



**Eastland**  
Network

# **Annual Compliance Statement**

**Electricity Distribution Services Default  
Price-Quality Path Determination 2015**

**For the assessment period:  
1 April 2019 to 31 March 2020**



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# 1 Summary of Compliance

For the assessment period 1 April 2019 – 31 March 2020, Eastland Network Limited complied with the Price path and the SAIDI and SAIFI quality standards

Test	Result	Result
Price path threshold	$\frac{NR_{2020}}{ANR_{2020}} \leq 1$	Non-compliant
Quality threshold - SAIDI	$\frac{SAIDI_{ASSESS,2020}}{SAIDI_{LIMIT}} \leq 1$	Compliant
Quality threshold - SAIFI	$\frac{SAIFI_{ASSESS,2020}}{SAIFI_{LIMIT}} \leq 1$	Compliant

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Eastland Network Limited

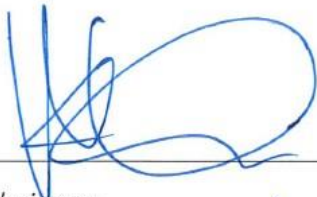
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## 2 Director's Certificate

We, MAFANUKU KUHIRINI MAHUKA and Jon Edmond Nichols, being directors of Eastland Network Limited certify that, having made all reasonable enquiry, to the best of our knowledge and belief, the attached Annual Compliance Statement of Eastland Network Limited, and related information, prepared for the purposes of the *Electricity Distribution Services Default Price-Quality Path Determination 2015* are true and accurate.



Chairman



Director

15-07-2020

Date

15/7/2020

Date

Note: Section 103(2) of the Commerce Act 1986 provides that no person shall attempt to deceive or knowingly mislead the Commission in relation to any matter before it. It is an offence to contravene section 103(2) and any person who does so is liable on summary conviction to a fine not exceeding \$10,000 in the case of an individual or \$30,000 in the case of a body corporate.

### 3 Introduction

This Threshold Compliance Statement (this statement) is submitted by Eastland Network Limited (Eastland) pursuant to the Electricity Distribution Services Default Price-Quality Path Determination 2015 (the Determination).

This statement provides threshold compliance information applicable to the Assessment Period of 1 April 2019 to 31 March 2020.

All financial figures in this Statement are represented in thousands (000's) unless stated otherwise.

### 4 Price Path

As required under clause 11.4 of the Determination, this Statement includes information to demonstrate compliance with clause 8. This information takes the form of:

- allowable notional revenue;
- notional revenue;
- prices (disaggregated into Distribution, Distribution Pass-through, Transmission prices);
- quantities;
- units of measurement associated with all numeric data;
- pass-through revenues;
- pass-through costs;
- recoverable costs; and
- other relevant data, information, and calculations, that states Eastland's position with respect to the price path threshold as described in clause 8 of the Determination.
- reasons for any non-compliance
- actions taken to mitigate any non-compliance

#### 4.1 Compliance with the price path

Eastland is compliant with the 2020 price path if at any time during the Assessment Period its notional revenue ( $NR_{2020}$ ) did not exceed the allowable notional revenue ( $ANR_{2020}$ );

$$\frac{NR_{2020}}{ANR_{2020}} \leq 1$$

Where -

$NR_{2020}$  - Notional revenue from 1 April 2019 to 31 March 2020

Eastland Network Limited's 2020 price path was 1.012 and is therefore non-compliant with clause 8.3 of the Default Price-Quality Path Determination 2015.

$$\frac{27,693}{27,366} = 1.012 > 1$$

## 4.2 Reason for non-compliance

Eastland Network's Pricing Model is used for calculating prices, notional revenue (NR) and allowable notional revenue (ANR) to ensure NR is lower than ANR.

Distribution prices, which are included in both NR and ANR calculations, had inconsistent formulas and incorrectly included Pass-through prices for most tariff codes.

Distribution prices are defined in Electricity Distribution Services Input Methodologies Determination 2012 as "the portion of prices excluding pass-through prices".

During the Assessment Period, Eastland Network's pass-through prices were negative (i.e. reduction to revenue) due to 2019 pass through balance, which resulted in a reduction to Eastland Network revenue.

This erroneous inclusion of pass through prices into distribution prices resulted in reduction of Notional revenue (NR) below Allowable notional revenue (ANR), giving false compliance status with the price path (NR \$27,280k < ANR \$27,403k)

As NR and ANR calculations are no longer required in DPP3 regulatory period, no change to pricing model is required.

Mitigation action will likely be a reduction of allowed revenue for period starting 1<sup>st</sup> April 2021 by the over-recovered amount adjusted for time value of money.

## 5 Pass-through Balance

Under section 8.6 of the determination, Eastland must calculate a Pass-through Balance in accordance with the formula –

$$PTB_t = \sum_i PTP_{i,t} Q_{i,t} - K_t - V_t + PTB_{t-1}(1+r)$$

Where –

$t$  is the year in which the Assessment Period ends;

$i$  denotes each Pass-through Price;

$PTB_t$  is the Pass-through Balance for the Assessment Period  $t$ ;

$PTB_{t-1}$  is-

- a) nil in the first Assessment Period in which a Non-exempt EDB must calculate a Pass-through Balance, and
- b) in all other Assessment Periods the Pass-through Balance for the Assessment Period prior to year t, as calculated using any additional information available at the end of the Assessment period t;

$PTP_{i,t}$  is the  $i^{\text{th}}$  Pass-through Price during any part of the Assessment Period t;

$Q_{i,t}$  is the Quantity for the Assessment Period t corresponding to the  $i^{\text{th}}$  Pass-through Price;

$K_t$  is the sum of all Pass-through Costs that apply to the Assessment Period t;

$V_t$  is the sum of all Recoverable Costs that apply to the Assessment Period t; and

$r$  is the Cost of Debt.

The pass-through balance for the year ended 31 March 2020 is \$358k over-recovered. This amount is to be deducted from next year's recoverable costs and included in distribution line charges for 2020/21.

The Pass-through Balance for Eastland for the first assessment period ending 31 March 2020 is (\$000's):

Pass-through Revenue $\sum PTP_{i,2020} Q_{i,2020}$	9,564
<i>Less Pass-through costs</i> $K_{2020}$	405
<u><i>Less Recoverable costs</i> <math>V_{2020}</math></u>	<u>9,978</u>
2020 Pass-through difference	(818)
Pass Through Balance <sub>2019</sub>	1,109
Multiply by (1+cost of debt)	1.0609
<u>Add to 2020 Pass-through difference</u>	<u>1,176</u>
<b><u>Pass-through Balance<sub>2020</sub></u></b>	<b><u>358</u></b>

The Pass-through Balance for Eastland for the prior assessment period ending 31 March 2019 was (\$000's):

$\sum PTP_{i,2019} Q_{i,2019}$	10,371
<i>Less</i> $K_t$	433
<u><i>Less</i> <math>V_t</math></u>	<u>9,689</u>
2019 Pass-through difference	249
<i>Less</i> PTB <sub>2018</sub>	811
Multiply by (1+6.09%)	1.0609

Plus	860
<b>Pass-through Balance</b>	<b>1,109</b>

Pass-through prices are calculated to minimise the pass-through balance as much as possible. However, variances occur due to actual costs and quantities (energy consumption in kWh and the number of customers) being different than those forecast.

Pass-through costs include Rates on Network Assets and Industry levies from regulatory bodies such as the Commerce Commission, Electricity Authority and Utilities Disputes Limited. The total recoverable costs relate largely to Transpower charges and distributed generation allowances but also includes the capex wash-up allowance and quality incentive value applicable for the 2019/20 pricing year.

Distribution and pass-through prices are determined by allocating revenue requirements for the network across consumer groups. Eastland uses the following allocators which are key drivers of network costs. These allocators are the number of connections (ICP), energy use (kWh), Installed capacity (kVA), and contribution to Regional Coincident Peak Demand.

Pass through costs are allocated on the basis of either capacity or ICP count depending on whether the costs relate to assets built or overhead costs. Eastland Network have allocated transmission costs to consumer groups using a close approximation to the methodology set out in Transpower transmission pricing methodology. Interconnection charges are allocated to consumers based on their share of total coincident peak demand on Eastland's network. Connection costs are allocated on the basis of capacity to reflect the assets owned and operated by Transpower are built for a particular capacity within the region.

Distributed Generation Allowances are allocated on the basis of regional coincidence peak demand (RCPD) as any reduction in coincidental peak also reduces the Interconnection charges from Transpower.

## 5.1 Pricing Methodology

The Eastland Network cost of supply model is used to determine the revenue requirement by consumer group that is necessary to efficiently allocate costs and reflect the actual cost of its services.

### 5.1.1 Cost Allocation

Eastland Network's cost of supply model contains the following input assumptions and statistics for the purpose of cost allocation. Eastland Network used the following statistics to allocate costs to consumer groups. This data was updated for the 2019/20 year.

Price category	Allocators			
	ICP's	kWhs	Installed KVA	Avg RCPD Contribution
PDH0030	13,887	84,315,257	58,727	904,245
PDL0030	5,694	37,628,460	43,466	81,727
PNH0003	134	633,265	203	35
PNH0030	1,687	22,175,635	15,728	40,343
PNH0100	276	20,870,110	15,059	2,671



<i>PNH0300</i>	71	13,870,697	14,425	423
<i>PTH0300</i>	7	1,638,307	386	12
<i>PNH0500</i>	17	8,324,652	6,265	148
<i>PNH1000</i>	23	25,019,077	16,553	442
<i>PNH4500</i>	2	7,668,669	1,500	29
<i>PNH6500</i>	1	19,674,145	1,000	150
<i>PNL0003</i>	127	262,682	127	35
<i>PNL0030</i>	3,520	18,025,286	29,823	59,017
<i>PNL0100</i>	105	4,472,404	4,992	393
<i>PNL0300</i>	20	1,665,889	2,745	15
<i>PTL0300</i>	1	71,016	250	1
<i>PNL0500</i>	4	1,130,938	1,100	44
<i>PNL1000</i>	1	903,244	500	7
<i>PNL4500</i>	1	12,650,267	1,000	121
<i>PNL6500</i>	0	0	0	0
<i>PNG0500</i>	0	0	0	0
<i>PNG1000</i>	6	0	6,000	0
<i>PNG4500</i>	1	0	2,000	0
<i>PNG6500</i>	1	0	4,000	0
<i>Totals</i>	25,586	281,000,000	225,849	1,089,858

### 5.1.2 Allocation of Revenue Requirement

Following the determination of the allocators, the revenue requirement, comprised of distribution and transmission requirements, is allocated between consumer groups.

The total revenue requirement has been allocated to consumer groups using the allocation methodology set out in the paragraphs which follow.

Eastland Network allocates much of its asset-based costs based on capacity installed. This is to reflect the view that there is little growth in the Eastland Network region and that Eastland Network's costs are driven by long lasting assets and therefore largely fixed. It is also a reflection that electricity distribution assets have been built to meet the capacity requirements at a connection point irrespective of the actual energy consumption.

