



Eastland
Network

Annual Compliance Statement

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

**For the assessment period:
1 April 2016 to 31 March 2017**



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1 Summary of Compliance

For the assessment period 1 April 2016 – 31 March 2017, Eastland Network Limited complied with the Price path and the SAIFI quality standards. However the SAIDI quality standards were non-compliant for the year.

Test	Result	Result
Price path threshold	$\frac{NR_{2017}}{R_{2017}} \leq 1$	Compliant
Quality threshold - SAIDI	$\frac{SAIDI_{ASSESS,2017}}{SAIDI_{LIMIT}} > 1$	Non-Compliant
Quality threshold - SAIFI	$\frac{SAIFI_{ASSESS,2017}}{SAIFI_{LIMIT}} \leq 1$	Compliant

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2 Director's Certificate

We, Tony Gray and Nelson Cull, 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 Default Price-Quality Path Determination 2015 are true and accurate.


Director

24 May 2017
Date


Director

24 May 2017.
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 is submitted by Eastland Network Ltd (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 2016 to 31 March 2017.

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.

4.1 Compliance with the price path

Eastland is compliant with the 2017 price path if at any time during the Assessment Period its notional revenue (NR_{2017}) did not exceed the allowable notional revenue (ANR_{2017});

$$\frac{NR_{2017}}{ANR_{2017}} \leq 1$$

Where -

NR_{2017} - Notional revenue from 1 April 2016 to 31 March 2017

ANR_{2017} - Allowable notional revenue from 1 April 2016 to 31 March 2017



Eastland Network Ltd's 2017 price path was 0.994 and is therefore compliant with clause 8.3 of the Default Price-Quality Path Determination 2015.

$$\frac{23,761}{23,912} = 0.994 \leq 1$$

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^{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^{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 2017 is \$339 under-recovered. This amount is able to be added to next year's recoverable costs and included in distribution line charges for 2017/18.

The Pass-through Balance for Eastland for the first assessment period ending 31 March 2017 is (\$000's):

$\sum PTP_{i,2017} Q_{i,2017}$	11,093
Less K_t	381
Less V_t	10,298
2017 Pass-through difference	413



Pass Through Balance ₂₀₁₆	(709)
Multiply by (1+6.09%)	1.0609
Plus	<u>(753)</u>
Pass-through Balance	<u>(339)</u>

The Pass-through Balance for Eastland for the prior assessment period ending 31 March 2016 was (\$000's):

$\sum_i PTP_{i,2016} Q_{i,2016}$	9,670
Less K_t	350
Less V_t	<u>10,028</u>
Pass-through Balance	<u>(709)</u>

Pass-through prices are calculated to recover as much as possible of pass-through and recoverable costs.

Pass-through costs are costs such as Rates on Network Assets and Industry levies from regulatory bodies such as the Commerce Commission, Electricity Authority and Utilities Complaints Commission. The total recoverable costs relate largely to Transpower charges and distributed generation allowances but also includes the capex wash-up allowance amount applicable for the 2016/17 pricing year.

Distribution and pass-through prices are determined by allocating the costs of 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 (kWhs), Installed capacity (KVA), and contribution to Regional Coincident Peak Demand.

Further details regarding the methodology used to calculate prices are available in our pricing methodology.

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

- the 2017 Assessment Period; or
- the two immediately preceding extant Assessment Periods.



SAIDI compliance

Eastland does not exceed its reliability limit if

$$\frac{SAIDI_{ASSESS,2017}}{SAIDI_{LIMIT}} \leq 1$$

The SAIDI Reliability Limit for the 2016/17 Assessment Period is:

$$SAIDI_{LIMIT} = 285.78$$

In the 2016/17 Assessment Period, Eastland's SAIDI was 309.99 and therefore does not fall within Quality Thresholds. As a result, Eastland does not comply with clause 9.1(a) of the Determination.

$$SAIDI_{2017} \text{ Reliability Assessment} = \frac{309.99}{285.78} = 1.08 > 1$$

The SAIDI Reliability Assessment for the two preceding periods were:

$$SAIDI_{2016} \text{ Reliability Assessment} = \frac{208.16}{285.78} = 0.73 < 1$$

$$SAIDI_{2015} \text{ Reliability Assessment} = \frac{255.80}{302.38} = 0.85 < 1$$

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

SAIFI compliance

The SAIFI quality threshold performance is as follows:

$$\frac{SAIFI_{ASSESS,2017}}{SAIFI_{LIMIT}} \leq 1$$

The SAIFI Reliability Limit for the 2016/17 Assessment Period is:

$$SAIFI_{LIMIT} = 3.77$$



In the 2016/17 Assessment Period, Eastland's SAIFI was 3.32 and therefore fell within Quality Thresholds.
As a result Eastland complies with clause 9.1(a) of the Determination.

$$\text{SAIFI}_{2017} \text{ Reliability Assessment} = \frac{3.32}{3.77} = 0.88 < 1$$

The SAIFI Reliability Assessment for the two preceding periods were:

$$\text{SAIFI}_{2016} \text{ Reliability Assessment} = \frac{2.88}{3.77} = 0.76 < 1$$

$$\text{SAIFI}_{2015} \text{ Reliability Assessment} = \frac{3.98}{4.26} = 0.93 < 1$$

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 six monthly.
- 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:** GM Networks

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

There were three Major event days during the year in which the boundaries were applied.

16/04/2016 - A car vs pole on the main line of an urban feeder left 7900 customers without power for approximately 3 hours while the pole was repaired.

The summed number of ICP's whose supply was interrupted on this day resulted in the assessed SAIFI exceeding the SAIFI unplanned value boundary.

06/08/2016 - A severe storm began on the 06/08/2016 causing damage to the distribution network. There were three separate outages that started on the 6/06/2016 all relating to storm weather. The power was restored to 22,527 customers on the 06/08/2016. The other two outages were in remote areas resulting in a longer repair period. The power was restored to the remote areas on 09/08/2016.

The summed minutes of all the interruptions beginning the 06/08/2016 resulted in an assessed SAIDI value in excess of the SAIDI unplanned boundary value.

12/12/2016 - On 12th December 2016, a light fixed wing plane crashed into the double circuit 110 kV lines between Tuai and Gisborne. This tragedy caused serious damage to two of the three conductors on each circuit and initially cut power supply to approximately 20,000 customers in the Gisborne/East Coast region for 33.8 hours. The summed minutes of all interruptions on this day resulted in an assessed SAIDI value in excess of the Unplanned Boundary Value. The summed number of ICPs whose supply was interrupted on this day also resulted in an assessed SAIFI which exceeded the SAIFI Unplanned Boundary Value.

A further outage to all Gisborne customers for 3.8 hours was required on 18th December to complete the repairs. The timing of this planned outage was to minimise disruption and to allow customers time to make alternative arrangements during the loss of power. For the planned outage of 18th December, half SAIDI & SAIFI values have been applied.



7 Restructuring of Prices

Eastland did not restructure any prices during the Assessment Period.

8 Transfer of Transmission Assets with Transpower

Eastland did not receive a transfer of transmission assets from Transpower, nor did it transfer system fixed assets to Transpower.

