

Orion New Zealand Limited Customised Price-Quality Path Determination 2013

# **Compliance statement**

For the year ending 31 March 2018

Issued 28 May 2018

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## INTRODUCTION

- Orion New Zealand Limited (Orion) owns and operates the electricity distribution network in central Canterbury between the Waimakariri and Rakaia rivers, and from the Canterbury coast to Arthur's Pass. Our network covers 8,000 square kilometres of diverse geography, including Christchurch city, Banks Peninsula, farming communities and high country regions. We receive electricity from Transpower's national grid at seven separate locations and we distribute this electricity to more than 200,000 homes and businesses.
- 2 We charge electricity retailers on a wholesale basis for this delivery service. Retailers, in turn, include this cost in their retail electricity prices our delivery charges, including Transpower's charges, typically amount to around 40% of a household's electricity bill.
- As a natural monopoly service provider, we are subject to government regulation under the Commerce Act 1986. Pursuant to the requirements of this Act, the Commerce Commission has set a regulatory framework that includes information disclosure regulations, default price-quality paths (DPP) and the option for distribution businesses to apply for a customised price-quality path (CPP).
- In February 2013, to recognise the impact of the Canterbury earthquakes on our costs and supply quality, Orion applied for a customised price-quality path. Following our application and wider consultation, the Commerce Commission issued a customised price path determination (the CPP determination) on 28 November 2013 that applies to Orion and sets out a price and quality path for the period from 1 April 2014 to 31 March 2019.
- 5 This statement has been prepared to demonstrate our compliance, or otherwise, with the requirements in the CPP determination. Specifically, this compliance statement covers the information requirements detailed in clause 10 of the CPP determination for the year ended 31 March 2018.

## **COMPLIANCE STATEMENTS**

#### **Price path statement**

This year we **complied with** our price path limit, with notional revenue falling \$141.6k below our allowable notional revenue of \$170,032.7k, calculated in accordance with clause 7.5 and schedule 1B of the CPP determination.

#### **Quality standard statement**

- 7 This year we doubly **complied with** our reliability limit, complying with the annual reliability assessment in the current assessment period, as well as complying with the reliability assessment for the two preceding assessment periods.
- 8 For the current assessment period our results were:
  - 8.1 SAIDI (duration of outages) of 79.05, 3.35 below our limit of 82.4, and
  - 8.2 SAIFI (frequency of outages) of 1.00, 0.02 below our limit of 1.02.

#### **Price structure statement**

9 We have not restructured our prices during the assessment period. However, we did restructure our prices during the previous assessment period. As a result, several of the quantities that are referenced from two years prior do not relate to our current prices. Consistent with last year, we have taken the approach described in clause 7.7 and we have been able to establish appropriate prior quantities that reasonably relate to the restructured prices based on quantities that were either charged or measured, and use these to demonstrate compliance. We have not established alternative quantities.

#### **Transaction statements**

- 10 During the assessment period, we:
  - 10.1 have not been involved in an amalgamation or merger, and
  - 10.2 have not been involved in a transfer of assets governed by clause 9.3 of the CPP determination.
- 11 We prepared and approved this compliance statement on 28 May 2018.
- 12 Full details supporting the statements above are included in this compliance statement.

#### PRICE PATH SUPPORTING INFORMATION

13 Clause 7.5 of the CPP determination requires that notional revenue  $(NR_t)$  does not exceed allowable notional revenue  $(ANR_t)$  for the assessment period, as expressed by the following condition:

$$\frac{NR_t}{ANR_t} \leq 1$$

#### Notional revenue

14 Using the definitions provided in clause 7.5, notional revenue is evaluated as:

$$NR_t = \sum_i P_{i,t}Q_{i,t-2} - K_t - V_t$$

where t denotes the year in which the assessment period ends, that is 2018, giving:

$$NR_{2018} = \sum_{i} P_{i,2018} Q_{i,2016} - K_{2018} - V_{2018}$$

where  $\sum_i P_{i,2018} P_{i,2016}$  is the sum of each (i<sup>th</sup>) price during any part of the assessment period pertaining to electricity lines services, multiplied by the corresponding quantity for 2016. This expression is evaluated as \$251,966.8k in the worksheet on page 8 titled notional charges worksheet,

 $K_{2018}$  is the sum of all pass-through costs for the assessment period. This expression is evaluated as \$4,743.8k in the worksheet on page 11 titled *pass through costs, and* 

 $V_{2018}$  is the sum of all recoverable costs for the assessment period. This expression is evaluated as \$77,331.8k in the worksheet on page 10 titled *recoverable costs*,

$$\therefore NR_{2018} = \$251,966.8k - \$4,743.8k - \$77,331.8k$$
$$= \$169,891.1k$$

#### Allowable notional revenue

Allowable notional revenue is defined in clause 7.5 and schedule 1B of the CPP determination as:

$$ANR_{t} = \left(\sum_{i} P_{i,t-1}Q_{i,t-2} - (K_{t-1} + V_{t-1}) + (ANR_{t-1} - NR_{t-1})\right)(1 + \Delta CPI_{t})(1 - X)$$

where t denotes the year in which the assessment period ends, that is 2018, giving:

$$ANR_{2018} = \left(\sum_{i} P_{i,2017} Q_{i,2016} - (K_{2017} + V_{2017}) + (ANR_{2017} - NR_{2017})\right)$$
$$\times (1 + \Delta CPI_{2018})(1 - X)$$

where  $\sum_i P_{i,2017} P_{i,2016}$  is the sum of each (i<sup>th</sup>) price during any part of the assessment period ending in 2017, multiplied by the corresponding quantity for 2016. This expression is evaluated as \$252,044.8k in the worksheet on page 9 titled *prior notional charges worksheet*,

 $K_{2017} + V_{2017}$  is the sum of all pass-through and recoverable costs for the assessment period ending in 2017. This was evaluated as \$4,548.1k and \$79,940.4k respectively in our previous Customised Price Path Compliance Statement. The components making up these amounts are also shown alongside the current year's figures in the tables on page 10 and 11 of this compliance statement,

ANR<sub>2017</sub> – NR<sub>2017</sub> is the difference between allowable notional revenue and notional revenue for the assessment period ending in 2017. This was evaluated as \$235.9k in our previous Customised Price Path Compliance Statement,

