

# OtagoNet Joint Venture

## **DEFAULT PRICE QUALITY PATH COMPLIANCE STATEMENT**

**FOR THE ASSESSMENT DATE 31 MARCH 2016**

*Pursuant to the Electricity Distribution Services Default Price-Quality  
Path Determination 2015*

25 May 2016

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**1) Compliance with the Price Path (Clause 11.2(a)(i))**

OtagoNet Joint Venture does comply with the price path at the assessment date, 31 March 2016, as specified in the *Electricity Distribution Services Default Price-Quality Path Determination 2015*.

**Clause 8.3** - The notional revenue (NR) of a Non-exempt EDB in the Assessment Period must not exceed the allowable notional revenue (ANR) for the Assessment Period.

Compliance is demonstrated in the following table, which demonstrates that notional revenue during the Assessment Period does not exceed allowable notional revenue.

Test:	$NR_{2015/16} \leq ANR_{2015/16}$		
NR <sub>2015/16</sub>	\$		24,467,173
ANR <sub>2015/16</sub>	\$		24,597,975
Result			0.9952 < 1
Result	<i>Price Path has not been breached</i>		

Supporting evidence is presented in Appendices A, B, C and D.

# Compliance with the Quality Standards (Clause 11.2(a)(ii))

OtagoNet Joint Venture does comply with all requirements of the quality standards at the assessment date, 31 March 2016, as specified in the *Electricity Distribution Services Default Price-Quality Path Determination 2015*.

## 2016 Reliability Assessment (9.1(a))

**Clause 9.1(a) requires compliance with Clause 9.2:** To comply with the annual reliability assessment for the current Assessment Period:

- a Non-exempt EDB's SAIDI Assessed Values for the Assessment Period must not exceed the SAIDI Limit specified in Schedule 4A; and
- a Non-exempt EDB's SAIFI Assessed Values for the Assessment Period must not exceed the SAIFI Limit specified in Schedule 4A.

Compliance is demonstrated in the following tables.

Test:	$SAIDI_{Assess\ 2015/16} \leq SAIDI_{Limit}$	
SAIDI <sub>Assess 2015/16</sub>	223.14	
SAIDI <sub>Limit</sub>	254.92	
	0.8754	< 1
<b>Clause 9.1(a) Result:</b>	<i>Does not exceed limit</i>	

Test:	$SAIFI_{Assess\ 2015/16} \leq SAIFI_{Limit}$	
SAIFI <sub>Assess 2015/16</sub>	2.82	
SAIFI <sub>Limit</sub>	2.93	
	0.9622	< 1
<b>Clause 9.1(a) Result:</b>	<i>Does not exceed limit</i>	

Supporting evidence is presented in Appendices E and F.

**Prior Period Reliability Assessment (9.1(b))**

**Clause 9.1(b):** A Non-exempt EDB must have complied with the annual reliability assessments in each of the two preceding Assessment Periods.

Compliance is demonstrated in the following tables.

SAIDI <sub>Assess 2014/15</sub>	353.21	SAIFI <sub>Assess 2014/15</sub>	3.27
SAIDI <sub>Limit 2014/15</sub>	361.08	SAIFI <sub>Limit 2014/15</sub>	3.12
	0.9782 < 1		1.0487 > 1
	<i>Does not exceed limit</i>		<i>Exceeds limit</i>

SAIDI <sub>Assess 2013/14</sub>	348.15	SAIFI <sub>Assess 2013/14</sub>	2.95
SAIDI <sub>Limit 2013/14</sub>	361.08	SAIFI <sub>Limit 2013/14</sub>	3.12
	0.9642 < 1		0.9456 < 1
	<i>Does not exceed limit</i>		<i>Does not exceed limit</i>

**Compliance Summary**

**Clause 9.1** A Non-exempt EDB must, in respect of each Assessment Period, either:

(a) comply with the annual reliability assessment specified in clause 9.2 for that Assessment Period; or

(b) have complied with the annual reliability assessment in each of the two preceding Assessment Periods

	SAIDI	SAIFI	Compliance
<b>Compliance with 9.1(a)</b> 2015/16 Assessment Period	Does not exceed limit	Does not exceed limit	<b>Complies</b>
or			
<b>Compliance with 9.1(b)</b>			<b>Does not comply</b>
2014/15 Assessment Period	Does not exceed limit	Exceeds limit	<i>Does not comply</i>
2013/14 Assessment Period	Does not exceed limit	Does not exceed limit	<i>Complies</i>
<b>Clause 9.1 Result:</b>	<b>Complies with Quality Standard</b>		

## **Director Certification (Clause 11.3(a))**

We Alan Bertram Harper and Neil Douglas Boniface, being directors of companies which are parties to the OtagoNet Joint Venture certify that, having made all reasonable enquiry, to the best of my/our knowledge and belief, the attached Annual Compliance Statement of Electricity Invercargill Limited, and related information, prepared for the purposes of the *Electricity Distribution Services Default Price-Quality Path Determination 2015* are true and accurate.



***Alan Bertram Harper***



***Neil Douglas Boniface***

*25 May 2016*

## 4. Assurance Report (Clause 11.3(b))



### *Independent Auditors' Report*

to the Directors of OtagoNet Joint Venture and the Commissioners of the New Zealand Commerce Commission

### *Assurance Report on the Annual Compliance Statement of OtagoNet Joint Venture for the Assessment Period ended on 31 March 2016*

We have completed the assurance engagement in respect of the attached Annual Compliance Statement prepared by OtagoNet Joint Venture for the Assessment Period ended 31 March 2016 and dated 26 May 2016 for the purposes of clause 11 of the *Commerce Act (Electricity Distribution Services Default Price-Quality Path) Determination 2015* ("the Determination").

#### ***Directors' Responsibilities***

The Directors of OtagoNet Joint Venture 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, whether due to fraud or error.

#### ***Auditors' Responsibilities***

Our responsibility is to express an opinion on the Annual Compliance Statement based on our independent assurance procedures. We conducted our engagement in accordance with ISAE (NZ) 3000, *Assurance Engagements Other than Audits or Reviews of Historical Financial Information* and SAE 3100 *Compliance Engagements*. Those standards require that we comply with ethical requirements and plan and perform the engagement to obtain reasonable assurance about whether the Annual Compliance Statement complies with the Determination, in all material respects.

An independent assurance engagement involves performing procedures to obtain evidence about the amounts and disclosures in the Annual Compliance Statement. The procedures selected depend on the auditor's judgement, including the assessment of the risks of material misstatement of the Annual Compliance Statement, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the entity's preparation of the Annual Compliance Statement in order to design assurance procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control.

In relation to the price path set out in clause 8 of the Determination, our procedures included examination, on a test basis, of evidence relevant to the amounts and disclosures contained on pages 2, 8 to 28, 31 to 32, and 35 to 40 of the Annual Compliance Statement.

In relation to the SAIDI and SAIFI statistics for the Assessment Period ended on 31 March 2016, which are relevant to the quality standards set out in clause 9 of the Determination, our procedures included examination, on a test basis, of evidence relevant to the values and disclosures contained on pages 3 to 4, 29 to 31 and 33 to 34 of the Annual Compliance Statement.



## *Independent Auditors' Report*

### OtagoNet Joint Venture

Our assurance engagement also included assessment of the significant estimates and judgments, if any, made by OtagoNet Joint Venture 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.

We have no relationship with or interests in OtagoNet Joint Venture other than in our capacities as auditors of the annual financial statements, auditors pursuant to the Electricity Distribution (Information Disclosure) Requirements 2015 and in the provision of other professional advisory services. These services have not impaired our independence as auditors of the entity.

#### *Use of Report*

This report has been prepared for the Directors of OtagoNet Joint Venture and the Commissioners of the New Zealand Commerce Commission in accordance with the Determination and is provided solely to assist these parties in establishing that compliance requirements have been met. Our report should not be used for any other purpose. To the fullest extent permitted by law, we do not accept or assume responsibility for any reliance on this report to anyone other than the addressees, or for any purpose other than that for which it was prepared.

#### *Inherent Limitations*

Because of the inherent limitations in evidence gathering procedures and OtagoNet Joint Venture's compliance systems, it is possible that fraud, error or non-compliance may occur and not be detected. As the procedures performed for this engagement were not performed continuously throughout the period and were undertaken on a test basis, our assurance engagement cannot be relied on to detect all instances where OtagoNet Joint Venture may not have complied with the Determination. The opinion expressed in this report has been formed on the above basis.

#### **Opinion**

In our opinion;

- As far as appears from our examination, the information used in the preparation of the Annual Compliance Statement has been properly extracted from OtagoNet Joint Venture's accounting and other records and has been sourced where appropriate, from the Joint Venture's financial and non-financial systems; and
- OtagoNet Joint Venture has complied, in all material respects, with the Determination in preparing the Annual Compliance Statement.

Our audit was completed on 26 May 2016 and our opinion is expressed as at that date.

A handwritten signature in blue ink that reads 'PricewaterhouseCoopers'.

PricewaterhouseCoopers

Christchurch, New Zealand

## Appendix A – Price Path Compliance Calculations (Clause 11.4(c))

Allowable Notional Revenue 2015/16		
Term	Description	Value \$
$MAR_{2015/16}$	Maximum allowable revenue as specified in Schedule 1 of the DPP Determination	24,780,000
$\Delta D$	Change in constant price revenue as specified in Schedule 1 of the DPP Determination	1.0074
$ANR_{2015/16}$	Allowable Notional Revenue for the year ending 31 March 2016	24,597,975

Notional Revenue 2015/16		
Term	Description	Value \$
$\Sigma DP_{2015/16} Q_{2013/14}$	Distribution Prices during 2015/2016 multiplied by 2013/2014 Quantities	24,467,173
$NR_{2015/16}$	Notional Revenue for the year ending 31 March 2016	24,467,173



**Appendix B – Pass-through Balance and Pass-through & Recoverable Costs (Clause 11.4(e) – (k))**

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

**Pass-through Balance  
for the Assessment Date 31 March 2016**

<b>Pass-through Balance 2015/16</b>		
<b>Term</b>	<b>Description</b>	<b>Value \$</b>
<i>PTP<sub>2015/16</sub>Q<sub>2015/16</sub></i>	Pass-through Prices during 2015/2016 multiplied by 2015/2016 Quantities	9,216,618
<i>K<sub>2015/16</sub></i>	Rates on system fixed assets for the year ending 31 March 2016	118,982
	Commerce Act levies for the year ending 31 March 2016	56,124
	Electricity Authority levies for the year ending 31 March 2016	68,832
	EGCC levies for the year ending 31 March 2016	6,641
<i>V<sub>2015/16</sub></i>	Transpower transmission charges for the year ending 31 March 2016	6,383,250
	Transpower New Investment Contract charges for the year ending 31 March 2016	223,851
	System operator services charges for the year ending 31 March 2016	
	Avoided transmission charges resulting from purchase of transmission asset from Transpower for the year ending 31 March 2016	835,034
	Distributed generation allowance for the year ending 31 March 2016	1,411,131
	Claw-back for the year ending 31 March 2016	
	NPV Wash-up Allowance for the year ending 31 March 2016	
	Energy efficiency and demand-side management incentive allowance for the year ending 31 March 2016	Nil
	Catastrophic event allowance for the year ending 31 March 2016	Nil
	Extended reserves allowance for the year ending 31 March 2016	Nil
	Quality incentive adjustment for the year ending 31 March 2016	Nil
	Capex wash-up adjustment for the year ending 31 March 2016	Nil

	Reconsideration event allowance for the year ending 31 March 2016	Nil
<i>PTB</i> <sub>2014/15</sub>	Pass-through Balance from previous Assessment Period	Nil
<i>r</i>	Cost of Debt	6.09%
<i>PTB</i> <sub>2015/16</sub>	Pass-through Balance for the Assessment Period ending 31 March 2016	112,774

Pass-through Balance Reconciliation 2015/16		
Term	Description	Value \$
<i>PTP</i> <sub>2015/16</sub> <i>Q</i> <sub>2015/16</sub>	Pass-through Prices during 2015/2016 multiplied by 2015/2016 Quantities	9,216,618
<i>Total Pass-through and Recoverable Costs</i>	Total Pass-through and Recoverable Costs for the year ending 31 March 2016	9,103,844
<i>PTB</i> <sub>2015/16</sub>	Pass-through Balance for the Assessment Period ending 31 March 2016	112,774
<i>PTB</i> <sub>2014/15</sub>	Pass-through Balance from previous Assessment Period	Nil
<i>Difference</i>	Reconciliation between Pass-through Balance for the Assessment Period with the Pass-through Balance for the preceding Assessment Period	112,774

### **Compliance with clause 11.4 (e)(i) Methodology for calculating Distribution Prices and Pass-through Prices.**

OJV's pricing model is used to calculate the distribution and pass-through prices for each category of customers. The pricing model clearly defines as separate inputs the distribution costs, the recoverable costs and the total pass-through costs that are to be recovered for the regulatory period. Forecast energy volumes are estimated and inputted into the model as the basis for the recovery of variable line charge revenue. The calculation of all these costs into distribution prices and pass-through prices is completed in the following way:

#### **Pass-through Costs**

The total pass-through costs are budgeted at \$258,744 for the Otago region and \$2,500 for the Lakeland region, this total is divided by the total number of ICP's on the network to arrive at a per ICP amount of \$17.51 for the Otago region and \$7.84 for the Lakeland region which is then allocated to each ICP. The individual line charge customer group account for \$1,518.02 and the balance of \$259,726 is recovered by the group customers.