Eastland Network have allocated transmission costs to consumer groups using a close approximation to the methodology set out in Transpower transmission pricing methodology. Interconnection charges are allocated to consumers based on their estimated share of total co-incident peak demand on Eastland's network. Connection costs are allocated on the basis of capacity to reflect the assets owned and operated by Transpower are built for a particular capacity within the region.

Distributed Generation Allowances are calculated based on injection during RCPD as any reduction in coincidental peak also reduces the Interconnection charges from Transpower.

Pass through costs are allocated on the basis of either capacity or ICP depending on whether the costs relate to assets built or overhead costs.

System Maintenance is allocated 80% based on capacity and 20% ICP. While these costs are largely driven by assets built, there is also some element of overhead which should be allocated based on ICP numbers. The 80/20 split is a best estimate.

Target return on investment and depreciation have been allocated to consumer groups based on capacity.

*Cost Allocation by Category*

Cost Category	Allocator
Transmission costs - Variable	RCPD
Transmission costs – Fixed Component	Capacity
Pass-through costs	Capacity or ICP
System Maintenance	Capacity 80%, ICP 20%
Business Support	ICP
System Operations & Network Support	Capacity or ICP
Taxes	ICP
Depreciation	Capacity
Return on Capital	Capacity

Further details regarding the methodology used to calculate prices are available in our 2019/20 Pricing methodology, which is published on Eastland Network website.

## 6 Quality Standards

As required under clause 9 of the Determination, this Statement documents the assessed values and reliability limits for the Assessment Period as well as the relevant SAIDI and SAIFI statistics and calculations together with other relevant data and information.

### 6.1 Compliance with quality standards

To comply with Quality standards, Eastland must not exceed its SAIDI or SAIFI reliability limit for

- a) the 2020 Assessment Period; or
- b) the two immediately preceding extant Assessment Periods.

#### SAIDI compliance

Eastland does not exceed its reliability limit if

$$\frac{SAIDI_{ASSESS,2020}}{SAIDI_{LIMIT}} \leq 1$$

The SAIDI Reliability Limit for the 2019/20 Assessment Period is:

$$SAIDI_{LIMIT} = 285.78$$

In the 2019/20 Assessment Period, Eastland's SAIDI was 223.77 and therefore falls within quality thresholds. As a result, Eastland complies with clause 9.1(a) of the Determination.

$$SAIDI_{2020} \text{ Reliability Assessment} = \frac{223.77}{285.78} = 0.78 < 1$$

The SAIDI Reliability Assessment for the two preceding periods were:

$$SAIDI_{2019} \text{ Reliability Assessment} = \frac{208.30}{285.78} = 0.73 < 1$$

$$SAIDI_{2018} \text{ Reliability Assessment} = \frac{221.50}{285.78} = 0.78 < 1$$

As a result, Eastland complies with clause 9.1(b) of the Determination.

### SAIFI compliance

The SAIFI quality threshold performance is as follows:

$$\frac{SAIFI_{ASSESS,2020}}{SAIFI_{LIMIT}} \leq 1$$

The SAIFI Reliability Limit for the 2019/20 Assessment Period is:

$$SAIFI_{LIMIT} = 3.77$$

In the 2019/20 Assessment Period, Eastland's SAIFI was 3.27 and therefore falls within quality thresholds. As a result, Eastland complies with clause 9.1(a) of the Determination.

$$SAIFI_{2020} \text{ Reliability Assessment} = \frac{3.27}{3.77} = 0.87 < 1$$

The SAIFI Reliability Assessment for the two preceding periods were:

$$\text{SAIFI}_{2019} \text{ Reliability Assessment} = \frac{2.89}{3.77} = 0.77 < 1$$

$$\text{SAIFI}_{2018} \text{ Reliability Assessment} = \frac{3.25}{3.77} = 0.86 < 1$$

As a result, Eastland complies with clause 9.1(b) of the Determination.

## 6.2 Procedures and policies for recording SAIDI and SAIFI

As required under clause 11.5(e) of the Determination, the policies and procedures used by Eastland for recording the SAIDI and SAIFI statistics for the assessment period are described below.

### Procedures

#### Connection Connectivity:

- Individual network connections are linked to a specific distribution transformer via GIS and ICP Billing system data outputs.
- Connection information and network connectivity is updated in GIS and ICP Billing systems from Network Alteration Application forms and/or as built Network Alteration data returns.
- GIS connection counts per network segment are updated and reviewed against ICP Billing system data annually.
- The process of Outage Notification to energy retailers provides an audit of connection and connectivity data accuracy.
- Responsibility: Project Engineers and Information Manager.

#### Interruption Data Capture:

- A Supply Interruption Data Input Form is completed for all notifiable outages. Data is captured in accordance with the definitions and requirements of the Electricity Distribution Information Disclosure Determination 2012, Electricity Distribution Services Default Price-Quality Path Determination 2015 and Reliability Performance Measurement Manual 1994 (and updates).
- **Responsibility:** System Operator

#### Interruption Data Analysis and Reporting:

- Interruption data entered into Outage Database and used for internal and external reporting.
  - **Responsibility:** Regulatory and Pricing Manager

## **Policies**

- Collection and analysis of interruption data is to be completed in accordance with Electricity Distribution Information Disclosure Determination 2012, Electricity Distribution Services Default Price-Quality Path Determination 2015 and Reliability Performance Measurement Manual 1994 (and updates).
- Monthly comparison of actual interruption performance with Asset Management Plan and Statement of Corporate Intent targets reported to and reviewed by the Board of Directors.
- Annual audits are undertaken on Connectivity, Interruption data capture and reporting processes to determine the accuracy and compliance of deliverables.

### **6.3 Major Event Day causes**

**18/12/2019** –High winds in the Wairoa region caused several separate outages on the network affecting 3,372 customers. Remote areas of the network were affected resulting in the last outages being restored 20/12/2019.

The summed minutes of all the interruptions beginning the 18/12/2019 resulted in an assessed SAIDI unplanned boundary value.

## **7 Restructuring of Prices**

Eastland did not restructure any prices during the Assessment Period.

## **8 Transfer of Transmission Assets with Transpower**

On 1 April 2015, Eastland Network acquired the Spur Transmission lines between Tuai and Gisborne, Tuai and Wairoa and Gisborne to Tokomaru Bay. The value of these assets has been incorporated into Eastland Network's pricing for the 2019/20 year. The transaction also provided an incentive of \$3.746m of Avoided Costs of Transmission which are included in Recoverable costs.

## **9 Amalgamation or Merger**

Eastland did not enter into an amalgamation or merger during the Assessment Period.

## **10 Major Transactions**

Eastland did not enter into any major transactions during the Assessment Period.

# 11 Price Path Threshold Supporting Calculations

## 11.1 Notional revenue for the assessment period

Notional revenue ( $NR_{2019/20}$ ) for the period from 1 April 2019 to 31 March 2020 is calculated in accordance with the following formula:

$$NR_{2019/20} = \sum DP_{i,2019/20} Q_{i,2017/18}$$

### Definitions:

$NR_{2019/20}$  = The Notional Revenue for the period of 1 April 2019 to 31 March 2020.

$DP_{i,2019/20}$  = The Eastland distribution prices that applied during the Assessment Period 1 April 2019 to 31 March 2020.

$Q_{i,2017/18}$  = The Eastland quantities that applied for the pricing period 1 April 2017 to 31 March 2018.

Notional Revenue ( $NR_{2019/20}$ ) (\$000's)	$\sum DP_{i,2019/20} Q_{i,2017/18}$	27,693
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## 11.2 Allowable notional revenue for the assessment period

The allowable notional revenue ( $ANR_{2019/20}$ ) for the period from 1 April 2019 to 31 March 2020 is calculated in accordance with the following formula:

$$ANR_{2019/20} = (\sum DP_{i,2018/19} Q_{i,2017/18} + (ANR_{2018/19} - NR_{2018/19}))(1 + \Delta CPI_{2019/20})(1 - X)$$

### Definitions:

$ANR_{2019/20}$  = The Allowable Notional Revenue for the period of 1 April 2018 to 31 March 2019.

$DP_{i,2018/19}$  = the  $i^{\text{th}}$  distribution price that applied during the assessment period from 1 April 2018 to 31 March 2019.

$Q_{i,2017/18}$  = Quantities for the assessment period from 1 April 2017 to 31 March 2018 corresponding to the  $i^{\text{th}}$  distribution price.

$ANR_{2018/19}$  = is the allowable notional revenue for the assessment period from 1 April 2018 to 31 March 2019.

$NR_{2018/19}$  = is the notional revenue for the assessment period from 1 April 2018 to 31 March 2019.

$\Delta CPI$  = is the derived change in CPI to be applied for the Assessment Period ending in the year 2019/20, being equal to:

$$\frac{CPI_{Dec,2017} + CPI_{Mar,2018} + CPI_{Jun,2018} + CPI_{Sep,2018}}{CPI_{Dec,2016} + CPI_{Mar,2017} + CPI_{Jun,2017} + CPI_{Sep,2017}} - 1$$

X = is the annual rate of change applicable to Eastland Network Limited as stated in Schedule 2 of the Electricity Distribution Services Default Price-Quality Path Determination 2015 which is -3%.

The calculation follows (\$000's):

	$\sum DP_{i,2018/19} Q_{i,2017/18}$	26,081
<i>Plus</i>	ANR <sub>2018/19</sub>	25,619
<i>Minus</i>	NR <sub>2018/19</sub>	(25,530)
		<u>26,170</u>
Multiply by	$1 + \Delta CPI_{2019/20}$	1.015
Multiply by	1-X	1.030
	Allowable Notional Revenue (ANR <sub>2019/20</sub> )	<u>27,366</u>

