

# **Powerco Electricity Distribution Customised Price-Quality Path**

## **Annual Compliance Statement**

**2019 Assessment period  
(1 April 2018 – 31 March 2019)**

**Powerco Limited**

**11 June 2019**

Disclaimer: This document has been prepared to comply with the Commerce Act (Powerco Limited Electricity Distribution Customised Price-Quality Path Determination 2018). The information in this document has been prepared with all care and diligence, in good faith. Any reliance on the information contained in this document, actual or purported, is at the user's own risk.

## Director's Certificate

I, John Loughlin, 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 Limited Electricity Distribution Customised Price-Quality Path Determination 2018 has been prepared in accordance with all the relevant requirements.



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Director

11 June 2019

Date

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# 1 Summary

Powerco Limited's electricity distribution business (Powerco) is subject to regulation under the Commerce Act 1986. Pursuant to the requirements of this Act, the Commerce Commission (Commission) has set a customised price-quality path (CPP) which applies to Powerco from 1 April 2018 to 31 March 2023.

The customised price-quality path requirements are set out in the Powerco Limited Electricity Distribution Customised Price-Quality Path Determination 2018 (Determination).

The Determination requires Powerco to provide an annual compliance statement (Statement) to the Commission. This Statement must:

- Include details of the wash-up amount calculation, together with supporting information for all components of the calculation (Section 2);
- Include information reasonably necessary to demonstrate whether Powerco has complied with the quality standards specified in clause 9 of the Determination (Section 3), and;
- State whether or not 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 (Section 4).

As required by clause 11.5 of the Determination, this statement confirms that Powerco:

- Has complied with the requirement to calculate the wash-up amount for the assessment period;
- Has complied with the quality standards for the assessment period; and
- 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.

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

Powerco completed this Statement on 11 June 2019. A copy is available at Powerco's principal office (Powerco, Level 2, 84 Liardet Street, New Plymouth). The Statement is published on Powerco's website ([www.Powerco.co.nz](http://www.Powerco.co.nz)) and additional copies can be provided on request.

## 2 Wash-up amount

The Determination requires Powerco to calculate an annual wash-up of the difference between revenue received and allowable revenue adjusted for actual CPI, pass-through costs and recoverable costs.<sup>1</sup>

The purpose of the wash-up mechanism is to restore each supplier to the position it would have been in had the year-ahead quantity forecast, pass through and recoverable cost forecast, and the CPI forecast been made with perfect foresight, taking account of the time value of money.

The 'wash-up amount' is available to be drawn down two years after the relevant revenue year. The two-year differential reflects the timing to finalise actual revenues (in May the year after) and the timing to set prices for the subsequent year (around December the year before).

The wash-up amount for the 2019 assessment period (1 April 2018 – 31 March 2019) will be included in the calculation of allowable revenue for the 2021 assessment period (1 April 2020 – 31 March 2021) and the prices for the same period.

### 2.1 Formula for the wash-up amount

The wash-up amount formula is specified in schedule 1.5 of the Determination. The formula is:

$$\begin{aligned} \text{Wash-up amount} &= \text{actual allowable revenue} \\ &\quad \text{less: actual revenue} \\ &\quad \text{less: revenue foregone} \end{aligned}$$

The three components of the wash-up amount are described in more detail in section 2.2 below.

### 2.2 Wash-up amount calculation

The calculation of Powerco's wash-up amount for the 2019 assessment period is provided in Table 1.

**Table 1: Wash-up amount calculation**

<b>Wash-up amount<sub>2019</sub> = actual allowable revenue<sub>2019</sub> – actual revenue<sub>2019</sub> – revenue foregone<sub>2019</sub></b>	
<b>Calculation Components</b>	<b>Amount (\$000)</b>
<b>Actual allowable revenue<sub>2019</sub></b>	<b>397,237</b>
<b>Actual revenue<sub>2019</sub></b>	<b>390,058</b>
<b>Revenue forgone<sub>2019</sub></b>	<b>0</b>
<b>Wash-up amount<sub>2019</sub></b>	<b>7,179</b>

<sup>1</sup> A CPI adjustment isn't made for the first assessment period.

The positive wash-up amount indicates that it is an under recovered amount, so it will be a positive input to the calculation of 2021 allowable revenue.

### 2.2.1 Calculation of Actual allowable revenue

Actual allowable revenue for the first assessment period means actual net allowable revenue specified in schedule 1.1 of the Determination, plus actual pass-through costs and recoverable costs.

Actual net allowable revenue is the maximum revenue, excluding pass-through and recoverable cost and any wash-up amount, Powerco is allowed to earn in the assessment period.

The calculation of actual allowable revenue for the 2019 assessment period is provided in Table 2.

**Table 2: Actual allowable revenue calculation**

<b>Actual allowable revenue<sub>2019</sub> = actual net allowable revenue<sub>2019</sub> + actual pass-through costs<sub>2019</sub> + actual recoverable costs<sub>2019</sub></b>	
<b>Calculation Components</b>	<b>Amount (\$000)</b>
<b>Actual net allowable revenue<sub>2019</sub></b>	<b>278,874</b>
<b>Actual pass-through costs<sub>2019</sub></b>	<b>3,813</b>
<b>Actual recoverable costs<sub>2019</sub></b>	<b>114,550</b>
<b>Actual allowable revenue<sub>2019</sub></b>	<b>397,237</b>

Section 2.3 contains a more detailed breakdown of actual pass-through and recoverable costs.

### 2.2.2 Calculation of Actual revenue

Actual revenue is the sum of actual revenue from prices plus other regulated income (ORI);

Where,

- **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, ORI includes gains and losses on asset disposals.

The calculation of actual revenue for the 2019 assessment period is provided in Table 3.

**Table 3: Actual revenue calculation**

<b>Actual revenue<sub>2019</sub> = actual revenue from prices<sub>2019</sub> + other regulated income<sub>2019</sub></b>	
<b>Calculation Components</b>	<b>Amount (\$000)</b>
<b>Actual revenue from prices<sub>2019</sub></b>	<b>400,386</b>
<b>Other regulated income<sub>2019</sub></b>	<b>(10,328)</b>
<b>Actual revenue<sub>2019</sub></b>	<b>390,058</b>

The calculation of other regulated income for the 2019 assessment period is provided in Table 4.

**Table 4: Other regulated income calculation**

<b>Calculation Components</b>	<b>Amount (\$000)</b>
<b>Gains / (losses) on asset disposals</b>	<b>(11,895)</b>
<b>Other regulated income (other than gains / (losses) on asset disposals)</b>	<b>1,567</b>
<b>Total</b>	<b>(10,328)</b>

Attachment A contains the full table of prices and actual quantities used to calculate actual revenue from prices.

### 2.2.3 Calculation of revenue forgone

The revenue forgone component of the wash-up amount calculation effectively places a cap on the amount of revenue that may be recovered through the wash-up mechanism if there is a reduction in revenue from prices relative to forecast of more than 20%. This would most likely occur due to a significant reduction in demand (i.e. billed quantities).

**Revenue foregone** means:

- (a) where the revenue reduction percentage is greater than 20%, the 'revenue foregone' must be calculated in accordance with the formula:

$$\text{Actual net allowable revenue} \times (\text{revenue reduction percentage} - 20\%);$$

- (b) where the revenue reduction percentage is not greater than 20%, the 'revenue foregone' is nil;

The Revenue reduction percentage formula is:

$$1 \text{ minus } (\text{actual revenue from prices} \div \text{forecast revenue from prices})$$



Powerco's revenue reduction percentage for the 2019 assessment period is -0.37%. This is less than 20% so revenue forgone is nil.

The calculation of Powerco's revenue reduction percentage for the 2019 assessment period is provided in Table 5.

**Table 5: Revenue reduction percentage calculation**

<b>Revenue reduction percentage<sub>2019</sub> = 1 – (actual revenue from prices<sub>2019</sub> ÷ forecast revenue from prices<sub>2019</sub>)</b>	
<b>Calculation Components</b>	<b>Amount (\$000)</b>
<b>Actual revenue from prices<sub>2019</sub></b>	<b>400,386</b>
<b>Forecast revenue from prices<sub>2019</sub><sup>2</sup></b>	<b>398,928</b>
<b>Revenue reduction percentage<sub>2019</sub></b>	<b>-0.37%</b>

### 2.3 Forecast v Actual pass-through and recoverable costs

Tables 6 and 7 compare the forecast pass-through and recoverable costs used to set forecast allowable revenue for the assessment period, to the actual pass-through and recoverable costs that are used to determine actual allowable revenue.

**Table 6: Actual and Forecast pass-through costs**

<b>Pass-through costs (\$000)</b>	<b>Actual</b>	<b>Forecast</b>	<b>Variance</b>
EA Levies	\$954	\$1,028	(\$74)
Commerce Commission Levies	\$658	\$657	\$1
EGCC Levies	\$186	\$189	(\$3)
Council Rates	\$2,015	\$2,036	(\$21)
<b>Total</b>	<b>\$3,813</b>	<b>\$3,910</b>	<b>(\$97)</b>

Note: numbers in this table have been rounded

<sup>2</sup> Powerco CPP price setting compliance statement 2019, p6

**Table 7: Actual and Forecast recoverable costs**

Recoverable costs (\$000)	Actual	Forecast	Variance
IRIS incentive adjustment	(\$195)	(\$195)	-
Transpower Connection Charges	\$17,989	\$18,134	(\$145)
Transpower Interconnection Charges	\$81,619	\$81,619	-
Transpower New Investment Charges	\$7,008	\$6,556	\$452
Avoided Costs of Transmission (ACOT)	\$8,580	\$10,605	(\$2,025)
Standard application fee for a CPP proposal	\$23	\$20	\$3
Fee payable to the Commission for assessing our CPP proposal.	\$1,122	\$1,300	(\$178)
A fee payable to a verifier subject to the requirement specified in a CPP determination.	\$369	\$369	-
Any auditor's costs incurred as a result of a CPP proposal.	\$375	\$375	-
A quality incentive adjustment	(\$2,094)	(\$2,094)	-
A "Capex wash-up" adjustment	(\$246)	(\$212)	(\$34)
<b>Total</b>	<b>114,550</b>	<b>\$116,477</b>	<b>(\$1,927)</b>

Note: numbers in this table have been rounded

Costs for the Assessment Period are forecast by Powerco in November as part of the company's annual budgeting process. These budgeted costs are used to estimate forecast pass-through and recoverable costs for the period.

Actual costs are extracted from Powerco's financial system for the Assessment Period. For the 2019 Assessment Period the actual pass-through and recoverable costs incurred are lower than forecast.

ACOT costs are around \$2m lower than forecast, reflecting a reduction in payments from October 2018. In August 2018 the Electricity Authority published its decision<sup>3</sup> about which distributed generation was eligible for ACOT payments from October 2018. Powerco's forecasts of these costs were needed in late 2017 so they could be reflected in pricing that was effective from April 2018. At the time, there was no information to suggest which distributed generation would be eligible, so it was assumed that all would remain eligible and the difference in cost would be captured in this washup mechanism so that consumers would receive the benefit of any subsequent reduction in costs.

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<sup>3</sup> The Authority's project is here: <https://www.ea.govt.nz/development/work-programme/pricing-cost-allocation/acot-code-change-implementation/development/list-of-distributed-generation-eligible-for-acot-in-the-lower-north-island/>. The decision about 'Lower North Island' distributed generation applies to distributed generation connections on the Powerco network.

### 3 Assessment against the Quality Path

Powerco's CPP quality path specifies separate planned and unplanned quality standards.

#### 3.1 Planned interruptions - Summary of Quality Path Compliance Information

To demonstrate compliance with the planned interruptions quality standard Powerco must:

- a) Comply with the annual planned reliability assessment specified in clause 9.5 of the Determination, such that the assessed values for planned SAIDI and SAIFI for the assessment period must not exceed the reliability limits for SAIDI and SAIFI; or
- b) Have complied with the annual planned reliability assessments for each of the two immediately preceding assessment periods per clause 9.1(b) of the Determination.

