

Customised Price-Quality Path Annual Compliance Statement

Powerco Electricity Distribution Services



Assessment Period: 01 April 2022 – 31 March 2023

Contents

1. Summary	3
2. Assessment against the price path	4
2.1 Calculation of the revenue wash-up amount	4
2.2 Calculation of allowable revenue	5
2.3 Calculation of actual revenue	6
2.4 Calculation of revenue foregone	8
3. Assessment against the quality path	9
3.1 Planned interruptions	9
3.2 Unplanned interruptions	10
3.3 Unplanned SAIDI and SAIFI calculations	11
3.4 Reliability policies and procedures	13
4. Major transactions	15
5. Directors' certificate	16
6. Auditor's report	17
7. Appendices	20
Attachment A – Prices and actual quantities for the assessment period	21
Attachment B – Reliability limits and boundary values, caps, collars and targets	31
Attachment C – Commentary on major event days	32
Attachment D – Exceeding the unplanned interruptions limit	33
Reasons for non-compliance with the unplanned interruptions reliability assessment	33
Actions taken to mitigate non-compliance with the annual reliability assessment	34
Attachment E – Compliance statement references	36

1. Summary

Powerco is required to annually report on compliance with its price-quality path

Powerco Limited's electricity distribution business ("Powerco") is subject to regulation under the Commerce Act 1986. The Commerce Commission ("Commission") has set a customised price-quality path (CPP) which applies to Powerco from 1 April 2018 to 31 March 2023. This 2023 assessment is the fifth and final assessment period under the CPP.

The CPP requirements are set out in the Powerco Limited Electricity Distribution Customised Price-Quality Path Determination 2018¹ ("Determination"). The Determination requires Powerco to provide an annual compliance statement ("Statement") to the Commission. In November 2020², the disclosure date for the 2021, 2022, and 2023 assessments was amended to be within five months following the end of the disclosure year. This aligns with the requirements for other information disclosures, allowing a more efficient audit and production process. It differs from the original Determination which specifies a 50-day timeframe.

This Statement confirms that Powerco:

- complies with the requirement to calculate the wash-up amount for the assessment period (section 2)
- partially complies with the quality standards for the assessment period (section 3)
- has not entered into any agreement with another EDB or Transpower for an amalgamation, merger, major transaction or non-reopener transaction in the assessment period (section 4)

Powerco is available to assist the Commission with its review of this Statement and will provide any additional information as requested.

Powerco published this Statement on 31 August 2023. A copy is available at Powerco's principal office (Powerco, 35 Junction Street, New Plymouth). The Statement is published on Powerco's website (www.powerco.co.nz) and additional copies can be provided on request.

¹ https://comcom.govt.nz/_data/assets/pdf_file/0026/216863/Powerco-Limited-electricity-distribution-customised-price-quality-path-determination-2018-consolidated-20-May-2020-20-May-2020.pdf

² https://comcom.govt.nz/_data/assets/pdf_file/0024/227616/2020-NZCC-23-Powerco-Limited-electricity-distribution-customised-price-quality-path-annual-compliance-statement-due-date-amendment-determination-2020-4-November-2020.pdf

2. Assessment against the price path

Each year Powerco calculates an annual ‘wash-up’ of the difference between revenue received and allowable revenue adjusted for actual CPI, pass-through costs and recoverable costs. The purpose of the wash-up mechanism is to restore Powerco to the position it would have been in had the forecasted quantities, pass through and recoverable costs, and level of CPI been made with perfect foresight, taking account of the time value of money.

The wash-up amount for this year-ending 2023 assessment period will be included in the calculation of allowable revenue and price-setting for the year ending 2025. The two-year differential reflects the timing between the end of this assessment period (March), finalising actual revenues (around September) and setting prices for the following year (occurs around December).

For presentation purposes, the tables set out in this section are aggregates of the price and quantity information. While dollar balances are rounded to the nearest thousand dollars, the underlying compliance calculations apply the whole number and are reflected in the totals. The rounding of each component may result in tables which look like they don't add up - this is just the rounding effect.

2.1 Calculation of the revenue wash-up amount

The Determination requires the wash-up amount to be calculated as demonstrated by table 1. The three components of this calculation are described in more detail throughout section 3 of this Statement.

Table 1: Wash-up amount calculation

Calculation components	\$000
Actual allowable revenue	425,794
Less: Actual revenue	393,637
Less: Revenue forgone	-
Wash-up amount 2023	32,158

Calculation specified in Schedule 1.5 of the Determination

The positive wash-up amount indicates an under recovery of revenue. This will be recoverable in FY25 by adding it to allowable revenue, adjusting for the time-value of money.

2.2 Calculation of allowable revenue

The first step is to calculate what should have been allowed for 2023: actual allowable revenue. The Determination defines actual allowable revenue as in table 2. The calculation of each component is explained in subsequent sections.

Table 2: Actual allowable revenue calculation

Calculation components	\$000
[a] Actual net allowable revenue	271,885
[b] Plus: Actual pass-through costs	4,329
[c] Plus: Actual recoverable costs	106,455
[d] Plus: Revenue wash-up draw down amount	43,124
Actual allowable revenue	425,794

Specified in Schedule 1.5 of the Determination

[a] Actual net allowable revenue

Actual net allowable revenue is the maximum revenue, excluding pass-through costs and recoverable costs and any wash-up draw down amount, that Powerco can earn in the assessment period.

[b][c] Actual pass-through and recoverable costs

Tables 3 and 4 contains actual pass-through and recoverable costs for 2023, with a comparison to forecast for reference. Actual pass-through costs were \$400k lower than forecast driven by differences in regulatory levies. These can be difficult to forecast given the mismatched financial years along them being based on whole-of-sector inputs and actions e.g., generation and demand.

Table 3: Actual and forecast pass-through costs

Pass-through costs	Actual \$000	Forecast \$000	Variance \$000
EA levies	989	1,172	(183)
Commerce Commission levies	951	1,112	(161)
UDL levies	218	218	-
Council rates	2,171	2,227	(56)
Total	4,329	4,729	(400)

Table 4: Actual and forecast recoverable costs

Recoverable costs	Actual \$000	Forecast \$000	Variance \$000
Opex IRIS incentive adjustment	(836)	(836)	0
Capex IRIS incentive adjustment	(683)	(683)	0
Transpower connection charges	16,451	16,467	(16)
Transpower interconnection charges	77,441	77,441	0
Transpower new investment charges	7,238	7,238	0
Avoided Costs of Transmission (ACOT)	5,129	5,129	0
Quality incentive adjustment	1,103	1,103	0
Capex wash-up adjustment	612	612	0
Total	106,455	106,471	(16)

For the 2023 assessment period actual recoverable costs were \$16k lower than forecast, driven by the difference between the actual and forecast Transpower connection charges.

[d] Revenue wash-up draw down amount

The revenue wash-up draw-down amount represents any under or over recovery of revenue from two years prior (2021). It is calculated in accordance with schedules 1.5 and 1.6 of the Determination. The 'revenue wash-up draw down amount' for this fifth assessment period (2023) is \$43.124m, derived as in table 5.

Table 5: 2023 revenue wash-up draw-down amount

Calculation components	\$000
Wash-up amount 2021	37,822 ³
Plus: adjustment for 67th percentile estimate of post-tax WACC	5,302
Revenue wash-up draw down amount 2023	43,124

2.3 Calculation of actual revenue

Actual revenue is calculated in table 6 as:

- actual revenue from prices is the sum of each price multiplied by each corresponding actual quantity and,
- other regulated income is income associated with the supply of electricity distribution services, other than through prices, investment related income, capital contributions, or vested assets. Notably, other regulatory income includes gains and losses on asset disposals.

³ See table 1 of the 2021 Annual compliance statement <https://www.powerco.co.nz/who-we-are/disclosures-and-submissions/electricity-disclosures>

Table 6: Actual revenue calculation

Calculation components	\$000
Actual revenue from prices	390,887
Plus: Other regulated income	2,750
Actual revenue	393,637

Specified in clause 4.2 of the Determination

Attachment A contains all schedules of prices and actual quantities used to calculate actual revenue from prices. These schedules total \$390.730m, \$157,000 higher than actual revenue from prices disclosed above. The difference relates to prior period revisions that are received in the current year. The actual revenue of \$390.887m reconciles to the general ledger.

Table 7 summarises the sources of other regulated income.

Table 7: Other regulated income

Calculation components	\$000
Gains/losses on asset disposals	1,089
Other regulated income	1,661
Total other regulated income	2,750

The value of gains and losses on disposals is consistent with the value reported in the 2023 Information Disclosure. Schedule 15 in that disclosure includes a discussion about the underlying methodology used to calculate this figure.

2.4 Calculation of revenue foregone

Revenue foregone for 2023 is zero due to the revenue reduction percentage for 2023 being 0.47%, which is below the 20% threshold (table 8).

Table 8: Revenue reduction percentage calculation

Calculation components	\$000
Actual revenue from prices	390,887
Forecast revenue from prices	392,725
Revenue reduction percentage	0.47%
Revenue foregone	Nil

The percentage is specified in clause 4.2 of the Determination as $1 - (\text{actual revenue from prices} / \text{forecast revenue from prices})$

The revenue foregone component of the wash-up calculation places a cap on the amount of revenue that may be recovered through the wash-up mechanism years. This can occur if there is a reduction in revenue from prices exceeding 20% of allowable revenue. This would most likely occur due to a significant reduction in demand.

3. Assessment against the quality path

This section outlines how Powerco has complied with the quality standards set in Powerco’s CPP quality path. Separate annual planned and unplanned quality standards apply. Cumulative (5-year) requirements also apply in 2023, the last year of the CPP regulatory period.

For presentation purposes, the tables set out in this section are aggregates of the SAIDI and SAIFI information. While results are rounded to three decimal places, the underlying calculations apply the whole number.

3.1 Planned interruptions

Planned SAIDI and SAIFI comprises all planned Class B interruptions on Powerco’s network for the assessment period. Clauses 9.1 and 9.5 of the Determination specify that compliance with the planned interruptions quality standard can be met by passing an annually or multi-year test. Clause 9.6 of the determination specifies that compliance for the fifth assessment period includes an additional test of the cumulative total across the five assessment periods.

- **Annual:** the assessed planned SAIDI and SAIFI values for the current assessment period do not exceed the reliability limits for the current assessment period; or
- **Multi-year:** the assessed planned SAIDI and SAIFI values for each of the two preceding assessment periods do not exceed the reliability limits for those preceding assessment periods.
- **5-year:** the sum of assessed planned SAIDI and SAIFI values accumulated through the first to fifth assessment periods must not exceed the accumulated reliability limits.

The requirement to comply with the multi-year assessment only applies if Powerco exceeds the limit for the annual 2023 assessment. Powerco complies with the annual assessment but also provides the multi-year assessment data for reference.