#### **Recoverable Costs**

Recoverable costs of \$8,853,266 which are made up of Transmission charges, Transpower new investment charges, avoided Transmission charges and charges that are avoided due to the purchase of Transpower assets are entered into the pricing

model as Transpower charges. The Transpower charges are allocated to the two customer groups in the following way:

### **1. Individual Line Charge Customers**

Each individual line charge customer is entered into the pricing model separately. Transpower connection charges and charges that are avoided due to the purchase of Transpower assets are allocated to each ICP based on the ICP's capacity, peak demand and consumption. Transpower interconnection charges are allocated to these ICP's based on each ICP's co-incident demand with that of Transpower's 100 peak demand times. These peaks are then averaged and multiplied by the interconnection rate of \$110.35 to allocate the annual interconnection component of the Transpower charges. The sum of these charges adds up to the total Transpower charge. Individual line charge customers account for \$5,473,487.

### **2. Group Customers**

Once the allocation of the Transpower charges has been calculated for the individual line charge customers the balance of \$3,357,881 is allocated over the group customers based on the same quantity inputs as for the individual group customers.

## **Distribution Charges**

The distribution charges of \$24,547,974, are allocated to each ICP in accordance with the line pricing methodology, with the combination of the pass-through costs and recoverable costs the total line charge is calculated.

## **Derivation of the Prices**

### **Individual Line charge customers**

Once the total annual line charge has been calculated for each ICP, the total line charge is then recovered by either 50% of the total being recovered by a fixed price per day and the remaining 50% being recovered by a variable price per day kWh, or the total line charge is recovered by a totally fixed price per day. Total Line revenue for the individual line charge customer group is \$8,031,410

The recoverable cost for each ICP has been calculated, to calculate the amount of recoverable cost in the fixed charge we divide the recoverable cost by the total line charge to arrive at a percentage, we then multiply this percentage by the fixed daily charge to calculate the recoverable cost per day. The variable charge is also multiplied by this percentage to calculate the recoverable cost per day kWh. The individual line charge customer group account for \$5,473,487 of the recoverable costs.

Pass-through costs have also been calculated and these are divided by the number of days in the year to calculate the price per day. The pass-through costs are recovered fully by the fixed charge. The recoverable cost and pass-through cost per day are then added together and deducted from the total fixed daily charge to calculate the distribution price per day. The recoverable price per day kWh is deducted from the total variable price per day kWh to calculate the distribution price per day kWh. The individual line charge customer group account for \$1,518.02 of the pass-through costs.

## Group Customers

After the total revenue for the individual line charge customers has been calculated the remaining revenue of \$26,162,885 is to be collected by the group customers. Of the \$26,162,885 to be collected, \$3,617,607 is the recoverable and pass-through costs. To calculate the pass-through price we divide the recoverable and pass-through costs by the total line charge to arrive at the pass-through price percentage. This percentage is then multiplied by the total fixed price and multiplied by the total variable price for each tariff option to calculate the pass-through price.

The distribution price is the total price minus the pass-through price for each tariff component.

### Clause 11.4(i)

#### Electricity Distribution Services Default Price-Quality Path Determination 2015 Pass-through Costs for the Assessment Date 31 March 2016

Pass-through Costs for year ending March 2016				
K <sub>2015/16</sub>	Actual (\$)	Forecast (\$)	Variance (\$)	Variance (%)
Rates on system fixed assets	118,982	112,000	6,982	6.2%
Commerce Act levies	56,124	74,000	(17,876)	(24.2%)
Electricity Authority levies	68,832	68,500	332	0.5%
EGCC levies	6,641	6,744	(103)	(1.5%)
<b>Total Pass-through Costs</b>	<b>250,579</b>	<b>261,244</b>	<b>(10,665)</b>	<b>(4.1%)</b>

#### Electricity Distribution Services Default Price-Quality Path Determination 2015 Recoverable Costs for the Assessment Date 31 March 2016

Recoverable Costs for year ending March 2016				
V <sub>2015/16</sub>	Actual (\$)	Forecast (\$)	Variance (\$)	Variance (%)
Transpower transmission charges	6,383,250	6,383,250	0	0.0%
New investment contract charges	223,851	223,851	-	0.0%
System operator services charges	-	-	-	0.0%
Avoided transmission charges - purchases from Transpower	835,034	835,034	-	0.0%
Distributed generation allowance	1,411,131	1,411,131	-	0.0%
Claw-back	-	-	-	0.0%
NPV wash-up allowance	-	-	-	0.0%
Energy efficiency allowance	Nil	-	-	0.0%
Catastrophic event allowance	Nil	-	-	0.0%
Extended reserves allowance	Nil	-	-	0.0%
Quality incentive adjustment	Nil	-	-	0.0%

Capex wash-up adjustment	Nil		-	0.0%
Reconsideration event allowance	Nil		-	0.0%
Total Recoverable Costs	8,853,266	8,853,266	-	0.0%

#### **Clause 11.4(j)**

##### **Explanation for variances**

At the time of setting our prices the actual amounts for pass-through costs are unknown, we therefore estimate these based on a re-forecast of the previous year.

The variance in the forecast amount and actual amount for the rates on system assets is due to the Queenstown Lakes District Council now charging rates for the system fixed assets at Frankton, these were not budgeted for.

#### **Clause 11.4(h)**

##### **Disclosure of New Investment Contracts**

OJV did not enter into any New Investment Contracts in the assessment period, therefore there is no disclosure.

## Appendix C – Price and Quantity Schedules (Clause 11.4(c) – (d))

### Notional Revenue at Assessment Date (31 March 2016):

Fixed Charges	31-Mar-14	P= 31-3-2016	DP Fixed Charge	
	Number	Average	Annual	Total Fixed
		kVA	\$/kVA	Charge
<b>Domestic</b>	7,983	9.89	\$ 52.216	\$ 4,123,188
			<b>\$/day</b>	
<b>10% Fixed Charge Option Off Peak</b>	2,415	1	\$ 0.1296	\$ 114,276
<b>10% Fixed Charge Option Peak</b>	847	1	\$ 0.1296	\$ 40,073
			<b>Annual Rate</b>	
			<b>\$/kVA</b>	
<b>Commercial</b>	3,369	17.17	\$ 76.31	\$ 4,414,507
<b>Unmetered</b>	87	1	\$ 214.63	\$ 18,619
		<b>Watts</b>	<b>\$/watt</b>	
<b>Streetlights</b>	9	263,583.33	\$ 0.401	\$ 105,696
<b>Total</b>	14,710			<b>\$ 8,816,359</b>

<u>Variable Charges</u>	<u>Annual Day</u>	<u>Annual Night</u>	<u>Day</u>	<u>Night</u>	<u>Total Day</u>	<u>Total Night</u>	<u>Total</u>
	<b>kWHs</b>	<b>kWHs</b>	<b>\$/kWH</b>	<b>\$/kwh</b>	<b>\$</b>	<b>\$</b>	<b>Variable</b>
<b>Domestic, Commercial,</b>							
<b>Unmetered &amp; Streetlights</b>	89,879,841	33,749,526	\$ 0.11591	\$ 0.01340	\$ 10,417,901	\$ 452,089	
<b>10% Fixed Charge Option</b>	12,579,698	4,193,233	\$ 0.19261	\$ 0.02142	\$ 2,422,960	\$ 89,800	
<b>Total Variable Charge</b>					\$ 12,840,861	\$ 541,888	<b>\$ 13,382,749</b>
<b>Total Fixed &amp; Variable</b>							<b>\$ 22,199,108</b>

<u>Bulk &amp; Generator</u>											<b>Total Annual</b>
											<b>Line Charge</b>
<b>Bulk Customers*</b>											
0001995995TGE58											\$ 264,684.44
0001990133TG0E5											\$ 151,253.06
0001990220TG58B											\$ 122,455.02
<b>Generator**</b>											\$ 346,441.64
<b>Half Hour Metered Individual</b>	<b>Units</b>	<b>Fixed</b>	<b>Units</b>	<b>Variable</b>	<b>Units</b>	<b>DP Fixed</b>	<b>Units</b>	<b>DP Variable</b>	<b>Fixed</b>	<b>Variable</b>	<b>Total</b>
0001230940TG858	No ICPs	1	Annual MWh	<b>566</b>	\$/annum	<b>\$ 22,219.45</b>	\$/MWh	<b>\$ 40.97</b>	<b>\$ 22,219.45</b>	<b>\$ 23,191.69</b>	<b>\$ 45,411.14</b>
0001370610TG0A6	No ICPs	1	Annual MWh	<b>67.3</b>	\$/annum	<b>\$ 2,716.19</b>	\$/MWh	<b>\$ 44.94</b>	<b>\$ 2,716.19</b>	<b>\$ 3,024.56</b>	<b>\$ 5,740.75</b>
0001491270TGA81	No ICPs	1	Annual MWh	<b>71</b>	\$/annum	<b>\$ 1,377.07</b>	\$/MWh	<b>\$ 19.17</b>	<b>\$ 1,377.07</b>	<b>\$ 1,360.81</b>	<b>\$ 2,737.88</b>
0001930500TG134	No ICPs	1	Annual MWh	<b>81.3</b>	\$/annum	<b>\$ 1,298.10</b>	\$/MWh	<b>\$ 24.36</b>	<b>\$ 1,298.10</b>	<b>\$ 1,980.73</b>	<b>\$ 3,278.83</b>
0001940350TG583	No ICPs	1	Annual MWh	<b>132.2</b>	\$/annum	<b>\$ 3,073.05</b>	\$/MWh	<b>\$ 23.77</b>	<b>\$ 3,073.05</b>	<b>\$ 3,142.86</b>	<b>\$ 6,215.91</b>
0001940650TG086	No ICPs	1	Annual MWh	<b>352.8</b>	\$/annum	<b>\$ 8,865.59</b>	\$/MWh	<b>\$ 23.81</b>	<b>\$ 8,865.59</b>	<b>\$ 8,398.71</b>	<b>\$ 17,264.31</b>
0001941000TGF28	No ICPs	1	Annual MWh	<b>421.2</b>	\$/annum	<b>\$ 7,105.62</b>	\$/MWh	<b>\$ 17.42</b>	<b>\$ 7,105.62</b>	<b>\$ 7,335.61</b>	<b>\$ 14,441.23</b>
0001950500TG36C	No ICPs	1	Annual MWh	<b>348.1</b>	\$/annum	<b>\$ 2,915.18</b>	\$/MWh	<b>\$ 8.76</b>	<b>\$ 2,915.18</b>	<b>\$ 3,048.56</b>	<b>\$ 5,963.74</b>
0001950850TGE6C	No ICPs	1	Annual MWh	<b>212.8</b>	\$/annum	<b>\$ 6,584.24</b>	\$/MWh	<b>\$ 23.02</b>	<b>\$ 6,584.24</b>	<b>\$ 4,899.35</b>	<b>\$ 11,483.60</b>
0001951200TGDCE	No ICPs	1	Annual MWh	<b>116.5</b>	\$/annum	<b>\$ 4,679.84</b>	\$/MWh	<b>\$ 45.45</b>	<b>\$ 4,679.84</b>	<b>\$ 5,294.49</b>	<b>\$ 9,974.33</b>
0001951790TG72C	No ICPs	1	Annual MWh	<b>431.2</b>	\$/annum	<b>\$ 4,887.42</b>	\$/MWh	<b>\$ 10.78</b>	<b>\$ 4,887.42</b>	<b>\$ 4,648.07</b>	<b>\$ 9,535.48</b>