For the 2019 assessment period Powerco will be deemed to meet the requirements of b) above, if it has complied with the quality standards under the Electricity Distribution Services Default Price-Quality Path Determination 2015 (DPP) for the 2017 and 2018 assessment periods. Under the DPP standards, planned and unplanned interruptions were combined into a single measure rather than being separated quality standards as they are for the CPP. Powerco's reliability results for the 2017 and 2018 assessment periods have been disclosed in full in tables 9 and 12 for both SAIDI and SAIFI.

Powerco has exceeded the planned SAIDI and planned SAIFI annual reliability limits for the 2019 assessment period (Table 8).

**Table 8: 2019 Planned interruptions annual reliability assessment**

CPP Requirement	Results	Assessment
Assessed planned SAIDI <sub>2019</sub> ≤ Limit <sub>2019</sub>	84.044 ≥ 79.976	Exceeds limit
Assessed planned SAIFI <sub>2019</sub> ≤ Limit <sub>2019</sub>	0.409 ≥ 0.344	Exceeds limit

#### Compliance with the Multi-Year Assessment

Under clause 9.1(b) of the Determination, compliance with the planned quality standard may be demonstrated by showing that compliance with the annual reliability assessments has been achieved in each of the two preceding assessment periods.

Powerco's historic assessment data is included in Table 9. Table 10 indicates (✓ or ✗) if those results were compliant with the respective reliability limits. Powerco has met the requirements.

**Table 9: Reliability results for 2017 to 2019 (planned interruptions)**

Year	Reliability Results – planned interruptions	
	SAIDI	SAIFI
2017	203.879	2.483
2018	205.265	2.120
2019	84.044	0.409

**Table 10: Compliance with the multi-year assessment**

	2017	2018	2019	Result
SAIDI	✓	✓	✗	Complies
SAIFI	✓	✓	✗	Complies

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

### 3.2 Unplanned interruptions - Summary of Quality Path Compliance Information

To demonstrate compliance with the unplanned interruptions quality standard Powerco must:

- Comply with the annual unplanned reliability assessment specified in clause 9.10 of the Determination, such that the assessed values for unplanned SAIDI and SAIFI for the assessment period must not exceed the reliability limits for SAIDI and SAIFI; or
- Have complied with the annual unplanned reliability assessments for each of the two immediately preceding assessment periods per clause 9.7(b).

For the 2019 assessment period Powerco will be deemed to meet the requirements of b) above, if it has complied with the quality standards under the Electricity Distribution Services Default Price-Quality Path Determination 2015 (DPP) for the 2017 and 2018 assessment periods. Under the DPP planned and unplanned interruptions were combined into a single measure rather than being separated quality standards as they are for the CPP. Powerco's reliability results for the 2017 and 2018 assessment periods have been disclosed in full in tables 9 and 12 for both SAIDI and SAIFI.

Powerco has exceeded the unplanned SAIDI limit and complied with the unplanned SAIFI limit for the 2019 assessment period (table 11).

**Table 11: 2019 Unplanned interruptions annual reliability assessment**

CPP Requirement	Results	Assessment
Assessed unplanned SAIDI <sub>2019</sub> ≤ Limit <sub>2019</sub>	197.346 ≥ 191.414	Exceeds limit
Assessed unplanned SAIFI <sub>2019</sub> ≤ Limit <sub>2019</sub>	2.029 ≤ 2.285	Complies

## Compliance with the Multi-Year Assessment

Under clause 9.7(b) of the Determination, compliance with the unplanned quality standards may be demonstrated by showing that compliance with the annual reliability assessments has been achieved in each of the two preceding assessment periods.

Powerco's historic assessment data is included in Table 12. Table 13 indicates (✓ or ✗) if those results were compliant with the respective reliability limits. Powerco has met the requirements.

**Table 12: Reliability results for 2017 to 2019**

Year	Reliability Results – unplanned interruptions	
	SAIDI	SAIFI
2017	203.879	2.483
2018	205.265	2.120
2019	197.346	2.029

**Table 13: Compliance with the multi-year assessment**

	2017	2018	2019	Result
SAIDI	✓	✓	✗	Complies
SAIFI	✓	✓	✓	Complies

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 document.

### 3.3 Planned SAIDI and SAIFI calculation

#### Planned SAIDI

To calculate planned SAIDI, the assessment dataset is populated by listing all planned (Class B) interruptions on Powerco's network for the assessment period.

#### Planned SAIFI

To calculate planned SAIFI, the assessment dataset is populated by listing all planned (Class B) and all interruptions on Powerco's network for the assessment period

### 3.4 Unplanned SAIDI and SAIFI calculation

#### 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 Days (MEDs).

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**

<b>SAIDI unplanned</b> <small>Assess,2019 = SAIDI<sub>C</sub></small>	
<b>Calculation Components</b>	<b>Result<sup>4</sup></b>
Assessment dataset for SAIDI <sub>C</sub> – total unplanned SAIDI for the assessment period.	226.843
Normalise Assessment Dataset 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. There was one major event day where the daily unplanned SAIDI value exceeded the SAIDI Unplanned Boundary Value. This resulted in a decrease of 29.497 minutes in the dataset.	29.497
<b>SAIDI unplanned</b> <small>Assess,2019</small>	197.346

### Major Event Days in the Assessment Period

There was one SAIDI major event day in the assessment period.

**Table 15: SAIDI major event day normalisation**

<b>Interruption Date</b>	<b>Pre-normalised Unplanned SAIDI</b>	<b>Normalised SAIDI (Boundary Value)</b>	<b>SAIDI Adjustment for normalisation</b>
10 April 2018	41.207	11.710	29.497

Further information on this major event day is included in Attachment F.

### 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 Major Event Days (MEDs).

<sup>4</sup> The figures in the reliability tables are to three decimal places. The underlying calculations are based on more detailed numbers (i.e. to more decimal places than shown in this document). This may cause rounding inconsistencies. These inconsistencies do not affect the overall compliance calculations which are based on the more detailed information.

A MED occurs when the daily SAIFI value for unplanned interruptions exceeds Powerco's SAIFI Boundary Value. The SAIFI boundary value for Powerco is specified in Schedule 3.2 of the Determination. For the current Regulatory Period the SAIFI Boundary Value is an event frequency of 0.064.

**Table 16: Calculating Powerco's SAIFI Assessment Values**

<b>SAIFI<sub>Assess,2019</sub> = SAIF<sub>C</sub></b>	
<b>Calculation Components</b>	<b>Result<sup>5</sup></b>
Assessment dataset for SAIF <sub>C</sub> – total unplanned SAIFI for the assessment period.	2.083
Normalise Assessment Dataset 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. There was one SAIFI major event day in the Assessment Period. This resulted in a decrease of 0.054 in the dataset.	0.054
<b>SAIF<sub>C,Assess,2019</sub></b>	<b>2.029</b>

### Major Event Days in the Assessment Period

There was one SAIFI major event day in the assessment period.

**Table 17: SAIFI major event day normalisation**

<b>Interruption Date</b>	<b>Pre-normalised Unplanned SAIFI</b>	<b>Normalised SAIFI (Boundary Value)</b>	<b>SAIFI Adjustment for normalisation</b>
10 April 2018	0.118	0.064	0.054

Further information on these major event days is included in Attachment F.

## 3.5 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 who initiate and manage all fault reports;

<sup>5</sup> The figures in the reliability tables are to three decimal places. The underlying calculations are based on more detailed numbers (i.e. to more decimal places than shown in this document). This may cause rounding inconsistencies. These inconsistencies do not affect the overall compliance calculations which are based on the more detailed information.



- 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, 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<sup>6</sup>. Information recorded includes the date, time and cause of the fault, voltage of the faulted circuit and the transformers affected.
- 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.

### Calculating SAIDI and SAIFI

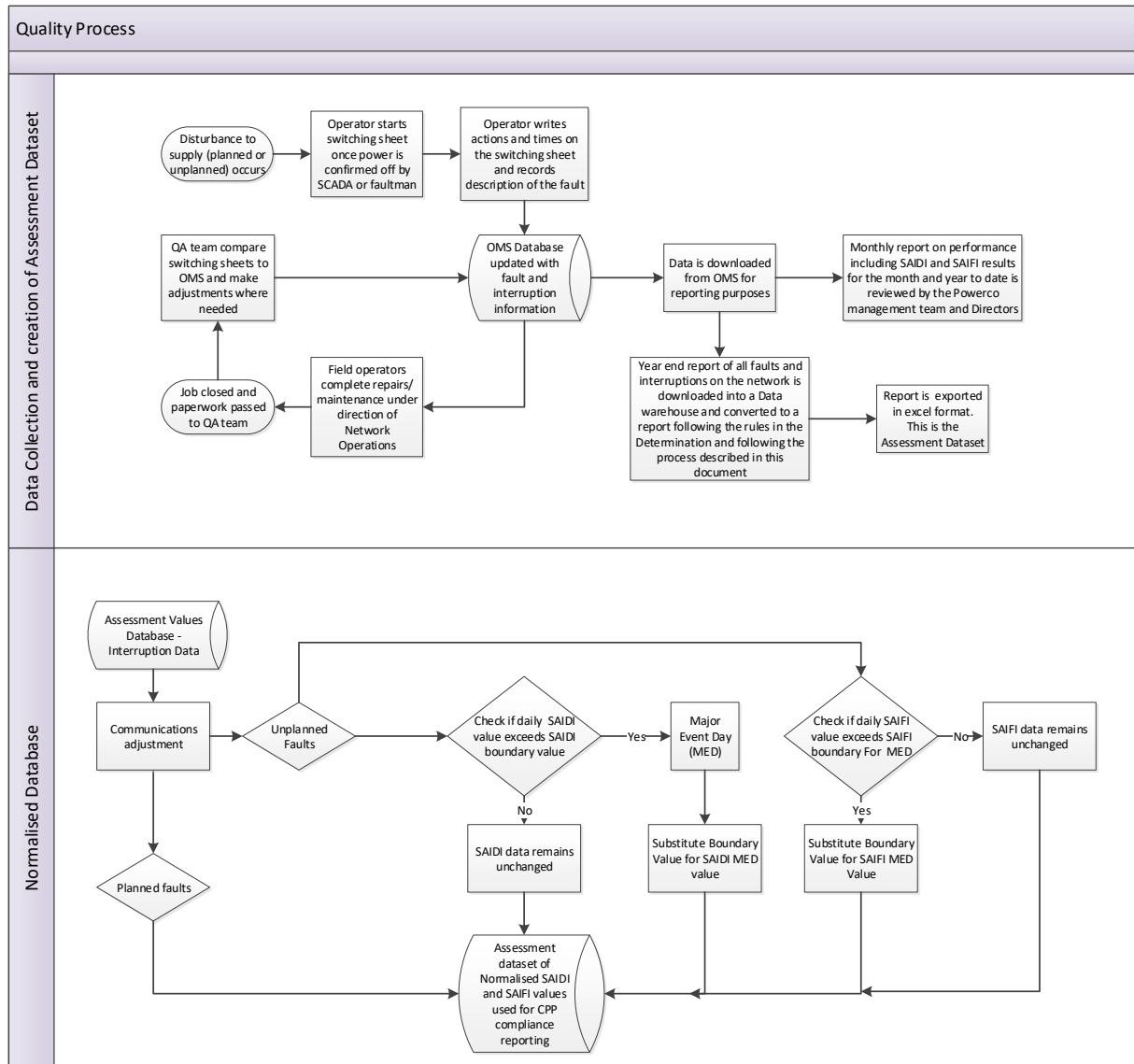
In utilising the input data noted above, Powerco applies processes to ensure compliance with Schedules 3.1 and 3.2 of the Determination, as shown diagrammatically in Figure 1. The following key calculation steps are applied:

- 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.
- Calculation of the final year result is completed using the outage / interruption records in the Outage Management Database noting a range of global corrections and refinements are required as set out below.
- There are a number of practical delays affecting the recorded restoration time for many faults; these include SCADA polling delays, voice communication constraints and clock time coding discrepancies. To correct for these discrepancies an adjustment of three minutes per interruption is made across all fault records.
- 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.

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<sup>6</sup> Powerco note 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.