Compliance with the annual assessment

Table 9: 2023 Planned interruptions annual reliability assessment

CPP requirement	Results	Assessment
Assessed planned SAIDI ≤ Limit	94.396 < 99.292	Complies
Assessed planned SAIFI ≤ Limit	0.399 < 0.414	Complies

Compliance with the multi-year assessment

Table 10: Planned interruptions multi-year reliability assessment

CPP requirement	Assessed planned SAIDI		Assessed planned SAIFI	
2023	94.396	✓	0.399	✓
2022	95.740	✓	0.398	✓
2021	88.648	✓	0.374	✓

Compliance with the 5-year assessment

Table 11: Planned interruptions 5-year reliability assessment

CPP requirement	Results	Assessment
Accumulated assessed planned SAIDI \leq Limit	432.772 < 454.746	Complies
Accumulated assessed planned SAIFI \leq Limit	1.926 < 1.935	Complies

Schedule 3.1 of the Determination specifies the planned reliability limits. These metrics are included in Attachment B of this document.

3.2 Unplanned interruptions

Powerco does not comply with the unplanned interruptions quality assessment on the basis of the multi-year assessment. Clauses 9.7 and 9.10 of the Determination specify that compliance with the unplanned interruptions quality standard can be met by passing an annually or multi-year test:

- **Annual assessment:** the assessed unplanned SAIDI and SAIFI values for the current assessment period does not exceed the reliability limits for the current assessment period; or
- **Multi-year assessment:** the assessed unplanned SAIDI and SAIFI values for each of the two preceding assessment periods does not exceed the reliability limits for those preceding assessment periods.

Unplanned SAIDI non-compliant (breaches the multi-year assessment). Unplanned SAIDI exceeds the annual limit (Table 12). Compliance is not achieved because the multi-year test is not passed (Table 13). Annual unplanned SAIDI limits were exceeded for both FY22 and FY23, which is 2 out of 3 years.

Unplanned SAIFI is compliant in 2023. Unplanned SAIFI exceeds the annual limit (Table 12). However, compliance is achieved by passing the multi-year SAIFI assessment (Table 13). Annual unplanned SAIFI was compliant for both FY22 and FY21 (the two years preceding FY23).

Compliance with the annual assessment

Table 12: 2023 Unplanned interruptions annual reliability assessment

CPP requirement	Results	Assessment
Assessed unplanned SAIDI \leq Limit	230.216 > 175.941	Exceed
Assessed unplanned SAIFI \leq Limit	2.227 > 2.193	Exceed

Compliance with the multi-year assessment

Table 13: Unplanned interruptions multi-year reliability assessment

CPP requirement	Assessed unplanned SAIDI		Assessed unplanned SAIFI	
2023	230.216	✗	2.227	✗
2022	201.078	✗	2.025	✓
2021	168.962	✓	1.836	✓

Schedules 3.2 and 4 of the Determination specify the unplanned reliability limits, unplanned boundary values, caps, collars and targets for the assessment period. These metrics are included in Attachment B of this Statement.

3.3 Unplanned SAIDI and SAIFI calculations

Unplanned SAIDI

To calculate unplanned SAIDI, the assessment dataset is populated by listing all unplanned (Class C) interruptions on Powerco’s network for the assessment period. Unplanned SAIDI is normalised for major event day (“MED”).

A MED occurs when the daily SAIDI value for unplanned interruptions exceeds Powerco’s SAIDI boundary value. The SAIDI boundary value for Powerco is specified in Schedule 3.2 of the Determination. For the current regulatory period the SAIDI boundary value is 11.710 minutes.

Table 14: Calculating Powerco’s unplanned SAIDI assessment values

Calculation components	Result
Assessment dataset for SAIDI <i>Total unplanned SAIDI for the assessment period</i>	395.732
Normalise assessment dataset (3 MEDs) <i>For any day in the assessment dataset where the daily unplanned SAIDI value is greater than the SAIDI unplanned boundary value, replace the daily unplanned SAIDI value with the SAIDI unplanned boundary value.</i>	165.516
SAIDI unplanned	230.216

Major event days in the assessment period

There were three SAIDI major event days in the assessment period:

Interruption date	Pre-normalised unplanned SAIDI	Normalised SAIDI (boundary value)	SAIDI adjustment for normalisation
12 February 2023	71.740	11.710	60.030
13 February 2023	80.632	11.710	68.922

Interruption date	Pre-normalised unplanned SAIDI	Normalised SAIDI (boundary value)	SAIDI adjustment for normalisation
14 February 2023	48.274	11.710	36.564

Further information on major event days is included in Attachment C - Commentary on major event days

Unplanned SAIFI

To calculate unplanned SAIFI, the assessment dataset is populated by listing all unplanned (Class C) interruptions on Powerco's network for the assessment period. Unplanned SAIFI is normalised for MEDs.

A MED occurs when the daily SAIFI value for unplanned interruptions exceeds Powerco's SAIFI Boundary Value of 0.064.

Table 15: Calculating Powerco's unplanned SAIFI assessment values

Calculation components	Result
Assessment dataset for SAIFI <i>Total unplanned SAIFI for the assessment period</i>	2.466
Normalise assessment dataset (4 MED) <i>For any day in the assessment dataset where the daily unplanned SAIFI value is greater than the SAIFI unplanned boundary value, replace the daily unplanned SAIFI value with the SAIFI unplanned boundary value.</i>	0.239
SAIFI unplanned	2.227

Major event days in the assessment period

There were four SAIFI major event days in the assessment period.

Interruption date	Pre-normalised unplanned SAIFI	Normalised SAIFI (boundary value)	SAIFI adjustment for normalisation
7 June 2022	0.098	0.064	0.034
12 February 2023	0.153	0.064	0.089
13 February 2023	0.120	0.064	0.056
14 February 2023	0.123	0.064	0.059

3.4 Reliability policies and procedures

Recording interruptions

Powerco has well developed processes to capture outage / interruption information and ensure the accuracy of these records. Key aspects of this calculation include:

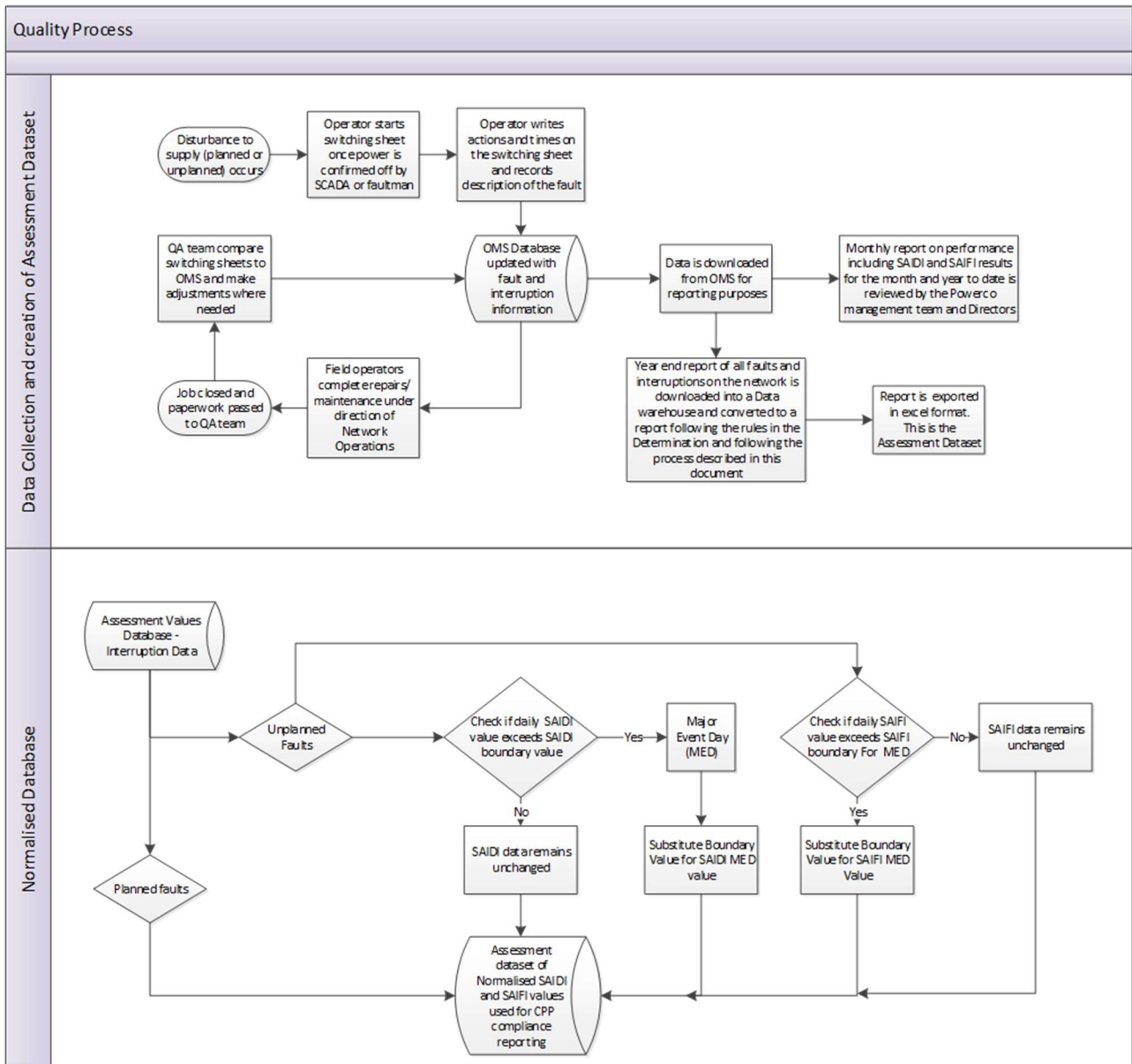
- The underlying reliability records are created and maintained by Powerco's Network Operations Team which initiate and manage all fault reports.
- The start of an interruption is recorded when there is a SCADA alarm for assets that have a real time link to Powerco's SCADA system. For other assets, which is the majority on our network, the interruption is recorded when Powerco is first notified of the fault by retailers or field staff.
- All fault reports contain switching sequences and where available SCADA printouts of transformers and areas affected, along with any other relevant information to support accurate evaluation.
- Details on the fault report are entered into the Powerco Outage Management System ("OMS") database. Information recorded includes the date, time and cause of the fault, voltage of the faulted circuit and the transformers affected.
- Powerco notes the introduction of new systems to assist with the management of outages and interruptions during the 2015 assessment period. This OMS provides enhanced oversight and recording of outages, enhancing the robustness of recording processes.
- The faults recorded may be due to third party causes (transmission problems, generation problems, or the actions of other electricity industry participants or third parties) this information is also recorded in the OMS database but excluded for compliance reporting.
- When power is restored for less than one minute following an initial interruption the successive interruption is not counted as a new SAIFI event. The duration of the successive interruption is added to the duration of the initial interruption. This is consistent with prior year treatment.
- When power is restored for one minute or longer following an initial interruption the successive interruption is counted as a new SAIFI event. The duration of the successive interruption is assigned to the new SAIDI event. This is consistent with prior year treatment.