0001952300TG62A	No ICPs	0	Annual MWh	<b>20.5</b>	\$/annum	\$ 1,265.94	\$/MWh	\$ 61.12	\$ -	\$ -	\$ -
0001952400TG928	No ICPs	1	Annual MWh	<b>183.5</b>	\$/annum	\$ 3,101.30	\$/MWh	\$ 16.41	\$ 3,101.30	\$ 3,012.11	\$ 6,113.41
0002700906TGC46	No ICPs	1	Annual MWh	<b>55.2</b>	\$/annum	\$ 6,306.69	\$/MWh	\$ -	\$ 6,306.69	\$ -	\$ 6,306.69
0002751750TG11E	No ICPs	1	Annual MWh	<b>14.3</b>	\$/annum	\$ 14,272.33	\$/MWh	\$ -	\$ 14,272.33	\$ -	\$ 14,272.33
0002751765TGBA9	No ICPs	1	Annual MWh	<b>170.1</b>	\$/annum	\$ 20,737.12	\$/MWh	\$ -	\$ 20,737.12	\$ -	\$ 20,737.12
0002751858TGC05	No ICPs	1	Annual MWh	<b>0</b>	\$/annum	\$ 8,832.20	\$/MWh	\$ -	\$ 8,832.20	\$ -	\$ 8,832.20
0002781189TG85A	No ICPs	1	Annual MWh	<b>0</b>	\$/annum	\$ 14,636.12	\$/MWh	\$ -	\$ 14,636.12	\$ -	\$ 14,636.12
0003752365TG3F1	No ICPs	1	Annual MWh	<b>134</b>	\$/annum	\$ 4,299.12	\$/MWh	\$ 29.98	\$ 4,299.12	\$ 4,016.86	\$ 8,315.98
0002011523TGC1A	No ICPs	1	Annual MWh	<b>0</b>	\$/annum	\$ 17,321.77	\$/MWh	\$ -	\$ 17,321.77	\$ -	\$ 17,321.77
0001820703TGB7E	No ICPs	1	Annual MWh	<b>274.1</b>	\$/annum	\$ 5,001.35	\$/MWh	\$ 14.13	\$ 5,001.35	\$ 3,873.57	\$ 8,874.92
0001580380TGEBF	No ICPs	1	Annual MWh	<b>27</b>	\$/annum	\$ 2,008.44	\$/MWh	\$ 77.27	\$ 2,008.44	\$ 2,086.26	\$ 4,094.71
0001710106TGF61	No ICPs	1	Annual MWh	<b>40.5</b>	\$/annum	\$ 15,078.21	\$/MWh	\$ -	\$ 15,078.21	\$ -	\$ 15,078.21
0001710108TGCFA	No ICPs	1	Annual MWh	<b>90.9</b>	\$/annum	\$ 28,297.54	\$/MWh	\$ -	\$ 28,297.54	\$ -	\$ 28,297.54
0001731161TG536	No ICPs	1	Annual MWh	<b>202.8</b>	\$/annum	\$ 15,769.50	\$/MWh	\$ -	\$ 15,769.50	\$ -	\$ 15,769.50
0001731175TGE91	No ICPs	1	Annual MWh	<b>306.8</b>	\$/annum	\$ 23,829.64	\$/MWh	\$ -	\$ 23,829.64	\$ -	\$ 23,829.64
0001830497TGE71	No ICPs	1	Annual MWh	<b>130.5</b>	\$/annum	\$ 6,980.98	\$/MWh	\$ 48.97	\$ 6,980.98	\$ 6,390.10	\$ 13,371.08
0001830903TG594	No ICPs	1	Annual MWh	<b>23.1</b>	\$/annum	\$ 2,618.18	\$/MWh	\$ -	\$ 2,618.18	\$ -	\$ 2,618.18
0001940905TGACE	No ICPs	1	Annual MWh	<b>235.8</b>	\$/annum	\$ 3,914.95	\$/MWh	\$ 17.16	\$ 3,914.95	\$ 4,046.15	\$ 7,961.10
0001940907TGA4B	No ICPs	1	Annual MWh	<b>368.7</b>	\$/annum	\$ 9,781.54	\$/MWh	\$ 24.08	\$ 9,781.54	\$ 8,879.53	\$ 18,661.07
0001940910TGD2C	No ICPs	1	Annual MWh	<b>1325.1</b>	\$/annum	\$ 22,207.52	\$/MWh	\$ 16.84	\$ 22,207.52	\$ 22,308.93	\$ 44,516.45
0001951350TGCC2	No ICPs	1	Annual MWh	<b>20.8</b>	\$/annum	\$ 888.67	\$/MWh	\$ 39.91	\$ 888.67	\$ 830.21	\$ 1,718.87
0001952500TG02C	No ICPs	1	Annual MWh	<b>817.1</b>	\$/annum	\$ 9,862.71	\$/MWh	\$ 13.18	\$ 9,862.71	\$ 10,770.83	\$ 20,633.54
0001952510TGA81	No ICPs	1	Annual MWh	<b>269.3</b>	\$/annum	\$ 3,762.38	\$/MWh	\$ 14.62	\$ 3,762.38	\$ 3,936.88	\$ 7,699.26
0002110863TGE7B	No ICPs	1	Annual MWh	<b>79.7</b>	\$/annum	\$ 2,559.48	\$/MWh	\$ 24.93	\$ 2,559.48	\$ 1,986.59	\$ 4,546.07
0003752355TG409	No ICPs	1	Annual MWh	<b>514</b>	\$/annum	\$ 18,107.88	\$/MWh	\$ -	\$ 18,107.88	\$ -	\$ 18,107.88
0001230615TG210	No ICPs	1	Annual MWh	<b>278</b>	\$/annum	\$ 3,913.55	\$/MWh	\$ 13.82	\$ 3,913.55	\$ 3,842.53	\$ 7,756.08
0001450400TGCCA	No ICPs	1	Annual MWh	<b>277.2</b>	\$/annum	\$ 1,844.19	\$/MWh	\$ 6.77	\$ 1,844.19	\$ 1,876.94	\$ 3,721.13
0001731255TG0C7	No ICPs	1	Annual MWh	<b>383.1</b>	\$/annum	\$ 12,005.44	\$/MWh	\$ 27.71	\$ 12,005.44	\$ 10,614.46	\$ 22,619.90
0001730830TG9D2	No ICPs	1	Annual MWh	<b>308.1</b>	\$/annum	\$ 30,234.29	\$/MWh	\$ -	\$ 30,234.29	\$ -	\$ 30,234.29
0002751767TGB2C	No ICPs	0	Annual MWh	<b>0</b>	\$/annum	\$ 27,289.17	\$/MWh	\$ -	\$ -	\$ -	\$ -
0002751847TG976	No ICPs	1	Annual MWh	<b>205.0</b>	\$/annum	\$ 14,700.74	\$/MWh	\$ -	\$ 14,700.74	\$ -	\$ 14,700.74



0001830828TGF11	No ICPs	0	Annual MWh	0	\$/annum	\$ 12,066.12	\$/MWh	\$ -	\$ -	\$ -	\$ -
0001830031TGBE0	No ICPs	0	Annual MWh	0	\$/annum	\$ 6,432.72	\$/MWh	\$ -	\$ -	\$ -	\$ -
0003752380TG404	No ICPs	0	Annual MWh	0	\$/annum	\$ 8,426.99	\$/MWh	\$ -	\$ -	\$ -	\$ -
0002641192TGCF	No ICPs	1	Annual MWh	98.9	\$/annum	\$ 28,311.33	\$/MWh	\$ -	\$ 28,311.33	\$ -	\$ 28,311.33
0002871188TGF9	No ICPs	0	Annual MWh	0	\$/annum	\$ 16,359.22	\$/MWh	\$ -	\$ -	\$ -	\$ -
0001760343TG035	No ICPs	1	Annual MWh	272.6	\$/annum	\$ 5,248.00	\$/MWh	\$ 21.15	\$ 5,248.00	\$ 5,764.57	\$ 11,012.57
0001840612TG6CA	No ICPs	1	Annual MWh	345.7	\$/annum	\$ 10,943.78	\$/MWh	\$ 31.00	\$ 10,943.78	\$ 10,715.22	\$ 21,659.00
0001951600TG1CF	No ICPs	1	Annual MWh	151.2	\$/annum	\$ 1,747.75	\$/MWh	\$ 11.74	\$ 1,747.75	\$ 1,775.45	\$ 3,523.20
0002381026TGF20	No ICPs	1	Annual MWh	756.5	\$/annum	\$ 24,536.91	\$/MWh	\$ 32.71	\$ 24,536.91	\$ 24,741.62	\$ 49,278.53
0001230783TG57C	No ICPs	1	Annual MWh	0	\$/annum	\$ 8,506.84	\$/MWh	\$ 26.39	\$ 8,506.84	\$ -	\$ 8,506.84
0001230785TG4F3	No ICPs	1	Annual MWh	191.2	\$/annum	\$ 3,196.91	\$/MWh	\$ 15.88	\$ 3,196.91	\$ 3,035.77	\$ 6,232.68
0001450225TGAD6	No ICPs	1	Annual MWh	381.8	\$/annum	\$ 2,620.02	\$/MWh	\$ 6.97	\$ 2,620.02	\$ 2,660.05	\$ 5,280.07
0001690827TGC31	No ICPs	1	Annual MWh	77.6	\$/annum	\$ 21,579.02	\$/MWh	\$ -	\$ 21,579.02	\$ -	\$ 21,579.02
0001700063TGC3B	No ICPs	1	Annual MWh	7988.4	\$/annum	\$ 19,316.25	\$/MWh	\$ -	\$ 19,316.25	\$ -	\$ 19,316.25
0001940050TG680	No ICPs	1	Annual MWh	453.7	\$/annum	\$ 10,972.79	\$/MWh	\$ 21.61	\$ 10,972.79	\$ 9,805.01	\$ 20,777.80
0001940060TG178	No ICPs	1	Annual MWh	1770.8	\$/annum	\$ 41,026.82	\$/MWh	\$ 21.36	\$ 41,026.82	\$ 37,828.23	\$ 78,855.05
0001940090TG16F	No ICPs	1	Annual MWh	270.8	\$/annum	\$ 6,368.42	\$/MWh	\$ 22.68	\$ 6,368.42	\$ 6,141.36	\$ 12,509.78
0001951100TGEC	No ICPs	1	Annual MWh	292.9	\$/annum	\$ 5,698.24	\$/MWh	\$ 21.13	\$ 5,698.24	\$ 6,188.46	\$ 11,886.70
0001951500TG2CC	No ICPs	1	Annual MWh	922.8	\$/annum	\$ 5,569.17	\$/MWh	\$ 6.11	\$ 5,569.17	\$ 5,638.81	\$ 11,207.98
0001231005TGF1B	No ICPs	1	Annual MWh	818.7	\$/annum	\$ 25,431.72	\$/MWh	\$ 28.78	\$ 25,431.72	\$ 23,559.46	\$ 48,991.17
0001231172TGE88	No ICPs	1	Annual MWh	1622.8	\$/annum	\$ 36,502.17	\$/MWh	\$ 19.67	\$ 36,502.17	\$ 31,915.40	\$ 68,417.57
0001320515TGD9E	No ICPs	1	Annual MWh	655.4	\$/annum	\$ 10,667.88	\$/MWh	\$ 18.11	\$ 10,667.88	\$ 11,869.84	\$ 22,537.71
0001940095TGC20	No ICPs	1	Annual MWh	190.9	\$/annum	\$ 9,176.94	\$/MWh	\$ 43.60	\$ 9,176.94	\$ 8,323.37	\$ 17,500.31
0001730798TGC6	No ICPs	1	Annual MWh	97.0	\$/annum	\$ 7,486.59	\$/MWh	\$ -	\$ 7,486.59	\$ -	\$ 7,486.59
0001940100TG78C	No ICPs	1	Annual MWh	810.8	\$/annum	\$ 23,523.34	\$/MWh	\$ 26.89	\$ 23,523.34	\$ 21,800.32	\$ 45,323.66
0001940110TGD21	No ICPs	1	Annual MWh	208	\$/annum	\$ 8,399.55	\$/MWh	\$ 37.17	\$ 8,399.55	\$ 7,730.93	\$ 16,130.48
0001951810TGD69	No ICPs	1	Annual MWh	1197.3	\$/annum	\$ 5,225.67	\$/MWh	\$ -	\$ 5,225.67	\$ -	\$ 5,225.67
0001952100TGC2D	No ICPs	1	Annual MWh	75.6	\$/annum	\$ 11,845.67	\$/MWh	\$ 84.21	\$ 11,845.67	\$ 6,365.95	\$ 18,211.61
0001952600TG32F	No ICPs	1	Annual MWh	991.8	\$/annum	\$ 792.66	\$/MWh	\$ -	\$ 792.66	\$ -	\$ 792.66
0001952610TG982	No ICPs	0	Annual MWh	103.1	\$/annum	\$ 767.09	\$/MWh	\$ -	\$ -	\$ -	\$ -
0001090833TG6F1	No ICPs	1	Annual MWh	38.7	\$/annum	\$ 2,621.62	\$/MWh	\$ 59.21	\$ 2,621.62	\$ 2,291.60	\$ 4,913.21