 $1 + \Delta CPI_{2018}$  is the derived change in CPI to be applied for the current assessment period. Stats NZ re-based its CPI index in June 2017, setting the index for that quarter to a base of 1000. At the same time the prior period figures were restated relative to this new base, and we have calculated the CPI movement using the re-based index:

$$= \frac{CPI_{Dec,2015} + CPI_{Mar,2016} + CPI_{Jun,2016} + CPI_{Sep,2016}}{CPI_{Dec,2014} + CPI_{Mar,2015} + CPI_{Jun,2015} + CPI_{Sep,2015}} - 1$$
$$= \frac{977 + 979 + 983 + 986}{976 + 975 + 979 + 982} - 1$$
$$= 0.332\%$$

1-X is the rate of change specified in clause 7.2 of the determination as -1% (ie 1-X = 1.01)

$$\therefore ANR_{2018} = (\$252,044.8k - \$4,548.1k - \$79,940.4k + \$235.9k)(1.00332)(1.01)$$

16 Substituting the values calculated above in the price path condition gives:

$$\frac{NR_{2018}}{ANR_{2018}} = \frac{\$169,891.1k}{\$170,032.7k} = 0.9992 < 1$$

Our notional revenue is \$141.6k less than our allowable notional revenue and, as the condition is satisfied, we comply with the price requirement specified in clause 7.5 of the CPP determination.

#### **Restructuring of prices**

- 18 We restructured some of our prices from the start of the prior assessment period, on 1 April 2016. While not a major change, the new prices are not directly aligned with the quantities that were applied two years ago, and referenced for use in the calculation of notional revenue.
- 19 To establish both allowable notional revenue and comparable notional revenue for the purpose of the compliance test it is necessary to establish chargeable quantities for the new structure at a level equivalent to that which would have applied had the new structure been in place in FY16.
- 20 In all cases the new price structure uses chargeable quantity metrics that were already used in charging, or are available to be measured. So quantities that reasonably relate to the new restructured prices are easily quantified.
- The following table sets out each new restructured price, the basis for establishing the quantity, and the quantity itself.

| New<br>restructured<br>price                   | Description of change  | Basis for quantity  |
|--|--|---|
| General volume<br>pricing                      | Public holidays are now charged at the weekday rate rather than the weekend rate.  | The volume charged on public holidays has<br>been specifically identified as 43,163.7 MWh.<br>This has been deducted from the nights and<br>weekends charge and added to the weekday<br>charge.   |
| Major fixed<br>charge                          | All standard and secondary connections are now charged at the same price.  | The quantity has been set to 385<br>connections, being the sum of the previously<br>separate 373 standard and 12 secondary<br>connections.  |
| Major<br>nominated<br>maximum<br>demand charge | This replaces the previous assessed<br>capacity distribution charge, and the<br>measurement now includes peaks that<br>might occur during holidays, weekends<br>and night loads, peak export, and it is<br>also updated monthly (rather than set<br>for a year). | We individually assessed the quantity that<br>would have applied to each major customer<br>if the pricing had been in place in FY16. The<br>revised basis increased the quantity by a<br>small amount from 204,664.2 kVA to<br>208,232.5 kVA. |
| Major metered<br>maximum<br>demand charge      | This replaces the previous assessed<br>capacity transmission charge, and the<br>measurement now includes peaks that<br>might occur during holidays.  | We individually assessed the quantity that<br>would have applied to each major customer<br>if the pricing had been in place in FY16. The<br>revised basis increased the quantity by a<br>small amount from 199199.2 kVA to<br>199,056.4 kVA.  |
| Major extra<br>switch charge                   | This replaces the 20 individual and<br>separately priced switchgear charges,<br>effectively charging all switches at the<br>same price.  | We set the quantity to the sum of the number of different switches applied in FY16, 110.83 items.   |
| Metering<br>equipment                          | This is a simple per-connection charge<br>for metering equipment and replaces<br>the separate CT, VT, integrated CT/VT,<br>and test block charges that we<br>previously applied.   | The quantity is set to the number of connections where metering was provided in FY16, 62.33 connections.  |
| Transformer<br>capacity                        | This uses a "per kVA" basis and replaces<br>the 17 separate prices that we<br>previously maintained for different<br>transformer sizes   | The quantity is set to the sum of the kVA (by size of transformer) charged for in FY16, 243,558.7 kVA   |