## 12 Quantities for period 1<sup>st</sup> April 2017 to 31<sup>st</sup> March 2018

Price Category	Consumer Group	Charge Type	2017/18					
			Actual ICPs	Actual Kwh	Distribution Charge (Excl PT)	Pass Through Charge	Transmission Charge	Total Charge
<b>Domestic</b>								
PDH0030	Domestic	Fixed Daily Charge	13,821		0.1096	0.0029	0.0375	0.1500
PDH0030	Domestic	Consumption Uncontrolled		60,646,178	0.1157	0.0020	0.0471	0.1648
PDH0030	Domestic	Consumption Controlled		22,766,764	0.0601	0.0011	0.0245	0.0857
PDH0030	Domestic	Consumption Night		12,720	0.0150	0.0002	0.0061	0.0213
PDL0030	Domestic	Fixed Daily Charge	5,687		0.1096	0.0029	0.0375	0.1500
PDL0030	Domestic	Consumption Uncontrolled		27,379,752	0.1348	0.0025	0.0555	0.1928
PDL0030	Domestic	Consumption Controlled		8,827,818	0.0727	0.0014	0.0300	0.1041
PDL0030	Domestic	Consumption Night		32,520	0.0175	0.0002	0.0072	0.0249
<b>Total Domestic</b>			<b>19,508</b>	<b>119,665,752</b>				
<b>Non-Domestic - High Density</b>								
PNH0003	Low Capacity (0 to 3kVA)	Fixed Daily Charge	134		0.2927	0.0054	0.1422	0.4403
PNH0003	Low Capacity (0 to 3kVA)	Capacity Charge			0.0000	0.0000	-	0
PNH0003	Low Capacity (0 to 3kVA)	Demand Charge			0.0000	0.0000	-	0
PNH0003	Low Capacity (0 to 3kVA)	Consumption Uncontrolled		650,588	0.0938	0.0018	0.0562	0.1518
PNH0003	Low Capacity (0 to 3kVA)	Consumption Controlled		104	0.0609	0.0011	0.0397	0.1017
PNH0003	Low Capacity (0 to 3kVA)	Consumption Night		0	0.0117	0.0002	0.0077	0.0196
PNH0030	Demand (0 to 30kVA)	Fixed Daily Charge	1,668		1.6458	0.0299	0.7365	2.4122
PNH0030	Demand (0 to 30kVA)	Capacity Charge			0.0000	0.0000	-	0
PNH0030	Demand (0 to 30kVA)	Demand Charge			0.0000	0.0000	-	0
PNH0030	Demand (0 to 30kVA)	Consumption Uncontrolled		20,609,674	0.0674	0.0011	0.0404	0.1089
PNH0030	Demand (0 to 30kVA)	Consumption Controlled		1,098,891	0.0439	0.0007	0.0262	0.0708
PNH0030	Demand (0 to 30kVA)	Consumption Night		33,082	0.0117	0.0002	0.0077	0.0196
PNH0100	Demand (31 to 100kVA)	Fixed Daily Charge	282		4.6551	0.0932	2.4915	7.2398
PNH0100	Demand (31 to 100kVA)	Capacity Charge			0.0000	0.0000	-	0
PNH0100	Demand (31 to 100kVA)	Demand Charge			0.0000	0.0000	-	0
PNH0100	Demand (31 to 100kVA)	Consumption Uncontrolled		19,750,305	0.0461	0.0009	0.0276	0.0746
PNH0100	Demand (31 to 100kVA)	Consumption Controlled		322,624	0.0299	0.0007	0.0178	0.0484
PNH0100	Demand (31 to 100kVA)	Consumption Night		213,151	0.0117	0.0002	0.0077	0.0196
PNH0300	Demand (101 to 300kVA)	Fixed Daily Charge	69		9.6585	0.1757	4.6981	14.5323
PNH0300	Demand (101 to 300kVA)	Capacity Charge			0.0000	0.0000	-	0
PNH0300	Demand (101 to 300kVA)	Demand Charge			0.0000	0.0000	-	0
PNH0300	Demand (101 to 300kVA)	Consumption Uncontrolled		14,544,902	0.0376	0.0007	0.0224	0.0607
PNH0300	Demand (101 to 300kVA)	Consumption Controlled		3,395	0.0244	0.0005	0.0145	0.0394
PNH0300	Demand (101 to 300kVA)	Consumption Night		0	0.0117	0.0002	0.0077	0.0196
PTH0300	TOU - Demand (201-300kVA)	Fixed Daily Charge	7		16.0976	0.2930	7.8301	24.2207
PTH0300	TOU - Demand (201-300kVA)	Consumption Uncontrolled			0.0000	0.0000	-	0
PTH0300	TOU - Demand (201-300kVA)	Demand Charge			0.0000	0.0000	-	0
PTH0300	TOU - Demand (201-300kVA)	Consumption Evening Peak		457,211	0.0355	0.0007	0.0200	0.0562
PTH0300	TOU - Demand (201-300kVA)	Consumption Morning Peak		669,847	0.0332	0.0007	0.0187	0.0526
PTH0300	TOU - Demand (201-300kVA)	Consumption Off Peak		859,664	0.0261	0.0005	0.0146	0.0412
PTH0300	TOU - Demand (201-300kVA)	Consumption Night		613,005	0.0134	0.0002	0.0077	0.0213
PNH0500	TOU - Demand (301-500kVA)	Fixed Daily Charge	17		18.1465	0.3303	8.8266	27.3034
PNH0500	TOU - Demand (301-500kVA)	Capacity Charge			0.0000	0.0000	-	0
PNH0500	TOU - Demand (301-500kVA)	Demand Charge			0.0000	0.0000	-	0
PNH0500	TOU - Demand (301-500kVA)	Consumption Evening Peak		1,257,395	0.0355	0.0007	0.0200	0.0562
PNH0500	TOU - Demand (301-500kVA)	Consumption Morning Peak		2,128,851	0.0332	0.0007	0.0187	0.0526
PNH0500	TOU - Demand (301-500kVA)	Consumption Off Peak		2,674,901	0.0261	0.0005	0.0146	0.0412
PNH0500	TOU - Demand (301-500kVA)	Consumption Night		2,170,296	0.0134	0.0002	0.0077	0.0213
PNH1000	TOU - Demand (501-1000kVA)	Fixed Daily Charge	22		28.0976	0.5114	13.6671	42.2761
PNH1000	TOU - Demand (501-1000kVA)	Capacity Charge			0.0000	0.0000	-	0
PNH1000	TOU - Demand (501-1000kVA)	Demand Charge			0.0000	0.0000	-	0
PNH1000	TOU - Demand (501-1000kVA)	Consumption Evening Peak		4,355,835	0.0355	0.0007	0.0200	0.0562
PNH1000	TOU - Demand (501-1000kVA)	Consumption Morning Peak		6,080,299	0.0332	0.0007	0.0187	0.0526
PNH1000	TOU - Demand (501-1000kVA)	Consumption Off Peak		8,041,163	0.0261	0.0005	0.0146	0.0412
PNH1000	TOU - Demand (501-1000kVA)	Consumption Night		7,193,469	0.0134	0.0002	0.0077	0.0213



Price Category	Consumer Group	Charge Type	2017/18					
			Actual	Actual Kwh	Distribution	Pass Through	Transmission	Total Charge
PNH4500	TOU - Demand (1001-4500kVA)	Fixed Daily Charge	2		70.2440	1.2785	34.1677	105.6902
PNH4500	TOU - Demand (1001-4500kVA)	Capacity Charge			0.0000	0.0000	-	0
PNH4500	TOU - Demand (1001-4500kVA)	Demand Charge			0.0000	0.0000	-	0
PNH4500	TOU - Demand (1001-4500kVA)	Consumption Evening Peak		1,915,166	0.0355	0.0007	0.0200	0.0562
PNH4500	TOU - Demand (1001-4500kVA)	Consumption Morning Peak		2,523,326	0.0332	0.0007	0.0187	0.0526
PNH4500	TOU - Demand (1001-4500kVA)	Consumption Off Peak		3,409,823	0.0261	0.0005	0.0146	0.0412
PNH4500	TOU - Demand (1001-4500kVA)	Consumption Night		3,706,636	0.0134	0.0002	0.0077	0.0213
<b>PNH6500</b>			<b>1</b>		<b>106.9024</b>	<b>1.9456</b>	<b>51.9992</b>	<b>160.8472</b>
PNH6500	TOU - Demand (4501-6500kVA)	Fixed Daily Charge			0.0000	0.0000	-	0
PNH6500	TOU - Demand (4501-6500kVA)	Capacity Charge			0.0000	0.0000	-	0
PNH6500	TOU - Demand (4501-6500kVA)	Demand Charge			0.0000	0.0000	-	0
PNH6500	TOU - Demand (4501-6500kVA)	Consumption Evening Peak		2,322,507	0.0355	0.0007	0.0200	0.0562
PNH6500	TOU - Demand (4501-6500kVA)	Consumption Morning Peak		3,853,119	0.0332	0.0007	0.0187	0.0526
PNH6500	TOU - Demand (4501-6500kVA)	Consumption Off Peak		4,618,811	0.0261	0.0005	0.0146	0.0412
PNH6500	TOU - Demand (4501-6500kVA)	Consumption Night		4,449,823	0.0134	0.0002	0.0077	0.0213
<b>Total Non-Domestic High Density</b>			<b>2,202</b>	<b>120,527,863</b>				
<b>Non-Domestic - Low Density</b>								
PNL0003	Low Capacity (0 to 3kVA)	Fixed Daily Charge	122		0.2927	0.0054	0.1422	0.4403
PNL0003	Low Capacity (0 to 3kVA)	Capacity Charge			0.0000	0.0000	-	0
PNL0003	Low Capacity (0 to 3kVA)	Demand Charge			0.0000	0.0000	-	0
PNL0003	Low Capacity (0 to 3kVA)	Consumption Uncontrolled		228,177	0.1084	0.0020	0.0648	0.1752
PNL0003	Low Capacity (0 to 3kVA)	Consumption Controlled		0	0.0704	0.0145	0.0457	0.1306
PNL0003	Low Capacity (0 to 3kVA)	Consumption Night		0	0.0136	0.0028	0.0087	0.0251
<b>PNL0030</b>			<b>3,545</b>		<b>1.6458</b>	<b>0.0299</b>	<b>0.7365</b>	<b>2.4122</b>
PNL0030	Demand (0 to 30kVA)	Fixed Daily Charge			0.0000	0.0000	-	0
PNL0030	Demand (0 to 30kVA)	Capacity Charge			0.0000	0.0000	-	0
PNL0030	Demand (0 to 30kVA)	Demand Charge			0.0000	0.0000	-	0
PNL0030	Demand (0 to 30kVA)	Consumption Uncontrolled		16,835,487	0.0704	0.0014	0.0421	0.1139
PNL0030	Demand (0 to 30kVA)	Consumption Controlled		1,464,106	0.0459	0.0009	0.0274	0.0742
PNL0030	Demand (0 to 30kVA)	Consumption Night		47,199	0.0136	0.0002	0.0087	0.0225
<b>PNL0100</b>			<b>100</b>		<b>4.6551</b>	<b>0.0932</b>	<b>2.4915</b>	<b>7.2398</b>
PNL0100	Demand (31 to 100kVA)	Fixed Daily Charge			0.0000	0.0000	-	0
PNL0100	Demand (31 to 100kVA)	Capacity Charge			0.0000	0.0000	-	0
PNL0100	Demand (31 to 100kVA)	Demand Charge			0.0000	0.0000	-	0
PNL0100	Demand (31 to 100kVA)	Consumption Uncontrolled		4,475,504	0.0536	0.0009	0.0320	0.0865
PNL0100	Demand (31 to 100kVA)	Consumption Controlled		154,020	0.0349	0.0007	0.0207	0.0563
PNL0100	Demand (31 to 100kVA)	Consumption Night		6,469	0.0136	0.0002	0.0087	0.0225
<b>PNL0300</b>			<b>20</b>		<b>9.6585</b>	<b>0.1757</b>	<b>4.6981</b>	<b>14.5323</b>
PNL0300	Demand (101 to 300kVA)	Fixed Daily Charge			0.0000	0.0000	-	0
PNL0300	Demand (101 to 300kVA)	Capacity Charge			0.0000	0.0000	-	0
PNL0300	Demand (101 to 300kVA)	Demand Charge			0.0000	0.0000	-	0
PNL0300	Demand (101 to 300kVA)	Consumption Uncontrolled		2,126,241	0.0428	0.0007	0.0256	0.0691
PNL0300	Demand (101 to 300kVA)	Consumption Controlled		0	0.0278	0.0005	0.0166	0.0449
PNL0300	Demand (101 to 300kVA)	Consumption Night		0	0.0136	0.0028	0.0087	0.0251
<b>PTL0300</b>			<b>1</b>		<b>16.0976</b>	<b>0.2930</b>	<b>7.8301</b>	<b>24.2207</b>
PTL0300	TOU - Demand (201-300kVA)	Fixed Daily Charge			0.0000	0.0000	-	0
PTL0300	TOU - Demand (201-300kVA)	Capacity Charge			0.0000	0.0000	-	0
PTL0300	TOU - Demand (201-300kVA)	Demand Charge			0.0000	0.0000	-	0
PTL0300	TOU - Demand (201-300kVA)	Consumption Evening Peak		935	0.0372	0.0007	0.0207	0.0586
PTL0300	TOU - Demand (201-300kVA)	Consumption Morning Peak		49,797	0.0349	0.0007	0.0195	0.0551
PTL0300	TOU - Demand (201-300kVA)	Consumption Off Peak		44,696	0.0273	0.0005	0.0155	0.0433
PTL0300	TOU - Demand (201-300kVA)	Consumption Night		1,380	0.0140	0.0002	0.0087	0.0229
<b>PNL0500</b>			<b>4</b>		<b>18.1465</b>	<b>0.3303</b>	<b>8.8266</b>	<b>27.3034</b>
PNL0500	TOU - Demand (301-500kVA)	Fixed Daily Charge			0.0000	0.0000	-	0
PNL0500	TOU - Demand (301-500kVA)	Capacity Charge			0.0000	0.0000	-	0
PNL0500	TOU - Demand (301-500kVA)	Demand Charge			0.0000	0.0000	-	0
PNL0500	TOU - Demand (301-500kVA)	Consumption Evening Peak		112,430	0.0372	0.0007	0.0207	0.0586
PNL0500	TOU - Demand (301-500kVA)	Consumption Morning Peak		151,183	0.0349	0.0007	0.0195	0.0551
PNL0500	TOU - Demand (301-500kVA)	Consumption Off Peak		208,791	0.0273	0.0005	0.0155	0.0433
PNL0500	TOU - Demand (301-500kVA)	Consumption Night		170,379	0.0140	0.0002	0.0087	0.0229
<b>PNL1000</b>			<b>1</b>		<b>28.0976</b>	<b>0.5114</b>	<b>13.6671</b>	<b>42.2761</b>
PNL1000	TOU - Demand (501-1000kVA)	Fixed Daily Charge			0.0000	0.0000	-	0
PNL1000	TOU - Demand (501-1000kVA)	Capacity Charge			0.0000	0.0000	-	0
PNL1000	TOU - Demand (501-1000kVA)	Demand Charge			0.0000	0.0000	-	0
PNL1000	TOU - Demand (501-1000kVA)	Consumption Evening Peak		161,299	0.0372	0.0007	0.0207	0.0586
PNL1000	TOU - Demand (501-1000kVA)	Consumption Morning Peak		281,036	0.0349	0.0007	0.0195	0.0551
PNL1000	TOU - Demand (501-1000kVA)	Consumption Off Peak		345,223	0.0273	0.0005	0.0155	0.0433
PNL1000	TOU - Demand (501-1000kVA)	Consumption Night		223,426	0.0140	0.0002	0.0087	0.0229