0001230990TG51A	No ICPs	1	Annual MWh	<b>539</b>	\$/annum	<b>\$ 23,532.81</b>	\$/MWh	<b>\$ 35.21</b>	<b>\$ 23,532.81</b>	<b>\$ 18,977.76</b>	<b>\$ 42,510.58</b>	
0001811005TG57F	No ICPs	1	Annual MWh	<b>118.1</b>	\$/annum	<b>\$ 7,478.43</b>	\$/MWh	<b>\$ 77.59</b>	<b>\$ 7,478.43</b>	<b>\$ 9,163.75</b>	<b>\$ 16,642.18</b>	
0001830541TG5B8	No ICPs	1	Annual MWh	<b>4133.1</b>	\$/annum	<b>\$ 194,908.65</b>	\$/MWh	<b>\$ -</b>	<b>\$ 194,908.65</b>	<b>\$ -</b>	<b>\$ 194,908.65</b>	
0001950550TGB64	No ICPs	1	Annual MWh	<b>397.6</b>	\$/annum	<b>\$ 3,947.61</b>	\$/MWh	<b>\$ 9.68</b>	<b>\$ 3,947.61</b>	<b>\$ 3,848.46</b>	<b>\$ 7,796.07</b>	
0001950900TGF60	No ICPs	1	Annual MWh	<b>305.4</b>	\$/annum	<b>\$ 2,872.92</b>	\$/MWh	<b>\$ 9.99</b>	<b>\$ 2,872.92</b>	<b>\$ 3,051.81</b>	<b>\$ 5,924.73</b>	
0001951750TGC3	No ICPs	1	Annual MWh	<b>386.6</b>	\$/annum	<b>\$ 3,372.42</b>	\$/MWh	<b>\$ 8.32</b>	<b>\$ 3,372.42</b>	<b>\$ 3,216.11</b>	<b>\$ 6,588.53</b>	
<b>Total Bulk &amp; Generator</b>											<b>\$ 2,268,065.39</b>	
<b>DP2016*Q2014</b>											<b>\$ 1,034,631.73</b>	<b>\$ 24,467,173</b>

<b>Lakeland Region</b>						
<b>Standard Domestic Fixed Charges</b>						
<b>Capacity</b>		<b>Code</b>	<b>Number</b>	<b>Quantity</b>	<b>\$ per Day</b>	<b>Total</b>
15 kVA	Single phase 63 amp fuse	LD15	0	0	\$0.107	\$0.00
15 kVA	Three phase 20A MCB	LM15	0	0	\$0.107	\$0.00
8 kVA	Single Phase 32A MCB	LD08	0	0	\$0.029	\$0.00
<b>Standard Domestic Variable Charges</b>				<b>Quantity MWh</b>	<b>\$ MWh</b>	
General 24hr	Summer	S24S		0	\$71.728	\$ -
General 24hr	Winter	S24W		0	\$107.949	\$ -
Peak Water	20 Hour Supply	S20C		0	\$49.055	\$ -
Standard Water	16 Hour Supply	S16C		0	\$26.452	\$ -
Night + 5 Hours	13 Hour Supply	S13C		0	\$36.007	\$ -
Night + 3 Hours	11 Hour Supply	S11C		0	\$20.677	\$ -
Night Only	8 Hour Supply	S08C		0	\$9.055	\$ -
<b>Total Standard Domestic</b>						<b>\$0.00</b>
<b>Non-Domestic Fixed Charges</b>						
		<b>Code</b>	<b>Number</b>	<b>Quantity</b>	<b>\$ per Day</b>	<b>Total</b>
1 kVA	Single Phase 5A MCB+	LS001	0	0	\$ 0.4258	\$ -

2 kVA	Single Phase 63 amps++	LS002	0	0	\$ 0.8426	\$ -
8 kVA	Single Phase 32A MCB	LS008	0	0	\$ 0.4847	\$ -
15 kVA	Single Phase 63 amps	LS015	0	0	\$ 0.8368	\$ -
23 kVA	Single Phase 100 amps	LS023	0	0	\$ 1.0562	\$ -
28 kVA	Two Phase	LT028	0	0	\$ 1.2775	\$ -
15 kVA	Three Phase 20A MCB	LT015	0	0	\$ 0.8368	\$ -
24kVA	Three Phase 32A MCB	LT024	0	0	\$ 1.1004	\$ -
41 kVA	Three Phase 63 amps	LT041	0	0	\$ 1.8529	\$ -
69 kVA	Three Phase 100 amps	LT069	0	0	\$ 3.0923	\$ -
103 kVA	Three Phase 150 amps	LT103	0	0	\$ 4.5973	\$ -
138 kVA	Three Phase 200 amps	LT138	0	0	\$ 6.1466	\$ -
172 kVA	Three Phase 250 amps	LT172	0	0	\$ 19.4638	\$ -
207 kVA	Three Phase 300 amps	LT207	0	0	\$ 23.2488	\$ -
276 kVA	Three Phase 400 amps	LT276	0	0	\$ 29.0231	\$ -
<b>Total</b>						\$ -
<b>Non-Domestic Control Period Demand Charges</b>		<b>Code</b>	<b>Number</b>	<b>Quantity</b>	<b>\$/kW</b>	<b>Total</b>
1 kVA	Single Phase 5A MCB+	LS001	0			
2 kVA	Single Phase 63 amps++	LS002	0			
8 kVA	Single Phase 32A MCB	LS008	0	0	\$ 140.82	\$ -
15 kVA	Single Phase 63 amps	LS015	0	0	\$ 140.82	\$ -
23 kVA	Single Phase 100 amps	LS023	0	0	\$ 153.50	\$ -
28 kVA	Two Phase	LT028	0	0	\$ 153.50	\$ -
15 kVA	Three Phase 20A MCB	LT015	0	0	\$ 140.82	\$ -
24kVA	Three Phase 32A MCB	LT024	0	0	\$ 153.50	\$ -
41 kVA	Three Phase 63 amps	LT041	0	0	\$ 153.50	\$ -
69 kVA	Three Phase 100 amps	LT069	0	0	\$ 153.50	\$ -
103 kVA	Three Phase 150 amps	LT103	0	0	\$ 153.50	\$ -
138 kVA	Three Phase 200 amps	LT138	0	0	\$ 153.50	\$ -
172 kVA	Three Phase 250 amps	LT172	0	0	\$ 122.54	\$ -
207 kVA	Three Phase 300 amps	LT207	0	0	\$ 122.54	\$ -
276 kVA	Three Phase 400 amps	LT276	0	0	\$ 122.54	\$ -

<b>Total</b>						\$ -	
<b>Total Non-Domestic Charges</b>						\$ -	
<b>Half Hour Metered Individual</b>							
<b>ICP Number</b>		<b>Code</b>	<b>Number</b>	<b>Quantity (Days)</b>	<b>Fixed Charge per Day</b>	<b>Total</b>	
950315LN40D		LHHR	0	0	\$ 25.32	\$ -	
950320LNEBA		LHHR	0	0	\$ 25.27	\$ -	
950325LN3F5		LHHR	0	0	\$ 139.22	\$ -	
950330LN417		LHHR	0	0	\$ 64.37	\$ -	
950335LN958		LHHR	0	0	\$ 68.72	\$ -	
<b>Total Half Hour Metered Individual</b>						\$ -	
<b>Total Lakeland Region</b>							\$0.00
<b>DP2016*Q2014</b>							\$ 24,467,173

**Clause 11.4 (g) Demonstration of recovery of Pass-through Balance**

**Pass-Through Balance at Assessment Date (31 March 2016):**

<u>Fixed Charges</u>	31-Mar-16	P= 31-3-2016	PTP Fixed Charge	Total Fixed
	Number	Average	Annual	Charge
		kVA	\$/kVA	
<b>Domestic</b>	7,058	10	\$ 8.20	\$ 578,698
			<b>\$/day</b>	
<b>10% Fixed Charge Option Off Peak</b>	3,329	1	\$ 0.020	\$ 24,818
<b>10% Fixed Charge Option Peak</b>	937	1	\$ 0.020	\$ 6,982
			<b>Rate</b>	
			<b>\$/kVA</b>	
<b>Commercial</b>	3,364	17.53	\$ 11.99	\$ 706,923
<b>Unmetered</b>	94	1	\$ 33.72	\$ 3,170
			<b>Watts</b>	
			<b>\$/watt</b>	
<b>Streetlights</b>	9	264,533.33	\$ 0.063	\$ 16,666
<b>Total</b>	14,791			<b>\$ 1,337,257</b>

<u>Variable Charges</u>	Annual Day	Annual Night	Day	Night	Total Day	Total Night	Total
	kWHs	kWHs	\$/kWH	\$/kwh	\$	\$	Variable
<b>Domestic, Commercial,</b>							
<b>Unmetered &amp; Streetlights</b>	88,436,185	33,638,387	\$ 0.01821	\$ 0.00210	\$ 1,610,493	\$ 70,795	

