our procedures on capital expenditure and commissioned assets into the RAB included the following: • Assessing the Company's capitalisation policy was in line with NZ IAS 16 – *Property, Plant and Equipment*, NZ IFRS 16 – Leases and NZ IAS 38 – *Intangible Assets*; • Evaluating the design and implementation of controls over the classification of network expenditure; • 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 Information Disclosure Determination; and • Comparing the assets commissioned into the RAB to those commissioned for financial statement purposes and investigating any significant variances.
Valuation of the provision for asset disposals	
As detailed in Schedule 14 and Schedule 15, the Company included a provision for assets disposals amounting to $23.8m million in the regulatory asset base disclosed in the information disclosure Schedule 4. The provision is calculated using an input assumption based on historical trends. The input factor is applied against the proportion of asset replacement and renewals in commissioned assets. This is a key assurance matter due to the quantum of the balance and the level of judgement required in determining the estimate.	Our procedures on management's estimation of the provision for asset disposals included the following: • Evaluating the design and implementation of key controls over the disposals provision; • Assessing key assumptions against internal information such as disposals and capitalisation history; • Assessing changes in assumptions and methodologies from prior periods; • Testing the arithmetical accuracy of the calculation; and • Evaluating the sensitivity of the calculation to changes in the key variables and assumptions.

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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 Information Disclosure 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 Information Disclosure 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 an 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 Information Disclosure 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 Information Disclosure Determination and Input Methodologies Determination. The responsibility includes the identification of risks that threaten the aforementioned compliance requirements as well as 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 Information Disclosure Determination and Input Methodologies Determination.

Our Independence and Quality Management

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 independent auditor and the provision of other assurance services including the audit of financial statements and the audit of regulatory disclosure statements, 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 Information Disclosure 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 Information Disclosure Determination and the Input Methodologies Determination for the specified period. 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 Information Disclosure Determination and the Input Methodologies Determination in relation to the preparation of the Disclosure Information and the Related Party Transaction Information for the specified period.

An assurance engagement to report on the Company's preparation of the Disclosure Information and the Related Party Transaction Information in accordance with the Information Disclosure 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 Information Disclosure 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 Information Disclosure 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 Information Disclosure 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.

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Use of Report

This report is provided solely for your use and the use of the Commerce Commission for the purpose of complying with clause 2.8.1 of the Information Disclosure Determination. Our report is not to be used for any other purpose. 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

Deloitte Limited
Auckland, New Zealand
22 August 2024