Figure 1: Powerco’s process to create the normalised dataset



## **4 Amalgamation, mergers, major transactions and reopener 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.



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

### **Report on Powerco Limited's Annual Compliance Statement**

We have conducted a reasonable assurance on Powerco Limited's ('the Company') compliance with the Powerco Limited Electricity Distribution Customised Price-Quality Path Determination 2018 ('the Determination') in relation to the preparation of Sections 1, 2, 3 and 4 of the Company's Annual Compliance Statement ('the Annual Compliance Statement') on pages 5 to 19 for the period 1 April 2018 to 31 March 2019.

In our opinion, for the period 1 April 2018 to 31 March 2019:

- 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 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' Responsibilities**

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

### **Our Responsibilities**

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) 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 relation to the preparation of the 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.

Our procedures included:

- Examining, on a test basis, evidence relevant to the amounts and disclosures contained on pages 5 to 19 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 relation to the preparation of the Annual Compliance Statement for the period 1 April 2018 to 31 March 2019.

## **Our Qualifications**

We are qualified as an auditor as defined in the Determination.

## **Inherent Limitations**

Because of the inherent limitations of an assurance engagement, together with the inherent limitations of any systems of internal control, there is unavoidable risk that fraud, error or non-compliance by the Company with the Determination in relation to the preparation of the Annual Compliance Statement may occur and not be detected, even though the engagement is properly planned and performed in accordance with SAE 3100 (Revised). We did not examine every transaction, adjustment or event underlying the Compliance Statement nor do we guarantee complete accuracy of the Annual Compliance Statement. Also we 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 exclusive 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 above. We agree that a copy of our report may be provided to the Commerce Commission. This report is not to be used for any other purpose, recited or referred to in any document, copied or made available (in whole or in part) to any other person without our prior written consent. We accept or assume no duty, responsibility or liability to any party, other than you, in connection with the report or this engagement including without limitation, liability for negligence in relation to the opinion expressed in our report.

*Deloitte Limited*

## 6 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. Powerco’s Western and Eastern regions are provided separately. The product of prices and actual quantities is Powerco’s actual revenue from prices for the assessment period in section 2.2.2 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 – Reasons for non-compliance with the planned interruptions reliability assessment	Provides detail on planned SAIDI and SAIFI for Powerco’s network during the 2019 Assessment Period and discusses the contributing factors to the exceedance of the planned SAIDI and SAIFI limit.
D - Reasons for non-compliance with the unplanned interruptions reliability assessment	Provides detail on unplanned SAIDI for Powerco’s network during the 2019 Assessment Period and discusses the contributing factors to the exceedance of the unplanned SAIDI limit.
E- Actions taken to mitigate non-compliance with the annual reliability assessment	Provides details on the actions Powerco has taken to mitigate non-compliance with the annual reliability assessment and to prevent similar non-compliance in future assessment periods.
F – Commentary on Major Event Days	Provides further detail on reliability and major event days.
G – Compliance references	Notes the compliance requirements from the Determination and where they are evidenced in this Compliance Statement.

# Attachment A – Prices and actual quantities for the assessment period

## Western Network Distribution Prices

					Distribution Prices FY19 (Period 1 April 2018 to 31 March 2019)												
Western Network					Fixed					Individually Priced							
					Network Asset Charge					Demand Charge							
Tariff Group	GXP Group	GXP	ICP \$/Month	ICP cents/day	Transformer \$/day	Installed Capacity \$/kVA/Month	CT/VT Charge (\$/day)	Day Rate c/kWh	Night Rate c/kWh	Dist-\$/kWh /Month	Trans-\$/kWh /Month	\$/kVA/ /Month	ABP (\$/AMD)	Indirect Fixed (\$/ICP)	Indirect Variable (\$/OPD)	Connection charge (\$/AMD)	Interconnection charge (\$/OPD)
					CTUD					CTUN							
<b>Residential-Small Commercial</b>																	
E1CA	E1C	A	Brunswick	BRK	0.00			6.2300	1.2500	6.6700							
E1UCA	E1UC	A	Brunswick	BRK	15.00			6.2300	1.2500	6.6700							
E1CA	E1C	A	Burnythorpe	BPE	0.00			6.2300	1.2500	6.6700							
E1UCA	E1UC	A	Burnythorpe	BPE	15.00			6.2300	1.2500	6.6700							
E1CA	E1C	A	Carrington	CST	0.00			6.2300	1.2500	6.6700							
E1UCA	E1UC	A	Carrington	CST	15.00			6.2300	1.2500	6.6700							
E1CA	E1C	A	Huirangi	HUI	0.00			6.2300	1.2500	6.6700							
E1UCA	E1UC	A	Huirangi	HUI	15.00			6.2300	1.2500	6.6700							
E1CA	E1C	A	Linton	LTN	0.00			6.2300	1.2500	6.6700							
E1UCA	E1UC	A	Linton	LTN	15.00			6.2300	1.2500	6.6700							
E1CA	E1C	A	Moturoa / New Plymouth	NPL	0.00			6.2300	1.2500	6.6700							
E1UCA	E1UC	A	Moturoa / New Plymouth	NPL	15.00			6.2300	1.2500	6.6700							
E1CA	E1C	A	Stratford	SFD	0.00			6.2300	1.2500	6.6700							
E1UCA	E1UC	A	Stratford	SFD	15.00			6.2300	1.2500	6.6700							
E1CA	E1C	A	Wanganui	WGN	0.00			6.2300	1.2500	6.6700							
E1UCA	E1UC	A	Wanganui	WGN	15.00			6.2300	1.2500	6.6700							
E1CB	E1C	B	Greytown	GYT	0.00			8.4700	1.6800	9.5900							
E1UCB	E1UC	B	Greytown	GYT	15.00			8.4700	1.6800	9.5900							
E1CB	E1C	B	Hawera	HWA	0.00			8.4700	1.6800	9.5900							
E1UCB	E1UC	B	Hawera	HWA	15.00			8.4700	1.6800	9.5900							
E1CB	E1C	B	Mangamaire	MGM	0.00			8.4700	1.6800	9.5900							
E1UCB	E1UC	B	Mangamaire	MGM	15.00			8.4700	1.6800	9.5900							
E1CB	E1C	B	Marton	MTN	0.00			8.4700	1.6800	9.5900							
E1UCB	E1UC	B	Marton	MTN	15.00			8.4700	1.6800	9.5900							
E1CB	E1C	B	Masterton	MST	0.00			8.4700	1.6800	9.5900							
E1UCB	E1UC	B	Masterton	MST	15.00			8.4700	1.6800	9.5900							
E1CB	E1C	B	Mataroa	MTR	0.00			8.4700	1.6800	9.5900							
E1UCB	E1UC	B	Mataroa	MTR	15.00			8.4700	1.6800	9.5900							
E1CB	E1C	B	Ohakune	OKN	0.00			8.4700	1.6800	9.5900							
E1UCB	E1UC	B	Ohakune	OKN	15.00			8.4700	1.6800	9.5900							
E1CB	E1C	B	Opunake	OPK	0.00			8.4700	1.6800	9.5900							
E1UCB	E1UC	B	Opunake	OPK	15.00			8.4700	1.6800	9.5900							
E1CB	E1C	B	Waverley	WVY	0.00			8.4700	1.6800	9.5900							
E1UCB	E1UC	B	Waverley	WVY	15.00			8.4700	1.6800	9.5900							
<b>Medium/Large Medium/Large Commercial</b>																	
E100A	E100	A	Carrington	CST	291.00			8.06		0.3371		3.00					
E100A	E100	A	Huirangi	HUI	291.00			8.06		0.3371		3.00					
E100A	E100	A	Moturoa / New Plymouth	NPL	291.00			8.06		0.3371		3.00					
E100A	E100	A	Stratford	SFD	291.00			8.06		0.3371		3.00					
E100B	E100	B	Hawera	HWA	291.00			8.06		0.6818		3.00					
E100C	E100	C	Waverley	WVY	291.00			8.06		0.6001		3.00					
E100D	E100	D	Opunake	OPK	291.00			8.06		0.6154		3.00					
E100E	E100	E	Brunswick	BRK	291.00			8.06		0.3950		3.00					
E100E	E100	E	Wanganui	WGN	291.00			8.06		0.3950		3.00					
E100F	E100	F	Marton	MTN	291.00			8.06		0.4754		3.00					
E100G	E100	G	Masterton	MTR	291.00			8.06		0.6479		3.00					
E100G	E100	G	Ohakune	OKN	291.00			8.06		0.6479		3.00					
E100H	E100	H	Masterton	MST	291.00			8.06		0.5629		3.00					
E100H	E100	H	Greytown	GYT	291.00			8.06		0.5629		3.00					
E100I	E100	I	Burnythorpe	BPE	291.00			8.06		0.3567		3.00					
E100I	E100	I	Linton	LTN	291.00			8.06		0.3567		3.00					
E100J	E100	J	Mangamaire	MGM	291.00			8.06		0.4258		3.00					
					0	0	0	0	0								
E300A	E300	A	Carrington	CST			1.85	8.06		0.1472		3.00					
E300A	E300	A	Huirangi	HUI			1.85	8.06		0.1472		3.00					
E300A	E300	A	Moturoa / New Plymouth	NPL			1.85	8.06		0.1472		3.00					
E300A	E300	A	Stratford	SFD			1.85	8.06		0.1472		3.00					
E300B	E300	B	Hawera	HWA			1.85	8.06		0.2763		3.00					
E300C	E300	C	Waverley	WVY			1.85	8.06		0.5505		3.00					
E300D	E300	D	Opunake	OPK			1.85	8.06		0.3109		3.00					
E300E	E300	E	Brunswick	BRK			1.85	8.06		0.1566		3.00					
E300E	E300	E	Wanganui	WGN			1.85	8.06		0.1566		3.00					
E300F	E300	F	Marton	MTN			1.85	8.06		0.2496		3.00					
E300G	E300	G	Masterton	MTR			1.85	8.06		0.4196		3.00					
E300G	E300	G	Ohakune	OKN			1.85	8.06		0.4196		3.00					
E300H	E300	H	Masterton	MST			1.85	8.06		0.3589		3.00					
E300H	E300	H	Greytown	GYT			1.85	8.06		0.3589		3.00					
E300I	E300	I	Burnythorpe	BPE			1.85	8.06		0.2462		3.00					
E300I	E300	I	Linton	LTN			1.85	8.06		0.2462		3.00					
E300J	E300	J	Mangamaire	MGM			1.85	8.06		0.2609		3.00					
SPECIAL	SPECIAL		Asset Based				8.06										
SPECIAL	SPECIAL		By Pass				8.06				7.00		52.76	11,576.66	10.45		
SPECIAL	SPECIAL	1					8.06							323,876.15			
SPECIAL	SPECIAL	2					8.06							103,969.10			
SPECIAL	SPECIAL	3					8.06							107,618.44			
SPECIAL	SPECIAL	4					8.06							241,439.78			
SPECIAL	SPECIAL		Other Generation				8.06							1,559.86			