Calculating SAIDI and SAIFI

In utilising the input data noted above, Powerco applies processes to ensure compliance with Schedules 3.1 and 3.2 of the Determination, as shown diagrammatically in Figure 1. 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 customer numbers at the end of each month of the assessment year. The sum of all customer minutes interrupted is divided by the average customer connection numbers to derive the annual SAIDI minutes. The sum of the number of customer interruptions is divided by the average customer connection numbers to derive the annual SAIFI value.
- Results are calculated using the outage / interruption records in OMS noting a range of global corrections and refinements are required as set out below.
- As specified by the Determination, data is limited to include only Powerco interruptions that cause a cessation of electricity for a period of at least one minute, affect at least one consumer and occur on an electricity line capable of conveying electricity at a voltage of at least 3.3 kV.
- The unplanned data is normalised to account for the impact of MEDs.

Figure 1: Powerco's process to create the normalized dataset



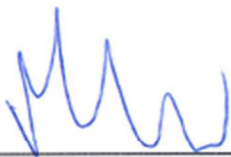
4. Major transactions

Powerco has not entered into any agreement with another EDB or Transpower for an amalgamation, merger, major transaction or non-reopener transaction in the assessment period.

5. Directors' certificate

**Director's Certificate for the Customised Price-quality Path
Annual Compliance Statement
For the period 1 April 2022 – 31 March 2023**

I, Paul Callow, being a director of Powerco certify that, having made all reasonable enquiry, to the best of my knowledge and belief, the attached annual compliance statement of Powerco, and related information, prepared for the purposes of the *Powerco Electricity Distribution Customised Price-Quality Path Determination 2018* has been prepared in accordance with all the relevant requirements.



Director

22 / 08 / 2023

Date

6. Auditor's report



INDEPENDENT ASSURANCE REPORT TO THE DIRECTORS OF POWERCO LIMITED AND THE COMMERCE COMMISSION

Report on Powerco Limited's Electricity Customised Price-Quality Path Annual Compliance Statement 2023

We have conducted a reasonable assurance engagement on Powerco Limited's ('the Company') compliance with the Powerco Limited Electricity Distribution Customised Price-Quality Path Determination 2018 (consolidated 20 May 2020) ('the Determination') in relation to the preparation of Sections 1, 2, 3, 4 and 5 of the Company's Annual Compliance Statement ('the Annual Compliance Statement') on pages 3 to 16 for the period 1 April 2022 to 31 March 2023.

Opinion

In our opinion:

- the Company has complied, in all material respects, with the Determination in relation to the Company's preparation of the Annual Compliance Statement; and
- as far as appears from an examination of the records, the information used in the preparation of the Annual Compliance Statement has been properly extracted, in all material respects, from the Company's accounting and other records, sourced from its financial and non-financial systems.

Basis for Opinion

We conducted our engagement in accordance with the Standard on Assurance Engagements 3100 (Revised): *Compliance Engagements* ('SAE 3100 (Revised)') and the International Standard on Assurance Engagements (New Zealand) 3000 (Revised): *Assurance Engagements Other than Audits or Reviews of Historical Financial Information* ('ISAE (NZ) 3000 (Revised)'), both issued by the New Zealand Auditing and Assurance Standards Board.

We have obtained sufficient recorded evidence and all the explanations we required to provide a basis for our opinion.

Board of Directors' Responsibility

The Board of Directors is responsible on behalf of the Company for the preparation of the Annual Compliance Statement in accordance with the Determination. This responsibility includes the design, implementation and maintenance of internal control relevant to the preparation of the Annual Compliance Statement in accordance with the Determination.

Our Independence and Quality Control

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

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

The firm applies Professional and Ethical Standard 3: *Quality Management for Firms that Perform Audits or Reviews of Financial Statements, or Other Assurance or Related Services Engagements*, which requires the firm to design, implement and operate a system of quality management including policies and procedures regarding compliance with ethical requirements, professional standards and applicable legal and regulatory requirements.



Our Responsibility

Our responsibility is to express an opinion on whether the Company has complied, in all material respects, with the Determination in relation to the preparation of the Annual Compliance Statement. SAE 3100 (Revised) and ISAE (NZ) 3000 (Revised) requires that we plan and perform our procedures to obtain reasonable assurance that the Company has complied, in all material respects, with the Determination in preparing its Annual Compliance Statement.

An assurance engagement to report on the Company's compliance with the Determination in relation to the preparation of the Annual Compliance Statement involves performing procedures to obtain evidence about the compliance activity and controls implemented to meet the requirements of the Determination. The procedures selected depend on our judgement, including the identification and assessment of risk of material non-compliance with the Determination.

In making those risk assessments, we consider internal control relevant to the Company's preparation of the Annual Compliance Statement in order to design audit 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. A reasonable assurance engagement also includes evaluating the appropriateness of accounting policies used and the reasonableness of accounting estimates, as well as evaluating the overall presentation of the Annual Compliance Statement.

Our procedures included:

- examining, on a test basis, evidence relevant to the amounts and disclosures contained on pages 3 to 16 of the Annual Compliance Statement in relation to the Customised Price Path Compliance Information and Quality Compliance Information set out in Clauses 8 and 9 of the Determination respectively;
- assessing significant estimates and judgements, if any, made by the Company in the preparation of the Annual Compliance Statement;
- assessing whether the basis of preparation of the Annual Compliance Statement has been adequately disclosed; and
- ensuring that the information used in preparing the Annual Compliance Statement has been properly extracted from the Company's accounting and other records, sourced from its financial and non-financial systems.

These procedures have been undertaken to form an opinion as to whether the Company has complied, in all material respects, with the Determination in preparing the Annual Compliance Statement for the period 1 April 2022 to 31 March 2023.

Inherent Limitations

Because of the inherent limitations of an assurance engagement, together with the inherent limitations of any system of internal control, it is possible that fraud, error or non-compliance may occur and not be detected. As the procedures performed for this engagement are not performed continuously throughout 1 April 2022 to 31 March 2023 and the procedures performed in respect of the Company's compliance with the Determination are undertaken on a test basis, our assurance engagement cannot be relied on to detect all instances where the Company may not have complied with the Determination. We did not examine every transaction, adjustment or event underlying the Compliance Statement nor do we guarantee complete accuracy of the Annual Compliance Statement. We also did not evaluate the security and controls over the electronic publication of the Compliance Statement. The opinion expressed in this report has been formed on the above basis.

Use of Report

This report is provided solely for your use and solely for the purpose of Clause 11.5(e) of the Determination. However, we understand that a copy of this report has been requested by the Commerce Commission solely for the purpose of above. We agree that a copy of our report may be provided to the Commerce Commission. This report

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

Deloitte Limited

Deloitte Limited
Auckland, New Zealand
22 August 2023

7. Appendices

The following list of appendices provides further information supporting this compliance statement.

Attachment reference	Information provided
A – Price and actual quantities for the assessment period	Details prices and corresponding actual quantities for each tariff group across Powerco’s Eastern and Western networks. The product of prices and actual quantities is Powerco’s actual revenue from prices for the assessment period in section 2 of this document.
B – Reliability limits, boundary values, target, cap and collar	Lists the SAIDI and SAIFI limits, boundary values used to determine major event days, target, cap and collar values as specified in the Determination.
C – Commentary on major event days	Provides further detail on reliability and major event days.
D – Exceeding the unplanned interruptions	Provides reasons for non-compliance and actions taken to mitigate.
E – Compliance statement references	Notes the compliance requirements from the Determination and where they are evidenced in this Statement.

Attachment A – Prices and actual quantities for the assessment period

Western Network				Distribution Prices FY23 (Prices 1 April 2022 to 31 March 2023)										
				Fixed			Variable						Individually Priced	
				Network Asset Charge			Volume Charge			Demand Charge			Indirect Fixed (\$/ICP)	Non-ICP Fixed (\$/day)
				ICP \$/Month	ICP cents/day	CT/VT Charge (\$/day)	Uncontrolled c/kWh	On Peak c/kWh	Off Peak c/kWh	Dist-\$/kW /Month	Trans-\$/kW /Month	\$/kVAr /Month		
Tariff Group	GXP Group	GXP												
Residential+Small Commercial														
E1C	A	Brunswick	BRK	15.00			7.1100	5.4800						
E1UC	A	Brunswick	BRK	30.00			7.1100	5.4800						
E1C	A	Bunnythorpe	BPE	15.00			7.1100	5.4800						
E1UC	A	Bunnythorpe	BPE	30.00			7.1100	5.4800						
E1C	A	Carrington	CST	15.00			7.1100	5.4800						
E1UC	A	Carrington	CST	30.00			7.1100	5.4800						
E1C	A	Huirangi	HUI	15.00			7.1100	5.4800						
E1UC	A	Huirangi	HUI	30.00			7.1100	5.4800						
E1C	A	Linton	LTN	15.00			7.1100	5.4800						
E1UC	A	Linton	LTN	30.00			7.1100	5.4800						
E1C	A	Moturoa / New Plymouth	NPL	15.00			7.1100	5.4800						
E1UC	A	Moturoa / New Plymouth	NPL	30.00			7.1100	5.4800						
E1C	A	Stratford	SFD	15.00			7.1100	5.4800						
E1UC	A	Stratford	SFD	30.00			7.1100	5.4800						
E1C	A	Wanganui	WGN	15.00			7.1100	5.4800						
E1UC	A	Wanganui	WGN	30.00			7.1100	5.4800						
E1C	B	Greytown	GYT	15.00			9.1800	7.4200						
E1UC	B	Greytown	GYT	30.00			9.1800	7.4200						
E1C	B	Hawera	HWA	15.00			9.1800	7.4200						
E1UC	B	Hawera	HWA	30.00			9.1800	7.4200						
E1C	B	Mangamaire	MGM	15.00			9.1800	7.4200						
E1UC	B	Mangamaire	MGM	30.00			9.1800	7.4200						
E1C	B	Marion	MTN	15.00			9.1800	7.4200						
E1UC	B	Marion	MTN	30.00			9.1800	7.4200						
E1C	B	Masterton	MST	15.00			9.1800	7.4200						
E1UC	B	Masterton	MST	30.00			9.1800	7.4200						
E1C	B	Mataroa	MTR	15.00			9.1800	7.4200						
E1UC	B	Mataroa	MTR	30.00			9.1800	7.4200						
E1C	B	Ohakune	OKN	15.00			9.1800	7.4200						
E1UC	B	Ohakune	OKN	30.00			9.1800	7.4200						
E1C	B	Opunake	OPK	15.00			9.1800	7.4200						
E1UC	B	Opunake	OPK	30.00			9.1800	7.4200						
E1C	B	Waverley	WVY	15.00			9.1800	7.4200						
E1UC	B	Waverley	WVY	30.00			9.1800	7.4200						
Medium/Large Commercial														
E100	A	Carrington	CST	880.0000	4.5400	0.5000			0.3317		7.0000			
E100	A	Huirangi	HUI	880.0000	4.5400	0.5000			0.3317		7.0000			
E100	A	New Plymouth	NPL	880.0000	4.5400	0.5000			0.3317		7.0000			
E100	A	Stratford	SFD	880.0000	4.5400	0.5000			0.3317		7.0000			
E100	B	Hawera	HWA	880.0000	4.5400	0.5000			0.5716		7.0000			
E100	C	Waverley	WVY	880.0000	4.5400	0.5000			0.4074		7.0000			
E100	D	Opunake	OPK	880.0000	4.5400	0.5000			0.4351		7.0000			
E100	E	Brunswick	BRK	880.0000	4.5400	0.5000			0.3409		7.0000			
E100	E	Wanganui	WGN	880.0000	4.5400	0.5000			0.3409		7.0000			
E100	F	Marion	MTN	880.0000	4.5400	0.5000			0.4135		7.0000			
E100	G	Mataroa	MTR	880.0000	4.5400	0.5000			0.6419		7.0000			
E100	G	Ohakune	OKN	880.0000	4.5400	0.5000			0.6419		7.0000			
E100	H	Masterton	MST	880.0000	4.5400	0.5000			0.4748		7.0000			
E100	H	Greytown	GYT	880.0000	4.5400	0.5000			0.4748		7.0000			
E100	I	Bunnythorpe	BPE	880.0000	4.5400	0.5000			0.2996		7.0000			
E100	I	Linton	LTN	880.0000	4.5400	0.5000			0.2996		7.0000			
E100	J	Mangamaire	MGM	880.0000	4.5400	0.5000			0.4433		7.0000			
W50	Asset Based										7.0000	45.403.1363		
SPECIAL	Asset Based										7.0000	148.601.9133		
Base Power	Non-ICP Based													1.5848