## Notional charges worksheet

| $\sum_{i} P_{i,t} Q_{i,t-2}$   |                 |                            |                                      |                      | (\$000)   |
|--|-----------------|----------------------------|--------------------------------------|----------------------|---|
| i<br>Components (i)  |                 | lelivery prices            | Quantities<br>(Q <sub>i,2016</sub> ) | Days<br>applicable   | Notional annual<br>delivery charges<br>(P <sub>i.2018</sub> x Q <sub>i.2016</sub> ) |
| Days in quantity year  |                 |                            |                                      | 366                  | (* 1,2018 ** 1,2018)  |
| Streetlighting, general and irrigation connections                         |                 |                            |                                      |                      |   |
| Streetlighting fixed charge  | 0.1129          | \$/con/day                 | 46,228.6 cons                        | 366 days             | 1,910.2   |
| Streetlighting and general connections<br>Peak charge (peak period demand) | 0.5310          | \$/kW/day                  | 482,845.6 kW                         | 366 days             | 93,839.1  |
| Streetlighting, general and irrigation connections vol                     | -               |                            |                                      |                      |   |
| Weekdays (Mon to Fri, 7am - 9pm)<br>Nights, weekends (Sat & Sun)           | 0.08773 0.01125 |                            | 1,142,134 MWh<br>1,314,363 MWh       |                      | 100,199.4<br>14,786.6   |
| Nights, weekends (sat & sun)   | 0.01125         | 3/ 10/11                   | 1,514,505 1/1/1/1                    |                      | 14,780.0  |
| General connections  |                 |                            |                                      |                      |   |
| Low power factor charge  | 0.2000          | \$/kVAr/day                | 0.0 kVAr                             | 366 days             | 0.0   |
| Irrigation connections   |                 |                            |                                      |                      |   |
| Capacity charge  |                 | \$/kW/day                  | 77,725.4 kW                          | 183 days             | 5,969.7   |
| Power factor correction rebate<br>Interruptibility rebate                  |                 | \$/kVAr/day<br>\$/kW/day   | 26,913.7 kVAr<br>46,474.5 kW         | 183 days<br>183 days | (883.1)<br>(381.0)  |
| menuprionityrebate   | (0.0440)        | S/KW/Udy                   | 40,474.5 KW                          | 185 Gays             | (561.0)   |
| Major customer connections and embedded networks                           |                 |                            |                                      |                      |   |
| Fixed charge   | 1.8900          | \$/con/day                 | 384.60 cons                          | 366 days             | 266.0   |
| Extra switches   |                 | \$/switch/day              | 110.80 switches                      | 366 days             | 143.6   |
| 11k Metering equipment   |                 | \$/con/day                 | 62.30 cons                           | 366 days             | 97.8  |
| 11kV Underground cabling<br>11kV Overhead lines                            |                 | \$/km/day<br>\$/km/day     | 2.00 km<br>3.20 km                   | 366 days<br>366 days | 2.3   |
| Transformer capacity   |                 | \$/kVA/day                 | 243,696.50 kVA                       | 366 days             | 1,186.3   |
| Peak charge (control period demand)  | 0.4957          | \$/kVA/day                 | 97,604.60 kVA                        | 366 days             | 17,350.8  |
| Nominated maximum demand   |                 | \$/kVA/day                 | 208,232.50 kVA                       | 366 days             | 7,994.8   |
| Metered maximum demand   |                 | \$/kVA/day                 | 199,056.40 kVA                       | 366 days             | 6,178.1   |
| Large capacity connections   |                 |                            |                                      |                      |   |
| Ops, maint & admin (dedicated assets)                                      | 5.08            | \$/kVA/year                | 12,000.0 kVA                         | 366 days             | 61.0  |
| Ops, maint & admin (shared assets)   | 22.58           | \$/kVA/year                | 9,853.0 kVA                          | 366 days             | 222.5   |
| Asset charge (dedicated assets)  |                 | \$/kVA/year                | 12,000.0 kVA                         | 366 days             | 107.3   |
| Asset charge (shared assets)   |                 | \$/kVA/year                | 9,853.0 kVA                          | 366 days             | 405.5   |
| Interconnection charge (winter)<br>Interconnection charge (summer)         |                 | \$/kVA/year<br>\$/kVA/year | 1,997.2 kVA<br>6,809.1 kVA           | 366 days<br>366 days | 138.1<br>383.8  |
| Connection charge  |                 | \$/kVA/year                | 6,809.1 kVA                          | 366 days             | 46.9  |
| Ops, maint & admin (dedicated assets)                                      |                 | \$/kVA/year                | 13,000.0 kVA                         | 366 days             | 84.8  |
| Ops, maint & admin (shared assets)   |                 | \$/kVA/year                | 11,782.8 kVA                         | 366 days             | 110.1   |
| Asset charge (dedicated assets)  |                 | \$/kVA/year                | 13,000.0 kVA                         | 366 days             | 209.7   |
| Asset charge (shared assets)   |                 | \$/kVA/year                | 11,782.8 kVA                         | 366 days             | 272.7   |
| Interconnection charge (winter)  | 67.46           | \$/kVA/year                | 1,158.6 kVA                          | 366 days             | 78.2  |
| Interconnection charge (summer)  |                 | \$/kVA/year                | 9,814.1 kVA                          | 366 days             | 539.7   |
| Connection charge<br>Customer investment contract charge                   |                 | \$/kVA/year<br>\$/kVA/year | 9,814.1 kVA<br>13,000.0 kVA          | 366 days<br>366 days | 16.3<br>782.7   |
| _  | 00.21           | er i ven yeur              | 10,000.0 KVA                         | 555 0035             | 702.7   |
| Export and generation (distribution part only)<br>Real power component     | (0.0906)        | \$/kW/day                  | 2,353.5 kW                           | 366 days             | (78.0)  |
| Reactive power component   |                 | \$/kVAr/day                | 414.9 kVAr                           | 366 days             | (4.5)   |
| Generation credits   |                 | \$/kWh                     | 274,660.0 kWh                        |                      | (82.4)  |
| Miscellaneous  |                 |                            |                                      |                      |   |
| Monthly invoice charge   | 30.00           | \$/invoice                 | 326.0 inv/yr                         |                      | 9.8   |
| Notional charges 2018  |                 |                            |                                      |                      | 251,966.8   |

Notes:

- 1. The irrigation capacity charge and rebates are applied from 1 October to 31 March only.
- 2. All prices and charges exclude GST.