Western Network Transmission Prices

					Transmission Prices FY19 (Period 1 April 2018 to 31 March 2019)															
					Fixed				Variable			Individually Priced								
					Network Asset Charge				Volume Charge		Demand Charge									
					ICP \$/Month	ICP cents/day	Transformer \$/day	Installed Capacity \$/kVA/Month	CT/VT Charge (\$/day)	Day Rate c/kWh	Night Rate c/kWh	Dist-\$/kW /Month	Trans-\$/kW /Month	\$/kVAr /Month	ABP (\$/AMD value)	Indirect Fixed (\$/ICP)	Indirect Variable (\$/OPD)	Connection charge (\$/AMD)	Interconnection charge (\$/OPD)	
<b>Residential+Small Commercial</b>																				
E1CA	E1C	A	Brunswick	BRK								10.8800								
E1UCA	E1UC	A	Brunswick	BRK								10.8800								
E1CA	E1C	A	Burnythorpe	BPE								10.8800								
E1UCA	E1UC	A	Burnythorpe	BPE								10.8800								
E1CA	E1C	A	Carrington	CST								10.8800								
E1UCA	E1UC	A	Carrington	CST								10.8800								
E1CA	E1C	A	Huirangi	HUI								10.8800								
E1UCA	E1UC	A	Huirangi	HUI								10.8800								
E1CA	E1C	A	Linton	LTN								10.8800								
E1UCA	E1UC	A	Linton	LTN								10.8800								
E1CA	E1C	A	Moturoa / New Plymouth	NPL								10.8800								
E1UCA	E1UC	A	Moturoa / New Plymouth	NPL								10.8800								
E1CA	E1C	A	Stratford	SFD								10.8800								
E1UCA	E1UC	A	Stratford	SFD								10.8800								
E1CA	E1C	A	Wanganui	WGN								10.8800								
E1UCA	E1UC	A	Wanganui	WGN								10.8800								
<b>Medium/Large Commercial</b>																				
E1CB	E1C	B	Greytown	GYT								12.5700								
E1UCB	E1UC	B	Greytown	GYT								12.5700								
E1CB	E1C	B	Hawera	HWA								12.5700								
E1UCB	E1UC	B	Hawera	HWA								12.5700								
E1CB	E1C	B	Mangamaire	MGM								12.5700								
E1UCB	E1UC	B	Mangamaire	MGM								12.5700								
E1CB	E1C	B	Marton	MTN								12.5700								
E1UCB	E1UC	B	Marton	MTN								12.5700								
E1CB	E1C	B	Masterton	MST								12.5700								
E1UCB	E1UC	B	Masterton	MST								12.5700								
E1CB	E1C	B	Mataroa	MTR								12.5700								
E1UCB	E1UC	B	Mataroa	MTR								12.5700								
E1CB	E1C	B	Ohakune	OKN								12.5700								
E1UCB	E1UC	B	Ohakune	OKN								12.5700								
E1CB	E1C	B	Opunake	OPK								12.5700								
E1UCB	E1UC	B	Opunake	OPK								12.5700								
E1CB	E1C	B	Waverley	WVY								12.5700								
E1UCB	E1UC	B	Waverley	WVY								12.5700								
<b>Medium/Large Commercial</b>																				
E100A	E100	A	Carrington	CST								0.4336								
E100A	E100	A	Huirangi	HUI								0.4336								
E100A	E100	A	Moturoa / New Plymouth	NPL								0.4336								
E100A	E100	A	Stratford	SFD								0.4336								
E100B	E100	B	Hawera	HWA								0.5991								
E100C	E100	C	Waverley	WVY								0.4485								
E100D	E100	D	Opunake	OPK								0.8124								
E100E	E100	E	Brunswick	BRK								0.3646								
E100E	E100	E	Wanganui	WGN								0.3646								
E100F	E100	F	Marton	MTN								0.3087								
E100G	E100	G	Mataroa	MTR								0.4969								
E100G	E100	G	Ohakune	OKN								0.4969								
E100H	E100	H	Masterton	MST								0.4831								
E100H	E100	H	Greytown	GYT								0.4831								
E100I	E100	I	Burnythorpe	BPE								0.3586								
E100I	E100	I	Linton	LTN								0.3586								
E100J	E100	J	Mangamaire	MGM								0.6428								
<b>Medium/Large Commercial</b>																				
E300A	E300	A	Carrington	CST								0.4336								
E300A	E300	A	Huirangi	HUI								0.4336								
E300A	E300	A	Moturoa / New Plymouth	NPL								0.4336								
E300A	E300	A	Stratford	SFD								0.4336								
E300B	E300	B	Hawera	HWA								0.5991								
E300C	E300	C	Waverley	WVY								0.4485								
E300D	E300	D	Opunake	OPK								0.8124								
E300E	E300	E	Brunswick	BRK								0.3646								
E300E	E300	E	Wanganui	WGN								0.3646								
E300F	E300	F	Marton	MTN								0.3087								
E300G	E300	G	Mataroa	MTR								0.4969								
E300G	E300	G	Ohakune	OKN								0.4969								
E300H	E300	H	Masterton	MST								0.4831								
E300H	E300	H	Greytown	GYT								0.4831								
E300I	E300	I	Burnythorpe	BPE								0.3586								
E300I	E300	I	Linton	LTN								0.3586								
E300J	E300	J	Mangamaire	MGM								0.6428								
<b>SPECIAL</b>																				
SPECIAL	SPECIAL		Asset Based															22.1134	109.3836	
SPECIAL	SPECIAL	1	By Pass														601,944.00			
SPECIAL	SPECIAL	2															11,227.00			
SPECIAL	SPECIAL	3															2,500.0100			
SPECIAL	SPECIAL	4																		
SPECIAL	SPECIAL		Other Generation														413.2100			



Western Network Quantities

				Quantities FY19 (1 April 2018 to 31 March 2019)												
Western Network				ICP No.'s (Average)	ICP Days	ICP Months	kVA Installed	CT/VTs	kWh Day	kWh Night	kW Demand (AMD for E100/E300)	OPD (kW)	\$/kVA /Month	Individually Priced		
														Asset Value / AMD	AMD	OPD
Tariff Group	GXP Group	GXP														
<b>Residential-Small Commercial</b>																
E1CA	E1C	A	Brunswick	BRK	6,128.0	2,236,727	-	-	35,554,415	10,876,223	120,571	-	-	-	-	-
E1UCA	E1UC	A	Brunswick	BRK	6,114	2,231,577	-	-	35,469,187	10,850,152	120,282	-	-	-	-	-
E1CA	E1C	A	Bunthythorpe	BPE	14,777	5,393,644	-	-	107,934,839	32,486,786	333,087	-	-	-	-	-
E1UCA	E1UC	A	Bunthythorpe	BPE	19,646	7,170,698	-	-	143,485,704	43,187,069	442,797	-	-	-	-	-
E1CA	E1C	A	Carrington	CST	6,762	2,468,084	-	-	45,599,688	13,117,470	136,007	-	-	-	-	-
E1UCA	E1UC	A	Carrington	CST	12,219	4,460,019	-	-	82,417,404	23,708,567	245,821	-	-	-	-	-
E1CA	E1C	A	Huirangi	HUI	4,225	1,542,199	-	-	25,732,867	8,548,169	83,944	-	-	-	-	-
E1UCA	E1UC	A	Huirangi	HUI	5,945	2,189,878	-	-	36,199,453	12,025,041	117,865	-	-	-	-	-
E1CA	E1C	A	Linton	LTN	6,809	2,485,261	-	-	47,234,440	14,842,538	180,386	-	-	-	-	-
E1UCA	E1UC	A	Linton	LTN	9,781	3,570,145	-	-	67,859,225	21,323,491	259,151	-	-	-	-	-
E1CA	E1C	A	Moturoa / New Plymouth	NPL	3,682	1,344,090	-	-	19,722,123	5,694,002	64,648	-	-	-	-	-
E1UCA	E1UC	A	Moturoa / New Plymouth	NPL	4,897	1,787,530	-	-	26,228,770	7,572,545	85,977	-	-	-	-	-
E1CA	E1C	A	Stratford	SFD	3,632	1,325,624	-	-	33,637,459	10,641,238	111,011	-	-	-	-	-
E1UCA	E1UC	A	Stratford	SFD	4,664	1,702,369	-	-	43,195,476	13,664,925	142,555	-	-	-	-	-
E1CA	E1C	A	Wanganui	WGN	4,762	1,738,145	-	-	29,623,689	8,584,357	89,749	-	-	-	-	-
E1UCA	E1UC	A	Wanganui	WGN	5,074	1,852,140	-	-	31,569,637	9,148,254	95,644	-	-	-	-	-
E1CB	E1C	B	Greytown	GYT	2,944	1,074,724	-	-	21,581,420	8,387,739	63,604	-	-	-	-	-
E1UCB	E1UC	B	Greytown	GYT	4,063	1,482,866	-	-	29,778,456	11,573,563	87,762	-	-	-	-	-
E1CB	E1C	B	Hawera	HWA	2,859	1,043,693	-	-	20,676,137	7,381,077	63,800	-	-	-	-	-
E1UCB	E1UC	B	Hawera	HWA	6,352	2,318,627	-	-	45,935,130	16,388,167	141,741	-	-	-	-	-
E1CB	E1C	B	Mangamaire	MGM	1,782	650,588	-	-	12,619,542	3,994,563	37,459	-	-	-	-	-
E1UCB	E1UC	B	Mangamaire	MGM	2,505	914,188	-	-	17,730,495	5,612,370	52,630	-	-	-	-	-
E1CB	E1C	B	Marlon	MTN	3,339	1,401,406	-	-	29,006,532	9,676,125	82,932	-	-	-	-	-
E1UCB	E1UC	B	Marlon	MTN	2,298	838,821	-	-	17,359,408	5,790,827	49,632	-	-	-	-	-
E1CB	E1C	B	Masterton	MST	9,325	3,403,615	-	-	62,348,265	21,154,923	186,466	-	-	-	-	-
E1UCB	E1UC	B	Masterton	MST	8,601	3,139,354	-	-	57,506,147	19,511,980	171,985	-	-	-	-	-
E1CB	E1C	B	Mataroa	MTR	1,663	606,959	-	-	10,738,248	3,651,556	32,885	-	-	-	-	-
E1UCB	E1UC	B	Mataroa	MTR	1,093	398,775	-	-	7,055,038	2,399,075	21,605	-	-	-	-	-
E1CB	E1C	B	Ohakune	OKN	605	220,724	-	-	3,716,518	1,294,304	11,322	-	-	-	-	-
E1UCB	E1UC	B	Ohakune	OKN	591	215,619	-	-	3,631,283	1,264,621	11,062	-	-	-	-	-
E1CB	E1C	B	Opunake	OPK	971	354,458	-	-	8,961,901	3,938,194	35,112	-	-	-	-	-
E1UCB	E1UC	B	Opunake	OPK	2,066	754,193	-	-	19,070,321	8,380,210	74,716	-	-	-	-	-
E1CB	E1C	B	Waverley	WVY	-	-	-	-	-	-	-	-	-	-	-	-
E1UCB	E1UC	B	Waverley	WVY	1,338	488,485	-	-	11,758,388	4,319,829	38,897	-	-	-	-	-
<b>Medium/Large Medium/Large Commercial</b>																
E100A	E100	A	Carrington	CST	32	-	384	-	-	-	-	1,603,445	817,965	3,565	-	-
E100A	E100	A	Huirangi	HUI	9	-	107	-	1	-	-	492,670	134,515	2,574	-	-
E100A	E100	A	Moturoa / New Plymouth	NPL	4	-	43	-	-	-	-	141,865	51,800	897	-	-
E100A	E100	A	Stratford	SFD	9	-	108	-	-	-	-	437,635	192,355	1,436	-	-
E100B	E100	B	Hawera	HWA	10	-	119	-	-	-	-	450,565	219,110	1,954	-	-
E100C	E100	C	Waverley	WVY	-	-	-	-	-	-	-	-	-	-	-	-
E100D	E100	D	Opunake	OPK	1	-	12	-	-	-	-	50,370	10,950	870	-	-
E100E	E100	E	Brunswick	BRK	10	-	120	-	-	-	-	523,045	289,810	891	-	-
E100E	E100	E	Wanganui	WGN	9	-	108	-	-	-	-	374,855	181,040	1,201	-	-
E100F	E100	F	Marlon	MTN	5	-	60	-	-	-	-	266,085	143,445	641	-	-
E100G	E100	G	Mataroa	MTR	4	-	48	-	-	-	-	282,510	102,930	710	-	-
E100G	E100	G	Ohakune	OKN	-	-	-	-	-	-	-	-	-	-	-	-
E100H	E100	H	Masterton	MST	24	-	288	-	-	-	-	1,170,190	598,235	3,008	-	-
E100H	E100	H	Greytown	GYT	3	-	36	-	-	-	-	201,845	98,915	1,465	-	-
E100I	E100	I	Bunthythorpe	BPE	61	-	738	-	1	-	-	3,172,559	1,493,359	7,774	-	-
E100I	E100	I	Linton	LTN	35	-	416	-	-	-	-	1,674,140	705,310	4,949	-	-
E100J	E100	J	Mangamaire	MGM	2	-	24	-	-	-	-	101,105	39,420	877	-	-
E300A	E300	A	Carrington	CST	37	-	-	299,370	5	-	-	4,977,121	2,288,955	7,857	-	-
E300A	E300	A	Huirangi	HUI	15	-	-	231,000	3	-	-	5,188,092	2,511,070	7,809	-	-
E300A	E300	A	Moturoa / New Plymouth	NPL	13	-	-	135,633	7	-	-	2,124,600	759,300	4,460	-	-
E300A	E300	A	Stratford	SFD	12	-	-	106,506	1	-	-	2,092,275	709,765	7,244	-	-
E300B	E300	B	Hawera	HWA	10	-	-	88,200	1	-	-	1,214,720	552,975	3,068	-	-
E300C	E300	C	Waverley	WVY	1	-	-	18,000	-	-	-	427,780	284,335	567	-	-
E300D	E300	D	Opunake	OPK	2	-	-	36,000	2	-	-	709,925	363,175	5,065	-	-
E300E	E300	E	Brunswick	BRK	14	-	-	121,200	2	-	-	2,068,089	1,103,030	4,681	-	-
E300E	E300	E	Wanganui	WGN	17	-	-	255,000	5	-	-	3,807,681	1,827,555	10,011	-	-
E300F	E300	F	Marlon	MTN	10	-	-	109,271	2	-	-	1,848,177	862,014	3,721	-	-
E300G	E300	G	Mataroa	MTR	2	-	-	36,000	-	-	-	550,055	325,580	441	-	-
E300G	E300	G	Ohakune	OKN	-	-	-	-	-	-	-	-	-	-	-	-
E300H	E300	H	Masterton	MST	19	-	-	162,924	1	-	-	2,858,955	1,416,535	2,676	-	-
E300H	E300	H	Greytown	GYT	1	-	-	13,800	-	-	-	260,610	73,000	918	-	-
E300I	E300	I	Bunthythorpe	BPE	55	-	-	640,581	14	-	-	11,301,940	5,419,529	20,029	-	-
E300I	E300	I	Linton	LTN	28	-	-	321,250	6	-	-	5,069,485	2,664,500	10,376	-	-
E300J	E300	J	Mangamaire	MGM	1	-	-	9,000	1	-	-	109,500	36,500	574	-	-
SPECIAL	SPECIAL		Asset Based		29	-	-	-	6	-	-	-	-	-	-	-
SPECIAL	SPECIAL		By Pass		1	-	-	-	-	-	-	-	21,531	57,730	57,730	26,964
SPECIAL	SPECIAL		1		1	-	-	-	-	-	-	-	-	-	-	-
SPECIAL	SPECIAL		2		1	-	-	-	-	-	-	-	-	-	-	-
SPECIAL	SPECIAL		3		1	-	-	-	-	-	-	-	-	-	-	-
SPECIAL	SPECIAL		4		1	-	-	-	-	-	-	-	-	-	-	-
SPECIAL	SPECIAL		Other Generation		7	-	-	-	-	-	-	-	-	-	-	-