CPP Annual Compliance Statement 2023



Western Network		
Tariff Group	GXP Group	GXP

Transmission Prices FY23 (Prices 1 April 2022 to 31 March 2023)										
Fixed			Variable						Individually Priced	
Network Asset Charge			Volume Charge			Demand Charge			Indirect Fixed (\$/ICP)	Non-ICP Fixed (\$/day)
ICP \$/Month	ICP cents/day	CT/VT Charge (\$/day)	Uncontrolled c/kWh	On Peak c/kWh	Off Peak c/kWh	Dist-\$/kW /Month	Trans-\$/kW /Month	\$/kVA /Month		

Residential+Small Commercial			
E1C	A	Brunswick	BRK
E1UC	A	Brunswick	BRK
E1C	A	Bunnythorpe	BPE
E1UC	A	Bunnythorpe	BPE
E1C	A	Carrington	CST
E1UC	A	Carrington	CST
E1C	A	Huirangi	HUI
E1UC	A	Huirangi	HUI
E1C	A	Linton	LTN
E1UC	A	Linton	LTN
E1C	A	Moturoa / New Plymouth	NPL
E1UC	A	Moturoa / New Plymouth	NPL
E1C	A	Stratford	SFD
E1UC	A	Stratford	SFD
E1C	A	Wanganui	WGN
E1UC	A	Wanganui	WGN

					5.8100	1.0600				
					5.8100	1.0600				
					5.8100	1.0600				
					5.8100	1.0600				
					5.8100	1.0600				
					5.8100	1.0600				
					5.8100	1.0600				
					5.8100	1.0600				
					5.8100	1.0600				
					5.8100	1.0600				
					5.8100	1.0600				
					5.8100	1.0600				
					5.8100	1.0600				
					5.8100	1.0600				
					5.8100	1.0600				

E1C	B	Greytown	GYT
E1UC	B	Greytown	GYT
E1C	B	Hawera	HWA
E1UC	B	Hawera	HWA
E1C	B	Mangamaire	MGM
E1UC	B	Mangamaire	MGM
E1C	B	Marlon	MTN
E1UC	B	Marlon	MTN
E1C	B	Masterton	MST
E1UC	B	Masterton	MST
E1C	B	Mataroa	MTR
E1UC	B	Mataroa	MTR
E1C	B	Ohakune	OKN
E1UC	B	Ohakune	OKN
E1C	B	Opunake	OPK
E1UC	B	Opunake	OPK
E1C	B	Waverley	WVY
E1UC	B	Waverley	WVY

					5.3900	1.0600				
					5.3900	1.0600				
					5.3900	1.0600				
					5.3900	1.0600				
					5.3900	1.0600				
					5.3900	1.0600				
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					5.3900	1.0600				
					5.3900	1.0600				
					5.3900	1.0600				
					5.3900	1.0600				
					5.3900	1.0600				
					5.3900	1.0600				
					5.3900	1.0600				
					5.3900	1.0600				
					5.3900	1.0600				

Medium/Large Commercial			
E100	A	Carrington	CST
E100	A	Huirangi	HUI
E100	A	New Plymouth	NPL
E100	A	Stratford	SFD
E100	B	Hawera	HWA
E100	C	Waverley	WVY
E100	D	Opunake	OPK
E100	E	Brunswick	BRK
E100	E	Wanganui	WGN
E100	F	Marlon	MTN
E100	G	Mataroa	MTR
E100	G	Ohakune	OKN
E100	H	Masterton	MST
E100	H	Greytown	GYT
E100	I	Bunnythorpe	BPE
E100	I	Linton	LTN
E100	J	Mangamaire	MGM

								0.34580		
								0.34580		
								0.34580		
								0.34580		
								0.34580		
								0.34580		
								0.34580		
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								0.34580		
								0.34580		
								0.34580		
								0.34580		
								0.34580		
								0.34580		

W50	Asset Based
SPECIAL	Asset Based

										20,944.4287
										122,642.2894

Base Power	Non-ICP Based
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CPP Annual Compliance Statement 2023



Western Network			Quantities FY23 (Period 1 April 2022 to 31 March 2023)													
Tariff Group	GXP Group	GXP	ICP No.'s (Average)	ICP Days	ICP Months	CT/VTs	kWh Uncontrolled	kWh Day	kWh Night	kWh On peak	kWh Off Peak	kW Demand (AMD for E100)	OPD (kW)	kVA Demand pa	Base Power Units (Average)	Non-ICP Days
Residential-Small Commercial																
E1C	A	Brunswick BRK	5,773	2,107,009	-	-	-	19,703,012	10,268,463	13,204,425	29,971,475	125,948	-	-	-	-
E1UC	A	Brunswick BRK	6,884	2,512,516	-	-	-	24,465,626	12,750,556	16,396,200	37,216,182	156,392	-	-	-	-
E1C	A	Bunnythorpe BPE	14,552	5,311,337	-	-	-	62,584,378	31,700,048	40,746,325	94,284,426	316,945	-	-	-	-
E1UC	A	Bunnythorpe BPE	19,823	7,235,473	-	-	-	89,674,576	45,421,693	59,383,730	135,096,269	454,138	-	-	-	-
E1C	A	Carrington CST	11,221	4,095,774	-	-	-	39,896,500	19,326,003	25,979,158	59,222,503	200,501	-	-	-	-
E1UC	A	Carrington CST	17,880	6,526,110	-	-	-	68,451,288	33,159,041	44,401,432	101,609,329	344,005	-	-	-	-
E1C	A	Huirangi HUI	4,289	1,585,437	-	-	-	18,167,494	9,589,465	11,705,831	27,756,959	31,807	-	-	-	-
E1UC	A	Huirangi HUI	6,057	2,210,532	-	-	-	27,585,445	14,550,045	17,761,197	42,115,490	139,298	-	-	-	-
E1C	A	Linton LTN	7,316	2,670,532	-	-	-	29,488,444	15,345,548	18,743,178	44,833,992	159,040	-	-	-	-
E1UC	A	Linton LTN	11,125	4,060,788	-	-	-	45,707,594	23,785,863	29,052,247	69,493,457	244,965	-	-	-	-
E1C	A	New Plymouth NPL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E1UC	A	New Plymouth NPL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E1C	A	Stratford SFD	3,740	1,365,196	-	-	-	18,012,157	10,113,358	11,536,634	28,125,514	96,833	-	-	-	-
E1UC	A	Stratford SFD	4,716	1,721,192	-	-	-	23,858,945	13,396,177	15,281,453	37,255,123	128,266	-	-	-	-
E1C	A	Wanganui WGN	4,459	1,627,525	-	-	-	16,074,708	7,871,419	9,973,665	23,946,127	99,716	-	-	-	-
E1UC	A	Wanganui WGN	5,494	2,005,459	-	-	-	22,437,748	10,987,254	13,921,658	33,426,002	139,187	-	-	-	-
E1C	B	Greytown GYT	2,992	1,091,950	-	-	-	12,230,121	7,280,760	7,604,748	19,510,881	61,643	-	-	-	-
E1UC	B	Greytown GYT	4,541	1,657,482	-	-	-	20,496,299	12,201,729	12,744,696	32,698,028	103,306	-	-	-	-
E1C	B	Hawera HWA	2,722	993,661	-	-	-	10,616,289	6,173,432	6,745,365	16,789,721	53,455	-	-	-	-
E1UC	B	Hawera HWA	6,647	2,426,241	-	-	-	31,396,567	18,256,700	19,948,077	49,652,268	158,084	-	-	-	-
E1C	B	Mangamaire MGM	1,886	688,471	-	-	-	7,776,743	4,154,386	5,071,618	11,931,129	38,041	-	-	-	-
E1UC	B	Mangamaire MGM	2,460	897,893	-	-	-	10,432,256	5,572,978	6,803,416	16,005,234	51,031	-	-	-	-
E1C	B	Marton MTN	3,728	1,360,810	-	-	-	15,547,114	8,526,573	9,828,725	24,073,687	77,167	-	-	-	-
E1UC	B	Marton MTN	2,608	951,925	-	-	-	12,131,708	6,653,447	7,669,540	18,785,155	60,215	-	-	-	-
E1C	B	Masterton MST	9,447	3,448,193	-	-	-	36,089,015	20,208,594	23,430,448	56,297,609	181,748	-	-	-	-
E1UC	B	Masterton MST	9,614	3,509,180	-	-	-	39,794,853	22,283,735	25,836,428	62,078,588	200,411	-	-	-	-
E1C	B	Mataroa MTR	1,651	602,731	-	-	-	6,519,395	3,634,001	4,172,100	10,153,396	33,963	-	-	-	-
E1UC	B	Mataroa MTR	1,129	412,171	-	-	-	4,377,286	2,439,960	2,801,253	6,817,246	22,804	-	-	-	-
E1C	B	Ohakune OKN	600	218,856	-	-	-	2,325,676	1,371,532	1,470,437	3,697,208	11,730	-	-	-	-
E1UC	B	Ohakune OKN	624	227,635	-	-	-	2,321,203	1,368,894	1,467,610	3,690,097	11,707	-	-	-	-
E1C	B	Opunake OPK	964	351,812	-	-	-	4,502,024	3,105,210	2,870,299	7,607,234	28,886	-	-	-	-
E1UC	B	Opunake OPK	2,118	773,240	-	-	-	14,141,625	9,753,993	9,016,098	23,895,618	90,736	-	-	-	-
E1C	B	Waverley WYY	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E1UC	B	Waverley WYY	1,363	497,659	-	-	-	7,198,379	4,294,331	4,422,576	11,492,710	40,731	-	-	-	-
Medium/Large Commercial																
E100	A	Carrington CST	41	14,983	-	-	-	15,677,639	-	-	-	1,608,846	839,640	2,876	-	-
E100	A	Huirangi HUI	12	4,302	-	-	-	2,620,355	-	-	-	452,450	125,535	2,904	-	-
E100	A	New Plymouth NPL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E100	A	Stratford SFD	12	4,380	-	-	-	5,072,820	-	-	-	517,935	243,090	2,246	-	-
E100	B	Hawera HWA	14	5,064	-	-	-	4,655,768	-	-	-	523,119	254,620	1,642	-	-
E100	C	Waverley WYY	2	730	-	-	-	191,424	-	-	-	41,245	8,760	40	-	-
E100	D	Opunake OPK	1	365	-	-	-	68,364	-	-	-	43,070	3,285	351	-	-
E100	E	Brunswick BRK	11	4,015	-	-	-	4,630,751	-	-	-	521,950	270,830	981	-	-
E100	E	Wanganui WGN	10	3,515	-	-	-	3,312,798	-	-	-	296,020	169,435	1,566	-	-
E100	F	Marton MTN	7	2,581	-	-	-	2,588,578	-	-	-	322,995	175,485	480	-	-
E100	G	Mataroa MTR	5	1,825	-	-	-	2,612,049	-	-	-	340,545	146,730	712	-	-
E100	G	Ohakune OKN	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E100	H	Masterton MST	33	11,930	-	-	-	10,456,229	-	-	-	1,361,071	653,077	3,628	-	-
E100	H	Greytown GYT	10	3,493	-	-	-	2,877,426	-	-	-	413,873	185,220	1,587	-	-
E100	I	Bunnythorpe BPE	70	25,617	-	-	-	25,400,409	-	-	-	2,975,028	1,515,369	6,482	-	-
E100	I	Linton LTN	41	14,900	-	-	-	11,632,851	-	-	-	1,583,042	760,695	4,922	-	-
E100	J	Mangamaire MGM	3	1,095	-	-	-	1,313,782	-	-	-	139,065	49,640	878	-	-
W50	SPECIAL	Asset Based	234	-	-	-	-	283,488,228	-	-	-	-	-	61,353	-	-
SPECIAL		Asset Based	44	-	-	-	-	376,042,086	-	-	-	-	-	27,864	-	-
Base Power			-	-	-	-	-	-	-	-	-	-	-	-	12	4,258
Non-ICP Based			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Western Region Total			178,973	65,223,665	-	-	-	752,541,556	395,544,187	478,890,567	1,139,527,655	15,061,955	5,401,412	120,510	12	4,258