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 ($NR_{2016/17}$) for the period from 1 April 2016 to 31 March 2017 is calculated in accordance with the following formula:

$$NR_{2016/17} = \sum DP_{i,2016/17} Q_{i,2014/15}$$

Definitions:

$NR_{2016/17}$ = The Notional Revenue for the period of 1 April 2016 to 31 March 2017.

$DP_{i,2016/17}$ = The Eastland distribution prices that applied during the Assessment Period 1 April 2016 to 31 March 2017.

$Q_{i,2014/15}$ = The Eastland quantities that applied for the pricing period 1 April 2014 to 31 March 2015.

Notional Revenue ($NR_{2016/17}$) (\$000's)	$\sum DP_{i,2016/17} Q_{i,2014/15}$	23,761
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11.2 Allowable notional revenue for the assessment period

The allowable notional revenue ($ANR_{2016/17}$) for the period from 1 April 2016 to 31 March 2017 is calculated in accordance with the following formula:

$$ANR_{2016/17} = (\sum DP_{i,2015/16} Q_{i,2014/15} + (ANR_{2015/16} - NR_{2015/16}))(1 + \Delta CPI_{2016/17})(1 - X)$$

Definitions:

- $ANR_{2016/17}$ = The Allowable Notional Revenue for the period of 1 April 2016 to 31 March 2017.
- $DP_{i,2015/16}$ = the i^{th} distribution price that applied during the assessment period from 1 April 2015 to 31 March 2016.
- $Q_{i,2014/15}$ = Quantities for the assessment period from 1 April 2014 to 31 March 2015 corresponding to the i^{th} distribution price.
- $ANR_{2015/16}$ = is the allowable notional revenue for the assessment period from 1 April 2015 to 31 March 2016.
- $NR_{2015/16}$ = is the notional revenue for the assessment period from 1 April 2015 to 31 March 2016.
- ΔCPI = is the derived change in CPI to be applied for the Assessment Period ending in the year 2016/17, being equal to:
- $$\frac{CPI_{Dec,2014} + CPI_{Mar,2015} + CPI_{Jun,2015} + CPI_{Sep,2015}}{CPI_{Dec,2013} + CPI_{Mar,2014} + CPI_{Jun,2014} + CPI_{Sep,2014}} - 1$$
- X = is the annual rate of change applicable to Eastland Network Limited and as stated in Schedule 2 as -3%.

The calculation follows (\$'000's):

	$\sum DP_{i,2015/16} Q_{i,2014/15}$	23,097
<i>Plus</i>	$ANR_{2015/16}$	22,853
<i>Minus</i>	$NR_{2015/16}$	-22,841
		<u>23,109</u>
Multiply by	$1 + \Delta CPI_{2016/17}$	1.005
Multiply by	$1 - X$	1.030
	Allowable Notional Revenue ($ANR_{2016/17}$)	<u>23,912</u>



12 Quantities for period from 1 April 2014 to 31 March 2015

Price Category	Consumer Group	Charge Type	2014/15	
			Actual ICPs	Actual KWh
Domestic				
PDH0030	Domestic	Fixed Daily Charge	13,588	
PDH0030	Domestic	Consumption Uncontrolled		58,893,857
PDH0030	Domestic	Consumption Controlled		24,698,930
PDH0030	Domestic	Consumption Night		26,464
PDL0030	Domestic	Fixed Daily Charge	5,701	
PDL0030	Domestic	Consumption Uncontrolled		26,084,235
PDL0030	Domestic	Consumption Controlled		9,417,544
PDL0030	Domestic	Consumption Night		50,159



Price Category	Consumer Group	Charge Type	2014/15	
			Actual ICPs	Actual KWh
Non-Domestic - High Density				
PNH0003	Low Capacity (0 to 3kVA)	Fixed Daily Charge	133	
PNH0003	Low Capacity (0 to 3kVA)	Capacity Charge		
PNH0003	Low Capacity (0 to 3kVA)	Demand Charge		
PNH0003	Low Capacity (0 to 3kVA)	Consumption Uncontrolled		681,548
PNH0003	Low Capacity (0 to 3kVA)	Consumption Controlled		247
PNH0003	Low Capacity (0 to 3kVA)	Consumption Night		0
PNH0030	Demand (0 to 30kVA)	Fixed Daily Charge	1,736	
PNH0030	Demand (0 to 30kVA)	Capacity Charge		
PNH0030	Demand (0 to 30kVA)	Demand Charge		
PNH0030	Demand (0 to 30kVA)	Consumption Uncontrolled		21,461,954
PNH0030	Demand (0 to 30kVA)	Consumption Controlled		1,077,371
PNH0030	Demand (0 to 30kVA)	Consumption Night		48,192
PNH0100	Demand (31 to 100kVA)	Fixed Daily Charge	267	
PNH0100	Demand (31 to 100kVA)	Capacity Charge		
PNH0100	Demand (31 to 100kVA)	Demand Charge		
PNH0100	Demand (31 to 100kVA)	Consumption Uncontrolled		20,418,086
PNH0100	Demand (31 to 100kVA)	Consumption Controlled		386,431
PNH0100	Demand (31 to 100kVA)	Consumption Night		109,425
PNH0300	Demand (101 to 300kVA)	Fixed Daily Charge	64	
PNH0300	Demand (101 to 300kVA)	Capacity Charge		
PNH0300	Demand (101 to 300kVA)	Demand Charge		
PNH0300	Demand (101 to 300kVA)	Consumption Uncontrolled		13,482,450
PNH0300	Demand (101 to 300kVA)	Consumption Controlled		12,683
PNH0300	Demand (101 to 300kVA)	Consumption Night		0
PTH0300	TOU - Demand (201-300kVA)	Fixed Daily Charge	6	
PTH0300	TOU - Demand (201-300kVA)	Capacity Charge		
PTH0300	TOU - Demand (201-300kVA)	Demand Charge		
PTH0300	TOU - Demand (201-300kVA)	Consumption Evening Peak		362,600
PTH0300	TOU - Demand (201-300kVA)	Consumption Morning Peak		521,594
PTH0300	TOU - Demand (201-300kVA)	Consumption Off Peak		664,946
PTH0300	TOU - Demand (201-300kVA)	Consumption Night		501,658
PNH0500	TOU - Demand (301-500kVA)	Fixed Daily Charge	14	
PNH0500	TOU - Demand (301-500kVA)	Capacity Charge		
PNH0500	TOU - Demand (301-500kVA)	Demand Charge		
PNH0500	TOU - Demand (301-500kVA)	Consumption Evening Peak		1,202,878
PNH0500	TOU - Demand (301-500kVA)	Consumption Morning Peak		2,031,190
PNH0500	TOU - Demand (301-500kVA)	Consumption Off Peak		2,549,872
PNH0500	TOU - Demand (301-500kVA)	Consumption Night		1,986,012
PNH1000	TOU - Demand (501-1000kVA)	Fixed Daily Charge	20	
PNH1000	TOU - Demand (501-1000kVA)	Capacity Charge		
PNH1000	TOU - Demand (501-1000kVA)	Demand Charge		
PNH1000	TOU - Demand (501-1000kVA)	Consumption Evening Peak		4,241,648
PNH1000	TOU - Demand (501-1000kVA)	Consumption Morning Peak		5,943,634
PNH1000	TOU - Demand (501-1000kVA)	Consumption Off Peak		7,988,154
PNH1000	TOU - Demand (501-1000kVA)	Consumption Night		7,030,543
PNH4500	TOU - Demand (1001-4500kVA)	Fixed Daily Charge	1	
PNH4500	TOU - Demand (1001-4500kVA)	Capacity Charge		
PNH4500	TOU - Demand (1001-4500kVA)	Demand Charge		
PNH4500	TOU - Demand (1001-4500kVA)	Consumption Evening Peak		1,241,570
PNH4500	TOU - Demand (1001-4500kVA)	Consumption Morning Peak		1,674,196
PNH4500	TOU - Demand (1001-4500kVA)	Consumption Off Peak		2,371,656
PNH4500	TOU - Demand (1001-4500kVA)	Consumption Night		2,425,236