## Prior notional charges worksheet

| $\sum_{i} P_{i,t-1} Q_{i,t-2}$ Components (i)                              |                        | very prices                | Quantities                  | Days                 | (\$000)<br>Notional annual                                       |
|--|------------------------|----------------------------|-----------------------------|----------------------|--|
| Days in quantity year  | (P <sub>i,3</sub>      | 2017)                      | (Q <sub>i,2015</sub> )      | applicable<br>366    | delivery charges<br>(P <sub>i,2017</sub> x Q <sub>i,2016</sub> ) |
| Streetlighting, general and irrigation connections                         |                        |                            |                             |                      |  |
|  | 0.4465                 | <i>ci i i</i>              | 45 000 S                    | 255.1                | 4.070.0  |
| Streetlighting fixed charge  | 0.1166                 | \$/con/day                 | 46,228.6 cons               | 366 days             | 1,972.8  |
| Streetlighting and general connections<br>Peak charge (peak period demand) | 0.5325                 | \$/kW/day                  | 482,845.6 kW                | 366 days             | 94,104.2   |
| Streetlighting, general and irrigation connections vo                      | olume charge           |                            |                             |                      |  |
| Working weekdays (7am - 9pm)   | 0.08642                |                            | 1,142,134 MWh               |                      | 98,703.2   |
| Nights, weekends   | 0.01106                | \$/kWh                     | 1,314,363 MWh               |                      | 14,536.9   |
| General connections  |                        |                            |                             |                      |  |
| Low power factor charge  | 0.2000                 | \$/kVAr/day                | 0.0 kVAr                    | 366 days             | 0.0  |
| Irrigation connections   |                        |                            |                             |                      |  |
| Capacity charge  | 0.4920                 | \$/kW/day                  | 77,725.4 kW                 | 183 davs             | 6,998.1  |
| Power factor correction rebate   |                        | \$/kVAr/day                | 26,913.7 kVAr               | 183 days             | (883.1   |
| Interruptibility rebate  | (0.0448)               | \$/kW/day                  | 46,474.5 kW                 | 183 days             | (381.0   |
| Major customer connections and embedded networks                           |                        |                            |                             |                      |  |
| Fixed charge   | 1 8565                 | \$/con/day                 | 384.60 cons                 | 366 days             | 261.3  |
| Extra switches   |                        | \$/switch/day              | 110.80 switches             | 366 days             | 203.2  |
| 11k Metering equipment   |                        | \$/con/day                 | 62.30 cons                  | 366 days             | 160.8  |
| 11kV Underground cabling   |                        | \$/km/day                  | 2.00 km                     | 366 days             | 2.3  |
| 11kV Overhead lines  | 1.9100                 | \$/km/day                  | 3.20 km                     | 366 days             | 2.3  |
| Transformer capacity   | 0.0168                 | \$/kVA/day                 | 243,696.50 kVA              | 366 days             | 1,498.4  |
| Peak charge (control period demand)  | 0.4891                 | \$/kVA/day                 | 97,604.60 kVA               | 366 days             | 17,472.3   |
| Nominated maximum demand   |                        | \$/kVA/day                 | 208,232.50 kVA              | 366 days             | 6,851.6  |
| Metered maximum demand   | 0.1001                 | \$/kVA/day                 | 199,056.40 kVA              | 366 days             | 7,292.7  |
| Large capacity connections   |                        |                            |                             |                      |  |
| Ops, maint & admin (dedicated assets)                                      | 4.56                   | \$/kVA/year                | 12,000.0 kVA                | 366 days             | 54.7   |
| Ops, maint & admin (shared assets)   | 18.67                  | \$/kVA/year                | 9,853.0 kVA                 | 366 days             | 184.0  |
| Asset charge (dedicated assets)  | 8.94                   | \$/kVA/year                | 12,000.0 kVA                | 366 days             | 107.3  |
| Asset charge (shared assets)   | 37.80                  | \$/kVA/year                | 9,853.0 kVA                 | 366 days             | 372.4  |
| Interconnection charge (winter)  | 70.42                  | \$/kVA/year                | 1,997.2 kVA                 | 366 days             | 140.6  |
| Interconnection charge (summer)  | 57.34                  | \$/kVA/year                | 6,809.1 kVA                 | 366 days             | 390.4  |
| Connection charge  | 6.48                   | \$/kVA/year                | 6,809.1 kVA                 | 366 days             | 44.1   |
| Ops, maint & admin (dedicated assets)                                      |                        | \$/kVA/year                | 13,000.0 kVA                | 366 days             | 73.3   |
| Ops, maint & admin (shared assets)   |                        | \$/kVA/year                | 11,782.8 kVA                | 366 days             | 98.2   |
| Asset charge (dedicated assets)  |                        | \$/kVA/year                | 13,000.0 kVA                | 366 days             | 202.5  |
| Asset charge (shared assets)   |                        | \$/kVA/year                | 11,782.8 kVA                | 366 days             | 271.0  |
| Interconnection charge (winter)  |                        | \$/kVA/year                | 1,158.6 kVA                 | 366 days             | 79.6   |
| Interconnection charge (summer)  |                        | \$/kVA/year                | 9,814.1 kVA                 | 366 days             | 549.1  |
| Connection charge<br>Customer investment contract                          |                        | \$/kVA/year<br>\$/kVA/year | 9,814.1 kVA<br>13,000.0 kVA | 366 days<br>366 days | 17.9<br>819.4  |
|  |                        | -,,                        |                             |                      |  |
| Export and generation (distribution part only)                             | (0.00005900)           | ¢/www.de-w                 | 0.050 E MM                  | 265 days             | (70.4  |
| Real power component   | (0.09095890)           |                            | 2,353.5 kW                  | 366 days             | (78.4  |
| Reactive power component<br>Generation credits                             | (0.02989041)<br>(0.30) | \$/kVAr/day<br>\$/kWh      | 414.9 kVAr<br>274,660.0 kWh | 366 days             | (4.5<br>(82.4  |
|  | (0.50)                 | -,                         |                             |                      | (32.1  |
| Miscellaneous<br>Monthly invoice charge                                    | 20.00                  | \$/invoice                 | 226 0 joulur                |                      |  |
| Monthly invoice charge   | 30.00                  | \$/invoice                 | 326.0 inv/yr                |                      | 9.8  |
| Notional charges 2017  |                        |                            |                             |                      | 252,044.8  |

Notes:

- 1. The irrigation capacity charge and rebates are applied from 1 October to 31 March only.
- 2. All prices and charges exclude GST.

#### Pass through costs and recoverable costs

- 22 Pass through costs and recoverable costs are specifically recognised in the CPP determination so that changes in the amounts can be directly reflected in prices.
- 23 Recoverable costs include transmission charges (including charges payable to Transpower and avoided transmission charges), system operator charges, transmission payments to distributed generators, and a range of fees associated with the CPP proposal.
- The following table of recoverable costs shows the recoverable cost amounts for the assessment period, the amounts we forecast for the assessment period when setting prices, and actual amounts for the prior period:

| Recoverable costs   |                           | FY18<br>actual | FY18<br>forecast | FY17<br>actual |
|---|---------------------------|----------------|------------------|----------------|
|   | IM reference <sup>1</sup> | \$000          | \$000            | \$000          |
| Transpower and System Operator charges                              |                           |                |                  |                |
| Connection  | 3.1.3(1)(b)               | 4,623.0        | 4,786.0          | 4,652.8        |
| Interconnection   | 3.1.3(1)(b)               | 65,216.2       | 65,216.2         | 65,982.8       |
| New investment  | 3.1.3(1)(c)               | 2,076.3        | 2,076.3          | 2,604.0        |
| System Operator charges   | 3.1.3(1)(d)               | nil            | nil              | nil            |
|   |                           | 71,915.5       | 72,078.4         | 73,239.5       |
| Avoided transmission charges  |                           |                |                  |                |
| Papanui connection charges avoided (purchased 1/8/2012)             | 3.1.3(1)(e)               | 0              | 0                | 1,272.9        |
| Springston connection charges avoided (purchased 31/3/2014)         | 3.1.3(1)(e)               | 866.2          | 866.2            | 847.3          |
| Springston new investment charges avoided (purchased 31/3/2014)     | 3.1.3(1)(e)               | 164.1          | 164.1            | 175.2          |
| Bromley connection charges avoided (purchased 1/4/2014)             | 3.1.3(1)(e)               | 945.8          | 945.8            | 919.0          |
| Addington/Middleton connection charges avoided (purchased 1/4/2015) | 3.1.3(1)(e)               | 2,851.1        | 2,851.1          | 2,779.3        |
|   |                           | 4,827.1        | 4,827.1          | 5,993.9        |
| Transmission part of distributed generation pa                      | ayments                   |                |                  |                |
| Export credits  | 3.1.3(1)(f)               | 132.7          | 149.5            | 210.4          |
| Generation credits  | 3.1.3(1)(f)               | 16.6           | 46.4             | 56.7           |
|   |                           | 149.3          | 195.8            | 267.1          |
| CPP costs <sup>2</sup>  |                           |                |                  |                |
| CPP application fee   | 3.1.3(1)(h)               | 5.0            | 5.0              | 5.0            |
| CPP assessment fee  | 3.1.3(1)(i)               | 317.8          | 317.8            | 317.8          |
| CPP verifier fee  | 3.1.3(1)(j)               | 51.5           | 51.5             | 51.5           |
| CPP auditor's fee   | 3.1.3(1)(k)               | 61.7           | 61.7             | 61.7           |
| CPP engineer's fee  | 3.1.3(1)(l)               | 3.9            | 3.9              | 3.9            |
|   |                           | 439.9          | 439.9            | 439.9          |
| Total recoverable costs   |                           | 77,331.8       | 77,541.3         | 79,940.4       |