Western Network Distribution Revenue

				Distribution Revenue (FY19 Prices)						
Western Network				Fixed (Monthly)	Fixed (Daily)	Variable	Demand	Non-standard	Total	
	Tariff Group	GXP Group	GXP							
<b>Residential+Small Commercial</b>										
E1CA	E1C	A	Brunswick	BRK	-	-	2,350,993	804,207	-	3,155,199
E1UCA	E1UC	A	Brunswick	BRK	-	334,737	2,345,357	802,279	-	3,482,373
E1CA	E1C	A	Bunnythorpe	BPE	-	-	7,130,425	2,221,692	-	9,352,117
E1UCA	E1UC	A	Bunnythorpe	BPE	-	1,075,605	9,478,998	2,953,458	-	13,508,061
E1CA	E1C	A	Carrington	CST	-	-	3,004,829	907,168	-	3,911,997
E1UCA	E1UC	A	Carrington	CST	-	669,003	5,430,963	1,639,626	-	7,739,592
E1CA	E1C	A	Huirangi	HUI	-	-	1,710,011	557,903	-	2,267,914
E1UCA	E1UC	A	Huirangi	HUI	-	325,482	2,405,539	784,823	-	3,515,844
E1CA	E1C	A	Linton	LTN	-	-	3,128,237	1,203,175	-	4,331,412
E1UCA	E1UC	A	Linton	LTN	-	535,522	4,494,173	1,728,538	-	6,758,233
E1CA	E1C	A	Moturoa / New Plymouth	NPL	-	-	1,299,863	431,204	-	1,731,067
E1UCA	E1UC	A	Moturoa / New Plymouth	NPL	-	268,130	1,728,709	573,465	-	2,570,303
E1CA	E1C	A	Stratford	SFD	-	-	2,228,629	740,445	-	2,969,074
E1UCA	E1UC	A	Stratford	SFD	-	255,355	2,861,890	950,841	-	4,068,086
E1CA	E1C	A	Wanganui	WGN	-	-	1,952,860	598,624	-	2,551,484
E1UCA	E1UC	A	Wanganui	WGN	-	277,821	2,081,142	637,947	-	2,996,910
E1CB	E1C	B	Greytown	GYT	-	-	1,968,860	609,965	-	2,578,826
E1UCB	E1UC	B	Greytown	GYT	-	222,430	2,716,671	841,642	-	3,780,743
E1CB	E1C	B	Hawera	HWA	-	-	1,875,271	611,842	-	2,487,113
E1UCB	E1UC	B	Hawera	HWA	-	347,794	4,166,195	1,359,298	-	5,873,286
E1CB	E1C	B	Mangamaire	MGM	-	-	1,135,984	359,229	-	1,495,213
E1UCB	E1UC	B	Mangamaire	MGM	-	137,128	1,596,060	504,718	-	2,237,906
E1CB	E1C	B	Marton	MTN	-	-	2,619,412	795,320	-	3,414,732
E1UCB	E1UC	B	Marton	MTN	-	125,823	1,567,628	475,971	-	2,169,422
E1CB	E1C	B	Masterton	MST	-	-	5,636,301	1,788,210	-	7,424,510
E1UCB	E1UC	B	Masterton	MST	-	470,903	5,198,572	1,649,333	-	7,318,808
E1CB	E1C	B	Mataroa	MTR	-	-	970,876	315,366	-	1,286,242
E1UCB	E1UC	B	Mataroa	MTR	-	59,816	637,866	207,196	-	904,878
E1CB	E1C	B	Ohakune	OKN	-	-	336,533	108,576	-	445,110
E1UCB	E1UC	B	Ohakune	OKN	-	32,343	328,815	106,086	-	467,244
E1CB	E1C	B	Opunake	OPK	-	-	825,235	336,724	-	1,161,958
E1UCB	E1UC	B	Opunake	OPK	-	113,129	1,756,044	716,525	-	2,585,698
E1CB	E1C	B	Waverley	WVY	-	-	-	-	-	-
E1UCB	E1UC	B	Waverley	WVY	-	73,273	1,068,509	373,018	-	1,514,799
<b>Medium/Large Medium/Large Commercial</b>										
E100A	E100	A	Carrington	CST	111,744	-	-	551,217	-	662,961
E100A	E100	A	Huirangi	HUI	31,137	2,942	-	173,802	-	207,881
E100A	E100	A	Moturoa / New Plymouth	NPL	12,552	-	-	49,921	-	62,473
E100A	E100	A	Stratford	SFD	31,428	-	-	151,834	-	183,262
E100B	E100	B	Hawera	HWA	34,629	-	-	313,058	-	347,687
E100C	E100	C	Waverley	WVY	-	-	-	-	-	-
E100D	E100	D	Opunake	OPK	3,492	-	-	33,608	-	37,100
E100E	E100	E	Brunswick	BRK	34,920	-	-	209,276	-	244,196
E100E	E100	E	Wanganui	WGN	31,428	-	-	151,670	-	183,098
E100F	E100	F	Marton	MTN	17,460	-	-	128,420	-	145,880
E100G	E100	G	Mataroa	MTR	13,968	-	-	185,167	-	199,135
E100G	E100	G	Ohakune	OKN	-	-	-	-	-	-
E100H	E100	H	Masterton	MST	83,808	-	-	691,127	-	774,935
E100H	E100	H	Greytown	GYT	10,476	-	-	122,049	-	132,525
E100I	E100	I	Bunnythorpe	BPE	214,630	2,942	-	1,154,974	-	1,372,546
E100I	E100	I	Linton	LTN	121,112	-	-	612,013	-	733,125
E100J	E100	J	Mangamaire	MGM	6,984	-	-	45,681	-	52,665
E300A	E300	A	Carrington	CST	553,834	14,710	-	756,202	-	1,324,746
E300A	E300	A	Huirangi	HUI	427,350	-	8,826	787,115	-	1,223,290
E300A	E300	A	Moturoa / New Plymouth	NPL	250,922	20,593	-	326,120	-	597,635
E300A	E300	A	Stratford	SFD	197,037	1,475	-	329,716	-	528,228
E300B	E300	B	Hawera	HWA	163,170	2,942	-	344,830	-	510,942
E300C	E300	C	Waverley	WVY	33,300	-	-	237,193	-	270,493
E300D	E300	D	Opunake	OPK	66,600	5,884	-	235,840	-	308,324
E300E	E300	E	Brunswick	BRK	224,220	5,884	-	337,905	-	568,009
E300E	E300	E	Wanganui	WGN	471,750	14,710	-	626,315	-	1,112,774
E300F	E300	F	Marton	MTN	202,151	6,126	-	472,468	-	680,745
E300G	E300	G	Mataroa	MTR	66,600	-	-	232,126	-	298,726
E300G	E300	G	Ohakune	OKN	-	-	-	-	-	-
E300H	E300	H	Masterton	MST	301,410	2,942	-	1,034,106	-	1,338,458
E300H	E300	H	Greytown	GYT	25,530	-	-	96,287	-	121,817
E300I	E300	I	Bunnythorpe	BPE	1,185,075	41,187	-	2,842,626	-	4,068,887
E300I	E300	I	Linton	LTN	594,313	17,651	-	1,279,235	-	1,891,199
E300J	E300	J	Mangamaire	MGM	16,650	2,942	-	30,290	-	49,882
SPECIAL	SPECIAL		Asset Based		-	18,877	-	150,715	3,662,886	3,832,477
SPECIAL	SPECIAL		By Pass		-	-	-	-	-	-
SPECIAL	SPECIAL		1		-	-	-	323,876	-	323,876
SPECIAL	SPECIAL		2		-	-	-	103,969	-	103,969
SPECIAL	SPECIAL		3		-	-	-	107,618	-	107,618
SPECIAL	SPECIAL		4		-	-	-	241,440	-	241,440
SPECIAL	SPECIAL		Other Generation		-	-	-	10,919	-	10,919
<b>Western Region Western Region Total</b>					<b>5,539,679</b>	<b>5,494,923</b>	<b>88,037,450</b>	<b>43,387,321</b>	<b>4,450,709</b>	<b>146,910,081</b>