			2014/15	
Price Category	Consumer Group	Charge Type	Actual ICPs	Actual KWh
Non-Domestic - High Density				
PNH6500	TOU - Demand (4501-6500kVA)	Fixed Daily Charge	1	
PNH6500	TOU - Demand (4501-6500kVA)	Capacity Charge		
PNH6500	TOU - Demand (4501-6500kVA)	Demand Charge		
PNH6500	TOU - Demand (4501-6500kVA)	Consumption Evening Peak		3,314,107
PNH6500	TOU - Demand (4501-6500kVA)	Consumption Morning Peak		4,414,790
PNH6500	TOU - Demand (4501-6500kVA)	Consumption Off Peak		5,989,454
PNH6500	TOU - Demand (4501-6500kVA)	Consumption Night		6,031,213
Non-Domestic - Low Density				
PNL0003	Low Capacity (0 to 3kVA)	Fixed Daily Charge	116	
PNL0003	Low Capacity (0 to 3kVA)	Capacity Charge		
PNL0003	Low Capacity (0 to 3kVA)	Demand Charge		
PNL0003	Low Capacity (0 to 3kVA)	Consumption Uncontrolled		293,767
PNL0003	Low Capacity (0 to 3kVA)	Consumption Controlled		0
PNL0003	Low Capacity (0 to 3kVA)	Consumption Night		0
PNL0030	Demand (0 to 30kVA)	Fixed Daily Charge	3,626	
PNL0030	Demand (0 to 30kVA)	Capacity Charge		
PNL0030	Demand (0 to 30kVA)	Demand Charge		
PNL0030	Demand (0 to 30kVA)	Consumption Uncontrolled		16,668,608
PNL0030	Demand (0 to 30kVA)	Consumption Controlled		1,612,610
PNL0030	Demand (0 to 30kVA)	Consumption Night		39,232
PNL0100	Demand (31 to 100kVA)	Fixed Daily Charge	90	
PNL0100	Demand (31 to 100kVA)	Capacity Charge		
PNL0100	Demand (31 to 100kVA)	Demand Charge		
PNL0100	Demand (31 to 100kVA)	Consumption Uncontrolled		4,044,871
PNL0100	Demand (31 to 100kVA)	Consumption Controlled		148,359
PNL0100	Demand (31 to 100kVA)	Consumption Night		69,855
PNL0300	Demand (101 to 300kVA)	Fixed Daily Charge	15	
PNL0300	Demand (101 to 300kVA)	Capacity Charge		
PNL0300	Demand (101 to 300kVA)	Demand Charge		
PNL0300	Demand (101 to 300kVA)	Consumption Uncontrolled		1,656,962
PNL0300	Demand (101 to 300kVA)	Consumption Controlled		0
PNL0300	Demand (101 to 300kVA)	Consumption Night		0
PTL0300	TOU - Demand (201-300kVA)	Fixed Daily Charge	1	
PTL0300	TOU - Demand (201-300kVA)	Capacity Charge		
PTL0300	TOU - Demand (201-300kVA)	Demand Charge		
PTL0300	TOU - Demand (201-300kVA)	Consumption Evening Peak		918
PTL0300	TOU - Demand (201-300kVA)	Consumption Morning Peak		44,680
PTL0300	TOU - Demand (201-300kVA)	Consumption Off Peak		45,140
PTL0300	TOU - Demand (201-300kVA)	Consumption Night		1,930
PNL0500	TOU - Demand (301-500kVA)	Fixed Daily Charge	3	
PNL0500	TOU - Demand (301-500kVA)	Capacity Charge		
PNL0500	TOU - Demand (301-500kVA)	Demand Charge		
PNL0500	TOU - Demand (301-500kVA)	Consumption Evening Peak		226,575
PNL0500	TOU - Demand (301-500kVA)	Consumption Morning Peak		313,930
PNL0500	TOU - Demand (301-500kVA)	Consumption Off Peak		429,582
PNL0500	TOU - Demand (301-500kVA)	Consumption Night		321,008
PNL1000	TOU - Demand (501-1000kVA)	Fixed Daily Charge	1	
PNL1000	TOU - Demand (501-1000kVA)	Capacity Charge		
PNL1000	TOU - Demand (501-1000kVA)	Demand Charge		
PNL1000	TOU - Demand (501-1000kVA)	Consumption Evening Peak		164,086
PNL1000	TOU - Demand (501-1000kVA)	Consumption Morning Peak		247,177
PNL1000	TOU - Demand (501-1000kVA)	Consumption Off Peak		324,525
PNL1000	TOU - Demand (501-1000kVA)	Consumption Night		207,411



Price Category	Consumer Group	Charge Type	2014/15	
			Actual ICPs	Actual KWh
Non-Domestic - Low Density				
PNL4500	TOU - Demand (1001-4500kVA)	Fixed Daily Charge	1	
PNL4500	TOU - Demand (1001-4500kVA)	Capacity Charge		
PNL4500	TOU - Demand (1001-4500kVA)	Demand Charge		
PNL4500	TOU - Demand (1001-4500kVA)	Consumption Evening Peak		2,229,402
PNL4500	TOU - Demand (1001-4500kVA)	Consumption Morning Peak		3,374,020
PNL4500	TOU - Demand (1001-4500kVA)	Consumption Off Peak		4,348,888
PNL4500	TOU - Demand (1001-4500kVA)	Consumption Night		3,779,421
PNL6500				
PNL6500	TOU - Demand (4501-6500kVA)	Fixed Daily Charge	0	
PNL6500	TOU - Demand (4501-6500kVA)	Capacity Charge		
PNL6500	TOU - Demand (4501-6500kVA)	Demand Charge		
PNL6500	TOU - Demand (4501-6500kVA)	Consumption Evening Peak		
PNL6500	TOU - Demand (4501-6500kVA)	Consumption Morning Peak		
PNL6500	TOU - Demand (4501-6500kVA)	Consumption Off Peak		
PNL6500	TOU - Demand (4501-6500kVA)	Consumption Night		
PNG0500				
PNG0500	Assessed Capacity (301 to 500kVA)		0	
PNG1000	Assessed Capacity (501 to 1000kVA)		6	
PNG4500	Assessed Capacity (1001 to 4500kVA)		1	
PNG6500	Assessed Capacity (4501 to 6500kVA)		1	
			25,392	279,929,484

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	249	249	0
Commerce Act, EA & EGCC	168	131	37
Total	417	380	37

Variance explanation:

- **Territorial rates** - The difference between forecast and actual is less than a thousand dollars.
- **Commerce Act, EA & EGCC Levies** - The difference between forecast and actual is minor.