Price Category	Consumer Group	Charge Type	2017/18					
			Actual	Actual Kwh	Distribution	Pass Through	Transmission	Total Charge
PNL4500	TOU - Demand (1001-4500kVA)	Fixed Daily Charge	1		70.2440	1.2785	34.1677	105.6902
PNL4500	TOU - Demand (1001-4500kVA)	Capacity Charge			0.0000	0.0000	-	0
PNL4500	TOU - Demand (1001-4500kVA)	Demand Charge			0.0000	0.0000	-	0
PNL4500	TOU - Demand (1001-4500kVA)	Consumption Evening Peak		1,974,958	0.0372	0.0007	0.0207	0.0586
PNL4500	TOU - Demand (1001-4500kVA)	Consumption Morning Peak		3,029,429	0.0349	0.0007	0.0195	0.0551
PNL4500	TOU - Demand (1001-4500kVA)	Consumption Off Peak		3,910,307	0.0273	0.0005	0.0155	0.0433
PNL4500	TOU - Demand (1001-4500kVA)	Consumption Night		3,286,367	0.0140	0.0002	0.0087	0.0229
PNL6500	TOU - Demand (4501-6500kVA)	Fixed Daily Charge	0		106.9024	1.9456	51.9992	160.8472
PNL6500	TOU - Demand (4501-6500kVA)	Capacity Charge			0.0000	0.0000	-	0
PNL6500	TOU - Demand (4501-6500kVA)	Demand Charge			0.0000	0.0000	-	0
PNL6500	TOU - Demand (4501-6500kVA)	Consumption Evening Peak		0	0.0373	0.0007	0.0207	0.0586
PNL6500	TOU - Demand (4501-6500kVA)	Consumption Morning Peak		0	0.0349	0.0007	0.0195	0.0551
PNL6500	TOU - Demand (4501-6500kVA)	Consumption Off Peak		0	0.0273	0.0005	0.0155	0.0433
PNL6500	TOU - Demand (4501-6500kVA)	Consumption Night		0	0.0140	0.0002	0.0087	0.0229
<b>Total Non-Domestic Low Density</b>			<b>3,794</b>	<b>39,288,839</b>				
PNG0500	Assessed Capacity (301 to 500kVA)		0	0	18.1472	0.0000	-	18.1472
PNG1000	Assessed Capacity (501 to 1000kVA)		6	0	28.0976	0.5114	-	28.6090
PNG4500	Assessed Capacity (1001 to 4500kVA)		1	0	70.2472	0.0000	-	70.2472
PNG6500	Assessed Capacity (4501 to 6500kVA)		1	0	106.9073	0.0000	-	106.9073
<b>Total Generation</b>			<b>8</b>					
<b>NETWORK TOTAL</b>			<b>25,512</b>	<b>279,482,454</b>				

## 12.1 Pass-through cost variance to forecast

As required by clause 11.4(i)-(j) of the Determination, the following discusses the differences between the forecasted pass through costs that were used when Eastland set prices and the actual amounts during the Assessment Period.

The forecasted and actual Pass-through costs are as follows:

Pass-through costs (\$000's)	Forecast	Actual	Difference
Territorial Rates	338	272	-66
Commerce Act, EA & EGCC	139	133	-6
<b>Total</b>	<b>477</b>	<b>405</b>	<b>-72</b>

Variance explanation:

- **Territorial rates** - Actual year on year growth rate was lower than forecast.
- **Commerce Act, EA & EGCC Levies** - The difference between forecast and actuals is minor.

The forecasted and actual Recoverable costs:

Recoverable costs (000's)	Forecast	Actual	Difference
Transpower Connection & Interconnection Charges	5,804	5,787	-17
Transpower New Investment Contract	89	89	-
Avoided Costs of Transmission for assets acquired from Transpower	3,746	3,746	-
Distributed Generation Allowance	398	430	+32
Quality Incentive Allowance	126	125	-1
Capex Wash-up Allowance	(199)	(199)	-
<b>Total</b>	<b>9,965</b>	<b>9,978</b>	<b>+13</b>

Variance Explanations:

- **Transpower Charges** – Actual charges invoiced lower than forecast. Variance not material.
- **Distributed Generation allowance** - This is due to higher Transpower RCPD rate than forecast.

# 13 Pass-through Balance Supporting Statistics

## 13.1 Quantities for period from 1 April 2019 to 31 March 2020

Price Category	Consumer Group	Charge Type	2019/20					
			Actual ICPs	Actual Kwh	Distribution Charge (Excl PT)	Pass Through Charge	Transmission Charge	Total Charge
<b>Domestic</b>								
PDH0030	Domestic	Fixed Daily Charge	13,940		0.1096	0.0029	0.0375	0.1500
PDH0030	Domestic	Consumption Uncontrolled		63,113,547	0.1276	-0.0022	0.0390	0.1644
PDH0030	Domestic	Consumption Controlled		22,267,183	0.0663	-0.0018	0.0203	0.0848
PDH0030	Domestic	Consumption Night		8,967	0.0332	-0.0014	0.0051	0.0369
PDL0030	Domestic	Fixed Daily Charge	5,690		0.1096	0.0029	0.0375	0.1500
PDL0030	Domestic	Consumption Uncontrolled		27,997,670	0.1486	-0.0030	0.0460	0.1916
PDL0030	Domestic	Consumption Controlled		8,520,113	0.0801	-0.0024	0.0249	0.1026
PDL0030	Domestic	Consumption Night		34,095	0.0386	-0.0019	0.0059	0.0426
<b>Total Domestic</b>			<b>19,630</b>	<b>121,941,574</b>				
<b>Non-Domestic - High Density</b>								
PNH0003	Low Capacity (0 to 3kVA)	Fixed Daily Charge	134		0.3227	0.0054	0.1422	0.4703
PNH0003	Low Capacity (0 to 3kVA)	Capacity Charge			0.0000	0.0000	-	0
PNH0003	Low Capacity (0 to 3kVA)	Demand Charge			0.0000	0.0000	-	0
PNH0003	Low Capacity (0 to 3kVA)	Consumption Uncontrolled		638,724	0.1034	-0.0020	0.0466	0.1480
PNH0003	Low Capacity (0 to 3kVA)	Consumption Controlled		0	0.0671	-0.0010	0.0329	0.0990
PNH0003	Low Capacity (0 to 3kVA)	Consumption Night		0	0.0257	0.0000	0.0063	0.0321
PNH0030	Demand (0 to 30kVA)	Fixed Daily Charge	1,705		1.8145	0.0299	0.7365	2.5809
PNH0030	Demand (0 to 30kVA)	Capacity Charge			0.0000	0.0000	-	0
PNH0030	Demand (0 to 30kVA)	Demand Charge			0.0000	0.0000	-	0
PNH0030	Demand (0 to 30kVA)	Consumption Uncontrolled		20,654,206	0.0743	-0.0017	0.0334	0.1060
PNH0030	Demand (0 to 30kVA)	Consumption Controlled		960,819	0.0494	-0.0015	0.0217	0.0696
PNH0030	Demand (0 to 30kVA)	Consumption Night		34,429	0.0258	-0.0011	0.0063	0.0310
PNH0100	Demand (31 to 100kVA)	Fixed Daily Charge	286		5.1323	0.0932	2.4915	7.7170
PNH0100	Demand (31 to 100kVA)	Capacity Charge			0.0000	0.0000	-	0
PNH0100	Demand (31 to 100kVA)	Demand Charge			0.0000	0.0000	-	0
PNH0100	Demand (31 to 100kVA)	Consumption Uncontrolled		19,597,767	0.0508	-0.0014	0.0229	0.0723
PNH0100	Demand (31 to 100kVA)	Consumption Controlled		303,158	0.0340	-0.0013	0.0147	0.0474
PNH0100	Demand (31 to 100kVA)	Consumption Night		231,621	0.0258	-0.0009	0.0063	0.0312
PNH0300	Demand (101 to 300kVA)	Fixed Daily Charge	71		10.6485	0.1757	4.6981	15.5223
PNH0300	Demand (101 to 300kVA)	Capacity Charge			0.0000	0.0000	-	0
PNH0300	Demand (101 to 300kVA)	Demand Charge			0.0000	0.0000	-	0
PNH0300	Demand (101 to 300kVA)	Consumption Uncontrolled		14,262,809	0.0436	-0.0020	0.0185	0.0601
PNH0300	Demand (101 to 300kVA)	Consumption Controlled		13,288	0.0289	-0.0018	0.0120	0.0391
PNH0300	Demand (101 to 300kVA)	Consumption Night		0	0.0129	0.0000	0.0064	0.0192
PTH0300	TOU - Demand (201-300kVA)	Fixed Daily Charge	7		17.7476	0.2930	7.8301	25.8707
PTH0300	TOU - Demand (201-300kVA)	Consumption Uncontrolled		-82,317	0.0000	0.0000	-	0
PTH0300	TOU - Demand (201-300kVA)	Consumption Evening Peak		668,396	0.0421	-0.0025	0.0166	0.0562
PTH0300	TOU - Demand (201-300kVA)	Consumption Morning Peak		1,010,573	0.0393	-0.0025	0.0155	0.0523
PTH0300	TOU - Demand (201-300kVA)	Consumption Off Peak		1,195,911	0.0314	-0.0022	0.0121	0.0413
PTH0300	TOU - Demand (201-300kVA)	Consumption Night		688,333	0.0173	-0.0019	0.0063	0.0217
PNH0500	TOU - Demand (301-500kVA)	Fixed Daily Charge	16		20.0065	0.3303	8.8266	29.1634
PNH0500	TOU - Demand (301-500kVA)	Capacity Charge			0.0000	0.0000	-	0
PNH0500	TOU - Demand (301-500kVA)	Demand Charge			0.0000	0.0000	-	0
PNH0500	TOU - Demand (301-500kVA)	Consumption Evening Peak		1,341,828	0.0421	-0.0025	0.0166	0.0562
PNH0500	TOU - Demand (301-500kVA)	Consumption Morning Peak		2,149,366	0.0393	-0.0025	0.0155	0.0523
PNH0500	TOU - Demand (301-500kVA)	Consumption Off Peak		2,753,393	0.0314	-0.0022	0.0121	0.0413
PNH0500	TOU - Demand (301-500kVA)	Consumption Night		2,215,967	0.0173	-0.0019	0.0063	0.0217
PNH1000	TOU - Demand (501-1000kVA)	Fixed Daily Charge	23		30.9776	0.5114	13.6671	45.1561
PNH1000	TOU - Demand (501-1000kVA)	Capacity Charge			0.0000	0.0000	-	0
PNH1000	TOU - Demand (501-1000kVA)	Demand Charge			0.0000	0.0000	-	0
PNH1000	TOU - Demand (501-1000kVA)	Consumption Evening Peak		4,864,043	0.0421	-0.0025	0.0166	0.0562
PNH1000	TOU - Demand (501-1000kVA)	Consumption Morning Peak		7,143,734	0.0393	-0.0025	0.0155	0.0523
PNH1000	TOU - Demand (501-1000kVA)	Consumption Off Peak		9,306,504	0.0314	-0.0022	0.0121	0.0413
PNH1000	TOU - Demand (501-1000kVA)	Consumption Night		8,157,473	0.0173	-0.0019	0.0063	0.0217