Western Network Transmission Revenue

					Transmission Revenue (FY19 Prices)					
					Fixed (Monthly)	Fixed (Daily)	Variable	Demand	Non-standard	Total
<b>Residential+Small Commercial</b>										
E1CA	E1C	A	Brunswick	BRK	-	-	-	1,311,809	-	1,311,809
E1UCA	E1UC	A	Brunswick	BRK	-	-	-	1,308,665	-	1,308,665
E1CA	E1C	A	Bunnythorpe	BPE	-	-	-	3,623,989	-	3,623,989
E1UCA	E1UC	A	Bunnythorpe	BPE	-	-	-	4,817,635	-	4,817,635
E1CA	E1C	A	Carrington	CST	-	-	-	1,479,758	-	1,479,758
E1UCA	E1UC	A	Carrington	CST	-	-	-	2,674,533	-	2,674,533
E1CA	E1C	A	Huirangi	HUI	-	-	-	910,042	-	910,042
E1UCA	E1UC	A	Huirangi	HUI	-	-	-	1,280,192	-	1,280,192
E1CA	E1C	A	Linton	LTN	-	-	-	1,962,600	-	1,962,600
E1UCA	E1UC	A	Linton	LTN	-	-	-	2,819,564	-	2,819,564
E1CA	E1C	A	Moturoa / New Plymouth	NPL	-	-	-	703,372	-	703,372
E1UCA	E1UC	A	Moturoa / New Plymouth	NPL	-	-	-	935,426	-	935,426
E1CA	E1C	A	Stratford	SFD	-	-	-	1,207,802	-	1,207,802
E1UCA	E1UC	A	Stratford	SFD	-	-	-	1,550,997	-	1,550,997
E1CA	E1C	A	Wanganui	WGN	-	-	-	976,466	-	976,466
E1UCA	E1UC	A	Wanganui	WGN	-	-	-	1,040,609	-	1,040,609
<b>Medium/Large Commercial</b>										
E1CB	E1C	B	Greytown	GYT	-	-	-	799,506	-	799,506
E1UCB	E1UC	B	Greytown	GYT	-	-	-	1,103,174	-	1,103,174
E1CB	E1C	B	Hawera	HWA	-	-	-	801,966	-	801,966
E1UCB	E1UC	B	Hawera	HWA	-	-	-	1,781,686	-	1,781,686
E1CB	E1C	B	Mangamaire	MGM	-	-	-	470,856	-	470,856
E1UCB	E1UC	B	Mangamaire	MGM	-	-	-	661,554	-	661,554
E1CB	E1C	B	Marion	MTN	-	-	-	1,042,458	-	1,042,458
E1UCB	E1UC	B	Marion	MTN	-	-	-	623,875	-	623,875
E1CB	E1C	B	Masterton	MST	-	-	-	2,343,879	-	2,343,879
E1UCB	E1UC	B	Masterton	MST	-	-	-	2,161,847	-	2,161,847
E1CB	E1C	B	Mataroa	MTR	-	-	-	413,363	-	413,363
E1UCB	E1UC	B	Mataroa	MTR	-	-	-	271,580	-	271,580
E1CB	E1C	B	Ohakune	OKN	-	-	-	142,315	-	142,315
E1UCB	E1UC	B	Ohakune	OKN	-	-	-	139,052	-	139,052
E1CB	E1C	B	Opunake	OPK	-	-	-	441,357	-	441,357
E1UCB	E1UC	B	Opunake	OPK	-	-	-	939,178	-	939,178
E1CB	E1C	B	Waverley	WVY	-	-	-	-	-	-
E1UCB	E1UC	B	Waverley	WVY	-	-	-	488,930	-	488,930
E100A	E100	A	Carrington	CST	-	-	-	354,670	-	354,670
E100A	E100	A	Huirangi	HUI	-	-	-	58,326	-	58,326
E100A	E100	A	Moturoa / New Plymouth	NPL	-	-	-	22,460	-	22,460
E100A	E100	A	Stratford	SFD	-	-	-	83,405	-	83,405
E100B	E100	B	Hawera	HWA	-	-	-	131,269	-	131,269
E100C	E100	C	Waverley	WVY	-	-	-	-	-	-
E100D	E100	D	Opunake	OPK	-	-	-	8,896	-	8,896
E100E	E100	E	Brunswick	BRK	-	-	-	105,665	-	105,665
E100E	E100	E	Wanganui	WGN	-	-	-	66,007	-	66,007
E100F	E100	F	Marion	MTN	-	-	-	44,282	-	44,282
E100G	E100	G	Mataroa	MTR	-	-	-	51,146	-	51,146
E100G	E100	G	Ohakune	OKN	-	-	-	-	-	-
E100H	E100	H	Masterton	MST	-	-	-	289,007	-	289,007
E100H	E100	H	Greytown	GYT	-	-	-	47,786	-	47,786
E100I	E100	I	Bunnythorpe	BPE	-	-	-	535,519	-	535,519
E100I	E100	I	Linton	LTN	-	-	-	252,924	-	252,924
E100J	E100	J	Mangamaire	MGM	-	-	-	25,339	-	25,339
E300A	E300	A	Carrington	CST	-	-	-	983,819	-	983,819
E300A	E300	A	Huirangi	HUI	-	-	-	1,088,800	-	1,088,800
E300A	E300	A	Moturoa / New Plymouth	NPL	-	-	-	329,233	-	329,233
E300A	E300	A	Stratford	SFD	-	-	-	307,754	-	307,754
E300B	E300	B	Hawera	HWA	-	-	-	331,287	-	331,287
E300C	E300	C	Waverley	WVY	-	-	-	127,524	-	127,524
E300D	E300	D	Opunake	OPK	-	-	-	295,043	-	295,043
E300E	E300	E	Brunswick	BRK	-	-	-	402,165	-	402,165
E300E	E300	E	Wanganui	WGN	-	-	-	666,327	-	666,327
E300F	E300	F	Marion	MTN	-	-	-	266,104	-	266,104
E300G	E300	G	Mataroa	MTR	-	-	-	161,781	-	161,781
E300G	E300	G	Ohakune	OKN	-	-	-	-	-	-
E300H	E300	H	Masterton	MST	-	-	-	684,328	-	684,328
E300H	E300	H	Greytown	GYT	-	-	-	35,266	-	35,266
E300I	E300	I	Bunnythorpe	BPE	-	-	-	1,943,443	-	1,943,443
E300I	E300	I	Linton	LTN	-	-	-	955,490	-	955,490
E300J	E300	J	Mangamaire	MGM	-	-	-	23,462	-	23,462
SPECIAL	SPECIAL	Asset Based			-	-	-	-	4,224,931	4,224,931
SPECIAL	SPECIAL	By Pass			-	-	-	-	-	-
SPECIAL	SPECIAL	1			-	-	-	-	601,944	601,944
SPECIAL	SPECIAL	2			-	-	-	-	11,227	11,227
SPECIAL	SPECIAL	3			-	-	-	-	2,500	2,500
SPECIAL	SPECIAL	4			-	-	-	-	-	-
SPECIAL	SPECIAL	Other Generation			-	-	-	-	2,892	2,892
<b>Western Region Total</b>					-	-	-	53,908,562	4,843,495	58,752,057

# Eastern Network Distribution Prices

Eastern Network			Distribution Prices FY19 (Prices 1 April 2018 to 31 March 2019)																				Individually Priced				
			Fixed				Variable																				
			Network Asset Charge				Volume Charge													Demand Charge							
Tariff Group	Network Group	Tariff Description	ICP \$/Month	ICP cents/day	Transformer \$/day	Installed Capacity \$/kVA/Month	CT/VT Charge (\$/day)	Uncontrolled c/kWh	All Inclusive c/kWh	Controlled c/kWh	Night Only c/kWh	On Peak Controlled c/kWh	Off Peak Controlled c/kWh	Summer Day c/kWh	Summer Night c/kWh	Winter Day c/kWh	Winter Night c/kWh	Winter AM Peak c/kWh	Winter PM Peak c/kWh	\$/kVAr /Month	ABP (\$/AMD, value)	Indirect Fixed (\$/ICP)	Indirect Variable (\$/OPD)	Connection charge (\$/AMD)	Interconnection charge (\$/OPD)		
							24UC	AICO	CTRL	NITE	CTON	CTOF	TS/1	TS/2	TW/1/3/5	TW/6	TW/2	TW/4									
<b>Residential-Small Commercial</b>																											
V05C	Valley	Low Usage - Controlled	10	15.0000				8.1000	7.4400	5.6200	5.2500																
V05U	Valley	Low Usage - Uncontrolled	11	15.0000				8.1000			5.2500																
V05S	Valley			15.0000				8.1000	7.4400	5.6200	5.2500		8.5200	8.5200													
V06C	Valley	Residential - Standard Contr	13	82.6400				6.1000	5.4400	3.6100	2.1700																
V06U	Valley	Residential - Standard Unco	14	82.6400				6.1000			2.1700																
V06S	Valley			82.6400				6.1000	5.4400	3.6100	2.1700		5.4400	5.4400													
T05C	Tauranga	Low Usage - Controlled	17	15.0000				7.4100	6.9000	5.3100	4.7500																
T05U	Tauranga	Low Usage - Uncontrolled	18	15.0000				7.4100			4.7500																
T05S	Tauranga			15.0000				7.4100	6.9000	5.3100	4.7500		7.4900	7.4900													
T06C	Tauranga	Standard Residential & Com	20	71.7500				5.4100	4.9100	3.3100	2.1700																
T06U	Tauranga	Standard Residential & Com	21	71.7500				5.4100			2.1700																
T06S	Tauranga			71.7500				5.4100	4.9100	3.3100	2.1700		4.9100	4.9100													
<b>Unmetered Supply</b>																											
V01	Valley	Unmetered/Streetlighting	25					7.7700																			
V02	Valley	Unmetered/Streetlighting	26	10.8900																							
V03	Valley	Unmetered/Streetlighting	27																								
T01	Tauranga	Unmetered/Streetlighting	29					7.3600																			
T02	Tauranga	Unmetered/Streetlighting	30	10.9800																							
T03	Tauranga	Unmetered/Streetlighting	31																								
<b>Medium/Large Commercial</b>																											
V24	Valley	Commercial three phase 100A part of V25 but		991.0000				4.0400	4.0400											7.0000							
V28	Valley	> 200 Amp up to 299 kVA merged with V27 &		3,661.0000				4.0700	4.0700	3.0900										7.0000							
V40	Valley	Individual ICP prices																		7.0000	119.3602	2,289.3000	8.7732				
V60	Valley	Individual ICP prices																		7.0000	49.6137	11,968.0000	10.4445				
V601	Kinleith																			7.0000	0.2959	8,839.92					
T22	Tauranga	Capacity 100 – 199kVA		999.0000				4.8400		2.2400	2.3300									7.0000							
T24	Tauranga	Capacity 200 -299kVA		3,247.0000				4.4700		2.0600										7.0000							
T41	Tauranga	capacity 200 kVA utilised		1,419.0000										2.8300	1.2000	3.5900	1.2000	7.5600	13.1500	7.0000							
T43	Tauranga	capacity 300 kVA - 1,500 kVA utilised (Close				2.1800								2.8300	1.2000	3.5900	1.2000	7.5600	13.1500	7.0000							
T50	Tauranga	Individual ICP prices																		7.0000	92.5568	2,289.3000	8.7732				
T601	Tauranga	Individual ICP prices																		7.0000	65.7959	11,968.0000	10.4445				