<sup>&</sup>lt;sup>1</sup> Clause reference to the Electricity Distribution Services Input Methodologies Determination 2012 [2012] NZCC 26

<sup>&</sup>lt;sup>2</sup> See appendix E for our calculation of CPP cost instalments

- 25 Clauses 10.3(d)(ii) and (iii) of the determination set out additional information requirements in relation to avoided transmission charges. This information and related calculations are included in Appendix C to this compliance statement.
- <sup>26</sup> Clause 10.3(e) of the determination requires information in relation to and evidence of the amounts charged by Transpower. Copies of invoices for these amounts are included in Appendix B.
- 27 Clause 10.3(f) of the determination requires information in relation to indirect transmission charges, where Transpower's charges are recharged to us by another electricity distributor. Orion has not paid any indirect transmission charges.
- 28 Pass-through costs include rates payable to territorial local authorities, Electricity Authority levies, Commerce Act levies and Utilities Disputes scheme charges.
- 29 The following table of pass through costs shows the pass through amounts for the assessment period, the amounts we forecast for the assessment period when setting prices, and actual amounts for the prior period:

| Pass through costs           |                           | FY18<br>actual | FY18<br>forecast | FY17<br>actual |
|------------------------------|---------------------------|----------------|------------------|----------------|
|                              | IM reference <sup>3</sup> | \$000          | \$000            | \$000          |
| Local authority rates        | 3.1.2(2)(a)               | 3,699.4        | 3,642.0          | 3,462.0        |
| Electricity Authority levies | 3.1.2(2)(b)(ii)           | 564.8          | 580.0            | 589.6          |
| Commerce Commission levies   | 3.1.2(2)(b)(i)            | 376.0          | 300.0            | 397.2          |
| Utilities Disputes charges   | 3.1.2(2)(b)(iii)          | 103.6          | 90.0             | 99.3           |
| Total pass through costs     |                           | 4,743.8        | 4,612.0          | 4,548.1        |

<sup>11</sup> 

<sup>&</sup>lt;sup>3</sup> Clause reference to the Electricity Distribution Services Input Methodologies Determination 2012 NZCC 26

#### Variances from forecasts

- Clause 10.3(c) of the CPP determination requires an explanation of any differences between forecast and actual pass through and recoverable costs. Such variances are normal and expected, because forecasts, by their very nature, are predictions or estimates. In many cases there is no concise reason for the variation other than to observe that the result was different.
- The following table shows recoverable costs and pass through costs from above where the actual result varied by more than 2% from the forecast amount for FY18, and provides an explanation of each variance.

| Cost category                     | Variance |        | Explanation   |
|-----------------------------------|----------|--------|---|
|                                   | \$000    | %      |   |
| Transpower connection charges     | (163.0)  | -3.4%  | A transformer at Bromley grid exit point was taken out of service<br>part way through the year (earlier than expected) and charges<br>were reduced.                           |
| Export and generation credits     | (46.5)   | -23.7% | We set prices in advance but forecast the duration of signalling<br>and estimate the customer response. Actual duration and<br>customer response was lower than our forecast. |
| Electricity Authority<br>levies   | (15.2)   | -2.6%  | Levies varied from the amount forecast.   |
| Commerce Commission levies        | 76.0     | +25.3% | Levies were greater than forecast. The main contributor was the prior period wash up charge.  |
| Utilities Disputes scheme charges | 13.6     | +15.1% | Charges varied from the amount forecast.  |

#### Revenue excluded from the price path assessment

- **Other revenue** We directly charge customers for very few other services, and make extensive use of external contractors rather than maintaining contracting staff in-house. Customers requiring electrical work are generally referred to their own electrical contractor, or to a number of Orionapproved contractors for major work. Customers then pay the contractor directly. We provide other services without charge (such as decommissioning of connections).
- The sundry revenue we do receive is from services including rentals from Vodafone cabling, advertising, leasing, temporary supply box hire, limited field service activities and upper South Island load coordination services. The Commerce Commission has deducted this sundry revenue in establishing our maximum allowable revenue (MAR) figure. Consistent with this, we have not included this revenue in our notional revenue calculation which is compared against allowable notional revenue (which is derived from the initial MAR).
- **Capital contributions** Assets vested in Orion by customers in the form of capital contributions are taken at nil value, are not added to our regulatory asset base and are therefore excluded from this price path assessment.
- Consistent with this exclusion, revenue from cash capital contributions, which is taken to offset the asset value in our regulatory asset base, is also excluded from this price path assessment.

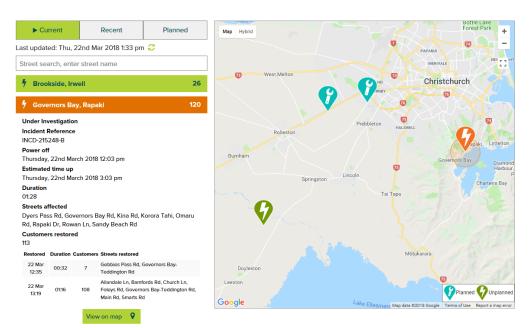
## QUALITY STANDARD SUPPORTING INFORMATION

- 36 The CPP determination sets out a quality standard that considers reliability results against reliability limits set for each year of the 5 year regulatory period. To comply, Orion must demonstrate that it has either met the reliability limits in the assessment period, or has met the reliability limits in the two preceding extant assessment periods.
- 37 Two measures of reliability are assessed:
  - 37.1 SAIDI, or system average interruption duration index, which reflects the average number of minutes a customer is off in a year, and
  - 37.2 SAIFI, or system average interruption frequency index, which reflects the average number of interruptions a customer has in a year.
- The following section describes our policies and procedures for recording outage information, and this is followed by a summary of the calculation of our reliability results.