CPP Annual Compliance Statement 2023



Western Network		
Tariff Group	GXP Group	GXP

Distribution Revenue (FY23 Prices)					
Fixed (Monthly)	Fixed (Daily)	Variable	Demand	Non-standard	Total

Residential+Small Commercial			
E1C	A	Brunswick	BRK
E1UC	A	Brunswick	BRK
E1C	A	Bunnythorpe	BPE
E1UC	A	Bunnythorpe	BPE
E1C	A	Carrington	CST
E1UC	A	Carrington	CST
E1C	A	Huirangi	HUI
E1UC	A	Huirangi	HUI
E1C	A	Linton	LTN
E1UC	A	Linton	LTN
E1C	A	New Plymouth	NPL
E1UC	A	New Plymouth	NPL
E1C	A	Stratford	SFD
E1UC	A	Stratford	SFD
E1C	A	Wanganui	WGN
E1UC	A	Wanganui	WGN

-	316,051	2,581,271	-	-	2,897,323
-	753,755	3,205,217	-	-	3,958,971
-	796,701	8,063,850	-	-	8,860,551
-	2,170,642	11,554,359	-	-	13,725,001
-	614,366	5,085,401	-	-	5,699,767
-	1,957,833	8,725,133	-	-	10,682,966
-	234,816	2,353,366	-	-	2,588,182
-	663,190	3,570,750	-	-	4,233,940
-	400,577	3,789,543	-	-	4,190,119
-	1,218,236	5,873,856	-	-	7,092,093
-	-	-	-	-	-
-	-	-	-	-	-
-	204,779	2,361,533	-	-	2,566,312
-	516,358	3,128,092	-	-	3,644,450
-	244,129	2,021,375	-	-	2,265,504
-	601,638	2,821,520	-	-	3,423,158

E1C	B	Greytown	GYT
E1UC	B	Greytown	GYT
E1C	B	Hawera	HWA
E1UC	B	Hawera	HWA
E1C	B	Mangamaire	MGM
E1UC	B	Mangamaire	MGM
E1C	B	Marton	MTN
E1UC	B	Marton	MTN
E1C	B	Masterton	MST
E1UC	B	Masterton	MST
E1C	B	Mataroa	MTR
E1UC	B	Mataroa	MTR
E1C	B	Ohakune	OKN
E1UC	B	Ohakune	OKN
E1C	B	Opunake	OPK
E1UC	B	Opunake	OPK
E1C	B	Waverley	WVY
E1UC	B	Waverley	WVY

-	163,793	2,145,823	-	-	2,309,616
-	497,245	3,596,157	-	-	4,093,401
-	149,049	1,865,022	-	-	2,014,071
-	727,872	5,515,432	-	-	6,243,304
-	103,271	1,350,864	-	-	1,454,135
-	269,368	1,812,142	-	-	2,081,510
-	204,122	2,688,545	-	-	2,892,666
-	285,578	2,097,922	-	-	2,383,500
-	517,229	6,328,198	-	-	6,845,427
-	1,052,754	6,978,015	-	-	8,030,769
-	90,410	1,136,381	-	-	1,226,790
-	123,651	762,995	-	-	886,646
-	32,828	409,319	-	-	442,147
-	68,291	408,532	-	-	476,822
-	52,772	827,950	-	-	880,722
-	231,972	2,600,733	-	-	2,832,705
-	-	-	-	-	-
-	149,298	1,258,752	-	-	1,408,049

Medium/Large Commercial			
E100	A	Carrington	CST
E100	A	Huirangi	HUI
E100	A	New Plymouth	NPL
E100	A	Stratford	SFD
E100	B	Hawera	HWA
E100	C	Waverley	WVY
E100	D	Opunake	OPK
E100	E	Brunswick	BRK
E100	E	Wanganui	WGN
E100	F	Marton	MTN
E100	G	Mataroa	MTR
E100	G	Ohakune	OKN
E100	H	Masterton	MST
E100	H	Greytown	GYT
E100	I	Bunnythorpe	BPE
E100	I	Linton	LTN
E100	J	Mangamaire	MGM

-	131,850	78,388	553,785	-	764,023
-	37,858	13,102	170,403	-	221,362
-	-	-	-	-	-
-	38,544	25,364	187,519	-	251,427
-	44,563	23,279	310,509	-	378,351
-	6,424	957	17,083	-	24,464
-	3,212	342	21,199	-	24,752
-	35,332	22,654	184,799	-	242,785
-	30,932	16,564	111,876	-	159,372
-	22,713	12,943	136,921	-	172,577
-	16,060	13,060	223,579	-	252,699
-	-	-	-	-	-
-	104,984	52,281	671,631	-	828,896
-	30,738	14,387	207,616	-	252,741
-	225,430	127,002	936,689	-	1,289,121
-	131,120	58,164	508,732	-	698,016
-	9,636	6,569	67,797	-	84,001

W50	Asset Based
SPECIAL	Asset Based

-	-	-	429,468	10,612,983	11,042,451
-	-	-	195,046	6,513,717	6,708,763

Base Power	Non-ICP Based
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-	6,748	-	-	-	6,748
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Western Region Total

-	16,288,714	107,383,103	4,934,649	17,126,700	145,733,165
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CPP Annual Compliance Statement 2023



Western Network		
Tariff Group	GXP Group	GXP

Transmission Revenue (FY23 Prices)					
Fixed (Monthly)	Fixed (Daily)	Variable	Demand	Non-standard	Total

Residential+Small Commercial			
E1C	A	Brunswick	BRK
E1UC	A	Brunswick	BRK
E1C	A	Bunnythorpe	BPE
E1UC	A	Bunnythorpe	BPE
E1C	A	Carrington	CST
E1UC	A	Carrington	CST
E1C	A	Huirangi	HUI
E1UC	A	Huirangi	HUI
E1C	A	Linton	LTN
E1UC	A	Linton	LTN
E1C	A	New Plymouth	NPL
E1UC	A	New Plymouth	NPL
E1C	A	Stratford	SFD
E1UC	A	Stratford	SFD
E1C	A	Wanganui	WGN
E1UC	A	Wanganui	WGN

-	-	1,084,875	-	-	1,084,875
-	-	1,347,111	-	-	1,347,111
-	-	3,366,776	-	-	3,366,776
-	-	4,824,115	-	-	4,824,115
-	-	2,131,338	-	-	2,131,338
-	-	3,656,782	-	-	3,656,782
-	-	974,333	-	-	974,333
-	-	1,478,350	-	-	1,478,350
-	-	1,564,219	-	-	1,564,219
-	-	2,424,566	-	-	2,424,566
-	-	-	-	-	-
-	-	-	-	-	-
-	-	968,409	-	-	968,409
-	-	1,282,757	-	-	1,282,757
-	-	833,299	-	-	833,299
-	-	1,163,153	-	-	1,163,153

E1C	B	Greytown	GYT
E1UC	B	Greytown	GYT
E1C	B	Hawera	HWA
E1UC	B	Hawera	HWA
E1C	B	Mangamaire	MGM
E1UC	B	Mangamaire	MGM
E1C	B	Marton	MTN
E1UC	B	Marton	MTN
E1C	B	Masterton	MST
E1UC	B	Masterton	MST
E1C	B	Mataroa	MTR
E1UC	B	Mataroa	MTR
E1C	B	Ohakune	OKN
E1UC	B	Ohakune	OKN
E1C	B	Opunake	OPK
E1UC	B	Opunake	OPK
E1C	B	Waverley	WVY
E1UC	B	Waverley	WVY