The forecasted and actual Recoverable costs:

Recoverable costs (000's)	Forecast	Actual	Difference
Transpower Connection & Interconnection Charges	5,965	5,965	0
Transpower New Investment Contract	115	108	7
Avoided Costs of Transmission for assets acquired from Transpower	3,746	3,746	0
Distributed Generation Allowance	653	645	8
Capex Wash-up Allowance	(167)	(167)	0
Total	10,312	10,297	15

Variance explanation:

- **Transpower Charges** - Forecast figures are the amounts notified by Transpower in their Transmission charge notice, consequently actual figures are the same as those budgeted. The Transpower New Investment Contract variance is minor.
- **Distributed Generation Allowance** - The differences between forecast and actual are minor.
- **Avoided Cost of Transmission for assets acquired from Transpower** - The forecast value of ACOT in relation to the acquisition of Transpower assets has been assumed to be the same as the prior year. This is due to the fact that it is very difficult to determine counterfactual charges that would have applied if the assets had not been transferred.



13 Pass-through Balance Supporting Statistics

13.1 Quantities for period from 1 April 2016 to 31 March 2017

Price Category	Consumer Group	Charge Type	2016/17		Distribution Charge	Transmission Charge	Pass-through & Recoverable	Total Charge
			ICPs	KWh				
Domestic								
PDH0030	Domestic	Fixed Daily Charge	13,717		0.1096	0.0375	0.0029	0.1500
PDH0030	Domestic	Consumption Uncontrolled		58,433,592	0.1115	0.0454	0.0009	0.1578
PDH0030	Domestic	Consumption Controlled		23,096,992	0.0579	0.0236	0.0005	0.0820
PDH0030	Domestic	Consumption Night		24,247	0.0145	0.0059	0.0001	0.0205
PDL0030	Domestic	Fixed Daily Charge	5,657		0.1096	0.0375	0.0029	0.1500
PDL0030	Domestic	Consumption Uncontrolled		26,415,626	0.1299	0.0535	0.0011	0.1845
PDL0030	Domestic	Consumption Controlled		8,840,517	0.0701	0.0289	0.0006	0.0996
PDL0030	Domestic	Consumption Night		41,824	0.0169	0.0069	0.0001	0.0239
Non-Domestic - High Density								
PNH0003	Low Capacity (0 to 3kVA)	Fixed Daily Charge	134		0.2821	0.1371	0.0024	0.4216
PNH0003	Low Capacity (0 to 3kVA)	Capacity Charge						
PNH0003	Low Capacity (0 to 3kVA)	Demand Charge						
PNH0003	Low Capacity (0 to 3kVA)	Consumption Uncontrolled		658,335	0.0904	0.0542	0.0008	0.1454
PNH0003	Low Capacity (0 to 3kVA)	Consumption Controlled		201	0.0587	0.0383	0.0005	0.0975
PNH0003	Low Capacity (0 to 3kVA)	Consumption Night		0	0.0113	0.0074	0.0001	0.0187
PNH0030	Demand (0 to 30kVA)	Fixed Daily Charge	1,672		1.5863	0.7102	0.0133	2.3098
PNH0030	Demand (0 to 30kVA)	Capacity Charge						
PNH0030	Demand (0 to 30kVA)	Demand Charge						
PNH0030	Demand (0 to 30kVA)	Consumption Uncontrolled		20,074,359	0.0650	0.0390	0.0005	0.1045
PNH0030	Demand (0 to 30kVA)	Consumption Controlled		1,002,568	0.0423	0.0253	0.0003	0.0679
PNH0030	Demand (0 to 30kVA)	Consumption Night		32,615	0.0113	0.0074	0.0001	0.0188
PNH0100	Demand (31 to 100kVA)	Fixed Daily Charge	283		4.4868	2.4026	0.0414	6.9308
PNH0100	Demand (31 to 100kVA)	Capacity Charge						
PNH0100	Demand (31 to 100kVA)	Demand Charge						
PNH0100	Demand (31 to 100kVA)	Consumption Uncontrolled		19,736,688	0.0444	0.0266	0.0004	0.0714
PNH0100	Demand (31 to 100kVA)	Consumption Controlled		347,900	0.0288	0.0172	0.0003	0.0463
PNH0100	Demand (31 to 100kVA)	Consumption Night		234,073	0.0113	0.0074	0.0001	0.0188
PNH0300	Demand (101 to 300kVA)	Fixed Daily Charge	68		9.3094	4.5305	0.0781	13.9180
PNH0300	Demand (101 to 300kVA)	Capacity Charge						
PNH0300	Demand (101 to 300kVA)	Demand Charge						
PNH0300	Demand (101 to 300kVA)	Consumption Uncontrolled		13,999,347	0.0362	0.0216	0.0003	0.0581
PNH0300	Demand (101 to 300kVA)	Consumption Controlled		12,107	0.0235	0.0140	0.0002	0.0377
PNH0300	Demand (101 to 300kVA)	Consumption Night		0	0.0113	0.0074	0.0001	0.0188
PTH0300	TOU - Demand (201-300kVA)	Fixed Daily Charge	6		15.5158	7.5507	0.1302	23.1967
PTH0300	TOU - Demand (201-300kVA)	Capacity Charge						
PTH0300	TOU - Demand (201-300kVA)	Demand Charge						
PTH0300	TOU - Demand (201-300kVA)	Consumption Evening Peak		470,167	0.0342	0.0193	0.0003	0.0538
PTH0300	TOU - Demand (201-300kVA)	Consumption Morning Peak		656,280	0.0320	0.0180	0.0003	0.0503
PTH0300	TOU - Demand (201-300kVA)	Consumption Off Peak		856,631	0.0252	0.0141	0.0002	0.0395
PTH0300	TOU - Demand (201-300kVA)	Consumption Night		620,792	0.0129	0.0074	0.0001	0.0204
PNH0500	TOU - Demand (301-500kVA)	Fixed Daily Charge	16		17.4906	8.5117	0.1468	26.1491
PNH0500	TOU - Demand (301-500kVA)	Capacity Charge						
PNH0500	TOU - Demand (301-500kVA)	Demand Charge						
PNH0500	TOU - Demand (301-500kVA)	Consumption Evening Peak		1,281,613	0.0342	0.0193	0.0003	0.0538
PNH0500	TOU - Demand (301-500kVA)	Consumption Morning Peak		2,141,246	0.0320	0.0180	0.0003	0.0503
PNH0500	TOU - Demand (301-500kVA)	Consumption Off Peak		2,686,826	0.0252	0.0141	0.0002	0.0395
PNH0500	TOU - Demand (301-500kVA)	Consumption Night		2,173,551	0.0129	0.0074	0.0001	0.0204
PNH1000	TOU - Demand (501-1000kVA)	Fixed Daily Charge	21		27.0820	13.1795	0.2273	40.4888
PNH1000	TOU - Demand (501-1000kVA)	Capacity Charge						
PNH1000	TOU - Demand (501-1000kVA)	Demand Charge						
PNH1000	TOU - Demand (501-1000kVA)	Consumption Evening Peak		4,050,672	0.0342	0.0193	0.0003	0.0538
PNH1000	TOU - Demand (501-1000kVA)	Consumption Morning Peak		5,668,961	0.0320	0.0180	0.0003	0.0503
PNH1000	TOU - Demand (501-1000kVA)	Consumption Off Peak		7,544,389	0.0252	0.0141	0.0002	0.0395
PNH1000	TOU - Demand (501-1000kVA)	Consumption Night		6,883,553	0.0129	0.0074	0.0001	0.0204
PNH4500	TOU - Demand (1001-4500kVA)	Fixed Daily Charge	1		67.7051	32.9486	0.5682	101.2219
PNH4500	TOU - Demand (1001-4500kVA)	Capacity Charge						
PNH4500	TOU - Demand (1001-4500kVA)	Demand Charge						
PNH4500	TOU - Demand (1001-4500kVA)	Consumption Evening Peak		1,403,499	0.0342	0.0193	0.0003	0.0538
PNH4500	TOU - Demand (1001-4500kVA)	Consumption Morning Peak		1,854,243	0.0320	0.0180	0.0003	0.0503
PNH4500	TOU - Demand (1001-4500kVA)	Consumption Off Peak		2,543,489	0.0252	0.0141	0.0002	0.0395
PNH4500	TOU - Demand (1001-4500kVA)	Consumption Night		2,414,357	0.0129	0.0074	0.0001	0.0204
PNH6500	TOU - Demand (4501-6500kVA)	Fixed Daily Charge	1		103.0385	50.1439	0.8647	154.0471
PNH6500	TOU - Demand (4501-6500kVA)	Capacity Charge						
PNH6500	TOU - Demand (4501-6500kVA)	Demand Charge						
PNH6500	TOU - Demand (4501-6500kVA)	Consumption Evening Peak		2,783,778	0.0342	0.0193	0.0003	0.0538
PNH6500	TOU - Demand (4501-6500kVA)	Consumption Morning Peak		4,366,791	0.0320	0.0180	0.0003	0.0503
PNH6500	TOU - Demand (4501-6500kVA)	Consumption Off Peak		5,431,561	0.0252	0.0141	0.0002	0.0395
PNH6500	TOU - Demand (4501-6500kVA)	Consumption Night		5,266,247	0.0129	0.0074	0.0001	0.0204