	-	-					
<b>10% Fixed Charge Option</b>	16,444,441	5,481,480	\$ 0.03026	\$ 0.00336	\$ 497,630	\$ 18,443	
<b>Total Variable Charge</b>					\$ 2,108,123	\$ 89,238	<b>\$ 2,197,361</b>
<b>Total Fixed &amp; Variable</b>							<b>\$ 3,534,618</b>

<b>Bulk &amp; Generator</b>			<b>Total Annual</b>								
			<b>Line Charge</b>								
<b>Bulk Customers*</b>											
0001995995TGE58			\$ 2,843,422.30								
0001990133TG0E5			\$ 206,878.31								
0001990220TG58B			\$ 682,898.09								
<b>Generator**</b>			\$ 21,896.79								
<b>Half Hour Metered Individual</b>	<b>Units</b>	<b>Fixed</b>	<b>Units</b>	<b>Variable</b>	<b>Units</b>	<b>PTP Fixed</b>	<b>Units</b>	<b>PTP Variable</b>	<b>Fixed</b>	<b>Variable</b>	<b>Total</b>
0001700063TGC3B	No ICPs	1	Annual MWh	<b>1384.0</b>	\$/annum	\$ 114,154.91	\$/MWh	\$ -	\$ 114,154.91	\$ -	\$ 114,154.91
0002381026TGF20	No ICPs	1	Annual MWh	<b>770.4</b>	\$/annum	\$ 11,699.05	\$/MWh	\$ 15.56	\$ 11,699.05	\$ 11,986.18	\$ 23,685.24
0001820703TGB7E	No ICPs	1	Annual MWh	<b>351.8</b>	\$/annum	\$ 5,652.54	\$/MWh	\$ 15.87	\$ 5,652.54	\$ 5,582.30	\$ 11,234.84
0001950550TGB64	No ICPs	1	Annual MWh	<b>432.1</b>	\$/annum	\$ 9,975.88	\$/MWh	\$ 24.31	\$ 9,975.88	\$ 10,504.80	\$ 20,480.68
0001952300TG62A	No ICPs	1	Annual MWh	<b>6.5</b>	\$/annum	\$ 1,239.32	\$/MWh	\$ 140.34	\$ 1,239.32	\$ 910.24	\$ 2,149.56
0001952400TG928	No ICPs	1	Annual MWh	<b>125.8</b>	\$/annum	\$ 4,186.73	\$/MWh	\$ 21.94	\$ 4,186.73	\$ 2,759.47	\$ 6,946.20
0001951600TG1CF	No ICPs	1	Annual MWh	<b>151.8</b>	\$/annum	\$ 5,204.77	\$/MWh	\$ 34.51	\$ 5,204.77	\$ 5,237.06	\$ 10,441.83
0001450400TGCCA	No ICPs	1	Annual MWh	<b>328.6</b>	\$/annum	\$ 4,787.89	\$/MWh	\$ 17.35	\$ 4,787.89	\$ 5,701.76	\$ 10,489.66
0001840612TG6CA	No ICPs	1	Annual MWh	<b>367.4</b>	\$/annum	\$ 6,076.36	\$/MWh	\$ 17.13	\$ 6,076.36	\$ 6,294.77	\$ 12,371.13
0001930500TG134	No ICPs	1	Annual MWh	<b>61.7</b>	\$/annum	\$ 1,767.29	\$/MWh	\$ 32.40	\$ 1,767.29	\$ 1,999.98	\$ 3,767.26
0002700906TGC46	No ICPs	1	Annual MWh	<b>120.8</b>	\$/annum	\$ 5,498.76	\$/MWh	\$ -	\$ 5,498.76	\$ -	\$ 5,498.76
0001950850TGE6C	No ICPs	1	Annual MWh	<b>307.8</b>	\$/annum	\$ 16,828.23	\$/MWh	\$ 58.63	\$ 16,828.23	\$ 18,044.42	\$ 34,872.65
0001940650TG086	No ICPs	1	Annual MWh	<b>330.6</b>	\$/annum	\$ 10,899.07	\$/MWh	\$ 29.16	\$ 10,899.07	\$ 9,641.99	\$ 20,541.06
0001951790TG72C	No ICPs	1	Annual MWh	<b>477.2</b>	\$/annum	\$ 13,946.98	\$/MWh	\$ 30.61	\$ 13,946.98	\$ 14,608.80	\$ 28,555.78

0001941000TGF28	No ICPs	1	Annual MWh	<b>460.9</b>	\$/annum	\$ 13,052.68	\$/MWh	\$ 31.87	\$ 13,052.68	\$ 14,687.70	\$ 27,740.38
0002751765TGBA9	No ICPs	1	Annual MWh	<b>12.9</b>	\$/annum	\$ 9,872.65	\$/MWh	\$ -	\$ 9,872.65	\$ -	\$ 9,872.65
0002751750TG11E	No ICPs	1	Annual MWh	<b>80.7</b>	\$/annum	\$ 6,019.27	\$/MWh	\$ -	\$ 6,019.27	\$ -	\$ 6,019.27
0001940090TG16F	No ICPs	1	Annual MWh	<b>265.6</b>	\$/annum	\$ 5,376.26	\$/MWh	\$ 19.03	\$ 5,376.26	\$ 5,054.19	\$ 10,430.44
0001690827TGC31	No ICPs	1	Annual MWh	<b>66.2</b>	\$/annum	\$ 18,319.50	\$/MWh	\$ -	\$ 18,319.50	\$ -	\$ 18,319.50
0001940060TG178	No ICPs	1	Annual MWh	<b>1592.3</b>	\$/annum	\$ 30,389.84	\$/MWh	\$ 15.81	\$ 30,389.84	\$ 25,170.27	\$ 55,560.11
0001940050TG680	No ICPs	1	Annual MWh	<b>428.6</b>	\$/annum	\$ 8,447.54	\$/MWh	\$ 16.58	\$ 8,447.54	\$ 7,105.23	\$ 15,552.77
0001940907TGA4B	No ICPs	1	Annual MWh	<b>406.5</b>	\$/annum	\$ 14,923.13	\$/MWh	\$ 36.63	\$ 14,923.13	\$ 14,890.75	\$ 29,813.88
0001940910TGD2C	No ICPs	1	Annual MWh	<b>1243.8</b>	\$/annum	\$ 26,407.83	\$/MWh	\$ 19.99	\$ 26,407.83	\$ 24,865.08	\$ 51,272.91
0001940905TGACE	No ICPs	1	Annual MWh	<b>196.9</b>	\$/annum	\$ 4,205.88	\$/MWh	\$ 18.28	\$ 4,205.88	\$ 3,598.58	\$ 7,804.46
0002110863TGE7B	No ICPs	1	Annual MWh	<b>129.3</b>	\$/annum	\$ 2,575.83	\$/MWh	\$ 24.75	\$ 2,575.83	\$ 3,198.34	\$ 5,774.18
0001760343TG035	No ICPs	1	Annual MWh	<b>271.8</b>	\$/annum	\$ 5,158.46	\$/MWh	\$ 20.65	\$ 5,158.46	\$ 5,612.20	\$ 10,770.66
0001760342TGC70	No ICPs	0	Annual MWh		\$/annum	\$ 1,228.11	\$/MWh	\$ 20.87	\$ -	\$ -	\$ -
0001950900TGF60	No ICPs	1	Annual MWh	<b>290.7</b>	\$/annum	\$ 4,866.41	\$/MWh	\$ 16.76	\$ 4,866.41	\$ 4,872.38	\$ 9,738.79
0001230940TG858	No ICPs	1	Annual MWh	<b>554.1</b>	\$/annum	\$ 19,512.11	\$/MWh	\$ 35.92	\$ 19,512.11	\$ 19,902.64	\$ 39,414.75
0001320515TGD9E	No ICPs	1	Annual MWh	<b>928.7</b>	\$/annum	\$ 24,799.90	\$/MWh	\$ 42.00	\$ 24,799.90	\$ 39,008.88	\$ 63,808.78
0001952610TG982	No ICPs	1	Annual MWh	<b>0</b>	\$/annum	\$ 212.57	\$/MWh	\$ -	\$ 212.57	\$ -	\$ 212.57
0001952600TG32F	No ICPs	0	Annual MWh	<b>0</b>	\$/annum	\$ 479.35	\$/MWh	\$ -	\$ -	\$ -	\$ -
0001951500TG2CC	No ICPs	1	Annual MWh	<b>954.6</b>	\$/annum	\$ 16,140.52	\$/MWh	\$ 17.63	\$ 16,140.52	\$ 16,834.46	\$ 32,974.98
0001940350TG583	No ICPs	1	Annual MWh	<b>130.7</b>	\$/annum	\$ 3,413.92	\$/MWh	\$ 26.13	\$ 3,413.92	\$ 3,415.57	\$ 6,829.49
0001950500TG36C	No ICPs	1	Annual MWh	<b>311.4</b>	\$/annum	\$ 10,317.67	\$/MWh	\$ 30.76	\$ 10,317.67	\$ 9,578.40	\$ 19,896.07
0001952500TG02C	No ICPs	1	Annual MWh	<b>729.1</b>	\$/annum	\$ 20,308.46	\$/MWh	\$ 27.07	\$ 20,308.46	\$ 19,736.73	\$ 40,045.19
0001952510TGA81	No ICPs	1	Annual MWh	<b>239.7</b>	\$/annum	\$ 9,562.26	\$/MWh	\$ 36.91	\$ 9,562.26	\$ 8,847.84	\$ 18,410.11
0001951750TG0C3	No ICPs	1	Annual MWh	<b>367.7</b>	\$/annum	\$ 8,934.02	\$/MWh	\$ 21.88	\$ 8,934.02	\$ 8,044.74	\$ 16,978.76
0001951100TGECD	No ICPs	1	Annual MWh	<b>343.8</b>	\$/annum	\$ 5,550.97	\$/MWh	\$ 20.45	\$ 5,550.97	\$ 7,032.99	\$ 12,583.95
0001951200TGDCE	No ICPs	1	Annual MWh	<b>112.5</b>	\$/annum	\$ 6,322.46	\$/MWh	\$ 61.00	\$ 6,322.46	\$ 6,859.73	\$ 13,182.19
0001940110TGD21	No ICPs	1	Annual MWh	<b>167.6</b>	\$/annum	\$ 7,615.26	\$/MWh	\$ 33.55	\$ 7,615.26	\$ 5,623.71	\$ 13,238.97
0001940100TG78C	No ICPs	1	Annual MWh	<b>789.5</b>	\$/annum	\$ 14,975.95	\$/MWh	\$ 17.08	\$ 14,975.95	\$ 13,487.80	\$ 28,463.75
0001450225TGAD6	No ICPs	1	Annual MWh	<b>403.2</b>	\$/annum	\$ 8,038.49	\$/MWh	\$ 21.19	\$ 8,038.49	\$ 8,542.70	\$ 16,581.19
0001951810TGD69	No ICPs	1	Annual MWh	<b>0.0</b>	\$/annum	\$ 2,145.87	\$/MWh	\$ -	\$ 2,145.87	\$ -	\$ 2,145.87
0001951350TGCC2	No ICPs	1	Annual MWh	<b>24.2</b>	\$/annum	\$ 445.30	\$/MWh	\$ 18.84	\$ 445.30	\$ 455.27	\$ 900.56