#### **Recording reliability information**

- 39 Orion operates an outage management system as part of its "PowerOn" SCADA network management system. The system maintains a live connectivity model of our high voltage network which includes information on customer connection points, and where each connection point is fed from.
- 40 For planned outages and following network faults, our network controllers follow sequential operating orders to carry out switching and configuration changes on the network to bypass affected assets and facilitate planned or remedial work. At each point during these operating orders PowerOn shows the number of connections affected, together with switching points and switching times.
- Initially, both planned and unplanned outages are reported on our website providing a live display of outages together with a map showing location, for example:

## **Power Outages**



- 42 Our network management system, PowerOn, automatically collates a record of outage results within the system. Power is often restored in stages, and PowerOn automatically assesses how many customers are affected by each stage and records details separately for each restoration stage.
- To provide an example, the outage entry showing above was collated in the PowerOn system and recorded as follows:

| Excluding incidents affecting no customers Outage Statistics for Date Range |                 |           |                |        |                   |                   |          |        | for Date Range |         |   |
|---|-----------------|-----------|----------------|--------|-------------------|-------------------|----------|--------|----------------|---------|---|
| Date  | Incident #      | Job #     | Туре           | Stages | Off               | On                | Mins Off | # Ints | Cust Mins      | Planned | = Description                                   |
| = 22-Mar-18   |                 | 11        | 5              |        |                   |                   | 1822     | 2524   | 59216          |         |   |
|   | E INCD-215248-B | F-20896-B | Orion Fault HV |        | 22/03/18 12:03:43 | 22/03/18 16:59:00 | 295.3    | 418    | 39980          | 0       | Teddington 25 - HA8/38 , CB 111 - Governors Bay |
|   |                 |           | Stage No:      | 1      | 22/03/18 12:03:43 | 22/03/18 12:35:00 | 31.3     | 6      | 188            |         |   |
|   |                 |           | Stage No:      | 2      | 22/03/18 12:03:43 | 22/03/18 13:14:00 | 70.3     | 107    | 7520           |         |   |
|   |                 |           | Stage No:      | 3      | 22/03/18 12:03:43 | 22/03/18 14:04:00 | 120.3    | 46     | 5533           |         |   |
|   |                 |           | Stage No:      | 4      | 22/03/18 12:03:43 | 22/03/18 14:24:00 | 140.3    | 26     | 3647           |         |   |
|   |                 |           | Stage No:      | 5      | 22/03/18 14:26:06 | 22/03/18 14:41:57 | 15.8     | 159    | 2 5 2 0        |         |   |
|   |                 |           | Stage No:      | 6      | 22/03/18 15:59:00 | 22/03/18 16:55:00 | 56.0     | 46     | 2576           |         |   |
|   |                 |           | Stage No:      | 7      | 22/03/18 14:28:00 | 22/03/18 16:55:00 | 147.0    | 26     | 3822           |         |   |
|   |                 |           | Stage No:      | 8      | 22/03/18 12:03:43 | 22/03/18 16:59:00 | 295.3    | 48     | 14174          |         |   |

| Zon  | e       | Voltage | Substation          | Feeder   | Controller<br>Comments | Tripped Device                                  | = Cause Group | Cause Type              | Planned<br>Reason | Cause<br>Comments | Work Type                      | Failed<br>Asset | Failure<br>Mode |
|------|---------|---------|---------------------|----------|------------------------|---|---------------|-------------------------|-------------------|-------------------|--------------------------------|-----------------|-----------------|
| Tedd | lington | 11kv    | Teddington - HA8/38 | Unit 111 |                        |   | Asset Failure | Condition Deterioration |                   | By Pass ABI       | 11 kV OH<br>Emergency<br>Maint | HV Line         | OH Insulato     |
|      |         |         |                     |          |                        | Teddington ZS - HA8/38 , CB 111 - Governors Bay |               |                         |                   |                   |                                |                 |                 |
|      |         |         |                     |          |                        | Teddington ZS - HA8/38 , OB 111 - Governors Bay |               |                         |                   |                   |                                |                 |                 |
|      |         |         |                     |          |                        | Teddington ZS - HA8/38 , CB 111 - Governors Bay |               |                         |                   |                   |                                |                 |                 |
|      |         |         |                     |          |                        | Teddington ZS - HA8/38 , CB 111 - Governors Bay |               |                         |                   |                   |                                |                 |                 |
|      |         |         |                     |          |                        | Teddington ZS - HA8/38 , CB 111 - Governors Bay |               |                         |                   |                   |                                |                 |                 |
|      |         |         |                     |          |                        | Main Rd - HA3/8, ABI                            |               |                         |                   |                   |                                |                 |                 |
|      |         |         |                     |          |                        | Governors Bay Rd - HA3/19                       |               |                         |                   |                   |                                |                 |                 |
|      |         |         |                     |          |                        | Teddington ZS - HA8/38 , CB 111 - Governors Bay |               |                         |                   |                   |                                |                 |                 |

- 44 Note that the website screenshot was taken part way through the outage, and during restoration work additional connections were affected and recorded as separate stages to the outage.
- The results in the above outage statistics report are checked for accuracy by our network control centre, with results reviewed against operating orders. At the end of each month, following checks and validation, a final report for the month is signed off by the control centre manager.
- 46 For each outage the following details are recorded:
  - 46.1 interruption type (planned or unplanned, originating on Orion's network or on Transpower's network);
  - 46.2 district substation affected;
  - 46.3 feeder affected;
  - 46.4 asset type affected;
  - 46.5 cause of interruption;
  - 46.6 time/date off for each loss of supply stage;
  - 46.7 time/date for each restoration stage;
  - 46.8 number of consumers affected in each stage; and
  - 46.9 explanatory notes.

47 Finally, to establish our system-average reporting measures, the total number of connected consumers on the network is obtained from our connections database. We maintain details of all our network connections on this database, and we regularly undertake reconciliations with the Electricity Authority Registry.