Price Category	Consumer Group	Charge Type	2016/17		Distribution Charge	Transmission Charge	Pass-through & Recoverable	Total Charge
			ICPs	KWh				
Non-Domestic - Low Density								
PNL0003	Low Capacity (0 to 3kVA)	Fixed Daily Charge	120		0.2821	0.1371	0.0024	0.4216
PNL0003	Low Capacity (0 to 3kVA)	Capacity Charge						
PNL0003	Low Capacity (0 to 3kVA)	Demand Charge						
PNL0003	Low Capacity (0 to 3kVA)	Consumption Uncontrolled		237,918	0.1045	0.0625	0.0009	0.1679
PNL0003	Low Capacity (0 to 3kVA)	Consumption Controlled		0	0.0679	0.0441	0.0145	0.1265
PNL0003	Low Capacity (0 to 3kVA)	Consumption Night		0	0.0131	0.0084	0.0028	0.0243
PNL0030	Demand (0 to 30kVA)	Fixed Daily Charge	3,577		1.5863	0.7102	0.0133	2.3098
PNL0030	Demand (0 to 30kVA)	Capacity Charge						
PNL0030	Demand (0 to 30kVA)	Demand Charge						
PNL0030	Demand (0 to 30kVA)	Consumption Uncontrolled		16,651,798	0.0679	0.0406	0.0006	0.1091
PNL0030	Demand (0 to 30kVA)	Consumption Controlled		1,490,964	0.0442	0.0264	0.0004	0.0710
PNL0030	Demand (0 to 30kVA)	Consumption Night		15,226	0.0131	0.0084	0.0001	0.0216
PNL0100	Demand (31 to 100kVA)	Fixed Daily Charge	100		4.4868	2.4026	0.0414	6.9308
PNL0100	Demand (31 to 100kVA)	Capacity Charge						
PNL0100	Demand (31 to 100kVA)	Demand Charge						
PNL0100	Demand (31 to 100kVA)	Consumption Uncontrolled		4,269,322	0.0517	0.0309	0.0004	0.0830
PNL0100	Demand (31 to 100kVA)	Consumption Controlled		136,977	0.0336	0.0200	0.0003	0.0539
PNL0100	Demand (31 to 100kVA)	Consumption Night		9,980	0.0131	0.0084	0.0001	0.0216
PNL0300	Demand (101 to 300kVA)	Fixed Daily Charge	19		9.3094	4.5305	0.0781	13.9180
PNL0300	Demand (101 to 300kVA)	Capacity Charge						
PNL0300	Demand (101 to 300kVA)	Demand Charge						
PNL0300	Demand (101 to 300kVA)	Consumption Uncontrolled		2,150,673	0.0413	0.0247	0.0003	0.0663
PNL0300	Demand (101 to 300kVA)	Consumption Controlled		0	0.0268	0.0160	0.0002	0.0430
PNL0300	Demand (101 to 300kVA)	Consumption Night		0	0.0131	0.0084	0.0028	0.0243
PTL0300	TOU - Demand (201-300kVA)	Fixed Daily Charge	1		15.5158	7.5507	0.1302	23.1967
PTL0300	TOU - Demand (201-300kVA)	Capacity Charge						
PTL0300	TOU - Demand (201-300kVA)	Demand Charge						
PTL0300	TOU - Demand (201-300kVA)	Consumption Evening Peak		746	0.0359	0.0200	0.0003	0.0562
PTL0300	TOU - Demand (201-300kVA)	Consumption Morning Peak		56,215	0.0336	0.0188	0.0003	0.0527
PTL0300	TOU - Demand (201-300kVA)	Consumption Off Peak		52,191	0.0263	0.0149	0.0002	0.0414
PTL0300	TOU - Demand (201-300kVA)	Consumption Night		1,786	0.0135	0.0084	0.0001	0.0220
PNL0500	TOU - Demand (301-500kVA)	Fixed Daily Charge	4		17.4906	8.5117	0.1468	26.1491
PNL0500	TOU - Demand (301-500kVA)	Capacity Charge						
PNL0500	TOU - Demand (301-500kVA)	Demand Charge						
PNL0500	TOU - Demand (301-500kVA)	Consumption Evening Peak		145,599	0.0359	0.0200	0.0003	0.0562
PNL0500	TOU - Demand (301-500kVA)	Consumption Morning Peak		207,357	0.0336	0.0188	0.0003	0.0527
PNL0500	TOU - Demand (301-500kVA)	Consumption Off Peak		274,535	0.0263	0.0149	0.0002	0.0414
PNL0500	TOU - Demand (301-500kVA)	Consumption Night		205,687	0.0135	0.0084	0.0001	0.0220
PNL1000	TOU - Demand (501-1000kVA)	Fixed Daily Charge	1		27.0820	13.1795	0.2273	40.4888
PNL1000	TOU - Demand (501-1000kVA)	Capacity Charge						
PNL1000	TOU - Demand (501-1000kVA)	Demand Charge						
PNL1000	TOU - Demand (501-1000kVA)	Consumption Evening Peak		187,196	0.0359	0.0200	0.0003	0.0562
PNL1000	TOU - Demand (501-1000kVA)	Consumption Morning Peak		273,033	0.0336	0.0188	0.0003	0.0527
PNL1000	TOU - Demand (501-1000kVA)	Consumption Off Peak		365,683	0.0263	0.0149	0.0002	0.0414
PNL1000	TOU - Demand (501-1000kVA)	Consumption Night		239,794	0.0135	0.0084	0.0001	0.0220
PNL4500	TOU - Demand (1001-4500kVA)	Fixed Daily Charge	1		67.7051	32.9486	0.5682	101.2219
PNL4500	TOU - Demand (1001-4500kVA)	Capacity Charge						
PNL4500	TOU - Demand (1001-4500kVA)	Demand Charge						
PNL4500	TOU - Demand (1001-4500kVA)	Consumption Evening Peak		2,119,113	0.0359	0.0200	0.0003	0.0562
PNL4500	TOU - Demand (1001-4500kVA)	Consumption Morning Peak		2,966,214	0.0336	0.0188	0.0003	0.0527
PNL4500	TOU - Demand (1001-4500kVA)	Consumption Off Peak		3,959,820	0.0263	0.0149	0.0002	0.0414
PNL4500	TOU - Demand (1001-4500kVA)	Consumption Night		3,357,621	0.0135	0.0084	0.0001	0.0220
PNL6500	TOU - Demand (4501-6500kVA)	Fixed Daily Charge	0		103.1593	50.1439	0.7439	154.0470
PNL6500	TOU - Demand (4501-6500kVA)	Capacity Charge						
PNL6500	TOU - Demand (4501-6500kVA)	Demand Charge						
PNL6500	TOU - Demand (4501-6500kVA)	Consumption Evening Peak		0	0.0359	0.0200	0.0003	0.0562
PNL6500	TOU - Demand (4501-6500kVA)	Consumption Morning Peak		0	0.0337	0.0188	0.0003	0.0527
PNL6500	TOU - Demand (4501-6500kVA)	Consumption Off Peak		0	0.0263	0.0149	0.0002	0.0414
PNL6500	TOU - Demand (4501-6500kVA)	Consumption Night		0	0.0135	0.0084	0.0001	0.0220
PNG0500	Assessed Capacity (301 to 500kVA)		0		17.4913	0.0000	0.0000	17.4913
PNG1000	Assessed Capacity (501 to 1000kVA)		6		27.0820	0.0000	0.2273	27.3093
PNG4500	Assessed Capacity (1001 to 4500kVA)		1		67.7081	0.0000	0.0000	67.7081
PNG6500	Assessed Capacity (4501 to 6500kVA)		1		103.0432	0.0000	0.0000	103.0432
			25,407	273,425,084				