Price Category	Consumer Group	Charge Type	2019/20					
			Actual	Actual Kwh	Distribution	Pass Through	Transmission	Total Charge
PNH4500	TOU - Demand (1001-4500kVA)	Fixed Daily Charge	2		77.4440	1.2785	34.1677	112.8902
PNH4500	TOU - Demand (1001-4500kVA)	Capacity Charge			0.0000	0.0000	-	0
PNH4500	TOU - Demand (1001-4500kVA)	Demand Charge			0.0000	0.0000	-	0
PNH4500	TOU - Demand (1001-4500kVA)	Consumption Evening Peak		2,101,745	0.0421	-0.0025	0.0166	0.0562
PNH4500	TOU - Demand (1001-4500kVA)	Consumption Morning Peak		2,719,407	0.0393	-0.0025	0.0155	0.0523
PNH4500	TOU - Demand (1001-4500kVA)	Consumption Off Peak		3,734,455	0.0314	-0.0022	0.0121	0.0413
PNH4500	TOU - Demand (1001-4500kVA)	Consumption Night		3,950,306	0.0173	-0.0019	0.0063	0.0217
PNH6500	TOU - Demand (4501-6500kVA)	Fixed Daily Charge	1		117.8599	1.9456	51.9992	171.8047
PNH6500	TOU - Demand (4501-6500kVA)	Capacity Charge			0.0000	0.0000	-	0
PNH6500	TOU - Demand (4501-6500kVA)	Demand Charge			0.0000	0.0000	-	0
PNH6500	TOU - Demand (4501-6500kVA)	Consumption Evening Peak		1,134,636	0.0421	-0.0025	0.0166	0.0562
PNH6500	TOU - Demand (4501-6500kVA)	Consumption Morning Peak		2,053,815	0.0393	-0.0025	0.0155	0.0523
PNH6500	TOU - Demand (4501-6500kVA)	Consumption Off Peak		2,426,991	0.0314	-0.0022	0.0121	0.0413
PNH6500	TOU - Demand (4501-6500kVA)	Consumption Night		2,150,308	0.0173	-0.0019	0.0063	0.0217
<b>Total Non-Domestic High Density</b>			<b>2,245</b>	<b>118,381,687</b>				
<b>Non-Domestic - Low Density</b>								
PNL0003	Low Capacity (0 to 3kVA)	Fixed Daily Charge	127		0.3227	0.0054	0.1422	0.4703
PNL0003	Low Capacity (0 to 3kVA)	Capacity Charge			0.0000	0.0000	-	0
PNL0003	Low Capacity (0 to 3kVA)	Demand Charge			0.0000	0.0000	-	0
PNL0003	Low Capacity (0 to 3kVA)	Consumption Uncontrolled		231,692	0.1225	-0.0042	0.0537	0.1720
PNL0003	Low Capacity (0 to 3kVA)	Consumption Controlled		0	0.0795	-0.0021	0.0378	0.1152
PNL0003	Low Capacity (0 to 3kVA)	Consumption Night		0	0.0299	0.0000	0.0072	0.0372
PNL0030	Demand (0 to 30kVA)	Fixed Daily Charge	3,512		1.8145	0.0299	0.7365	2.5809
PNL0030	Demand (0 to 30kVA)	Capacity Charge			0.0000	0.0000	-	0
PNL0030	Demand (0 to 30kVA)	Demand Charge			0.0000	0.0000	-	0
PNL0030	Demand (0 to 30kVA)	Consumption Uncontrolled		17,311,868	0.0815	-0.0041	0.0349	0.1123
PNL0030	Demand (0 to 30kVA)	Consumption Controlled		1,482,651	0.0549	-0.0036	0.0227	0.0740
PNL0030	Demand (0 to 30kVA)	Consumption Night		29,373	0.0300	-0.0026	0.0072	0.0346
PNL0100	Demand (31 to 100kVA)	Fixed Daily Charge	107		5.1323	0.0932	2.4915	7.7170
PNL0100	Demand (31 to 100kVA)	Capacity Charge			0.0000	0.0000	-	0
PNL0100	Demand (31 to 100kVA)	Demand Charge			0.0000	0.0000	-	0
PNL0100	Demand (31 to 100kVA)	Consumption Uncontrolled		4,670,802	0.0635	-0.0022	0.0265	0.0878
PNL0100	Demand (31 to 100kVA)	Consumption Controlled		97,846	0.0413	-0.0020	0.0172	0.0565
PNL0100	Demand (31 to 100kVA)	Consumption Night		14,897	0.0225	-0.0014	0.0072	0.0283
PNL0300	Demand (101 to 300kVA)	Fixed Daily Charge	22		10.6485	0.1757	4.6981	15.5223
PNL0300	Demand (101 to 300kVA)	Capacity Charge			0.0000	0.0000	-	0
PNL0300	Demand (101 to 300kVA)	Demand Charge			0.0000	0.0000	-	0
PNL0300	Demand (101 to 300kVA)	Consumption Uncontrolled		2,087,427	0.0506	-0.0032	0.0213	0.0687
PNL0300	Demand (101 to 300kVA)	Consumption Controlled		0	0.0344	-0.0028	0.0137	0.0453
PNL0300	Demand (101 to 300kVA)	Consumption Night		0	0.0300	0.0000	0.0072	0.0372
PTL0300	TOU - Demand (201-300kVA)	Fixed Daily Charge	1		17.7476	0.2930	7.8301	25.8707
PTL0300	TOU - Demand (201-300kVA)	Capacity Charge			0.0000	0.0000	-	0
PTL0300	TOU - Demand (201-300kVA)	Demand Charge			0.0000	0.0000	-	0
PTL0300	TOU - Demand (201-300kVA)	Consumption Evening Peak		809	0.0442	-0.0033	0.0172	0.0581
PTL0300	TOU - Demand (201-300kVA)	Consumption Morning Peak		68,757	0.0413	-0.0033	0.0162	0.0542
PTL0300	TOU - Demand (201-300kVA)	Consumption Off Peak		63,991	0.0324	-0.0029	0.0129	0.0424
PTL0300	TOU - Demand (201-300kVA)	Consumption Night		2,023	0.0180	-0.0027	0.0072	0.0225
PNL0500	TOU - Demand (301-500kVA)	Fixed Daily Charge	4		20.0065	0.3303	8.8266	29.1634
PNL0500	TOU - Demand (301-500kVA)	Capacity Charge			0.0000	0.0000	-	0
PNL0500	TOU - Demand (301-500kVA)	Demand Charge			0.0000	0.0000	-	0
PNL0500	TOU - Demand (301-500kVA)	Consumption Evening Peak		132,081	0.0442	-0.0033	0.0172	0.0581
PNL0500	TOU - Demand (301-500kVA)	Consumption Morning Peak		186,896	0.0413	-0.0033	0.0162	0.0542
PNL0500	TOU - Demand (301-500kVA)	Consumption Off Peak		248,415	0.0324	-0.0029	0.0129	0.0424
PNL0500	TOU - Demand (301-500kVA)	Consumption Night		194,277	0.0180	-0.0027	0.0072	0.0225
PNL1000	TOU - Demand (501-1000kVA)	Fixed Daily Charge	1		30.9776	0.5114	13.6671	45.1561
PNL1000	TOU - Demand (501-1000kVA)	Capacity Charge			0.0000	0.0000	-	0
PNL1000	TOU - Demand (501-1000kVA)	Demand Charge			0.0000	0.0000	-	0
PNL1000	TOU - Demand (501-1000kVA)	Consumption Evening Peak		251,394	0.0442	-0.0033	0.0172	0.0581
PNL1000	TOU - Demand (501-1000kVA)	Consumption Morning Peak		394,919	0.0413	-0.0033	0.0162	0.0542
PNL1000	TOU - Demand (501-1000kVA)	Consumption Off Peak		512,247	0.0324	-0.0029	0.0129	0.0424
PNL1000	TOU - Demand (501-1000kVA)	Consumption Night		394,439	0.0180	-0.0027	0.0072	0.0225