0001811005TG57F	No ICPs	1	Annual MWh	<b>107.8</b>	\$/annum	\$ 4,276.81	\$/MWh	\$ 44.09	\$ 4,276.81	\$ 4,753.35	\$ 9,030.16
0001830828TGF11	No ICPs	1	Annual MWh	<b>58.3</b>	\$/annum	\$ 5,829.76	\$/MWh	\$ -	\$ 5,829.76	\$ -	\$ 5,829.76
0002751858TGC05	No ICPs	1	Annual MWh	<b>51.3</b>	\$/annum	\$ 8,781.51	\$/MWh	\$ -	\$ 8,781.51	\$ -	\$ 8,781.51
0001830031TGBE0	No ICPs	1	Annual MWh	<b>69.4</b>	\$/annum	\$ 9,901.60	\$/MWh	\$ -	\$ 9,901.60	\$ -	\$ 9,901.60
0001230785TG4F3	No ICPs	1	Annual MWh	<b>224.7</b>	\$/annum	\$ 4,753.00	\$/MWh	\$ 23.39	\$ 4,753.00	\$ 5,255.89	\$ 10,008.89
0001230783TG57C	No ICPs	1	Annual MWh	<b>322.5</b>	\$/annum	\$ 17,083.99	\$/MWh	\$ 52.84	\$ 17,083.99	\$ 17,038.85	\$ 34,122.84
0001230615TG210	No ICPs	1	Annual MWh	<b>336.5</b>	\$/annum	\$ 4,595.39	\$/MWh	\$ 16.10	\$ 4,595.39	\$ 5,417.07	\$ 10,012.45
0001230990TG51A	No ICPs	1	Annual MWh	<b>784.5</b>	\$/annum	\$ 20,346.33	\$/MWh	\$ 30.39	\$ 20,346.33	\$ 23,844.18	\$ 44,190.51
0001491270TGA81	No ICPs	1	Annual MWh	<b>80.2</b>	\$/annum	\$ 3,765.94	\$/MWh	\$ 51.52	\$ 3,765.94	\$ 4,130.89	\$ 7,896.84
0002751847TG976	No ICPs	1	Annual MWh	<b>235.1</b>	\$/annum	\$ 9,375.18	\$/MWh	\$ -	\$ 9,375.18	\$ -	\$ 9,375.18
0002751767TGB2C	No ICPs	1	Annual MWh	<b>139.5</b>	\$/annum	\$ 10,316.41	\$/MWh	\$ -	\$ 10,316.41	\$ -	\$ 10,316.41
0001730830TG9D2	No ICPs	1	Annual MWh	<b>578.7</b>	\$/annum	\$ 28,633.19	\$/MWh	\$ -	\$ 28,633.19	\$ -	\$ 28,633.19
0003752355TG409	No ICPs	1	Annual MWh	<b>520.5</b>	\$/annum	\$ 13,194.50	\$/MWh	\$ -	\$ 13,194.50	\$ -	\$ 13,194.50
0003752380TG404	No ICPs	1	Annual MWh	<b>104.4</b>	\$/annum	\$ 10,316.41	\$/MWh	\$ -	\$ 10,316.41	\$ -	\$ 10,316.41
0001730798TGC6D	No ICPs	1	Annual MWh	<b>6.9</b>	\$/annum	\$ 5,716.52	\$/MWh	\$ -	\$ 5,716.52	\$ -	\$ 5,716.52
0001231172TGE88	No ICPs	1	Annual MWh	<b>2005.0</b>	\$/annum	\$ 35,372.64	\$/MWh	\$ 19.04	\$ 35,372.64	\$ 38,174.05	\$ 73,546.69
0001090833TG6F1	No ICPs	1	Annual MWh	<b>41.7</b>	\$/annum	\$ 3,681.73	\$/MWh	\$ 82.21	\$ 3,681.73	\$ 3,428.77	\$ 7,110.50
0001830541TG8B8	No ICPs	1	Annual MWh	<b>5741.4</b>	\$/annum	\$ 135,557.62	\$/MWh	\$ -	\$ 135,557.62	\$ -	\$ 135,557.62
0001952100TGC2D	No ICPs	1	Annual MWh	<b>616.2</b>	\$/annum	\$ 28,067.80	\$/MWh	\$ -	\$ 28,067.80	\$ -	\$ 28,067.80
0001731175TGE91	No ICPs	1	Annual MWh	<b>335.0</b>	\$/annum	\$ 11,200.61	\$/MWh	\$ -	\$ 11,200.61	\$ -	\$ 11,200.61
0002781189TG85A	No ICPs	1	Annual MWh	<b>103.1</b>	\$/annum	\$ 7,216.50	\$/MWh	\$ -	\$ 7,216.50	\$ -	\$ 7,216.50
0001731161TG536	No ICPs	1	Annual MWh	<b>213.2</b>	\$/annum	\$ 8,204.76	\$/MWh	\$ -	\$ 8,204.76	\$ -	\$ 8,204.76
0001731255TG0C7	No ICPs	1	Annual MWh	<b>417.9</b>	\$/annum	\$ 6,695.05	\$/MWh	\$ 15.39	\$ 6,695.05	\$ 6,430.76	\$ 13,125.82
0001370610TG0A6	No ICPs	1	Annual MWh	<b>52.9</b>	\$/annum	\$ 4,238.10	\$/MWh	\$ 69.39	\$ 4,238.10	\$ 3,668.34	\$ 7,906.44
0001710108TGCFA	No ICPs	1	Annual MWh	<b>140.9</b>	\$/annum	\$ 5,242.89	\$/MWh	\$ -	\$ 5,242.89	\$ -	\$ 5,242.89
0001710106TGF61	No ICPs	1	Annual MWh	<b>58.2</b>	\$/annum	\$ 3,198.34	\$/MWh	\$ -	\$ 3,198.34	\$ -	\$ 3,198.34
0002641192TG0CF	No ICPs	1	Annual MWh	<b>203.7</b>	\$/annum	\$ 7,784.27	\$/MWh	\$ -	\$ 7,784.27	\$ -	\$ 7,784.27
0001830903TG594	No ICPs	1	Annual MWh	<b>20.3</b>	\$/annum	\$ 281.20	\$/MWh	\$ -	\$ 281.20	\$ -	\$ 281.20
0001580380TGE8F	No ICPs	1	Annual MWh	<b>24.6</b>	\$/annum	\$ 1,606.74	\$/MWh	\$ 60.61	\$ 1,606.74	\$ 1,489.47	\$ 3,096.20
0001830497TGE71	No ICPs	1	Annual MWh	<b>181.4</b>	\$/annum	\$ 3,050.96	\$/MWh	\$ 21.22	\$ 3,050.96	\$ 3,850.79	\$ 6,901.76
0002011523TGC1A	No ICPs	1	Annual MWh	<b>278.9</b>	\$/annum	\$ 5,871.71	\$/MWh	\$ -	\$ 5,871.71	\$ -	\$ 5,871.71



0001231005TGF1B	No ICPs	1	Annual MWh	<b>973.2</b>	\$/annum	\$ 45,506.74	\$/MWh	\$ 51.44	\$ 45,506.74	\$ 50,056.57	\$ 95,563.31
0002871188TGFF9	No ICPs	1	Annual MWh	<b>98.2</b>	\$/annum	\$ 6,543.45	\$/MWh	\$ -	\$ 6,543.45	\$ -	\$ 6,543.45
0001940095TGC20	No ICPs	1	Annual MWh	<b>184.0</b>	\$/annum	\$ 4,858.11	\$/MWh	\$ 22.95	\$ 4,858.11	\$ 4,224.12	\$ 9,082.23
0003752365TG3F1	No ICPs	1	Annual MWh	<b>131.3</b>	\$/annum	\$ 3,605.38	\$/MWh	\$ 24.92	\$ 3,605.38	\$ 3,270.52	\$ 6,875.90
0001950800TG664	No ICPs	1	Annual MWh	<b>364.5</b>	\$/annum	\$ 7,960.96	\$/MWh	\$ 27.77	\$ 7,960.96	\$ 10,124.72	\$ 18,085.69
0001520870TGB4E	No ICPs	1	Annual MWh	<b>30.9</b>	\$/annum	\$ 2,974.08	\$/MWh	\$ 64.56	\$ 2,974.08	\$ 1,993.39	\$ 4,967.47
0001730881TG725	No ICPs	1	Annual MWh	<b>101.1</b>	\$/annum	\$ 4,812.46	\$/MWh	\$ -	\$ 4,812.46	\$ -	\$ 4,812.46
0001120438TGE4C	No ICPs	1	Annual MWh	<b>86.8</b>	\$/annum	\$ 2,990.11	\$/MWh	\$ -	\$ 2,990.11	\$ -	\$ 2,990.11
0001321124TGB82	No ICPs	1	Annual MWh	<b>0.0</b>	\$/annum	\$ 963.04	\$/MWh	\$ -	\$ 963.04	\$ -	\$ 963.04
<b>Total Bulk &amp; Generator</b>						\$ 1,025,908.03					\$ 5,336,145.77

<b>Lakeland Region</b>						
<b>Standard Domestic Fixed Charges</b>						
<b>Capacity</b>		<b>Code</b>	<b>Number</b>	<b>Quantity</b>	<b>\$ per Day</b>	<b>Total</b>
15 kVA	Single phase 63 amp fuse	LD15	248	366	\$0.0430	\$3,906.11
15 kVA	Three phase 20A MCB	LM15	1	366	\$0.0430	\$15.75
8 kVA	Single Phase 32A MCB	LD08	1	366	\$0.0118	\$4.32
<b>Standard Domestic Variable Charges</b>				<b>Quantity MWh</b>	<b>\$ MWh</b>	
General 24hr	Summer	S24S		516.415	\$ 28.8720	\$ 14,909.93
General 24hr	Winter	S24W		571.048	\$ 43.4515	\$ 24,812.89
Peak Water	20 Hour Supply	S20C		10.269	\$ 19.7455	\$ 202.77
Standard Water	16 Hour Supply	S16C		320.594	\$ 10.6476	\$ 3,413.56
Night + 5 Hours	13 Hour Supply	S13C		0	\$ 14.4934	\$ -
Night + 3 Hours	11 Hour Supply	S11C		0	\$ 8.3229	\$ -
Night Only	8 Hour Supply	S08C		8.364	\$ 3.6449	\$ 30.49

<b>Total Standard Domestic</b>						<b>\$47,295.81</b>
<b>Non-Domestic Fixed Charges</b>		<b>Code</b>	<b>Number</b>	<b>Quantity</b>	<b>\$ per Day</b>	<b>Total</b>
1 kVA	Single Phase 5A MCB+	LS001	3	366	\$ 0.17	\$ 188.17
2 kVA	Single Phase 63 amps++	LS002	0	366	\$ 0.34	\$ -
8 kVA	Single Phase 32A MCB	LS008	24	366	\$ 0.20	\$ 1,713.93
15 kVA	Single Phase 63 amps	LS015	60	366	\$ 0.34	\$ 7,397.03
23 kVA	Single Phase 100 amps	LS023	2	366	\$ 0.43	\$ 311.19
28 kVA	Two Phase	LT028	0	366	\$ 0.51	\$ -
15 kVA	Three Phase 20A MCB	LT015	5	366	\$ 0.34	\$ 616.42
24kVA	Three Phase 32A MCB	LT024	11	366	\$ 0.44	\$ 1,783.29
41 kVA	Three Phase 63 amps	LT041	61	366	\$ 0.75	\$ 16,651.64
69 kVA	Three Phase 100 amps	LT069	20	366	\$ 1.24	\$ 9,111.42
103 kVA	Three Phase 150 amps	LT103	6	366	\$ 1.85	\$ 4,063.75
138 kVA	Three Phase 200 amps	LT138	4	366	\$ 2.47	\$ 3,622.13
172 kVA	Three Phase 250 amps	LT172	0	366	\$ 7.83	\$ -
207 kVA	Three Phase 300 amps	LT207	0	366	\$ 9.36	\$ -
276 kVA	Three Phase 400 amps	LT276	4	366	\$ 11.68	\$ 17,103.00
<b>Total</b>						<b>\$ 62,561.98</b>
<b>Non-Domestic Control Period Demand Charges</b>		<b>Code</b>	<b>Number</b>	<b>Quantity</b>	<b>\$/kW</b>	<b>Total</b>
1 kVA	Single Phase 5A MCB+	LS001	3			
2 kVA	Single Phase 63 amps++	LS002	0			
8 kVA	Single Phase 32A MCB	LS008	24	1.11	\$ 56.68	\$ 1,510.01
15 kVA	Single Phase 63 amps	LS015	60	1.86	\$ 56.68	\$ 6,325.72
23 kVA	Single Phase 100 amps	LS023	2	3.33	\$ 61.78	\$ 411.49
28 kVA	Two Phase	LT028	0	0	\$ 61.78	\$ -
15 kVA	Three Phase 20A MCB	LT015	5	1.28	\$ 56.68	\$ 362.77
24kVA	Three Phase 32A MCB	LT024	11	2	\$ 61.78	\$ 1,359.27
41 kVA	Three Phase 63 amps	LT041	61	5.44	\$ 61.78	\$ 20,502.71
69 kVA	Three Phase 100 amps	LT069	20	12.28	\$ 61.78	\$ 15,174.38
103 kVA	Three Phase 150 amps	LT103	6	19.56	\$ 61.78	\$ 7,251.08