Eastern Network Quantities

Eastern Network			Quantities FY19 (1 April 2018 to 31 March 2019)																			Individually Priced					
Tariff Group	Network Group	rnf Description	ICP No.'s (Average)	ICP Days	ICP Months	kVA Installed	CT/VTs	kWh Uncontrolled	kWh All Inclusive	kWh Controlled	kWh Nite Only	kWh On peak Controlled	kWh Off Peak Controlled	kWh Summer Day	kWh Summer Night	kWh Winter Day	kWh Winter Night	kWh Winter AM Peak	kWh Winter PM Peak	kW Demand pa	kVA Demand pa	kVA Demand pa	Asset Value / AMD	AMD	OPD		
																							24UC	AICO	CTRL	NITE	PEAK
<b>Residential-Small Commercial</b>																											
V05C	Valley	Low Usage - Controlled	24,027	8,769,686	-	-	-	75,174,331	7,190,457	33,537,233	139,421	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
V05U	Valley	Low Usage - Uncontrolled	11,095	4,049,586	-	-	-	45,633,255	-	-	247,776	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
V05S	Valley	-	452	164,966	-	-	-	42,237	-	514,689	-	464,721	1,182,874	-	-	-	-	-	-	-	-	-	-	-	-	-	-
V06C	Valley	Residential - Standard Contr	17,394	6,348,766	-	-	-	100,407,396	21,540,487	37,378,620	412,350	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
V06U	Valley	Residential - Standard Unco	17,564	6,410,807	-	-	-	241,010,898	-	-	760,877	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
V06S	Valley	-	295	107,631	-	-	-	90,966	-	608,479	12,028	-	624,934	1,526,750	-	-	-	-	-	-	-	-	-	-	-	-	-
T05C	Tauranga	Low Usage - Controlled	17,398	6,350,375	-	-	-	42,468,985	24,413,429	25,520,183	50,140	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
T05U	Tauranga	Low Usage - Uncontrolled	8,901	3,248,993	-	-	-	35,396,038	-	-	3,728,905	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
T05S	Tauranga	-	258	94,089	-	-	-	29,369	-	327,026	49	267,129	682,355	-	-	-	-	-	-	-	-	-	-	-	-	-	-
T06C	Tauranga	Standard Residential & Com	35,392	12,917,906	-	-	-	153,476,837	59,574,228	75,523,926	259,739	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
T06U	Tauranga	Standard Residential & Com	21,614	7,388,956	-	-	-	206,481,122	-	-	5,877,801	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
T06S	Tauranga	-	182	66,281	-	-	-	9,352	-	404,390	-	363,051	905,329	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unmetered Supply																											
V01	Valley	Unmetered/Streetlighting	-	-	-	-	-	554,865	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
V02	Valley	Unmetered/Streetlighting	-	4,395,205	-	-	-	3,789,939	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
V03	Valley	Unmetered/Streetlighting	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
T01	Tauranga	Unmetered/Streetlighting	-	-	-	-	-	2,353,491	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
T02	Tauranga	Unmetered/Streetlighting	-	5,024,732	-	-	-	6,654,264	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
T03	Tauranga	Unmetered/Streetlighting	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Medium/Large Commercial</b>																											
V24	Valley	Commercial three phase 10k	466	170,154	-	-	-	43,919,213	17,808,926	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
V28	Valley	> 200 Amp up to 299 kVA n	38	14,019	-	-	-	10,528,333	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
V40	Valley	Individual ICP prices	81	-	-	-	-	58,708,778	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,152	19,054	18,594	18,594	6,833
V60	Valley	Individual ICP prices	27	-	-	-	-	304,508,759	-	-	-	-	-	-	-	-	-	-	-	-	-	-	39,225	56,164	56,164	30,122	31,727
V601	Kirinleth	-	1	-	-	-	-	345,251,101	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9,889,627	9,889,627	1	-	-
T22	Tauranga	Capacity 100 - 199kVA	574	209,393	-	-	-	54,515,029	-	327,295	387,420	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
T24	Tauranga	Capacity 200 - 299kVA	52	19,097	-	-	-	7,349,900	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	620	-	-
T41	Tauranga	capacity 200 kVA unliated	87	31,857	-	-	-	-	-	-	-	-	-	11,710,998	3,737,727	5,309,851	2,910,821	1,828,686	1,524,654	-	-	-	-	9,552	-	-	-
T43	Tauranga	capacity 300 kVA - 1,500 kV	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
T50	Tauranga	Individual ICP prices	204	-	-	-	-	184,743,860	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	43,200	58,029	58,029	25,894
T601	Tauranga	Individual ICP prices	31	-	-	-	-	167,728,584	-	-	-	-	-	-	-	-	-	-	-	-	-	-	34,269	49,706	49,706	23,508	-
<b>Eastern Region Total</b>			156,132	-	-	-	-	2,090,786,893	130,527,527	174,141,841	11,877,321	1,719,835	4,297,308	11,710,998	3,737,727	5,309,851	2,910,821	1,828,686	1,524,654	-	-	-	-	10,072,120	182,494	182,494	118,083

## Eastern Network Distribution Revenue

Eastern Network			Distribution Revenue (FY19 Prices)					
Tariff Group	Network Group	Tariff Description	Fixed (Monthly)	Fixed (Daily)	Variable	Demand	Non-standard	Total
<b>Residential/Small Commercial</b>								
V05C	Valley	Low Usage - Controlled	-	1,315,453	8,516,203	-	-	9,831,656
V05U	Valley	Low Usage - Uncontrolled	-	607,438	3,709,302	-	-	4,316,740
V05S	Valley		-	24,745	172,765	-	-	197,510
V06C	Valley	Residential - Standard Controlled	-	5,246,620	8,654,970	-	-	13,901,590
V06U	Valley	Residential - Standard Uncontrolled	-	5,297,891	14,718,176	-	-	20,016,067
V06S	Valley		-	88,946	142,388	-	-	231,334
T05C	Tauranga	Low Usage - Controlled	-	952,556	6,188,982	-	-	7,141,538
T05U	Tauranga	Low Usage - Uncontrolled	-	487,349	2,799,969	-	-	3,287,318
T05S	Tauranga		-	14,113	90,659	-	-	104,773
T06C	Tauranga	Standard Residential & Commercial	-	9,268,598	13,733,670	-	-	23,002,267
T06U	Tauranga	Standard Residential & Commercial	-	5,660,326	11,298,177	-	-	16,958,503
T06S	Tauranga		-	47,557	76,169	-	-	123,725
<b>Unmetered Supply</b>								
V01	Valley	Unmetered/Streetlighting	-	-	43,113	-	-	43,113
V02	Valley	Unmetered/Streetlighting	-	478,638	-	-	-	478,638
V03	Valley	Unmetered/Streetlighting	-	-	-	-	-	-
T01	Tauranga	Unmetered/Streetlighting	-	-	173,217	-	-	173,217
T02	Tauranga	Unmetered/Streetlighting	-	551,716	-	-	-	551,716
T03	Tauranga	Unmetered/Streetlighting	-	-	-	-	-	-
<b>Medium/Large Commercial</b>								
V24	Valley	Commercial three phase 100A	-	1,686,226	2,493,817	-	-	4,180,043
V28	Valley	> 200 Amp up to 299 kVA merged	-	513,236	428,503	8,064	-	949,803
V40	Valley	Individual ICP prices	-	-	-	133,378	2,464,761	2,598,139
V60	Valley	Individual ICP prices	-	-	-	274,575	3,424,252	3,698,827
V601	Kinleith		-	-	-	-	2,934,791	2,934,791
T22	Tauranga	Capacity 100 – 199kVA	-	2,091,836	2,654,886	-	-	4,746,722
T24	Tauranga	Capacity 200 -299kVA	-	620,080	328,541	4,340	-	952,960
T41	Tauranga	capacity 200 kVA unutilised	-	452,051	940,568	66,864	-	1,459,483
T43	Tauranga	capacity 300 kVA - 1,500 kVA	-	-	-	-	-	-
T50	Tauranga	Individual ICP prices	-	-	-	302,400	6,065,120	6,367,520
T601	Tauranga	Individual ICP prices	-	-	-	239,883	3,886,985	4,126,868
<b>Eastern Region Total</b>			-	<b>35,405,373</b>	<b>77,164,073</b>	<b>1,029,504</b>	<b>18,775,908</b>	<b>132,374,859</b>

### Eastern Network Transmission Revenue

Eastern Network			Transmission Revenue (FY19 Prices)					
Tariff Group	Network Group	Tariff Description	Fixed (Monthly)	Fixed (Daily)	Variable	Demand	Non-standard	Total
<b>Residential+Small Commercial</b>								
V05C	Valley	Low Usage - Controlled	-	-	4,383,244	-	-	4,383,244
V05U	Valley	Low Usage - Uncontrolled	-	-	1,880,090	-	-	1,880,090
V05S	Valley		-	-	64,081	-	-	64,081
V06C	Valley	Residential - Standard Controlled	-	-	4,367,169	-	-	4,367,169
V06U	Valley	Residential - Standard Uncontrolled	-	-	7,326,731	-	-	7,326,731
V06S	Valley		-	-	76,346	-	-	76,346
T05C	Tauranga	Low Usage - Controlled	-	-	3,088,830	-	-	3,088,830
T05U	Tauranga	Low Usage - Uncontrolled	-	-	1,430,000	-	-	1,430,000
T05S	Tauranga		-	-	42,101	-	-	42,101
T06C	Tauranga	Standard Residential & Commercial	-	-	8,146,980	-	-	8,146,980
T06U	Tauranga	Standard Residential & Commercial	-	-	7,144,247	-	-	7,144,247
T06S	Tauranga		-	-	52,751	-	-	52,751
<b>Unmetered Supply</b>								
V01	Valley	Unmetered/Streetlighting	-	-	22,971	-	-	22,971
V02	Valley	Unmetered/Streetlighting	-	254,922	-	-	-	254,922
V03	Valley	Unmetered/Streetlighting	-	-	-	-	-	-
T01	Tauranga	Unmetered/Streetlighting	-	-	97,435	-	-	97,435
T02	Tauranga	Unmetered/Streetlighting	-	310,026	-	-	-	310,026
T03	Tauranga	Unmetered/Streetlighting	-	-	-	-	-	-
<b>Medium/Large Commercial</b>								
V24	Valley	Commercial three phase 100A	-	-	1,506,167	-	-	1,506,167
V28	Valley	> 200 Amp up to 299 kVA merged	-	-	241,099	-	-	241,099
V40	Valley	Individual ICP prices	-	-	-	-	1,542,102	1,542,102
V60	Valley	Individual ICP prices	-	-	-	-	5,768,860	5,768,860
V601	Kinleith		-	-	-	-	4,824,543	4,824,543
T22	Tauranga	Capacity 100 – 199kVA	-	-	1,284,638	-	-	1,284,638
T24	Tauranga	Capacity 200 -299kVA	-	-	160,228	-	-	160,228
T41	Tauranga	capacity 200 kVA unitised	-	-	447,935	-	-	447,935
T43	Tauranga	capacity 300 kVA - 1,500 kVA	-	-	-	-	-	-
T50	Tauranga	Individual ICP prices	-	-	-	-	4,150,041	4,150,041
T601	Tauranga	Individual ICP prices	-	-	-	-	3,735,243	3,735,243
<b>Eastern Region Total</b>			-	564,948	41,763,043	-	20,020,789	62,348,779



## 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 18: 2019 assessment period - Planned reliability limits**

	Limit
Planned SAIDI	79.976
Planned SAIFI	0.344

Powerco is also subject to *cumulative* limits on planned SAIDI and SAIFI which apply in 2023 to the 5-year totals of the SAIDI/SAIFI limits. These are not applicable to the 2019 assessment period (or any assessment period other than 2023).

**Table 19: 2019 assessment period - Unplanned reliability limits, boundary values, target, collar and cap**

	Limit	Unplanned Boundary Value	Target	Collar	Cap
Unplanned SAIDI	191.414	11.710	169.529	147.645	191.414
Unplanned SAIFI	2.285	0.064	2.115	1.946	2.285

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

## Attachment C- Reasons for non-compliance with the planned interruptions reliability assessment

This section provides detail on planned SAIDI and SAIFI for Powerco’s network during the 2019 Assessment Period and discusses the contributing factors to the exceedance of the planned SAIDI and SAIFI limit. While Powerco exceeded the annual planned SAIDI and SAIFI limit for the 2019 Assessment Period, we remain compliant with the quality path as Powerco has not exceeded the annual reliability limit in either of the two preceding Assessment Periods and have not exceeded the five-year planned SAIDI or SAIFI limits of the customised price-quality path (CPP) period.

### 2019 Planned SAIDI and SAIFI

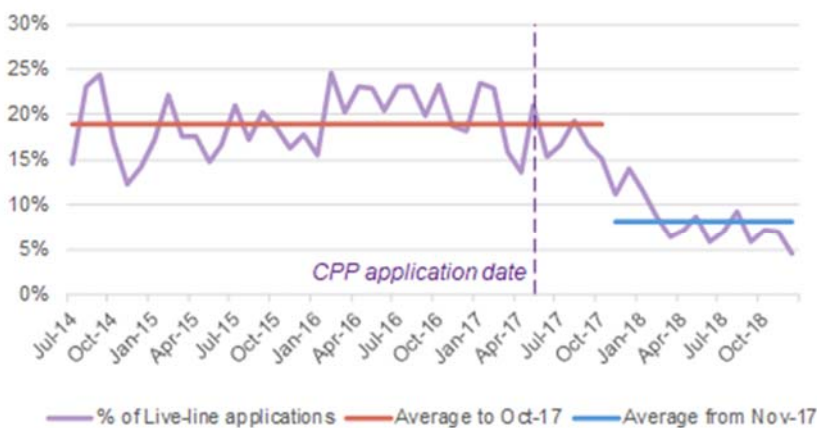
2019 was the first year of our CPP period and involved a large step change in the volume of works completed on our network. For example, Network Capex increased by almost 30% compared to 2018. Delivering our work commitments from CPP was our priority during FY19, and this necessitated a corresponding increase in planned SAIDI and SAIFI.