Price Category	Consumer Group	Charge Type	2019/20					
			Actual	Actual Kwh	Distribution	Pass Through	Transmission	Total Charge
PNL4500	TOU - Demand (1001-4500kVA)	Fixed Daily Charge	1		77.4440	1.2785	34.1677	112.8902
PNL4500	TOU - Demand (1001-4500kVA)	Capacity Charge			0.0000	0.0000	-	0
PNL4500	TOU - Demand (1001-4500kVA)	Demand Charge			0.0000	0.0000	-	0
PNL4500	TOU - Demand (1001-4500kVA)	Consumption Evening Peak		2,239,240	0.0442	-0.0033	0.0172	0.0581
PNL4500	TOU - Demand (1001-4500kVA)	Consumption Morning Peak		3,466,795	0.0413	-0.0033	0.0162	0.0542
PNL4500	TOU - Demand (1001-4500kVA)	Consumption Off Peak		4,428,855	0.0324	-0.0029	0.0129	0.0424
PNL4500	TOU - Demand (1001-4500kVA)	Consumption Night		3,830,730	0.0180	-0.0027	0.0072	0.0225
PNL6500	TOU - Demand (4501-6500kVA)	Fixed Daily Charge	0		117.8599	0.0000	43.0943	160.9543
PNL6500	TOU - Demand (4501-6500kVA)	Capacity Charge			0.0000	0.0000	-	0
PNL6500	TOU - Demand (4501-6500kVA)	Demand Charge			0.0000	0.0000	-	0
PNL6500	TOU - Demand (4501-6500kVA)	Consumption Evening Peak		0	0.0441	-0.0033	0.0172	0.0580
PNL6500	TOU - Demand (4501-6500kVA)	Consumption Morning Peak		0	0.0413	-0.0033	0.0162	0.0542
PNL6500	TOU - Demand (4501-6500kVA)	Consumption Off Peak		0	0.0324	-0.0029	0.0129	0.0424
PNL6500	TOU - Demand (4501-6500kVA)	Consumption Night		0	0.0180	-0.0027	0.0072	0.0225
<b>Total Non-Domestic Low Density</b>			<b>3,775</b>	<b>42,342,425</b>				
<b>Generation</b>								
PNG0500	Assessed Capacity (301 to 500kVA)		0		20.0073	0.0000	-	20.0073
PNG1000	Assessed Capacity (501 to 1000kVA)		6		32.5265	-2.0456	-	30.4809
PNG4500	Assessed Capacity (1001 to 4500kVA)		1		77.4476	0.0000	-	77.4476
PNG6500	Assessed Capacity (4501 to 6500kVA)		1		117.8653	0.0000	-	117.8653
<b>Total Generation</b>			<b>8</b>					
<b>NETWORK TOTAL</b>			<b>25,658</b>	<b>282,665,686</b>				

## 13.2 Quantities for period from 1 April 2018 to 31 March 2019

Price Category	Consumer Group	Charge Type	2018/19					
			Actual ICPs	Actual Kwh	Distribution Charge (Excl PT)	Pass Through Charge	Transmission Charge	Total Charge
<b>Domestic</b>								
PDH0030	Domestic	Fixed Daily Charge	13,897		0.1096	0.0029	0.0375	0.1500
PDH0030	Domestic	Consumption Uncontrolled		62,825,147	0.1215	0.0000	0.0400	0.1615
PDH0030	Domestic	Consumption Controlled		22,838,746	0.0631	0.0000	0.0208	0.0839
PDH0030	Domestic	Consumption Night		10,191	0.0158	0.0000	0.0052	0.0210
PDL0030	Domestic	Fixed Daily Charge	5,692		0.1096	0.0029	0.0375	0.1500
PDL0030	Domestic	Consumption Uncontrolled		27,938,896	0.1415	0.0000	0.0472	0.1887
PDL0030	Domestic	Consumption Controlled		8,784,758	0.0763	0.0000	0.0255	0.1018
PDL0030	Domestic	Consumption Night		32,030	0.0184	0.0000	0.0061	0.0245
<b>Total Domestic</b>			<b>19,589</b>	<b>122,429,768</b>				
<b>Non-Domestic - High Density</b>								
PNH0003	Low Capacity (0 to 3kVA)	Fixed Daily Charge	134		0.3073	0.0054	0.1422	0.4549
PNH0003	Low Capacity (0 to 3kVA)	Capacity Charge						
PNH0003	Low Capacity (0 to 3kVA)	Demand Charge						
PNH0003	Low Capacity (0 to 3kVA)	Consumption Uncontrolled		645,375	0.0985	0.0000	0.0478	0.1463
PNH0003	Low Capacity (0 to 3kVA)	Consumption Controlled		190	0.0639	0.0000	0.0337	0.0976
PNH0003	Low Capacity (0 to 3kVA)	Consumption Night		0	0.0123	0.0000	0.0065	0.0188
PNH0030	Demand (0 to 30kVA)	Fixed Daily Charge	1,687		1.7281	0.0299	0.7365	2.4945
PNH0030	Demand (0 to 30kVA)	Capacity Charge						
PNH0030	Demand (0 to 30kVA)	Demand Charge						
PNH0030	Demand (0 to 30kVA)	Consumption Uncontrolled		20,736,260	0.0708	0.0000	0.0343	0.1051
PNH0030	Demand (0 to 30kVA)	Consumption Controlled		1,000,713	0.0461	0.0000	0.0223	0.0684
PNH0030	Demand (0 to 30kVA)	Consumption Night		32,821	0.0123	0.0000	0.0065	0.0188
PNH0100	Demand (31 to 100kVA)	Fixed Daily Charge	278		4.8879	0.0932	2.4915	7.4726
PNH0100	Demand (31 to 100kVA)	Capacity Charge						
PNH0100	Demand (31 to 100kVA)	Demand Charge						
PNH0100	Demand (31 to 100kVA)	Consumption Uncontrolled		19,412,850	0.0484	0.0000	0.0235	0.0719
PNH0100	Demand (31 to 100kVA)	Consumption Controlled		311,582	0.0314	0.0000	0.0151	0.0465
PNH0100	Demand (31 to 100kVA)	Consumption Night		238,047	0.0123	0.0000	0.0065	0.0188
PNH0300	Demand (101 to 300kVA)	Fixed Daily Charge	71		10.1414	0.1757	4.6981	15.0152
PNH0300	Demand (101 to 300kVA)	Capacity Charge						
PNH0300	Demand (101 to 300kVA)	Demand Charge						
PNH0300	Demand (101 to 300kVA)	Consumption Uncontrolled		14,573,375	0.0395	0.0000	0.0190	0.0585
PNH0300	Demand (101 to 300kVA)	Consumption Controlled		26,283	0.0256	0.0000	0.0123	0.0379
PNH0300	Demand (101 to 300kVA)	Consumption Night		0	0.0123	0.0000	0.0065	0.0188
PTH0300	TOU - Demand (201-300kVA)	Fixed Daily Charge	8		16.9025	0.2930	7.8301	25.0256
PTH0300	TOU - Demand (201-300kVA)	Consumption Uncontrolled						
PTH0300	TOU - Demand (201-300kVA)	Demand Charge						
PTH0300	TOU - Demand (201-300kVA)	Consumption Evening Peak		463,716	0.0373	0.0000	0.0170	0.0543
PTH0300	TOU - Demand (201-300kVA)	Consumption Morning Peak		680,545	0.0349	0.0000	0.0159	0.0508
PTH0300	TOU - Demand (201-300kVA)	Consumption Off Peak		868,198	0.0274	0.0000	0.0124	0.0398
PTH0300	TOU - Demand (201-300kVA)	Consumption Night		639,584	0.0141	0.0000	0.0065	0.0206
PNH0500	TOU - Demand (301-500kVA)	Fixed Daily Charge	16		19.0538	0.3303	8.8266	28.2107
PNH0500	TOU - Demand (301-500kVA)	Capacity Charge						
PNH0500	TOU - Demand (301-500kVA)	Demand Charge						
PNH0500	TOU - Demand (301-500kVA)	Consumption Evening Peak		1,320,358	0.0373	0.0000	0.0170	0.0543
PNH0500	TOU - Demand (301-500kVA)	Consumption Morning Peak		2,128,091	0.0349	0.0000	0.0159	0.0508
PNH0500	TOU - Demand (301-500kVA)	Consumption Off Peak		2,718,208	0.0274	0.0000	0.0124	0.0398
PNH0500	TOU - Demand (301-500kVA)	Consumption Night		2,227,097	0.0141	0.0000	0.0065	0.0206
PNH1000	TOU - Demand (501-1000kVA)	Fixed Daily Charge	23		29.5025	0.5114	13.6671	43.6810
PNH1000	TOU - Demand (501-1000kVA)	Capacity Charge						
PNH1000	TOU - Demand (501-1000kVA)	Demand Charge						
PNH1000	TOU - Demand (501-1000kVA)	Consumption Evening Peak		4,737,904	0.0373	0.0000	0.0170	0.0543
PNH1000	TOU - Demand (501-1000kVA)	Consumption Morning Peak		7,123,451	0.0349	0.0000	0.0159	0.0508
PNH1000	TOU - Demand (501-1000kVA)	Consumption Off Peak		9,197,717	0.0274	0.0000	0.0124	0.0398
PNH1000	TOU - Demand (501-1000kVA)	Consumption Night		8,171,493	0.0141	0.0000	0.0065	0.0206