#### System fixed assets transferred from Transpower

- 48 Clause 10.5 of the CPP determination requires us to demonstrate whether or not assets transferred during the assessment period have increased our assessed reliability values. Orion did not transfer any system fixed assets from Transpower during the assessment period, so there is no impact on assessed values.
- 49 However, there were interruptions recorded on assets transferred from Transpower prior to the assessment period. These interruptions contributed and are included in our assessed values as follows:

| Assets involved                   | Bromley zone substation   | Springston zone substation   |
|-----------------------------------|---|--|
| Date purchased form<br>Transpower | 1 April 2014  | 31 March 2014  |
| Fault number                      | INCD-196702-B / INCD-196705-B   | INCD-200527-B  |
| Date                              | 29/05/2017  | 22/07/2017   |
| Cause                             | Plant failure – Faulty 66kV Disconnect  | Plant failure during storm   |
| Description                       | As a result of equipment taken out of<br>service for maintenance, current was<br>distributed over the remaining equipment<br>and the 66kV Disconnect failed under the<br>additional load. | During a 48 hour period of torrential rain<br>and gale force winds, a tap changer<br>failed on the 66kV Transformer in<br>Springston GXP. A loss of supply was<br>suffered by Springston, Lincoln,<br>Rolleston, Highfield, Motukarara, Hills<br>Rd, Teddington, Duvauchelle, Diamond<br>Harbour and Little River zone<br>substations. |
| Connections affected              | 24,983  | 16,152   |
| Connection minutes lost           | 354,371   | 880,971  |
| Average outage duration           | 14 minutes  | 55 minutes   |
| Contribution to SAIDI             | 1.8 minutes   | 4.6 minutes  |
| Contribution to SAIFI             | 0.13 interruptions  | 0.08 interruptions   |

50 These ex-transmission assets supply wide areas and the contribution to outage results, particularly to SAIFI, is significant. Further, unlike the updated default price path determinations, our customised price path does not allow for these short duration events to be classified as extreme event days, and our SAIFI cap of 0.07 per day is not able to be applied.

#### **Reliability limits**

51 The reliability limits are given in table 2 of schedule 3 of the CPP determination as:

|             | FY18 | FY17 | FY16 |
|-------------|------|------|------|
| SAIDI LIMIT | 82.4 | 91.0 | 94.7 |
| SAIFI LIMIT | 1.02 | 1.16 | 1.21 |

#### **Assessed values**

- 52 The total duration and number of outages is accumulated to calculate the SAIDI and SAIFI indices. The results (prior to normalising the data for extreme events) were:
  - 52.1 Duration of interruptions:

|                                  | FY18       | FY17       | FY16       |
|----------------------------------|------------|------------|------------|
| Unplanned minutes lost (class C) | 12,931,922 | 13,409,857 | 18,596,504 |
| Planned minutes lost (class B)   | 2,869,551  | 2,245,566  | 3,210,010  |
|                                  | 15,801,473 | 15,655,423 | 21,806,514 |
|                                  |            |            |            |
| Average number of customers      | 199,838    | 196,421    | 192,857    |
|                                  |            |            |            |
| SAIDI                            |            |            |            |
| Unplanned                        | 64.71      | 68.27      | 96.43      |
| Planned                          | 14.36      | 11.43      | 16.64      |
| Total                            | 79.07      | 79.70      | 113.07     |

#### 52.1 Frequency of interruptions:

|                             | FY18    | FY17    | FY16    |
|-----------------------------|---------|---------|---------|
| Unplanned outages (class C) | 185,663 | 143,544 | 216,846 |
| Planned outages (class B)   | 13,321  | 8,014   | 12,245  |
|                             | 198,984 | 151,558 | 229,091 |
| Average number of customers | 199,838 | 196,421 | 192,857 |
| SAIFI                       |         |         |         |
| Unplanned                   | 0.93    | 0.73    | 1.12    |
| Planned                     | 0.07    | 0.04    | 0.06    |
| Total                       | 1.00    | 0.77    | 1.19    |

#### Normalising the reliability results

- The CPP determination provides for the normalisation of reliability results to mitigate the impact of extreme events and provide a view of underlying network reliability. In the current assessment period we identified one day that met the definition of a major event day (MED) when the daily SAIDI exceeded the 5.0 minute boundary value given in the CPP determination. Major event days for prior assessment periods (as identified in prior compliance statements) use higher boundary values.
- 54 The assessment dataset is normalised by adjusting the results on major event days by replacing the daily SAIDI with the applicable SAIDI boundary value, and reducing the daily SAIFI to the applicable SAIFI boundary value (if it is greater). The normalisation changes for prior and the current assessment period are:

| Date                | Daily SAIDI<br>adjustment | Daily SAIFI<br>adjustment | Cause  |
|---------------------|---------------------------|---------------------------|--|
| FY16                |                           |                           |  |
| 18 June 2015        | 23.73<br>reduced to 5.7   | 0.027<br>unchanged        | A major snow storm occurred affecting the inland rural area of our network, west of Darfield. Some   |
| 19 June 2015        | 8.52<br>reduced to 5.7    | 0.028<br>unchanged        | <ul> <li>extended outages occurred where access became<br/>difficult including in our remote Coleridge and Castle<br/>Hill distribution areas.</li> </ul>  |
| 10 October 2015     | 6.79<br>reduced to 5.7    | 0.082<br>reduced to 0.08  | Fault protection tripped at our 33kV Springston<br>substation as a result of bird nesting in the<br>substation equipment. This caused a widespread<br>outage affecting almost 16,000 rural customers. The<br>majority were restored in just over an hour and the<br>rest were progressively restored over the following 4<br>hours.  |
| FY17                |                           |                           |  |
| 5 November 2016     | 6.39<br>reduced to 5.5    | 0.009<br>unchanged        | An early morning fault occurred at the termination<br>of our double-circuit overhead line that feeds<br>Lyttelton, damaging both circuits, and cutting power<br>to 1700 connections in the area. We deployed<br>generators to key loads in the township and restored<br>full supply by 5pm. The close physical proximity of<br>the two feeder circuits is an issue and we are part<br>way through a project to address this, as well as<br>working with a third party to establish an alternative<br>supply route. |
| FY18 (current asses | sment period)             |                           |  |
| 22 January 2018     | 5.02<br>reduced to 5.0    | 0.062<br>unchanged        | <ul> <li>This was caused by a number of smaller events coinciding, the main contributors being:</li> <li>Two 33kV cable joint faults feeding Hornby zone substation that occurred at the same time as planned work by Transpower, which delayed restoration, and</li> <li>A 33kV cable termination fault in the feed to</li> </ul>   |

55 Applying the normalisation adjustments to our calculated SAIDI and SAIFI results provides a result that is compared to the respective limits, as follows:

#### 55.1 Duration of interruptions:

|                                 | FY18   | FY17   | FY16    |
|---------------------------------|--------|--------|---------|
| SAIDI result                    | 79.07  | 79.70  | 113.07  |
| less normalisation adjustments  | (0.02) | (0.89) | (21.94) |
| Normalised SAIDI*               | 79.05  | 78.81  | 91.13   |
|                                 |        |        |         |
| Annual SAIDI Limit (from above) | 82.40  | 91.0   | 94.7    |
|                                 |        |        |         |
| Annual reliability result       | Comply | Comply | Comply  |

\* Calculated from unrounded components which affects the result

#### 55.2 Frequency of interruptions:

|                                 | FY18   | FY17   | FY16    |
|---------------------------------|--------|--------|---------|
| SAIFI result                    | 1.00   | 0.77   | 1.19    |
| less normalisation adjustments  | 0.00   | 0.00   | (0.002) |
| Normalised SAIFI*               | 1.00   | 0.77   | 1.19    |
| Annual SAIFI Limit (from above) | 1.02   | 1.16   | 1.21    |
| Annual reliability result       | Comply | Comply | Comply  |

\* Calculated from unrounded components which affects the result

- 56 Clause 8.1 of the CPP determination requires that we either:
  - 56.1 comply with the annual reliability requirement for the assessment period (FY18), or
  - 56.2 have complied with the annual reliability requirement in both the preceding two extant assessment periods (FY16 and FY17).
- 57 We have complied with both tests.