13.2 Quantities for period from 1 April 2015 to 31 March 2016

Price Category	Consumer Group	Charge Type	2015/16		Distribution Charge	Transmission Charge	Pass-through & Recoverable	Total Charge
			ICPs	KWh				
Domestic								
PDH0030	Domestic	Fixed Daily Charge	13,667		0.1096	0.0375	0.0029	0.1500
PDH0030	Domestic	Consumption Uncontrolled		59,117,019	0.1080	0.0369	0.0030	0.1479
PDH0030	Domestic	Consumption Controlled		23,972,519	0.0561	0.0192	0.0015	0.0768
PDH0030	Domestic	Consumption Night		25,041	0.0140	0.0048	0.0004	0.0192
PDL0030	Domestic	Fixed Daily Charge	5,667		0.1096	0.0375	0.0029	0.1500
PDL0030	Domestic	Consumption Uncontrolled		26,877,590	0.1258	0.0435	0.0034	0.1727
PDL0030	Domestic	Consumption Controlled		9,301,777	0.0679	0.0235	0.0019	0.0933
PDL0030	Domestic	Consumption Night		42,373	0.0164	0.0056	0.0004	0.0224
Non-Domestic - High Density								
PNH0003	Low Capacity (0 to 3kVA)	Fixed Daily Charge	134		0.2732	0.1115	0.0076	0.3923
PNH0003	Low Capacity (0 to 3kVA)	Capacity Charge						
PNH0003	Low Capacity (0 to 3kVA)	Demand Charge						
PNH0003	Low Capacity (0 to 3kVA)	Consumption Uncontrolled		686,310	0.0876	0.0441	0.0024	0.1341
PNH0003	Low Capacity (0 to 3kVA)	Consumption Controlled		226	0.0569	0.0311	0.0015	0.0895
PNH0003	Low Capacity (0 to 3kVA)	Consumption Night		0	0.0109	0.0060	0.0003	0.0172
PNH0030	Demand (0 to 30kVA)	Fixed Daily Charge	1,699		1.5364	0.5774	0.0420	2.1558
PNH0030	Demand (0 to 30kVA)	Capacity Charge						
PNH0030	Demand (0 to 30kVA)	Demand Charge						
PNH0030	Demand (0 to 30kVA)	Consumption Uncontrolled		20,804,655	0.0630	0.0317	0.0018	0.0965
PNH0030	Demand (0 to 30kVA)	Consumption Controlled		1,043,044	0.0410	0.0206	0.0011	0.0627
PNH0030	Demand (0 to 30kVA)	Consumption Night		56,354	0.0109	0.0056	0.0003	0.0168
PNH0100	Demand (31 to 100kVA)	Fixed Daily Charge	276		4.7814	1.9533	0.1309	6.8656
PNH0100	Demand (31 to 100kVA)	Capacity Charge						
PNH0100	Demand (31 to 100kVA)	Demand Charge						
PNH0100	Demand (31 to 100kVA)	Consumption Uncontrolled		20,972,326	0.0430	0.0216	0.0012	0.0658
PNH0100	Demand (31 to 100kVA)	Consumption Controlled		378,459	0.0279	0.0140	0.0008	0.0427
PNH0100	Demand (31 to 100kVA)	Consumption Night		222,077	0.0109	0.0056	0.0003	0.0168
PNH0300	Demand (101 to 300kVA)	Fixed Daily Charge	65		9.0163	3.6833	0.2468	12.9464
PNH0300	Demand (101 to 300kVA)	Capacity Charge						
PNH0300	Demand (101 to 300kVA)	Demand Charge						
PNH0300	Demand (101 to 300kVA)	Consumption Uncontrolled		14,372,762	0.0351	0.0176	0.0010	0.0537
PNH0300	Demand (101 to 300kVA)	Consumption Controlled		32,971	0.0228	0.0114	0.0006	0.0348
PNH0300	Demand (101 to 300kVA)	Consumption Night		0	0.0109	0.0060	0.0003	0.0172
PTH0300	TOU - Demand (201-300kVA)	Fixed Daily Charge	6		15.0273	6.1388	0.4113	21.5774
PTH0300	TOU - Demand (201-300kVA)	Capacity Charge						
PTH0300	TOU - Demand (201-300kVA)	Demand Charge						
PTH0300	TOU - Demand (201-300kVA)	Consumption Evening Peak		390,696	0.0331	0.0157	0.0009	0.0497
PTH0300	TOU - Demand (201-300kVA)	Consumption Morning Peak		543,886	0.0310	0.0146	0.0008	0.0464
PTH0300	TOU - Demand (201-300kVA)	Consumption Off Peak		701,835	0.0244	0.0115	0.0007	0.0366
PTH0300	TOU - Demand (201-300kVA)	Consumption Night		505,505	0.0125	0.0056	0.0003	0.0184
PNH0500	TOU - Demand (301-500kVA)	Fixed Daily Charge	15		16.9400	6.9201	0.4636	24.3237
PNH0500	TOU - Demand (301-500kVA)	Capacity Charge						
PNH0500	TOU - Demand (301-500kVA)	Demand Charge						
PNH0500	TOU - Demand (301-500kVA)	Consumption Evening Peak		1,267,452	0.0331	0.0157	0.0009	0.0497
PNH0500	TOU - Demand (301-500kVA)	Consumption Morning Peak		2,139,892	0.0310	0.0146	0.0008	0.0464
PNH0500	TOU - Demand (301-500kVA)	Consumption Off Peak		2,829,202	0.0244	0.0115	0.0007	0.0366
PNH0500	TOU - Demand (301-500kVA)	Consumption Night		2,123,049	0.0125	0.0056	0.0003	0.0184
PNH1000	TOU - Demand (501-1000kVA)	Fixed Daily Charge	20		26.2295	10.7150	0.7179	37.6624
PNH1000	TOU - Demand (501-1000kVA)	Capacity Charge						
PNH1000	TOU - Demand (501-1000kVA)	Demand Charge						
PNH1000	TOU - Demand (501-1000kVA)	Consumption Evening Peak		4,119,458	0.0331	0.0157	0.0009	0.0497
PNH1000	TOU - Demand (501-1000kVA)	Consumption Morning Peak		5,875,143	0.0310	0.0146	0.0008	0.0464
PNH1000	TOU - Demand (501-1000kVA)	Consumption Off Peak		7,731,589	0.0243	0.0115	0.0007	0.0365
PNH1000	TOU - Demand (501-1000kVA)	Consumption Night		7,033,948	0.0125	0.0056	0.0003	0.0184
PNH4500	TOU - Demand (1001-4500kVA)	Fixed Daily Charge	1		65.5739	26.7875	1.7947	94.1561
PNH4500	TOU - Demand (1001-4500kVA)	Capacity Charge						
PNH4500	TOU - Demand (1001-4500kVA)	Demand Charge						
PNH4500	TOU - Demand (1001-4500kVA)	Consumption Evening Peak		1,342,435	0.0331	0.0157	0.0009	0.0497
PNH4500	TOU - Demand (1001-4500kVA)	Consumption Morning Peak		1,879,005	0.0310	0.0146	0.0008	0.0464
PNH4500	TOU - Demand (1001-4500kVA)	Consumption Off Peak		2,545,164	0.0244	0.0115	0.0007	0.0366
PNH4500	TOU - Demand (1001-4500kVA)	Consumption Night		2,515,878	0.0125	0.0056	0.0003	0.0184
PNH6500	TOU - Demand (4501-6500kVA)	Fixed Daily Charge	1		99.7952	40.7674	2.7313	143.2939
PNH6500	TOU - Demand (4501-6500kVA)	Capacity Charge						
PNH6500	TOU - Demand (4501-6500kVA)	Demand Charge						
PNH6500	TOU - Demand (4501-6500kVA)	Consumption Evening Peak		2,566,162	0.0331	0.0157	0.0009	0.0497
PNH6500	TOU - Demand (4501-6500kVA)	Consumption Morning Peak		4,122,681	0.0310	0.0146	0.0008	0.0464
PNH6500	TOU - Demand (4501-6500kVA)	Consumption Off Peak		5,021,790	0.0244	0.0115	0.0007	0.0366
PNH6500	TOU - Demand (4501-6500kVA)	Consumption Night		4,588,701	0.0125	0.0056	0.0003	0.0184