Price Category	Consumer Group	Charge Type	2018/19					
			Actual	Actual Kwh	Distribution	Pass Through	Transmission	Total Charge
PNH4500	TOU - Demand (1001-4500kVA)	Fixed Daily Charge	2		73.7562	1.2785	34.1677	109.2024
PNH4500	TOU - Demand (1001-4500kVA)	Capacity Charge			0.0000	0.0000	-	
PNH4500	TOU - Demand (1001-4500kVA)	Demand Charge			0.0000	0.0000	-	
PNH4500	TOU - Demand (1001-4500kVA)	Consumption Evening Peak		2,165,996	0.0373	0.0000	0.0170	0.0543
PNH4500	TOU - Demand (1001-4500kVA)	Consumption Morning Peak		2,749,029	0.0349	0.0000	0.0159	0.0508
PNH4500	TOU - Demand (1001-4500kVA)	Consumption Off Peak		3,732,067	0.0274	0.0000	0.0124	0.0398
PNH4500	TOU - Demand (1001-4500kVA)	Consumption Night		4,206,397	0.0141	0.0000	0.0065	0.0206
PNH6500	TOU - Demand (4501-6500kVA)	Fixed Daily Charge	1		112.2475	1.9456	51.9992	166.1923
PNH6500	TOU - Demand (4501-6500kVA)	Capacity Charge						
PNH6500	TOU - Demand (4501-6500kVA)	Demand Charge						
PNH6500	TOU - Demand (4501-6500kVA)	Consumption Evening Peak		1,205,273	0.0373	0.0000	0.0170	0.0543
PNH6500	TOU - Demand (4501-6500kVA)	Consumption Morning Peak		1,986,587	0.0349	0.0000	0.0159	0.0508
PNH6500	TOU - Demand (4501-6500kVA)	Consumption Off Peak		2,437,808	0.0274	0.0000	0.0124	0.0398
PNH6500	TOU - Demand (4501-6500kVA)	Consumption Night		2,178,194	0.0141	0.0000	0.0065	0.0206
<b>Total Non-Domestic High Density</b>			<b>2,220</b>	<b>117,915,209</b>				
<b>Non-Domestic - Low Density</b>								
PNL0003	Low Capacity (0 to 3kVA)	Fixed Daily Charge	128		0.3073	0.0054	0.1422	0.4549
PNL0003	Low Capacity (0 to 3kVA)	Capacity Charge						
PNL0003	Low Capacity (0 to 3kVA)	Demand Charge						
PNL0003	Low Capacity (0 to 3kVA)	Consumption Uncontrolled		231,305	0.1138	0.0000	0.0551	0.1689
PNL0003	Low Capacity (0 to 3kVA)	Consumption Controlled		0	0.0739	0.0000	0.0388	0.1127
PNL0003	Low Capacity (0 to 3kVA)	Consumption Night		0	0.0142	0.0028	0.0074	0.0245
PNL0030	Demand (0 to 30kVA)	Fixed Daily Charge	3,520		1.7281	0.0299	0.7365	2.4945
PNL0030	Demand (0 to 30kVA)	Capacity Charge						
PNL0030	Demand (0 to 30kVA)	Demand Charge						
PNL0030	Demand (0 to 30kVA)	Consumption Uncontrolled		16,876,320	0.0739	0.0000	0.0358	0.1097
PNL0030	Demand (0 to 30kVA)	Consumption Controlled		1,460,250	0.0482	0.0000	0.0233	0.0715
PNL0030	Demand (0 to 30kVA)	Consumption Night		49,983	0.0143	0.0000	0.0074	0.0217
PNL0100	Demand (31 to 100kVA)	Fixed Daily Charge	105		4.8879	0.0932	2.4915	7.4726
PNL0100	Demand (31 to 100kVA)	Capacity Charge						
PNL0100	Demand (31 to 100kVA)	Demand Charge						
PNL0100	Demand (31 to 100kVA)	Consumption Uncontrolled		4,533,437	0.0563	0.0000	0.0272	0.0835
PNL0100	Demand (31 to 100kVA)	Consumption Controlled		137,821	0.0366	0.0000	0.0176	0.0542
PNL0100	Demand (31 to 100kVA)	Consumption Night		27,157	0.0143	0.0000	0.0074	0.0217
PNL0300	Demand (101 to 300kVA)	Fixed Daily Charge	20		10.1414	0.1757	4.6981	15.0152
PNL0300	Demand (101 to 300kVA)	Capacity Charge						
PNL0300	Demand (101 to 300kVA)	Demand Charge						
PNL0300	Demand (101 to 300kVA)	Consumption Uncontrolled		1,922,047	0.0449	0.0000	0.0218	0.0667
PNL0300	Demand (101 to 300kVA)	Consumption Controlled		0	0.0292	0.0000	0.0141	0.0433
PNL0300	Demand (101 to 300kVA)	Consumption Night		0	0.0143	0.0028	0.0074	0.0245
PTL0300	TOU - Demand (201-300kVA)	Fixed Daily Charge	1		16.9025	0.2930	7.8301	25.0256
PTL0300	TOU - Demand (201-300kVA)	Capacity Charge						
PTL0300	TOU - Demand (201-300kVA)	Demand Charge						
PTL0300	TOU - Demand (201-300kVA)	Consumption Evening Peak		1,033	0.0391	0.0000	0.0176	0.0567
PTL0300	TOU - Demand (201-300kVA)	Consumption Morning Peak		58,276	0.0366	0.0000	0.0166	0.0532
PTL0300	TOU - Demand (201-300kVA)	Consumption Off Peak		60,998	0.0287	0.0000	0.0132	0.0419
PTL0300	TOU - Demand (201-300kVA)	Consumption Night		1,940	0.0147	0.0000	0.0074	0.0221
PNL0500	TOU - Demand (301-500kVA)	Fixed Daily Charge	4		19.0538	0.3303	8.8266	28.2107
PNL0500	TOU - Demand (301-500kVA)	Capacity Charge						
PNL0500	TOU - Demand (301-500kVA)	Demand Charge						
PNL0500	TOU - Demand (301-500kVA)	Consumption Evening Peak		95,360	0.0391	0.0000	0.0176	0.0567
PNL0500	TOU - Demand (301-500kVA)	Consumption Morning Peak		141,239	0.0366	0.0000	0.0166	0.0532
PNL0500	TOU - Demand (301-500kVA)	Consumption Off Peak		188,882	0.0287	0.0000	0.0132	0.0419
PNL0500	TOU - Demand (301-500kVA)	Consumption Night		141,891	0.0147	0.0000	0.0074	0.0221
PNL1000	TOU - Demand (501-1000kVA)	Fixed Daily Charge	1		29.5025	0.5114	13.6671	43.6810
PNL1000	TOU - Demand (501-1000kVA)	Capacity Charge						
PNL1000	TOU - Demand (501-1000kVA)	Demand Charge						
PNL1000	TOU - Demand (501-1000kVA)	Consumption Evening Peak		204,217	0.0391	0.0000	0.0176	0.0567
PNL1000	TOU - Demand (501-1000kVA)	Consumption Morning Peak		329,111	0.0366	0.0000	0.0166	0.0532
PNL1000	TOU - Demand (501-1000kVA)	Consumption Off Peak		420,199	0.0287	0.0000	0.0132	0.0419
PNL1000	TOU - Demand (501-1000kVA)	Consumption Night		326,784	0.0147	0.0000	0.0074	0.0221

Price Category	Consumer Group	Charge Type	2018/19					
			Actual	Actual Kwh	Distribution	Pass Through	Transmission	Total Charge
PNL4500	TOU - Demand (1001-4500kVA)	Fixed Daily Charge	1		73.7562	1.2785	34.1677	109.2024
PNL4500	TOU - Demand (1001-4500kVA)	Capacity Charge						
PNL4500	TOU - Demand (1001-4500kVA)	Demand Charge						
PNL4500	TOU - Demand (1001-4500kVA)	Consumption Evening Peak		2,253,111	0.0391	0.0000	0.0176	0.0567
PNL4500	TOU - Demand (1001-4500kVA)	Consumption Morning Peak		3,325,854	0.0366	0.0000	0.0166	0.0532
PNL4500	TOU - Demand (1001-4500kVA)	Consumption Off Peak		4,352,796	0.0287	0.0000	0.0132	0.0419
PNL4500	TOU - Demand (1001-4500kVA)	Consumption Night		3,718,845	0.0147	0.0000	0.0074	0.0221
PNL6500	TOU - Demand (4501-6500kVA)	Fixed Daily Charge	0		112.2476	0.0000	44.1993	156.4469
PNL6500	TOU - Demand (4501-6500kVA)	Capacity Charge						
PNL6500	TOU - Demand (4501-6500kVA)	Demand Charge						
PNL6500	TOU - Demand (4501-6500kVA)	Consumption Evening Peak		0	0.0391	0.0000	0.0176	0.0567
PNL6500	TOU - Demand (4501-6500kVA)	Consumption Morning Peak		0	0.0367	0.0000	0.0166	0.0533
PNL6500	TOU - Demand (4501-6500kVA)	Consumption Off Peak		0	0.0287	0.0000	0.0132	0.0419
PNL6500	TOU - Demand (4501-6500kVA)	Consumption Night		0	0.0147	0.0000	0.0074	0.0221
<b>Total Non-Domestic Low Density</b>			<b>3,780</b>	<b>40,858,856</b>				
PNG0500	Assessed Capacity (301 to 500kVA)		0		19.0546	0.0000	-	19.0546
PNG1000	Assessed Capacity (501 to 1000kVA)		6		29.5025	0.5114	-	30.0139
PNG4500	Assessed Capacity (1001 to 4500kVA)		1		73.7596	0.0000	-	73.7596
PNG6500	Assessed Capacity (4501 to 6500kVA)		1		112.2527	0.0000	-	112.2527
<b>Total Generation</b>			<b>8</b>					
<b>NETWORK TOTAL</b>			<b>25,597</b>	<b>281,203,833</b>				

## 14 Quality Path Supporting Calculations

### 14.1 Schedule 4A and 5B quality threshold values

As required by clause 11.5(d) of the Determination, the quality threshold values from Schedules 4A, 5B.1, and 5B.2, of the Electricity Distribution Services Default Price-Quality Path Determination 2015 have been summarised below:

Reliability Measure	SAIDI	SAIFI
Limit	274.075	3.529
Cap	274.075	3.529
Target	242.149	3.086
Collar	210.224	2.642
Unplanned Boundary Value	13.065	0.183

### 14.2 Re-calculations following Transpower asset acquisition

In accordance with clause 11.5(d) of the Determination, the SAIDI and SAIFI Limits, Unplanned Boundary Values, Targets, Caps, and Collars, have been re-calculated following the acquisition of transmission assets from Transpower, which became System Fixed Assets.

The methodology for these re-calculations are contained in the applicable paragraphs quoted below from Schedule 4B of the Determination.

Reliability Measure	SAIDI	SAIFI
Limit	285.78	3.77
Cap	285.78	3.77
Target	252.48	3.28
Collar	219.12	2.78
Unplanned Boundary Value	13.3902	0.2080

## Unplanned Boundary Value re-calculations

The re-calculated SAIDI Unplanned Boundary Value was determined in accordance with paragraph 2(a) of the Determination and is as follows:

$$\beta_{SAIDI} = 23^{\text{rd}} \text{ highest SAIDI value in reference dataset (01/04/2004 - 31/3/2014)}$$

$$\beta_{SAIDI} = 13.3902$$

The re-calculated SAIFI Unplanned Boundary Value was determined in accordance with paragraph 2(b) of the Determination and is as follows:

$$\beta_{SAIFI} = 23^{\text{rd}} \text{ highest SAIFI value in reference dataset (01/04/2004 - 31/3/2014)}$$

$$\beta_{SAIFI} = 0.2080$$

## Target

The re-calculated SAIDI Target was determined in accordance with paragraph 3 of the Determination and is as follows:

$$SAIDI_{Target} = \frac{(P_{SAIDI} \times 0.5) + U_{SAIDI}}{10}$$

where:

$$P_{SAIDI} = \text{Planned sum of SAIDI in 10 year dataset (01/04/2004 - 31/3/2014)}$$

$$P_{SAIDI} = 639.5284$$

$$U_{SAIDI} = \text{Unplanned sum of SAIDI in 10 year dataset (01/04/2004 - 31/3/2014)}$$

$$U_{SAIDI} = 2,204.7285$$

$$SAIDI_{Target} = 252.48$$

The re-calculated SAIFI Target was determined in accordance with paragraph 4 of the Determination and is as follows:

$$SAIFI_{Target} = \frac{(P_{SAIFI} \times 0.5) + U_{SAIFI}}{10}$$

where:

$P_{SAIFI}$	=	Planned sum of SAIFI in 10 year dataset (01/04/2004 – 31/3/2014)
$P_{SAIFI}$	=	3.6736
$U_{SAIFI}$	=	Unplanned sum of SAIFI in 10 year dataset (01/04/2004 – 31/3/2014)
$U_{SAIFI}$	=	30.9294
<b><math>SAIFI_{Target}</math></b>	=	<b>3.28</b>

## Reliability Limit and Cap

The re-calculated SAIDI reliability Limit was determined in accordance with paragraph 5(a) of the Determination and is as follows:

$$SAIDI_{Limit} = SAIDI_{Target} + (SAIDI_{Dev} \times \sqrt{365})$$

where:

$SAIDI_{Target}$	=	Is the SAIDI Target re-calculated in accordance with paragraph 3
$SAIDI_{Target}$	=	252.48
$SAIDI_{Dev}$	=	Standard deviation of daily SAIDI values in 10 year dataset (01/04/2004 – 31/3/2014)
$SAIDI_{Dev}$	=	1.7446
<b><math>SAIDI_{Limit}</math></b>	=	<b>285.78</b>

The re-calculated SAIFI reliability Limit was determined in accordance with paragraph 5(b) of the Determination and is as follows:

$$SAIFI_{Limit} = SAIFI_{Target} + (SAIFI_{Dev} \times \sqrt{365})$$

where:

$SAIFI_{Target}$	=	Is the SAIFI Target re-calculated in accordance with paragraph 4
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$SAIFI_{Target}$	=	3.28
$SAIFI_{Dev}$	=	Standard deviation of daily SAIFI values in 10 year dataset (01/04/2004 – 31/3/2014)
$SAIFI_{Dev}$	=	0.0256
<b><math>SAIFI_{Limit}</math></b>	=	<b>3.77</b>

The SAIDI and SAIFI Caps are equal to the respective SAIDI and SAIFI reliability Limits calculated above.