The planned SAIDI and SAIFI limits during the CPP period are based on modelling we undertook to predict the expected planned outages required to deliver our step change in work volumes<sup>7</sup>. Any modelling carries some level of uncertainty, and since 2018 we have experienced a much higher level of planned SAIDI and especially planned SAIFI than what we had earlier modelled.

A contributing factor to this has been a change we made to live-line work practices. In October 2017 we introduced an exclusion list of live-line activities and strengthened processes to ensure safety risks are thoroughly assessed before approving live-line permits. This change in live-line permits is shown in Figure 2 below. This change results in a higher number of planned outages required to deliver our works plan outcomes.

Changes to live line practices have had a significant impact on planned SAIFI. This is a result of the requirement for line breaks (which reduce the planned works isolation area) to be installed de-energised. Line breaks are put in at the beginning and end of a works activity/project. Installing these de-energised has added at least two extra outages per project. These outages affect customers in the isolation area as well as customers directly affected by the planned works.

**Figure 2: Percentage of live-line applications**



During 2019 we also reviewed internal planning assumptions used for assessing the value of planned SAIDI mitigation options. Increasing work volumes placed additional cost pressure on our

<sup>7</sup> This modelling was completed in early 2017, approximately two year ago.

delivery plans we chose to limit the use of generation or alternative mitigation methods to offset planned outages in order to ensure we could still deliver the work volumes we committed to in our CPP proposal for the costs we expected. As new work volumes and Service Provider contracts have bedded in, we have revisited this assumption and have since increased the use of generation or alternative mitigation methods during planned outages.

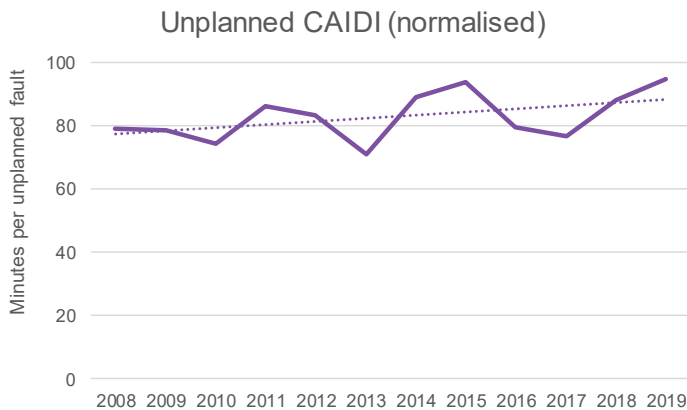
## Attachment D - Reasons for non-compliance with the unplanned interruptions reliability assessment

This section provides detail on unplanned SAIDI for Powerco's network during the 2019 Assessment Period and discusses the contributing factors to the exceedance of the unplanned SAIDI limit. While Powerco exceeded the annual unplanned SAIDI limit for the 2019 Assessment Period, we remain compliant with the quality path as Powerco has not exceeded the annual reliability limit in either of the two preceding Assessment Periods.

### 2019 Unplanned SAIDI

In 2019 we exceeded our unplanned SAIDI limit by 5.932 minutes, or 3.1%. This included one MED day for unplanned SAIDI and SAIFI on 10/04/18, caused by severe weather. Our unplanned SAIFI in the same year however was below target. This indicates our unplanned fault restoration durations have not met our targets. Our unplanned CAIDI<sup>8</sup> trend is shown in Figure 3.

**Figure 3: Historical unplanned CAIDI trend**



We are working to fully understand the drivers of this worsening trend and the quantified impacts. Potential factors influencing this trend include:

- Operational changes for re-livening causing longer restoration times, in order to ensure switching is done correctly and safely
- Working with our Service Providers to achieve a customer focused balance between HV and LV network restoration times

<sup>8</sup> Customer Average Interruption Duration Index - the average duration of an outage.

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

### Improvements in managing planned SAIDI and SAIFI

Our internal SAIDI governance groups continue to monitor and manage initiatives to improve our planned SAIDI and SAIFI performance. During 2019 we undertook an increased internal awareness programme of our new quality path arrangements under CPP. We are also continuing to improve our stakeholder engagement around individual planned outages, to ensure we try to make arrangements that best suit the needs of the impacted customers.

We are also currently evaluating our increasing use of 12 other initiatives to manage our planned SAIDI and SAIFI outcomes. We recognise that exceeding our planned SAIDI or SAIFI limit in either of the next two years will lead to non-compliance with the planned interruption quality standard. Planned SAIDI and SAIFI also need to be managed within our five-year CPP limits. We are taking appropriate actions to ensure compliance with our planned interruption quality standard. Balancing competing drivers of cost, delivery and planned outages is a key focus for us and our programme management function.

**Table 20: Planned SAIDI and SAIFI improvement initiatives**

Improved work bundling	Multiple work crews	Extended outages to manage SAIFI	Develop improved back feed capability
Review live-line work procedures	Managing distributed energy disconnections	Outage alignment with Transpower and customer outages	Increase switching capable Service Providers
Increased generation (HV and LV)	Interrupter cable system	Review maintenance frequencies	Parallel build

### Improvements in managing unplanned SAIDI

We are also working to better understand the cause of the outages to reduce fault numbers and take action to avoid repeat failures. During FY19 we have identified the following areas to review:

- There were a high number of lightning storms impacting the network during FY19 which has prompted us to review lightning protection and identification of high prone areas.
- Vegetation continues to cause a significant number of faults. We are only one year into our new cyclical vegetation programme and as discussed in our CPP proposal the benefits of this proactive approach will take time to be realised.
- We have increased the use of acoustic testing to find intermittent, difficult to find faults such as cracked or arcing insulators.
- We are looking to review network solutions for birds repeatably causing outages.

We are also working to improve our fault response performance by:

- Using increased numbers of line fault indicators on the network, to support quicker fault finding.
- Working with our Service Providers to improve fault management processes (including the use of targeted KPIs).

- Increasing the use of remote visibility and operation of equipment on the network.

We are also continuing to focus on delivering against our CPP investment themes, which were designed over the long term to stabilise asset performance. This included:

- Increasing our levels of asset renewal on the network, in particular our overhead network assets.
- Managing our defect backlog levels to sustainable levels by the end of the CPP period.
- Further investments in network automation technology where economically justified.
- Moving to a cyclical vegetation strategy, including a significant volume increase in tree sites managed.
- Improved asset inspections, such as poletop photography and Lidar, to improve the identification of defective equipment and vegetation issues, to target investment in highest risk network locations.

# Attachment F – Commentary on Major Event Days

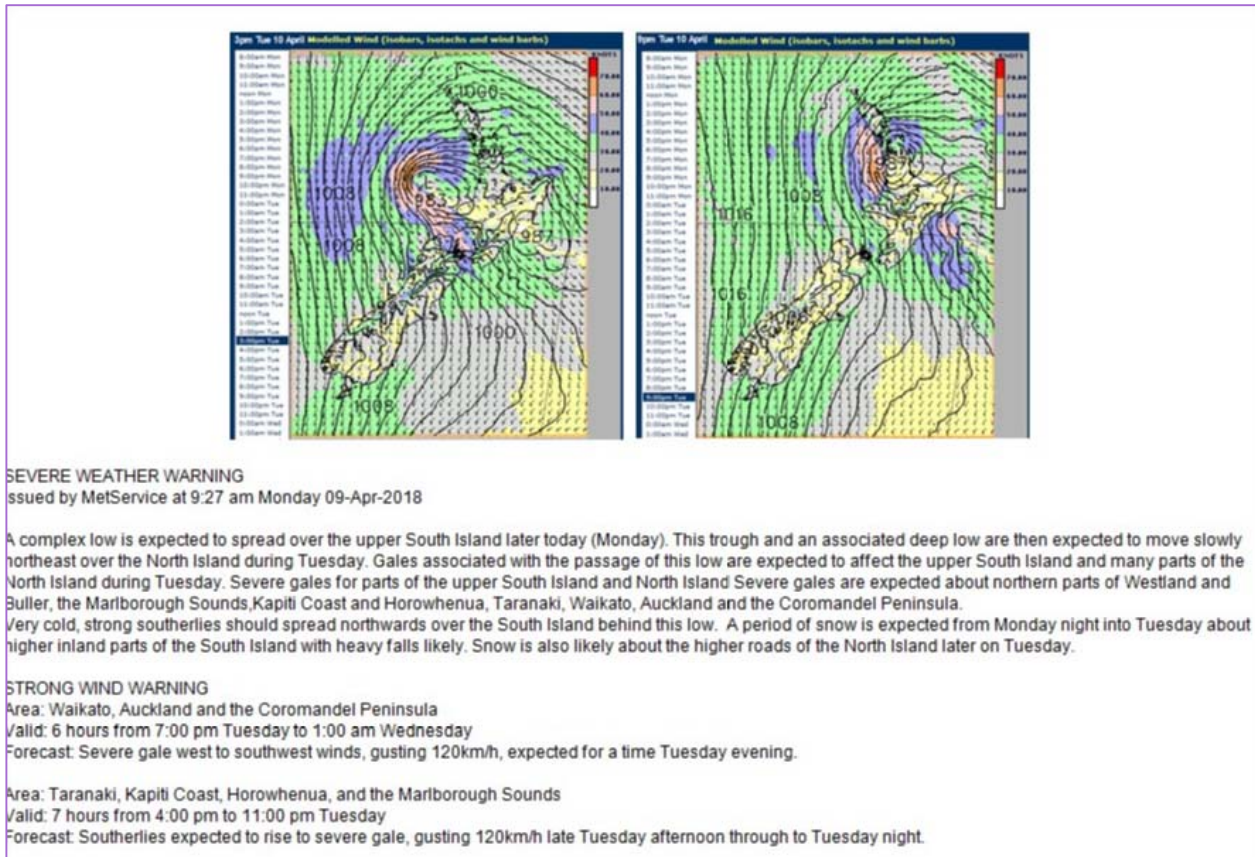
This section provides detail on the cause of the Major Event Days during the assessment period.

## Major Event Day

### 10<sup>th</sup> April 2018

- Early on the 10<sup>th</sup> April we received a weather watch to monitor a complex depression approaching from south west of the South Island towards the Powerco footprint.
- A severe lightning storm affected South Taranaki/Opunake causing widespread damage with over 12,000 ICPs impacted. The multiple outages were mainly restored by the 14<sup>th</sup> April.
- Reports of a tornado in coastal area south of New Plymouth with reports of damage to the network and houses in the area. Multiple network structures required replacement.
- The Western region was also affected by severe wind gusts up to 120km/hr.
- The weather front caused significant outages in the Valley and Coromandel areas.
- 12.91 SAIDI and 0.01 SAIFI was recorded for a single event near Whitianga due to trees falling on the lines during the storm.
- Unadjusted SAIDI for the day was 41.207 and 0.118 SAIFI. Both SAIDI and SAIFI were over the boundary limits and were normalised.

Figure 4: Severe weather warning 10<sup>th</sup> April 2018



## Attachment G – Compliance References

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

**Table 21: Wash-up amount calculation**

Determination clause	Requirement	Section of this document
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 22: Quality Path Summary**

Determination clause	Requirement	Section of this document
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	3.1
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	3.2

**Table 23: Annual compliance statement**

Determination clause	Requirement	Section of this document
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 washup amount for the assessment period	1
11.5(a)(ii)	A statement regarding compliance with the quality standards for the assessment period	1



Determination clause	Requirement	Section of this document
11.5(b)	The day on which the statement was prepared	Cover
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	Page 3
11.5(e)	An assurance report meeting the requirements in Schedule 8, in respect of all information contained in the 'annual compliance statement'	5
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	Attachment C
11.6(d)	Any reasons for non-compliance with the annual unplanned interruptions reliability assessment	Attachment D
11.6(d)	Actions taken to mitigate any non-compliance and to prevent similar non-compliance in future assessment periods	Attachment E
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
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, 3.4 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	3.5
11.6(h)	the cause of each major event day within the assessment period	Attachment F