Price Category	Consumer Group	Charge Type	2015/16		Distribution Charge	Transmission Charge	Pass-through & Recoverable	Total Charge
			ICPs	KWh				
Non-Domestic - Low Density								
PNL0003	Low Capacity (0 to 3kVA)	Fixed Daily Charge	119		0.2732	0.1115	0.0075	0.3922
PNL0003	Low Capacity (0 to 3kVA)	Capacity Charge						
PNL0003	Low Capacity (0 to 3kVA)	Demand Charge						
PNL0003	Low Capacity (0 to 3kVA)	Consumption Uncontrolled		281,226	0.1012	0.0508	0.0028	0.1548
PNL0003	Low Capacity (0 to 3kVA)	Consumption Controlled		0	0.0658	0.0358	0.0145	0.1161
PNL0003	Low Capacity (0 to 3kVA)	Consumption Night		0	0.0127	0.0068	0.0028	0.0223
PNL0030	Demand (0 to 30kVA)	Fixed Daily Charge	3,617		1.5364	0.5774	0.0420	2.1558
PNL0030	Demand (0 to 30kVA)	Capacity Charge						
PNL0030	Demand (0 to 30kVA)	Demand Charge						
PNL0030	Demand (0 to 30kVA)	Consumption Uncontrolled		16,880,553	0.0658	0.0330	0.0018	0.1006
PNL0030	Demand (0 to 30kVA)	Consumption Controlled		1,560,801	0.0428	0.0215	0.0012	0.0655
PNL0030	Demand (0 to 30kVA)	Consumption Night		28,456	0.0127	0.0063	0.0003	0.0193
PNL0100	Demand (31 to 100kVA)	Fixed Daily Charge	97		4.7814	1.9533	0.1309	6.8656
PNL0100	Demand (31 to 100kVA)	Capacity Charge						
PNL0100	Demand (31 to 100kVA)	Demand Charge						
PNL0100	Demand (31 to 100kVA)	Consumption Uncontrolled		4,365,029	0.0501	0.0251	0.0014	0.0766
PNL0100	Demand (31 to 100kVA)	Consumption Controlled		138,335	0.0325	0.0163	0.0009	0.0497
PNL0100	Demand (31 to 100kVA)	Consumption Night		74,372	0.0127	0.0063	0.0003	0.0193
PNL0300	Demand (101 to 300kVA)	Fixed Daily Charge	17		9.0164	3.6833	0.2468	12.9465
PNL0300	Demand (101 to 300kVA)	Capacity Charge						
PNL0300	Demand (101 to 300kVA)	Demand Charge						
PNL0300	Demand (101 to 300kVA)	Consumption Uncontrolled		2,357,322	0.0400	0.0201	0.0011	0.0612
PNL0300	Demand (101 to 300kVA)	Consumption Controlled		0	0.0260	0.0130	0.0007	0.0397
PNL0300	Demand (101 to 300kVA)	Consumption Night		0	0.0127	0.0068	0.0028	0.0223
PTL0300	TOU - Demand (201-300kVA)	Fixed Daily Charge	1		15.0274	6.1388	0.4113	21.5775
PTL0300	TOU - Demand (201-300kVA)	Capacity Charge						
PTL0300	TOU - Demand (201-300kVA)	Demand Charge						
PTL0300	TOU - Demand (201-300kVA)	Consumption Evening Peak		839	0.0348	0.0163	0.0010	0.0521
PTL0300	TOU - Demand (201-300kVA)	Consumption Morning Peak		50,614	0.0325	0.0153	0.0009	0.0487
PTL0300	TOU - Demand (201-300kVA)	Consumption Off Peak		51,293	0.0255	0.0121	0.0007	0.0383
PTL0300	TOU - Demand (201-300kVA)	Consumption Night		1,946	0.0131	0.0059	0.0003	0.0193
PNL0500	TOU - Demand (301-500kVA)	Fixed Daily Charge	3		16.9400	6.9201	0.4636	24.3237
PNL0500	TOU - Demand (301-500kVA)	Capacity Charge						
PNL0500	TOU - Demand (301-500kVA)	Demand Charge						
PNL0500	TOU - Demand (301-500kVA)	Consumption Evening Peak		183,604	0.0348	0.0163	0.0010	0.0521
PNL0500	TOU - Demand (301-500kVA)	Consumption Morning Peak		261,045	0.0325	0.0153	0.0009	0.0487
PNL0500	TOU - Demand (301-500kVA)	Consumption Off Peak		353,068	0.0255	0.0121	0.0007	0.0383
PNL0500	TOU - Demand (301-500kVA)	Consumption Night		255,259	0.0131	0.0059	0.0003	0.0193
PNL1000	TOU - Demand (501-1000kVA)	Fixed Daily Charge	1		26.2295	10.7150	0.7179	37.6624
PNL1000	TOU - Demand (501-1000kVA)	Capacity Charge						
PNL1000	TOU - Demand (501-1000kVA)	Demand Charge						
PNL1000	TOU - Demand (501-1000kVA)	Consumption Evening Peak		176,885	0.0348	0.0163	0.0010	0.0521
PNL1000	TOU - Demand (501-1000kVA)	Consumption Morning Peak		262,733	0.0325	0.0153	0.0009	0.0487
PNL1000	TOU - Demand (501-1000kVA)	Consumption Off Peak		349,557	0.0255	0.0121	0.0007	0.0383
PNL1000	TOU - Demand (501-1000kVA)	Consumption Night		231,386	0.0131	0.0059	0.0003	0.0193
PNL4500	TOU - Demand (1001-4500kVA)	Fixed Daily Charge	1		65.5739	26.7876	1.7947	94.1562
PNL4500	TOU - Demand (1001-4500kVA)	Capacity Charge						
PNL4500	TOU - Demand (1001-4500kVA)	Demand Charge						
PNL4500	TOU - Demand (1001-4500kVA)	Consumption Evening Peak		2,299,869	0.0348	0.0163	0.0010	0.0521
PNL4500	TOU - Demand (1001-4500kVA)	Consumption Morning Peak		3,392,476	0.0325	0.0153	0.0009	0.0487
PNL4500	TOU - Demand (1001-4500kVA)	Consumption Off Peak		4,441,412	0.0255	0.0121	0.0007	0.0383
PNL4500	TOU - Demand (1001-4500kVA)	Consumption Night		3,740,800	0.0131	0.0059	0.0003	0.0193
PNL6500	TOU - Demand (4501-6500kVA)	Fixed Daily Charge	0		99.9122	40.7674	2.6141	143.2937
PNL6500	TOU - Demand (4501-6500kVA)	Capacity Charge						
PNL6500	TOU - Demand (4501-6500kVA)	Demand Charge						
PNL6500	TOU - Demand (4501-6500kVA)	Consumption Evening Peak		0	0.0348	0.0163	0.0009	0.0520
PNL6500	TOU - Demand (4501-6500kVA)	Consumption Morning Peak		0	0.0326	0.0153	0.0009	0.0488
PNL6500	TOU - Demand (4501-6500kVA)	Consumption Off Peak		0	0.0255	0.0121	0.0007	0.0383
PNL6500	TOU - Demand (4501-6500kVA)	Consumption Night		0	0.0131	0.0059	0.0003	0.0193
PNG0500	Assessed Capacity (301 to 500kVA)		0		16.9407	0.0000	0.0000	16.9407
PNG1000	Assessed Capacity (501 to 1000kVA)		6		26.2295	0.0000	0.7179	26.9474
PNG4500	Assessed Capacity (1001 to 4500kVA)		1		65.5769	0.0000	0.0000	65.5769
PNG6500	Assessed Capacity (4501 to 6500kVA)		1		99.7997	0.0000	0.0000	99.7997
			25,415	279,487,854				