-	-	616,711	-	-	616,711
-	-	1,033,538	-	-	1,033,538
-	-	541,546	-	-	541,546
-	-	1,601,515	-	-	1,601,515
-	-	399,830	-	-	399,830
-	-	536,360	-	-	536,360
-	-	784,949	-	-	784,949
-	-	612,511	-	-	612,511
-	-	1,859,656	-	-	1,859,656
-	-	2,050,617	-	-	2,050,617
-	-	332,502	-	-	332,502
-	-	223,250	-	-	223,250
-	-	118,447	-	-	118,447
-	-	118,219	-	-	118,219
-	-	235,346	-	-	235,346
-	-	739,261	-	-	739,261
-	-	-	-	-	-
-	-	360,200	-	-	360,200

Medium/Large Commercial			
E100	A	Carrington	CST
E100	A	Huirangi	HUI
E100	A	New Plymouth	NPL
E100	A	Stratford	SFD
E100	B	Hawera	HWA
E100	C	Waverley	WVY
E100	D	Opunake	OPK
E100	E	Brunswick	BRK
E100	E	Wanganui	WGN
E100	F	Marton	MTN
E100	G	Mataroa	MTR
E100	G	Ohakune	OKN
E100	H	Masterton	MST
E100	H	Greytown	GYT
E100	I	Bunnythorpe	BPE
E100	I	Linton	LTN
E100	J	Mangamaire	MGM

-	-	-	-	-	-
-	-	-	290,347	-	290,347
-	-	-	43,410	-	43,410
-	-	-	-	-	-
-	-	-	84,061	-	84,061
-	-	-	88,048	-	88,048
-	-	-	3,029	-	3,029
-	-	-	1,136	-	1,136
-	-	-	93,653	-	93,653
-	-	-	58,591	-	58,591
-	-	-	60,683	-	60,683
-	-	-	50,739	-	50,739
-	-	-	-	-	-
-	-	-	225,834	-	225,834
-	-	-	64,049	-	64,049
-	-	-	524,015	-	524,015
-	-	-	263,048	-	263,048
-	-	-	17,165	-	17,165

W50	Asset Based
SPECIAL	Asset Based

-	-	-	-	4,895,760	4,895,760
-	-	-	-	5,375,820	5,375,820

Base Power	Non-ICP Based
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-	-	-	-	-	-
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Western Region Total

-	-	39,264,541	1,867,808	10,271,581	51,403,930
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CPP Annual Compliance Statement 2023



Eastern Network			Distribution Prices FY23 (Prices 1 April 2022 to 31 March 2023)												Individually Priced
			Fixed		Variable										
Tariff Group	Network Group	Tariff Description	Network Asset Charge		Volume Charge										Indirect Fixed (\$/ICP)
			ICP \$/Month	ICP cents/day	Uncontrolled c/kWh	Controlled c/kWh	All Inclusive c/kWh	Night Only c/kWh	On Peak Uncontrolled c/kWh	Off Peak Uncontrolled c/kWh	On Peak All Inclusive c/kWh	Off Peak All Inclusive c/kWh	Night Rate c/kWh	\$/kVAr /Month	
			24UC	CTRL	AICO	NITE	PEAK	OPFK	PKIN	OPIN	UNML				
Residential+ Small Commercial															
V05S	Valley	Low Usage - TOU	30.0000		7.3300	6.7800	7.3300	5.1600	7.3300	6.7800	7.3300	6.7800	8.5300		
V06S	Valley	Standard Residential & Commercial - TOU	85.0000		4.8300	4.2800	4.8300	2.6600	4.8300	4.2800	4.8300	4.2800	8.5300		
V08	Valley	Temporary Accommodation	99.0000		4.1900	3.3400	4.1900	2.0200	4.8300	3.3400	4.8300	3.3400	8.5300		
T05S	Tauranga	Low Usage - TOU	30.0000		6.3100	5.7600	6.3100	4.7400	6.3100	5.7600	6.3100	5.7600	7.6500		
T06S	Tauranga	Standard Residential & Commercial - TOU	85.0000		3.8100	3.2600	3.8100	2.2400	3.8100	3.2600	3.8100	3.2600	7.6500		
Unmetered Supply															
V01	Valley	Unmetered/Streetlighting			8.5300								8.5300		
V02	Valley	Unmetered/Streetlighting		11.6700											
T01	Tauranga	Unmetered/Streetlighting			7.6500								7.6500		
T02	Tauranga	Unmetered/Streetlighting		12.7600											
Medium Commercial															
V22	Valley	> 3 phase 60 amps to 3 phase 250 amps	990.0000		4.0900				4.0900	3.6200			7.0000		
V28	Valley	> 200 kVA up to 299 kVA	2,500.0000		3.6000								7.0000		
T22	Tauranga	> 3 phase 60 amps to 3 phase 250 amps	1,000.0000		4.3200	2.2500		2.3400	4.3200	3.7000			7.0000		
T28	Tauranga	> 200 kVA up to 299 kVA	2,425.0000		3.6100								7.0000		
Large Commercial / Industrial															
V40	Valley	Individual ICP prices											7.0000	29,514.0556	
V60	Valley	Individual ICP prices											7.0000	176,858.9257	
V71	Kinleith	Individual ICP prices											7.0000	3,776,708.3537	
T50	Tauranga	Individual ICP prices											7.0000	28,675.1392	
T60	Tauranga	Individual ICP prices											7.0000	163,943.7827	

CPP Annual Compliance Statement 2023



Eastern Network			Prices 1 April 2022 to 31 March 2023)											Individually Priced	
			Fixed		Variable										Demand Charge
Tariff Group	Network Group	Tariff Description	Network Asset Charge		Volume Charge							\$/kVAr /Month			
			ICP \$/Month	ICP cents/day	Uncontrolled c/kWh	Controlled c/kWh	All Inclusive c/kWh	Night Only c/kWh	On Peak Uncontrolled c/kWh	Off Peak Uncontrolled c/kWh	On Peak All Inclusive c/kWh			Off Peak All Inclusive c/kWh	Night Rate c/kWh
Residential+ Small Commercial					24UC	CTRL	AICO	NITE	PEAK	OFPK	PKIN	OPIN	UNML		
V05S	Valley	Low Usage - TOU			3.0500	0.5300	3.0500	0.5300	9.6600	0.5300	9.6600	0.5300	3.8600		
V06S	Valley	Standard Residential & Commercial - TOU			3.0500	0.5300	3.0500	0.5300	9.6600	0.5300	9.6600	0.5300	3.8600		
V08	Valley	Temporary Accommodation			3.0500	0.5300	3.0500	0.5300	9.6600	0.5300	9.6600	0.5300	3.8600		
T05S	Tauranga	Low Usage - TOU			3.4300	0.5300	3.4300	0.5300	9.8300	0.5300	9.8300	0.5300	3.5700		
T06S	Tauranga	Standard Residential & Commercial - TOU			3.4300	0.5300	3.4300	0.5300	9.8300	0.5300	9.8300	0.5300	3.5700		
Unmetered Supply															
V01	Valley	Unmetered/Streetlighting			3.8600								3.8600		
V02	Valley	Unmetered/Streetlighting		5.5700											
T01	Tauranga	Unmetered/Streetlighting			3.5700								3.5700		
T02	Tauranga	Unmetered/Streetlighting		5.4800											
Medium Commercial															
V22	Valley	> 3 phase 60 amps to 3 phase 250 amps		150.0000	2.4600			7.7900	0.4300						
V28	Valley	> 200 kVA up to 299 kVA		275.0000	1.8000										
T22	Tauranga	> 3 phase 60 amps to 3 phase 250 amps		75.0000	2.1900	1.2500	0.5300	6.2800	0.3400						
T28	Tauranga	> 200 kVA up to 299 kVA		150.0000	1.5800										
Large Commercial / Industrial															
V40	Valley	Individual ICP prices													14,500.7860
V60	Valley	Individual ICP prices													185,679.3962
V71	Kinleith	Individual ICP prices													3,908,164.5463
T50	Tauranga	Individual ICP prices													13,974.0724
T60	Tauranga	Individual ICP prices													119,096.4631

CPP Annual Compliance Statement 2023



Eastern Network			Quantities FY23 (Period 1 April 2022 to 31 March 2023)													
Tariff Group	Network Group	Tariff Description	ICP No.'s (Average)	ICP Days	kWh Uncontrolled	kWh Controlled	kWh All Inclusive	kWh Nite Only	kWh Uncontrolled On peak	kWh Uncontrolled Off Peak	kWh All Inclusive On Peak	kWh All Inclusive Off Peak	kWh Night	Distributed Generation	kVAr Demand pa	
					24UC	CTRL	AICO	NITE	PEAK	OFFPK	PKIN	OPIN	UNML	24DG		
Residential+ Small Commercial																
V05S	Valley	Low Usage - TOU	37,023	13,513,540	35,082,202	33,152,412	3,793,698	304,406	29,220,962	69,715,742	1,287,169	2,935,321	872	1,823,345	-	
V06S	Valley	Standard Residential & Commercial - TOU	36,647	13,376,226	137,499,654	35,116,997	9,306,991	1,621,367	64,002,641	154,694,884	3,279,445	7,645,847	1,903	1,482,496	-	
V08	Valley	Temporary Accommodation	-	-	-	-	-	-	-	-	-	-	-	-	-	
T05S	Tauranga	Low Usage - TOU	34,917	12,744,650	25,022,502	35,874,691	8,231,378	3,712,627	27,167,386	60,938,543	5,998,145	12,466,694	1,694	2,875,771	-	
T06S	Tauranga	Standard Residential & Commercial - TOU	54,976	20,066,144	138,169,219	73,616,560	15,059,995	4,191,384	71,916,464	167,510,354	10,711,909	22,708,082	113,574	3,512,062	-	
Unmetered Supply																
V01	Valley	Unmetered/Streetlighting	-	-	-	-	-	-	-	-	-	-	849,104	-	-	
V02	Valley	Unmetered/Streetlighting	11,562	4,215,842	-	-	-	-	-	-	-	-	1,982,226	-	-	
T01	Tauranga	Unmetered/Streetlighting	-	-	-	-	-	-	-	-	-	-	1,682,860	-	-	
T02	Tauranga	Unmetered/Streetlighting	14,228	5,193,159	-	-	-	-	-	-	-	-	3,105,256	-	-	
Medium Commercial																
V22	Valley	> 3 phase 60 amps to 3 phase 250 amps	539	196,657	58,237,849	-	-	-	1,897,846	4,915,372	-	-	-	190,182	-	
V28	Valley	> 200 kVA up to 299 kVA	46	16,823	11,237,750	-	-	-	-	-	-	-	-	-	1,192	
T22	Tauranga	> 3 phase 60 amps to 3 phase 250 amps	699	255,086	46,421,423	120,860	-	-	3,896,310	9,411,569	-	-	-	123,946	-	
T28	Tauranga	> 200 kVA up to 299 kVA	147	53,675	35,069,009	-	-	-	-	-	-	-	-	1,131	8,585	
Large Commercial / Industrial																
V40	Valley	Individual ICP prices	93	-	64,895,694	-	-	-	-	-	-	-	-	-	16,469	
V60	Valley	Individual ICP prices	26	-	305,981,139	-	-	-	-	-	-	-	-	-	38,957	
V71	Kinleith	Individual ICP prices	1	-	293,524,496	-	-	-	-	-	-	-	-	-	-	
T50	Tauranga	Individual ICP prices	228	-	173,582,011	-	-	-	-	-	-	-	-	-	37,568	
T60	Tauranga	Individual ICP prices	36	-	214,290,403	-	-	-	-	-	-	-	-	-	29,528	
Eastern Region Total			191,167	69,631,802	1,539,013,350	177,881,519	36,392,062	9,829,784	198,101,609	467,186,462	21,276,668	45,755,945	7,737,489	10,008,932	132,299	