## Collar

The re-calculated SAIDI Collar was determined in accordance with paragraph 5(e) of the Determination and is as follows:

$$SAIDI_{Collar} = SAIDI_{Target} - (SAIDI_{Dev} \times \sqrt{365})$$

where:

$SAIDI_{Target}$	=	Is the SAIDI Target re-calculated in accordance with paragraph 3
$SAIDI_{Target}$	=	252.48
$SAIDI_{Dev}$	=	Standard deviation of daily SAIDI values in 10 year dataset (01/04/2004 – 31/3/2014)
$SAIDI_{Dev}$	=	1.7446
<b><math>SAIDI_{Collar}</math></b>	=	<b>219.12</b>

The re-calculated SAIFI Collar was determined in accordance with paragraph 5(f) of the Determination and is as follows:

$$SAIFI_{Collar} = SAIFI_{Target} - (SAIFI_{Dev} \times \sqrt{365})$$

where:

$SAIFI_{Target}$	=	Is the SAIFI Target re-calculated in accordance with paragraph 4
------------------	---	--

$$SAIFI_{Target} = 3.28$$

$$SAIFI_{Dev} = \text{Standard deviation of daily SAIFI values in 10 year dataset (01/04/2004 - 31/3/2014)}$$

$$SAIFI_{Dev} = 0.0256$$

$$SAIFI_{Collar} = 2.78$$

## Historic transmission asset acquisition data supporting re-calculation

Transmission Asset Outage Data 2004/05 to 2013/14								
Start Date	Name of Asset	Planned/ Unplanned	Customers Interrupted	Customer Minutes	SAIDI	SAIFI	Cause	
16/10/2005	Tuai GXP	Planned	383	137,428	5.53	0.02	Defective Equipment	
5/11/2006	Tuai GXP	Planned	327	107,583	4.32	0.01		
25/11/2007	Tuai CB23 & CB24	Planned	366	137,250	5.47	0.01		
23/11/2008	Tuai GXP	Planned	378	90,720	3.59	0.01		
29/11/2009	Tuai GXP	Planned	365	131,400	5.18	0.01		
27/11/2010	Tuai GXP	Planned	365	181,770	7.12	0.01		
5/12/2010	Tuai GXP	Planned	366	157,380	6.18	0.01		
24/02/2013	Tuai T15	Planned	361	164,616	6.44	0.01		
2/02/2014	Tuai GXP	Planned	362	192,584	7.57	0.01		
14/10/2004	Tuai CB24	Unplanned	180	23,580	0.95	0.01		Unknown
29/11/2004	Tuai CB24	Unplanned	199	14,925	0.60	0.01		Unknown
20/02/2006	Tuai CB24	Unplanned	199	13,731	0.55	0.01		Unknown
31/10/2007	Tuai T15	Unplanned	366	129,930	5.18	0.01		Wildlife
31/01/2008	CB23 & CB24	Unplanned	366	2,562	0.10	0.01		Defective Equipment
14/10/2009	T1 & T2	Unplanned	4,477	35,816	1.41	0.18	Unknown	
29/11/2009	Tuai CB23	Unplanned	189	25,281	1.00	0.01	Defective Equipment	
1/02/2010	Tuai CB24	Unplanned	176	2,464	0.10	0.01	Unknown	
13/02/2010	Tuai CB24	Unplanned	176	2,560	0.10	0.01	Unknown	
1/03/2010	Gis CB152	Unplanned	5,434	67,828	2.67	0.21	Unknown	
17/05/2010	T15	Unplanned	365	8,571	0.34	0.01	Defective Equipment	
3/12/2010	T15	Unplanned	366	7,476	0.29	0.01	Unknown	
3/05/2011	T15	Unplanned	365	12,045	0.47	0.01	Human Error	
26/01/2012	GIS T4	Unplanned	20,657	330,042	12.92	0.81	Unknown	
4/04/2013	Gis GXP	Unplanned	20,728	470,304	18.48	0.81	Human Error	
17/04/2013	Gis GXP	Unplanned	20,726	556,719	21.87	0.81	Human Error	
3/01/2014	Tuai CB24	Unplanned	170	4,080	0.16	0.01	Unknown	
5/01/2014	Tuai CB24	Unplanned	170	16,150	0.63	0.01	Defective Equipment	
19/01/2014	Tuai CB24	Unplanned	170	92,820	3.65	0.01	Defective Equipment	
31/03/2014	Gis Tuai 110kV Line	Unplanned	20,726	1,036,290	40.72	0.81	Defective Equipment	
<b>SUM</b>			<b>99,478</b>	<b>4,153,905</b>	<b>163.6</b>	<b>3.91</b>		

## 15 Auditor's Report



### INDEPENDENT ASSURANCE REPORT TO THE DIRECTORS OF EASTLAND NETWORK LIMITED AND THE COMMERCE COMMISSION

The Auditor-General is the auditor of Eastland Network Limited (the company). The Auditor-General has appointed me, Brett Tomkins, using the staff and resources of Deloitte Limited, to provide an opinion, on his behalf, on whether the Annual Compliance Statement for the year ended on 31 March 2020 on pages 2, and 4 to 30 has been prepared, in all material respects, with the Electricity Distribution Services Default Price-Quality Path Determination 2015 as amended by the Electricity Distribution Services Default Price-Quality Path (Compliance Statement Due Date and Auditor's Report) Amendments Determination 2020, issued by the Commerce Commission NZ on 9 April 2020 (the 'Determination as amended').

#### Opinion

In our opinion:

- as far as appears from an examination, the information used in the preparation of the Annual Compliance Statement has been properly extracted from the company's accounting and other records, and has been sourced, where appropriate, from its financial and non-financial systems; and
- The Annual Compliance Statement of the company for the year ended on 31 March 2020, has been prepared, in all material respects, in accordance with the Determination as amended.

In forming our opinion, we have obtained sufficient recorded evidence and all the information and explanations we have required.

#### Basis of opinion

We conducted our engagement in accordance with the International Standard on Assurance Engagements (New Zealand) 3000 (Revised): *Assurance Engagements Other Than Audits or Reviews of Historical Financial Information* and the Standard on Assurance Engagements 3100: *Compliance Engagements* issued by the External Reporting Board. Copies of these standards are available on the External Reporting Board's website.

These standards require that we comply with ethical requirements and plan and perform our assurance engagement to provide reasonable assurance about whether the Annual Compliance Statement has been prepared in all material respects in accordance with the Determination as amended.

We have performed procedures to obtain evidence about the amounts and disclosures in the Annual Compliance Statement. The procedures selected depend on our judgement, including the assessment of the risks of material misstatement of the Annual Compliance Statement, whether due to fraud or error or non-compliance with the Determination as amended. In making those risk assessments, we considered internal control relevant to the company's preparation of the Annual Compliance Statement in order to design procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the company's internal control.

In assessing the disclosures about compliance with the price path in clause 8 of the Determination as amended for the assessment period ended on 31 March 2020, our assurance engagement included examination, on a test basis, of evidence relevant to the amounts and disclosures contained on pages 2 and 4 to 30 of the Annual Compliance Statement.

In assessing the disclosures about compliance with the quality standards in clause 9 of the Determination as amended for the assessment period ended on 31 March 2020, our assurance engagement included examination, on a test basis, of evidence relevant to the amounts and disclosures contained on pages 2 and 4 to 30 of the Annual Compliance Statement.

Our assurance engagement also included assessment of the significant estimates and judgements, if any, made by the company in the preparation of the Annual Compliance Statement.

We believe that the evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.



#### Scope and inherent limitations

Because of the inherent limitations of a reasonable assurance engagement, and the test basis of the procedures performed, it is possible that fraud, error or non-compliance may occur and not be detected.

We did not examine every transaction, adjustment or event underlying the Annual 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 Annual Compliance Statement.

The opinion expressed in this independent assurance report has been formed on the above basis.

#### Directors' responsibilities for the Annual Compliance Statement

The directors of the company are responsible for the preparation of the Annual Compliance Statement in accordance with the Determination as amended, and for such internal control as the directors determine is necessary to enable the preparation of an Annual Compliance Statement that is free from material misstatement.

#### Our responsibility for the Annual Compliance Statement

Our responsibility is to express an opinion on whether the Annual Compliance Statement has been prepared, in all material respects, in accordance with the Determination as amended.

#### Independence and quality control

When carrying out the engagement, we complied with the Auditor-General's:

- Independence and other ethical requirements, which incorporate the independence and ethical requirements of Professional and Ethical Standard 1 (Revised) issued by the New Zealand Auditing and Assurance Standards Board; and
- Quality control requirements, which incorporate the quality control requirements of Professional and Ethical Standard 3 (Amended) issued by the New Zealand Auditing and Assurance Standards Board.

We also complied with the independent auditor requirements specified in the Determination as amended.

The Auditor-General, and his employees, and Deloitte Limited and its partners and employees may deal with the company on normal terms within the ordinary course of trading activities of the company. Other than any dealings on normal terms within the ordinary course of business, this engagement, the regulatory assurance engagement performed under the Electricity Distribution Information Disclosure Determination 2012 and the annual audit of the company's financial statements, we have no relationship with or interests in the company and its subsidiaries.

#### Use of this report

This independent assurance report has been prepared solely for the directors of the company and for the Commerce Commission for the purpose of providing those parties with reasonable assurance about whether the Annual Compliance Statement has been prepared, in all material respects, in accordance with the Determination as amended. We disclaim any assumption of responsibility for any reliance on this report to any person other than the directors of the company or the Commerce Commission, or for any other purpose than that for which it was prepared.



Brett Tomkins  
For Deloitte Limited  
On behalf of the Auditor-General  
Auckland, New Zealand  
15 July 2020