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.

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:

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

$$P_{SAIDI} = 639.5284$$

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

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

$$SAIDI_{Target} = 252.45$$

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:

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

$$P_{SAIFI} = 3.6736$$

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

$$U_{SAIFI} = 30.9294$$

$$SAIFI_{Target} = 3.28$$

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

$SAIDI_{Target}$ = 252.45

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

$SAIDI_{Dev}$ = 1.7446

$SAIDI_{Limit}$ = 285.78

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

$SAIFI_{Target}$ = 3.28

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

$SAIFI_{Dev}$ = 0.0256

$SAIFI_{Limit}$ = 3.77

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

$SAIDI_{Target}$ = 252.45

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

$SAIDI_{Dev}$ = 1.7446

$SAIDI_{Collar}$ = 219.12

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

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

$SAIFI_{Dev}$ = 0.0256

$SAIFI_{Collar}$ = 2.79



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	
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	Defective Equipment
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
SUM			99,478	4,153,905	163.6	3.91	



15 Auditor's Report

INDEPENDENT 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, Trevor Deed, 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 2017 on pages 4 to 24 has been prepared, in all material respects, with the Electricity Distribution Services Default Price-Quality Path Determination 2015 (the Determination).

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, 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.

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.

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. 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 for the assessment period ended on 31 March 2017, our assurance engagement included examination, on a test basis, of evidence relevant to the amounts and disclosures contained on pages 4 to 24 of the Annual Compliance Statement.





In assessing the disclosures about compliance with the quality standards in clause 9 of the Determination for the assessment period ended on 31 March 2017, our assurance engagement included examination, on a test basis, of evidence relevant to the amounts and disclosures contained on pages 4 to 24 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.

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. 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.

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.

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.



Deloitte.

The Auditor-General, and his employees, Deloitte Limited and its 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, and the annual audit of the company's financial statements, we have no relationship with or interests in the company.

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 company for the year ended on 31 March 2017, has been prepared, in all material respects, in accordance with the Determination.

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



Trevor Deed
Deloitte Limited
On behalf of the Auditor-General
Wellington, New Zealand
24 May 2017

This reasonable assurance report relates to the Annual Compliance Statement of Eastland Network Limited (the company) for the year ended 31 March 2017 included on Eastland Network Limited's website. The Board of Directors are responsible for the maintenance and integrity of the company's website. We have not been engaged to report on the integrity of the company's website. We accept no responsibility for any changes that may have occurred to the Annual Compliance Statement since it was initially presented on the website. The reasonable assurance report refers only to the Annual Compliance Statement named above. It does not provide an opinion on any other information which may have been hyperlinked to/from this Annual Compliance statement. If readers of this report are concerned with the inherent risks arising from electronic data communication they should refer to the published hard copy of the Annual Compliance Statement and related reasonable assurance report dated 24 May 2017 to confirm the information included in the Annual Compliance Statement presented on this website.

End of document

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