Eastern Network			Distribution Revenue (FY23 Prices)					
Tariff Group	Network Group	Tariff Description	Fixed (Monthly)	Fixed (Daily)	Variable	Demand	Non-standard	Total
Residential+ Small Commercial								
V05S	Valley	Low Usage - TOU	-	4,054,062	12,275,107	-	-	16,329,169
V06S	Valley	Standard Residential & Commercial - TOU	-	11,369,792	18,834,967	-	-	30,204,759
V08	Valley	Temporary Accommodation	-	-	-	-	-	-
T05S	Tauranga	Low Usage - TOU	-	3,823,395	10,661,697	-	-	14,485,092
T06S	Tauranga	Standard Residential & Commercial - TOU	-	17,056,222	17,689,770	-	-	34,745,993
Unmetered Supply								
V01	Valley	Unmetered/Streetlighting	-	-	72,429	-	-	72,429
V02	Valley	Unmetered/Streetlighting	-	491,989	-	-	-	491,989
T01	Tauranga	Unmetered/Streetlighting	-	-	128,739	-	-	128,739
T02	Tauranga	Unmetered/Streetlighting	-	662,647	-	-	-	662,647
Medium Commercial								
V22	Valley	> 3 phase 60 amps to 3 phase 250 amps	-	1,946,904	2,637,486	-	-	4,584,391
V28	Valley	> 200 kVA up to 299 kVA	-	420,575	404,559	8,346	-	833,480
T22	Tauranga	> 3 phase 60 amps to 3 phase 250 amps	-	2,550,860	2,524,673	-	-	5,075,533
T28	Tauranga	> 200 kVA up to 299 kVA	-	1,301,619	1,265,991	60,098	-	2,627,708
Large Commercial / Industrial								
V40	Valley	Individual ICP prices	-	-	-	115,283	2,732,510	2,847,792
V60	Valley	Individual ICP prices	-	-	-	272,699	4,642,547	4,915,245
V71	Kinleith	Individual ICP prices	-	-	-	-	3,776,708	3,776,708
T50	Tauranga	Individual ICP prices	-	-	-	262,974	6,530,763	6,793,737
T60	Tauranga	Individual ICP prices	-	-	-	206,695	5,847,328	6,054,024
Eastern Region Total			-	43,678,065	66,495,418	926,095	23,529,856	134,629,435

Eastern Network		
Tariff Group	Network Group	Tariff Description
Residential+ Small Commercial		
V05S	Valley	Low Usage - TOU
V06S	Valley	Standard Residential & Commercial - TOU
V08	Valley	Temporary Accommodation
T05S	Tauranga	Low Usage - TOU
T06S	Tauranga	Standard Residential & Commercial - TOU
Unmetered Supply		
V01	Valley	Unmetered/Streetlighting
V02	Valley	Unmetered/Streetlighting
T01	Tauranga	Unmetered/Streetlighting
T02	Tauranga	Unmetered/Streetlighting
Medium Commercial		
V22	Valley	> 3 phase 60 amps to 3 phase 250 amps
V28	Valley	> 200 kVA up to 299 kVA
T22	Tauranga	> 3 phase 60 amps to 3 phase 250 amps
T28	Tauranga	> 200 kVA up to 299 kVA
Large Commercial / Industrial		
V40	Valley	Individual ICP prices
V60	Valley	Individual ICP prices
V71	Kinleith	
T50	Tauranga	Individual ICP prices
T60	Tauranga	Individual ICP prices
Eastern Region Total		

Transmission Revenue (FY23 Prices)					
Fixed (Monthly)	Fixed (Daily)	Variable	Demand	Non-standard	Total
-	-	4,695,206	-	-	4,695,206
-	-	12,032,245	-	-	12,032,245
-	-	-	-	-	-
-	-	4,999,701	-	-	4,999,701
-	-	14,802,726	-	-	14,802,726
-	-	32,775	-	-	32,775
-	234,822	-	-	-	234,822
-	-	-	-	-	-
-	-	60,078	-	-	60,078
-	284,585	-	-	-	284,585
-	294,986	1,601,629	-	-	1,896,615
-	46,263	202,280	-	-	248,543
-	191,315	1,294,828	-	-	1,486,142
-	80,513	554,090	-	-	634,603
-	-	-	-	1,342,531	1,342,531
-	-	-	-	4,874,084	4,874,084
-	-	-	-	3,908,165	3,908,165
-	-	-	-	3,182,595	3,182,595
-	-	-	-	4,247,774	4,247,774
-	1,132,483	40,275,557	-	17,555,149	58,963,189

Attachment B – Reliability limits and boundary values, caps, collars and targets

The reliability limits and boundary values for planned and unplanned SAIDI and SAIFI listed below are from Schedule 3.1 and 3.2 of the Determination. The target, collar and cap for unplanned SAIDI and SAIFI listed below are from Schedule 4 of the Determination.

Table B1: 2023 assessment period - Planned reliability limits

	Limit
Planned SAIDI	99.292
Planned SAIFI	0.414

Table B2: 2019-2023 assessment periods - planned reliability limits

	Limit
Accumulated planned SAIDI	454.746
Accumulated planned SAIFI	1.935

Table B3: 2023 assessment period - Unplanned reliability limits, boundary values, target, collar and cap

	Limit	Unplanned boundary value	Target	Collar	Cap
Unplanned SAIDI	175.941	11.710	155.826	135.710	175.941
Unplanned SAIFI	2.193	0.064	2.030	1.867	2.193

There have been no recalculations of the SAIDI and SAIFI limits, unplanned boundary values, targets, caps or collars in this assessment period.

Attachment C – Commentary on major event days

7 June 2022

Failure of defective overhead equipment caused a multiple-trip event in the Palmerston North region affecting over 20,000 customers over two stages. This resulted in a SAIFI Major Event Day (MED) on the 7th of June.

Interruption date	Pre-normalised unplanned SAIFI	Normalised SAIFI (boundary value)	SAIFI adjustment for normalisation
7 June 2022	0.098	0.064	0.034

12-14 February 2023 – Cyclone Gabrielle

Cyclone Gabrielle caused significant disruption across the entire Powerco network. This resulted in a Major Event Day (MED) on 12th, 13th and 14th February. The MED affected both SAIDI and SAIFI boundaries.

Interruption date	Pre-normalised unplanned SAIDI	Job count	Customers affected (unique count)
12 February 2023	71.740	41	32,951
13 February 2023	80.632	171	35,159
14 February 2023	48.274	216	33,371

Interruption date	Pre-normalised unplanned SAIFI	Normalised SAIFI (boundary value)	SAIFI adjustment for normalisation
12 February 2023	0.153	0.064	0.089
13 February 2023	0.120	0.064	0.056
14 February 2023	0.123	0.064	0.059

Attachment D – Exceeding the unplanned interruptions limit

Reasons for non-compliance with the unplanned interruptions reliability assessment

This section provides details and discusses the contributing factors to the exceedance of the unplanned SAIDI limit for 2023.

Powerco exceeded the annual unplanned SAIDI limit for the 2023 Assessment Period by 54 minutes (30.8%) and the unplanned SAIFI limit by 0.034 (1.5%). In 2023, we experienced 3 MED days due to Cyclone Gabrielle, 24 level one storm days and four level two severe weather events.

Vegetation (out of zone), foreign interference (vehicle damage) and defective equipment are the leading causes of unplanned outages across the network. The leading cause varies by location. For instance, our Industrial, Commercial, and Urban feeder network is most affected by third-party damage and defective equipment. In contrast, our Rural and Remote feeders experience a high incidence of vegetation-related faults, which can result in long restoration times due to the challenging terrain in these areas. We continually adapt our strategies to mitigate these causes, including improving information quality to enhance decision-making.

In addition to these causes and storm events, several factors have contributed to the increase in SAIDI:

- Recent safety initiatives, including a risk-based approach to re-energising high voltage lines down events and remote de-energising for safety following reported lines down hazards.
- Accessibility issues, including road closures amid flooding and landslips.

Figure D1 below presents a breakdown of the causes of unplanned SAIDI in FY23.