138 kVA	Three Phase 200 amps	LT138	4	25.3	\$ 61.78	\$ 6,252.63	
172 kVA	Three Phase 250 amps	LT172	0	0	\$ 49.32	\$ -	
207 kVA	Three Phase 300 amps	LT207	0	0	\$ 49.32	\$ -	
276 kVA	Three Phase 400 amps	LT276	4	82.96	\$ 49.32	\$ 16,367.50	
<b>Total</b>						<b>\$ 75,517.55</b>	
<b>Total Non-Domestic Charges</b>						<b>\$ 138,079.53</b>	
<b>Half Hour Metered Individual</b>							
<b>ICP Number</b>		<b>Code</b>	<b>Number</b>	<b>Quantity (Days)</b>	<b>Fixed Charge per Day</b>	<b>Total</b>	
0000950315LN40D		LHHR	1	366	\$ 17.26	\$ 6,318.62	
0000950320LNEBA		LHHR	1	366	\$ 17.60	\$ 6,440.75	
0000950325LN3F5		LHHR	1	366	\$ 235.74	\$ 86,279.10	
0000950330LN417		LHHR	1	366	\$ 47.88	\$ 17,525.17	
0000950335LN958		LHHR	1	366	\$ 60.77	\$ 22,241.60	
950934LNF17		LHHR	1	91	\$ 55.40	\$ 5,041.61	
950934LNF17		LHHR	1	275	\$ 16.30	\$ 4,483.68	
0000959005LN103		LHHR	1	180	\$ 67.49	\$ 12,148.40	
<b>Total Half Hour Metered Individual</b>						<b>\$ 160,478.92</b>	
<b>Total Lakeland Region</b>							<b>\$345,854.27</b>
<b>PTP2016*Q2016</b>							<b>\$9,216,617.80</b>

**Appendix D – Transmission Assets, Transactions and Restructuring of Prices (Clauses 11.2(d) and 11.6 – 11.8)**

**Clauses 11.2(d)(i), 11.7 and 11.8** – OtagoNet Joint Venture did not undertake a Restructure of its Prices that first applied during the current or preceding Assessment Period and therefore clauses 8.7 - 8.10 did not apply during the Assessment Period.

**Clause 11.2(d)(ii)** – OtagoNet Joint Venture did not receive a transfer of transmission assets from Transpower that became system fixed assets, or transferred system fixed assets to Transpower during the Assessment Period.

**Clauses 11.2(d)(iii)-(iv) and 11.6** – OtagoNet Joint Venture did not participate in an Amalgamation, a Merger or Major Transaction for the Assessment Period. Clauses 10.1 – 10.4 therefore did not apply for the Assessment Period.

## Appendix E – Quality Standard Compliance and Incentive (Clause 11.5(c), (d) and (f))

### Quality Standard Compliance Calculations

#### Reliability Limits and Boundary Values

<b>SAIDI and SAIFI Limits</b>	
SAIDI Limit <i>2015-2020 regulatory period</i>	254.915
SAIFI Limit <i>2015-2020 regulatory period</i>	2.927
SAIDI Unplanned Boundary Value <i>2015-2020 regulatory period</i>	13.241
SAIFI Unplanned Boundary Value <i>2015-2020 regulatory period</i>	0.176
SAIDI Limit <i>2010-2015 regulatory period</i>	361.075
SAIFI Limit <i>2010-2015 regulatory period</i>	3.120

#### Reliability Assessment Calculations (2016 Assessment Period)

<b>SAIDI Assessed Values</b>					
<i>Raw data</i>			<i>Adjusted data</i>		
$SAIDI_B$	Planned SAIDI	80.868	$SAIDI_B$	Planned SAIDI multiplied by 0.5	40.434
$SAIDI_C$	Unplanned SAIDI	283.035	$SAIDI_C$	Normalised unplanned SAIDI	182.710
			$SAIDI_{Assess (B+C)}$		223.144

**SAIFI Assessed Values**

*Raw data*

$SAIFI_B$	Planned SAIFI	0.334
$SAIFI_C$	Unplanned SAIFI	3.027

*Adjusted data*

$SAIFI_B$	Planned SAIFI multiplied by 0.5	0.167
$SAIFI_C$	Normalised unplanned SAIFI	2.650

$SAIFI_{Assess (B+C)}$	2.817
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**Normalisation**

***Days exceeding SAIDI Boundary Value within the 2015/16 Assessment Dataset***

Date	Pre-Normalised unplanned SAIDI	Normalised unplanned SAIDI
12-Jun-15	14.570	13.241
4-Oct-15	68.140	13.241
10-Mar-16	57.344	13.241

***Days exceeding SAIFI Boundary Value within the 2015/16 Assessment Dataset***

Date	Pre-Normalised unplanned SAIFI	Normalised unplanned SAIFI
12-Sep-15	0.215	0.176
4-Oct-15	0.183	0.176
10-Mar-16	0.509	0.176

## Prior Period Assessed Values

<b>Assessed SAIDI Value 2014/15</b>		
SAIDI <sub>2014/15</sub>	353.210	The sum of daily SAIDI Values in the 1 April 2014 - 31 March 2015 Normalised Assessment Dataset
<b>Assessed SAIFI Value 2014/15</b>		
SAIFI <sub>2014/15</sub>	3.270	The sum of daily SAIFI Values in the 1 April 2014 - 31 March 2015 Normalised Assessment Dataset
<b>Assessed SAIDI Value 2013/14</b>		
SAIDI <sub>2013/14</sub>	348.150	The sum of daily SAIDI Values in the 1 April 2013 - 31 March 2014 Normalised Assessment Dataset
<b>Assessed SAIFI Value 2013/14</b>		
SAIFI <sub>2013/14</sub>	2.950	The sum of daily SAIFI Values in the 1 April 2013 - 31 March 2014 Normalised Assessment Dataset

## Quality Incentive Calculations

### Quality Incentive Adjustment (2016 Assessment Period)

Quality Incentive Adjustment		
Term	Description	Value \$
$S_{SAIDI}$	SAIDI incentive	5,854
$S_{SAIFI}$	SAIFI incentive	-90,023
$S_{TOTAL}$	SAIDI incentive plus SAIFI incentive	-84,169

<b>SAIDI Incentive</b>		
<b>Term</b>	<b>Description</b>	<b>Value</b>
<i>SAIDI Target</i>	SAIDI target specified in DPP Determination	224.5773
<i>SAIDI Collar</i>	SAIDI incentive range collar specified in DPP Determination	194.2394
<i>SAIDI Cap</i>	SAIDI incentive range cap specified in DPP Determination	254.9153
<i>MAR</i>	Maximum allowable revenue for the 2015/16 year	\$24,780,000
<i>REV<sub>RISK</sub></i>	Revenue at risk (equal to 1% of MAR)	\$247,800
<i>SAIDI<sub>IR</sub></i>	SAIDI incentive rate per unit (equal to 50% of revenue at risk divided by Cap minus Target)	\$4,084
<i>SAIDI<sub>ASSESS</sub></i>	Assessed SAIDI value for purpose of incentive	223.144
<i>S<sub>SAIDI</sub></i>	SAIDI incentive adjustment (equal to incentive rate multiplied by SAIDI target minus Assessed SAIDI value)	\$5,854

### **SAIFI Incentive**

<b>SAIFI Incentive</b>		
<b>Term</b>	<b>Description</b>	<b>Value</b>
<i>SAIFI Target</i>	SAIFI target specified in DPP Determination	2.5239
<i>SAIFI Collar</i>	SAIFI incentive range collar specified in DPP Determination	2.1204
<i>SAIFI Cap</i>	SAIFI incentive range cap specified in DPP Determination	2.9273
<i>MAR</i>	Maximum allowable revenue for the 2015/16 year	\$24,780,000
<i>REV<sub>RISK</sub></i>	Revenue at (equal to 1% of MAR)	\$247,800
<i>SAIFI<sub>IR</sub></i>	SAIFI incentive rate per unit (equal to 50% of revenue at risk divided by Cap minus Target)	\$307,139
<i>SAIFI<sub>ASSESS</sub></i>	Assessed SAIFI value for purpose of incentive	2.8170
<i>S<sub>SAIFI</sub></i>	SAIFI incentive adjustment (equal to incentive rate multiplied by SAIFI target minus Assessed SAIFI value)	-\$90,023

Clause 11.5 (f)



## Causes of Major Event Days

Following are the dates when major event days occurred with a description of the cause:

- 12 June 2015 - 33kV line spacer faulty
- 4 October 2015 - High wind
- 10 March 2016 - High wind
- 12 September 2015 - CB tripped, fire under the circuit

## **Appendix F – Policies and Procedures for Recording SAIDI and SAIFI (Clause 11.5(e))**

OJV contracts PowerNet to manage its network via an Outsourcing Agreement.

PowerNet has a number of ISO 9002 procedures that govern the operational processes that surround the interruption, restoration and quality of supply to its customers. These procedures document the process by which managing, recording and reporting of outages is performed by PowerNet. This is carried out by following a series of flow charts, documents, forms and instructions contained within the following procedures:

PNM 65 – Planned Outages

PNM 69 – Network Faults, Defects and Supply Complaints

PNM 71 – Use of Operating Orders

Key items within these procedures that relate to the recording and reporting of SAIDI and SAIFI statistics include:

- Responsibilities for recording faults and outages at the system control operator level through to reviewing and reporting of faults and outages daily by management, weekly at operations meetings and monthly at board meetings.
- Methods by which notification of planned and unplanned outages are identified and captured from various sources such as customers, network equipment, contractors, Transpower, the public or emergency services.
- The use of Operating Orders for planned maintenance and unplanned fault restoration and how the information from these orders flow through to the Outage Reporting System in the form of duration of outages and number of customers affected.
- The recording of all faults and outages, however for the reporting of SAIDI and SAIFI only the inclusion of outages of a duration exceeding one minute or affecting more than three customers is recorded.
- The method of calculating SAIDI and SAIFI for outages which are progressively restored.
- The preparation, retention and archiving of supporting records and data.

PowerNet interprets an “Interruption” (as defined in the Default Price-Quality Path Determinations) as the loss of power to a single consumer due to a single root cause. Therefore cases where a customer receives multiple power cuts during the remediation of a single root cause are considered to be single interruptions for the purposes of SAIDI/SAIFI calculation. This interpretation maintains consistency with the approach used to calculate the quality limits under which OJV operates.

## Appendix G – Demonstration of Weighted Average Price Movement for Lakeland Region Prices 2015 to 2016

As Lakeland distribution prices are effectively excluded from the price path compliance due to the application of lagged OtagoNet quantities, we have also included in this appendix, demonstration of the weighted average price movement of these prices (using a  $P_{2016} \times Q_{2014}$  and  $P_{2015} \times Q_{2014}$  approach). This reflects total delivery prices, as the pricing components were not separated for the 2015 year.

There was no change in prices between the 2015 and 2016 Assessment Periods for standard connections.

There were changes to the prices for the six Half Hourly Individually Metered Customers, (some increased, some decreased and others did not change) which resulted in a minor increase in net notional revenue of \$15,854 between the 2015 and 2016 Assessment Periods. Pass-through and recoverable costs increased by \$19,541 over this period.

### Notional Revenue at Assessment Date (31 March 2015):

Lakeland Region		P2015*Q2014				
Standard Domestic Fixed Charges						
Capacity		Code	Number	Quantity	\$ per Day	Total
15 kVA	Single phase 63 amp fuse	LD15	27	365	\$0.150	\$1,477.71
15 kVA	Three phase 20A MCB	LM15	0	365	\$0.150	\$0.00
8 kVA	Single Phase 32A MCB	LD08	0	365	\$0.041	\$0.00
Standard Domestic Variable Charges				Quantity kWh	\$ kWh	

General 24hr	Summer	S24S		68,184	\$0.101	\$ 6,859.31
General 24hr	Winter	S24W		53,091	\$0.151	\$ 8,038.01
Peak Water	20 Hour Supply	S20C		9,520	\$0.069	\$ 654.98
Standard Water	16 Hour Supply	S16C		27,241	\$0.037	\$ 1,010.64
Night + 5 Hours	13 Hour Supply	S13C		-	\$0.051	\$ -
Night + 3 Hours	11 Hour Supply	S11C		-	\$0.029	\$ -
Night Only	8 Hour Supply	S08C		-	\$0.013	\$ -
<b>Total Standard Domestic</b>						<b>\$18,040.65</b>
<b>Non-Domestic Fixed Charges</b>		<b>Code</b>	<b>Number</b>	<b>Quantity</b>	<b>\$ per Day</b>	<b>Total</b>
1 kVA	Single Phase 5A MCB+	LS001	2	365	\$ 0.5971	\$ 435.90
2 kVA	Single Phase 63 amps++	LS002	0	365	\$ 1.1817	\$ -
8 kVA	Single Phase 32A MCB	LS008	23	365	\$ 0.6799	\$ 5,707.45
15 kVA	Single Phase 63 amps	LS015	54	365	\$ 1.1737	\$ 23,133.06
23 kVA	Single Phase 100 amps	LS023	0	365	\$ 1.4813	\$ -
28 kVA	Two Phase	LT028	1	365	\$ 1.7917	\$ 653.97
15 kVA	Three Phase 20A MCB	LT015	3	365	\$ 1.1737	\$ 1,285.17
24kVA	Three Phase 32A MCB	LT024	12	365	\$ 1.5434	\$ 6,759.96
41 kVA	Three Phase 63 amps	LT041	44	365	\$ 2.5988	\$ 41,736.20
69 kVA	Three Phase 100 amps	LT069	13	365	\$ 4.3371	\$ 20,579.39
103 kVA	Three Phase 150 amps	LT103	4	365	\$ 6.4479	\$ 9,413.88
138 kVA	Three Phase 200 amps	LT138	3	365	\$ 8.6207	\$ 9,439.71
172 kVA	Three Phase 250 amps	LT172	0	365	\$ 27.2984	\$ -
207 kVA	Three Phase 300 amps	LT207	0	365	\$ 32.6069	\$ -
276 kVA	Three Phase 400 amps	LT276	2	365	\$ 40.7054	\$ 29,714.96
<b>Total</b>						<b>\$ 148,859.65</b>
<b>Non-Domestic Control Period Demand Charges</b>		<b>Code</b>	<b>Number</b>	<b>Quantity</b>	<b>\$/kW</b>	<b>Total</b>
1 kVA	Single Phase 5A MCB+	LS001	2			
2 kVA	Single Phase 63 amps++	LS002	0			
8 kVA	Single Phase 32A MCB	LS008	23	18.75	\$ 197.50	\$ 3,703.13

15 kVA	Single Phase 63 amps	LS015	54	104	\$ 197.50	\$ 20,540.00
23 kVA	Single Phase 100 amps	LS023	0		\$ 215.28	\$ -
28 kVA	Two Phase	LT028	1	9	\$ 215.28	\$ 1,937.52
15 kVA	Three Phase 20A MCB	LT015	3	4	\$ 197.50	\$ 790.00
24kVA	Three Phase 32A MCB	LT024	12	24	\$ 215.28	\$ 5,166.72
41 kVA	Three Phase 63 amps	LT041	44	215.5	\$ 215.28	\$ 46,392.84
69 kVA	Three Phase 100 amps	LT069	13	167	\$ 215.28	\$ 35,951.76
103 kVA	Three Phase 150 amps	LT103	4	73.5	\$ 215.28	\$ 15,823.08
138 kVA	Three Phase 200 amps	LT138	3	119	\$ 215.28	\$ 25,618.32
172 kVA	Three Phase 250 amps	LT172	0		\$ 171.86	\$ -
207 kVA	Three Phase 300 amps	LT207	0		\$ 171.86	\$ -
276 kVA	Three Phase 400 amps	LT276	2	184	\$ 171.86	\$ 31,622.24
<b>Total</b>						<b>\$ 187,545.61</b>
<b>Total Non-Domestic Charges</b>						<b>\$ 336,405.26</b>
<b>Half Hour Metered Individual</b>						
<b>ICP Number</b>		<b>Code</b>	<b>Number</b>	<b>Quantity (Days)</b>	<b>Annual Fixed Charge</b>	<b>Total</b>
0000950325LN3F5		LHHR	1	1	\$ 137,452.98	\$ 137,452.98
0000950335LN958		LHHR	1	1	\$ 43,198.55	\$ 43,198.55
0000950330LN417		LHHR	1	1	\$ 38,817.77	\$ 38,817.77
0000950315LN40D		LHHR	1	1	\$ 10,501.26	\$ 10,501.26
0000950320LNEBA		LHHR	1	1	\$ 11,110.71	\$ 11,110.71
<b>Total Half Hour Metered Individual</b>						<b>\$ 241,081.27</b>
<b>Total Lakeland Region</b>						<b>\$595,527.17</b>
<b>P2015*Q2014</b>						<b>\$595,527.17</b>

**Notional Revenue at Assessment Date (31 March 2016):**

<b>Lakeland Region</b>		<b>P2016*Q2014</b>				
<b>Standard Domestic Fixed Charges</b>						
<b>Capacity</b>		<b>Code</b>	<b>Number</b>	<b>Quantity</b>	<b>\$ per Day</b>	<b>Total</b>
15 kVA	Single phase 63 amp fuse	LD15	27.0	365	\$0.150	\$1,477.71
15 kVA	Three phase 20A MCB	LM15	0.0	365	\$0.150	\$0.00
8 kVA	Single Phase 32A MCB	LD08	0.0	365	\$0.041	\$0.00
<b>Standard Domestic Variable Charges</b>				<b>Quantity kWh</b>	<b>\$ kWh</b>	
General 24hr	Summer	S24S		68,184	\$0.101	\$ 6,859.31
General 24hr	Winter	S24W		53,091	\$0.151	\$ 8,038.01
Peak Water	20 Hour Supply	S20C		9,520	\$0.069	\$ 654.98
Standard Water	16 Hour Supply	S16C		27,241	\$0.037	\$ 1,010.64
Night + 5 Hours	13 Hour Supply	S13C		-	\$0.051	\$ -
Night + 3 Hours	11 Hour Supply	S11C		-	\$0.029	\$ -
Night Only	8 Hour Supply	S08C		-	\$0.013	\$ -
<b>Total Standard Domestic</b>						<b>\$18,040.65</b>
<b>Non-Domestic Fixed Charges</b>						
		<b>Code</b>	<b>Number</b>	<b>Quantity</b>	<b>\$ per Day</b>	<b>Total</b>
1 kVA	Single Phase 5A MCB+	LS001	2	365	\$ 0.5971	\$ 435.90

2 kVA	Single Phase 63 amps++	LS002	0	365	\$	1.1817	\$ -
8 kVA	Single Phase 32A MCB	LS008	23	365	\$	0.6799	\$ 5,707.45
15 kVA	Single Phase 63 amps	LS015	54	365	\$	1.1737	\$ 23,133.06
23 kVA	Single Phase 100 amps	LS023	0	365	\$	1.4813	\$ -
28 kVA	Two Phase	LT028	1	365	\$	1.7917	\$ 653.97
15 kVA	Three Phase 20A MCB	LT015	3	365	\$	1.1737	\$ 1,285.17
24kVA	Three Phase 32A MCB	LT024	12	365	\$	1.5434	\$ 6,759.96
41 kVA	Three Phase 63 amps	LT041	44	365	\$	2.5988	\$ 41,736.20
69 kVA	Three Phase 100 amps	LT069	13	365	\$	4.3371	\$ 20,579.39
103 kVA	Three Phase 150 amps	LT103	4	365	\$	6.4479	\$ 9,413.88
138 kVA	Three Phase 200 amps	LT138	3	365	\$	8.6207	\$ 9,439.71
172 kVA	Three Phase 250 amps	LT172	0	365	\$	27.2984	\$ -
207 kVA	Three Phase 300 amps	LT207	0	365	\$	32.6069	\$ -
276 kVA	Three Phase 400 amps	LT276	2	365	\$	40.7054	\$ 29,714.96
<b>Total</b>							<b>\$ 148,859.65</b>
<b>Non-Domestic Control Period Demand Charges</b>		<b>Code</b>	<b>Number</b>	<b>Quantity</b>		<b>\$/kW</b>	<b>Total</b>
1 kVA	Single Phase 5A MCB+	LS001	2				
2 kVA	Single Phase 63 amps++	LS002	0				
8 kVA	Single Phase 32A MCB	LS008	23	18.75	\$	197.50	\$ 3,703.13
15 kVA	Single Phase 63 amps	LS015	54	104	\$	197.50	\$ 20,540.00
23 kVA	Single Phase 100 amps	LS023	0		\$	215.28	\$ -
28 kVA	Two Phase	LT028	1	9	\$	215.28	\$ 1,937.52
15 kVA	Three Phase 20A MCB	LT015	3	4	\$	197.50	\$ 790.00
24kVA	Three Phase 32A MCB	LT024	12	24	\$	215.28	\$ 5,166.72
41 kVA	Three Phase 63 amps	LT041	44	215.5	\$	215.28	\$ 46,392.84
69 kVA	Three Phase 100 amps	LT069	13	167	\$	215.28	\$ 35,951.76
103 kVA	Three Phase 150 amps	LT103	4	73.5	\$	215.28	\$ 15,823.08
138 kVA	Three Phase 200 amps	LT138	3	119	\$	215.28	\$ 25,618.32
172 kVA	Three Phase 250 amps	LT172	0		\$	171.86	\$ -
207 kVA	Three Phase 300 amps	LT207	0		\$	171.86	\$ -
276 kVA	Three Phase 400 amps	LT276	2	184	\$	171.86	\$ 31,622.24

<b>Total</b>						<b>\$ 187,545.61</b>
<b>Total Non-Domestic Charges</b>						<b>\$ 336,405.26</b>
<b>Half Hour Metered Individual</b>						
<b>ICP Number</b>		<b>Code</b>	<b>Number</b>	<b>Quantity (Days)</b>	<b>Annual Fixed Charge</b>	<b>Total</b>
0000950325LN3F5		LHHR	1	1	\$ 137,227.28	\$ 137,227.28
0000950335LN958		LHHR	1	1	\$ 47,387.99	\$ 47,387.99
0000950330LN417		LHHR	1	1	\$ 41,077.11	\$ 41,077.11
0000950315LN40D		LHHR	1	1	\$ 15,546.55	\$ 15,546.55
0000950320LNEBA		LHHR	1	1	\$ 15,696.72	\$ 15,696.72
<b>Total Half Hour Metered Individual</b>						<b>\$ 256,935.65</b>
<b>Total Lakeland Region</b>						<b>\$611,381.55</b>
<b>P2016*Q2014</b>						<b>\$611,381.55</b>