Figure D1: HV unplanned interruption causes by % of total SAIDI, FY23

	FY 2023												Grand Total
	April	May	June	July	August	Septemb.	October	November	December	January	February	March	
VEGETATION - OUTSIDE ZONE	0.13%	1.35%	2.61%	1.85%	0.61%	1.28%	0.37%	0.84%	0.38%	2.20%	5.59%	0.18%	17.39%
DEFECTIVE EQUIPMENT - OH EQUIPMENT FAILURE	1.06%	0.96%	2.13%	1.44%	0.69%	0.94%	2.35%	0.86%	0.45%	1.94%	2.41%	0.64%	16.69%
24 OTHERS	0.24%	0.35%	1.35%	0.76%	0.37%	0.19%	0.44%	1.04%	0.53%	0.24%	1.89%	0.65%	10.02%
FOREIGN INTERFERENCE - THIRD PARTY DAMAGE - VEHICLE DAMAGE	0.88%	0.51%	0.39%	1.46%	0.50%	0.52%	0.95%	0.93%	0.45%	2.64%	0.21%	0.27%	9.69%
DEFECTIVE EQUIPMENT - HIGH WIND	0.01%	0.99%	0.92%	1.01%	0.18%	0.23%	0.01%	0.84%	0.02%	0.20%	3.88%	0.01%	8.31%
UNKNOWN - CURSORY PATROLLED - CAUSE UNKNOWN	0.66%	0.39%	0.28%	0.58%	0.75%	0.27%	0.25%	1.18%	0.43%	0.80%	1.57%	0.41%	7.58%
DEFECTIVE EQUIPMENT - BROKEN HARDWARE	0.15%	0.55%	0.36%	1.21%	0.62%	0.38%	0.14%	0.47%	0.25%	0.79%	1.28%	0.13%	6.29%
VEGETATION - INSIDE ZONE	0.13%	0.21%	0.12%	0.48%	0.06%	0.07%	0.16%	2.67%	0.00%	0.64%	0.11%	0.34%	4.97%
VEGETATION - WIND-BLOWN DEBRIS - TREES	0.08%	0.35%	0.60%	0.44%	0.09%	0.06%	0.06%	0.87%	0.07%	0.31%	1.39%	0.02%	4.34%
LIGHTNING - LIGHTNING STRIKE		0.03%	2.13%	0.06%	0.00%	0.22%	0.08%	0.28%	0.16%	0.27%	0.14%	0.09%	3.52%
UNKNOWN - OPERATIONAL PATROLLED - CAUSE UNKNOWN	0.04%	0.62%	0.55%	0.44%	0.24%	0.47%	0.20%	0.02%	0.01%	0.23%	0.34%	0.29%	3.45%
FOREIGN INTERFERENCE - ANIMAL - BIRD STRIKE	0.38%	0.55%	0.07%	0.16%	0.09%	0.08%	0.21%	0.02%	0.71%	0.20%	0.18%	0.24%	2.89%
DEFECTIVE EQUIPMENT - UG EQUIPMENT FAILURE	0.39%	0.18%	0.16%	0.25%	0.27%	0.37%	0.11%	0.38%	0.26%	0.19%	0.21%	0.14%	2.83%
FOREIGN INTERFERENCE - ANIMAL - SUSPECT BIRD STRIKE	0.09%	0.18%	0.10%	0.08%	0.04%	0.02%	0.08%	0.28%	0.23%	0.10%	0.78%	0.06%	2.04%
Grand Total	4.24%	7.22%	12.44%	10.22%	4.50%	5.10%	5.41%	10.58%	3.95%	10.72%	21.94%	3.69%	100.00%

Please note that the category labelled '24 Others' encompasses less common cause codes, collectively amounting to less than 11% of the total SAIDI. These cause codes include Adverse Environment, Adverse Weather, Defective Equipment, Foreign Interference, Human Element, and Unknown.

We have engaged an independent expert consultant to conduct a review of our SAIDI and SAIFI performance over the FY22 and FY23 assessment periods. This analysis is aimed at gaining a deeper understanding of the specific areas of our performance that require focused attention. Through this examination, our objective is to

ensure that our strategy for managing system performance is not only achievable but also maintains its effectiveness over time.

Actions taken to mitigate non-compliance with the annual reliability assessment

Our internal SAIDI governance groups monitor and manage initiatives aimed at improving both planned and unplanned SAIDI and SAIFI performance. Following our exceedance of the unplanned SAIDI quality standard in FY22, an investigation was initiated to delve into the possible root causes behind Powerco's poor unplanned SAIDI performance. The findings from this investigation revealed the following insights:

- Longer restoration times can, in part, be attributed to a greater focus on safety; however, without effective tracking, quantifying the actual impact is challenging. The safety measures include:
 - i) Practices preventing climbing of certain pole types unbound or unsupported.
 - ii) Risk-based approach to re-energizing high voltage lines down events and remote de-energizing for safety.
 - iii) Contractor fatigue management.
- Shortage of experienced technical staff.
- Detailed fault information and defect prioritisation is required to allow better investment decisions.
- The need for a dedicated function in managing the turnaround of in-year reliability improvements.

Some of these findings have already been acted upon, and efforts for improvement are ongoing.

We have established a Reliability Engineering function with a clear mandate to identify and implement mitigation plans to address unplanned interruptions. As part of this initiative, we initially evaluated 36 feeders, aiming to gain insights into the "unknown" causes contributing to unplanned interruptions. The outcomes of this evaluation are as follows:

- 20 feeders have shown an improved trend in the number of faults.
- 13 feeders require further assessment.
- 2 feeders are currently work-in-progress, awaiting scheduled outages or remedial work.
- 1 feeder is newly established and currently ranked 35th with no historical data.

Through this process, we have acknowledged the necessity for enhancements in our vegetation management approach, especially concerning the growing number of out-of-zone faults and the influence of forestry on our network. Additionally, we have identified the importance of an improved approach to managing out-of-cycle defects. To further improve the reliability of our network, we have extended this feeder evaluation program into FY24 to analyze repeat worst-performing feeders, enabling us to identify opportunities for swift remedial improvements. Working alongside our service provider, we are actively engaging in discussions to strengthen fault response KPIs for poorly performing areas.

As part of our commitment to enhancing network performance in the long term, we have transformed our Unplanned SAIDI Governance group into the Network Reliability Governance Group (NRG). This change strengthens our efforts to meet reliability standards and regulatory requirements by prioritising and coordinating activities throughout the business related to unplanned network performance.

We are continuously evaluating technology and initiatives to reduce unplanned SAIDI and improve customer experience. Balancing competing drivers of value, reliability and customer experiences is a key focus for Powerco and our NRG group.

Improvement Focus areas leading into FY24

Advancing vegetation management:

- Exploring the use of up-to-date satellite imagery to better understand growth rates and high-risk trees.
- Identifying out-of-zone vegetation that could impact the network during adverse weather.
- Assessing the feasibility of a dedicated forestry manager to enhance collaboration with forestry owners, particularly with the emergence of carbon forestry.

Alternative solutions to address leading causes:

- Conducting detailed performance investigations to identify where network solutions will provide longer-term improvement to opex-intensive areas.
- Prioritising the replacement and relocation of high-risk assets. For example: car vs pole incidents.
- Identify areas around rivers, lakes and ponds where overhead design changes can improve inter-phase clearances to reduce bird strikes.
- Improving access track identification and maintenance to critical parts of the network to enable easier accessibility for faults response.

Adoption of drone technology under various scenarios:

- Using drones for fault response to expedite locating the fault in remote terrain.
- Utilising drones for reactive patrols on poor performing feeders. This has yielded great results to date.
- Performing detailed inspections using drones to provide an overall health profile of the feeder for investment decision making.

Technology investigations:

- A distribution faults anticipation (DFA) trial is currently underway on 10 network feeders that can assist with pinpointing possible fault causes and locations based on waveform analysis of network events.
- Exploring AI and machine learning functions to analyze and categorize the return defect data.
- Investigating the use of satellite imagery to provide insights into unstable ground conditions, identify poor health trees, and simulate storms to inform resilience planning.

Ongoing improvement initiatives from FY22

Enhancing Decision-Making with High-Quality Information. To bolster our decision-making:

- We are using our "Faults Fast Track" initiative to enhance the quality of inspection patrols.⁴
- We are improving data collection of failure mechanisms, to enable timely actions by asset owners.
- Ensuring easy access to fault, defect, and vegetation information across all business functions is a priority to facilitate better decision-making.

Working with our contractors:

- We are identifying and building additional resources to undertake key work across the network.
- We are increasing the number of fault people on-call.

⁴ We established a Fault Fast Track group to concentrate on identifying the root causes of our faults and collaborate closely with our Service Providers to implement effective solutions.

Attachment E – Compliance statement references

The following tables reference the Determination requirements and provide guidance on the section of this Statement that meets the specified requirements.

Table D1: Wash-up amount calculation

Determination clause	Determination requirement	Compliance statement section
8.6	Powerco must calculate the wash-up amount for each assessment period using the methodology specified in Schedule 1.5 of the Determination	2

Table D2: Quality path summary

Determination clause	Determination requirement	Compliance statement section
9.1(a)	Comply with the annual planned interruptions reliability assessment where assessed values for SAIDI and SAIFI for the assessment period must not exceed the reliability limits for SAIDI and SAIFI	3.1
9.1(b)	Comply with the annual planned interruptions reliability assessment for each of the two immediately preceding assessment periods	
9.7(a)	Comply with the annual unplanned interruptions reliability assessment where assessed values for SAIDI and SAIFI for the assessment period must not exceed the reliability limits for SAIDI and SAIFI	3.2
9.7(b)	Comply with the annual unplanned interruptions reliability assessment for each of the two immediately preceding assessment periods	

Table D3: Annual compliance statement

Determination clause	Determination requirement	Compliance statement section
An annual Compliance Statement must be provided to the Commission consisting of:		
11.5(a)(i)	A statement regarding compliance with the requirement to calculate the wash-up amount for the assessment period	1
11.5(a)(ii)	A statement regarding compliance with the quality standards for the assessment period	1
11.5(b)	The day on which the statement was published	1
11.5(c)	A statement whether Powerco has entered into any agreement with another EDB or Transpower for an amalgamation, merger, major transaction or non-reopener transaction in the assessment period	1
11.5(d)	A certificate in the form set out in Schedule 7 signed by at least one Director of Powerco	5
11.5(e)	An assurance report meeting the requirements in Schedule 8, in respect of all information contained in the 'annual compliance statement'	6
11.6(a)	Details of the wash-up amount calculation, together with supporting information for all components of the calculation	2 and Attachment A
11.6(b)	Any reasons for non-compliance with the annual planned interruptions reliability assessment	N/a
11.6(c)	Any reasons for non-compliance with the annual planned interruptions reliability assessment for the 5-year cap	N/a
11.6(d-1)	Any reasons for non-compliance with the annual unplanned interruptions reliability assessment	Attachment D
11.6(d-2)	Actions taken to mitigate any non-compliance and to prevent similar noncompliance in future assessment periods	Attachment D
11.6(e)	For the annual planned interruptions reliability assessment, the SAIDI assessed value, SAIFI assessed value, SAIDI limit and SAIFI limit for the assessment period, and any supporting calculations (including those in Schedule 3.1) and where applicable, the annual planned interruptions reliability assessments for the two previous assessment periods	3.1 and Attachment B

Determination clause	Determination requirement	Compliance statement section
11.6(f)	For the annual unplanned interruptions reliability assessment, the SAIDI assessed value, SAIFI assessed value, SAIDI limit, SAIFI limit, SAIDI unplanned boundary value, SAIFI unplanned boundary value, SAIDI cap, SAIFI cap, SAIDI collar, SAIFI collar, SAIDI target and SAIFI target for the assessment period, and any supporting calculations (including those in Schedule 3.2) and where applicable, the annual unplanned interruptions reliability assessments for the two previous assessment periods	3.2 and Attachment B
11.6(g)	A description of the policies and procedures which Powerco has used for capturing and recording Class B interruptions and Class C interruptions, and for calculating SAIDI assessed values and SAIFI assessed values for the assessment period	3.4
11.6(h)	The cause of each major event day within the assessment period	Attachment C