## TRANSACTIONS

#### Large transactions and amalgamations

- 58 We have not been a party to any large transactions during the assessment period that would meet the thresholds in clause 9.1 of the CPP determination.
- 59 We have not completed an amalgamation or merger during the assessment period in terms of clause 9.2 of the CPP determination.
- 60 We have not been involved in a transfer of assets governed by clause 9.3 of the CPP determination during the assessment period.

#### **APPENDIX A – DELIVERY AND EXPORT PRICE SCHEDULES**

## **Delivery prices**



(applicable from 1 April 2017 to 31 March 2018)

This schedule lists the wholesale prices that Orion uses to charge electricity retailers and directly contracted customers for the electricity delivery service in Orion's network area. This delivery service includes the transmission and distribution of electricity to homes and businesses, but does not include the cost of the electricity itself. Please refer to your electricity retailer for details of retail electricity prices.

|   | Price Component<br>Code <sup>3</sup> | Delivery<br>Price     | All prices exclud<br>GST |
|---|--------------------------------------|-----------------------|--------------------------|
| Streetlighting connections                                | a                                    | pprox 48,266 connecti | ions                     |
| Fixed charge  | STFXD                                | 0.1129                | \$/con/day               |
| Peak charge (peak period demand)                          | GENPK                                | 0.5310                | \$/kW/day                |
| Volume charge   |                                      |                       |                          |
| Weekdays (Mon to Fri, 7am to 9pm)                         | VOLWD                                | 0.08773               | \$/kWh                   |
| Nights & weekends (Sat & Sun)                             | VOLNW                                | 0.01125               | \$/kWh                   |
| General connections                                       | a                                    | pprox 198,087 connec  | tions                    |
| Peak charge (peak period demand)                          | GENPK                                | 0.5310                | \$/kW/day                |
| Volume charge   |                                      |                       |                          |
| Weekdays (Mon to Fri, 7am to 9pm)                         | VOLWD                                | 0.08773               | \$/kWh                   |
| Nights & weekends (Sat & Sun)                             | VOLNW                                | 0.01125               | \$/kWh                   |
| Low power factor charge                                   | LOWPF                                | 0.2000                | \$/kVAr/day              |
| Irrigation connections                                    | a                                    | pprox 1,102 connectio | ns                       |
| Capacity charge   | ICCAP                                | 0.4197                | \$/kW/day*               |
| Volume charge   |                                      |                       |                          |
| Weekdays (Mon to Fri, 7am to 9pm)                         | VOLWD                                | 0.08773               | Ś/kWh                    |
| Nights & weekends (Sat & Sun)                             | VOLNW                                | 0.01125               | \$/kWh                   |
| Rebates   |                                      |                       |                          |
| Power factor correction rebate                            | ICPFC                                | (0.1793)              | \$/kVAr/day*             |
| Interruptibility rebate                                   | ICIRR                                | (0.0448)              | \$/kW/day*               |
| * applied from 1 October to 31 March only                 |                                      |                       |                          |
| Major customer and embedded network connections           | a                                    | pprox 404 connections | 5                        |
| Fixed charge  | MCFXD                                | 1.8900                | \$/con/day               |
| Extra switches  | EQESW                                | 3.5400                | \$/switch/day            |
| 11kV Metering equipment                                   | EQMET                                | 4.2900                | \$/con/day               |
| 11kV Underground cabling                                  | EQUGC                                | 3.1700                | \$/km/day                |
| 11kV Overhead lines                                       | EQOHL                                | 2.0000                | \$/km/day                |
| Transformer capacity                                      | EQTFC                                | 0.0133                | \$/kVA/day               |
| Peak charge (control period demand)                       | MCCPD                                | 0.4857                | \$/kVA/day               |
| Nominated maximum demand                                  | MCNMD                                | 0.1049                | \$/kVA/day               |
| Metered maximum demand                                    | MCMMD                                | 0.0848                | \$/kVA/day               |
| Large capacity connections                                | 1                                    | 2 connections         |                          |
| Individually assessed prices advised and charged directly | to the customers                     |                       |                          |
| Miscellaneous   |                                      |                       |                          |
| Monthly invoice and contract charge to                    | INVFXD                               | 30.00                 | \$/invoice               |
| retailers and directly contracted customers               |                                      |                       |                          |

Notes

1. Full details on how we apply these prices are included in our Pricing Policy document, available on our website.

2. Peak and volume prices for streetlighting, general connections and irrigation connections are applied to peak loadings and volumes derived from measurements taken at grid exit points, and it is appropriate to allow for normal network losses when assessing the contribution individual connections make to these charges. All other prices in this schedule are applied against measurements or ratings taken at the connection.

3. The price component code is used in our mandatory 'electricity information exchange protocol' files.

## **Delivery prices**



This schedule lists the wholesale prices that Orion uses to charge electricity retailers and directly contracted customers for the electricity delivery service in Orion's network area. This delivery service includes the transmission and distribution of electricity to homes and businesses, but does not include the cost of the electricity itself. Please refer to your electricity retailer for details of retail electricity prices.

|   | Price Component<br>Code <sup>3</sup> | Delivery<br>Price     | All prices exclud<br>GST |
|---|--------------------------------------|-----------------------|--------------------------|
| Streetlighting connections                                | a                                    | pprox 47,119 connect  | ions                     |
| Fixed charge  | STFXD                                | 0.1166                | \$/con/day               |
| Peak charge (peak period demand)                          | GENPK                                | 0.5325                | \$/kW/day                |
| Volume charge   |                                      |                       |                          |
| Weekdays (Mon to Fri, 7am to 9pm)                         | VOLWD                                | 0.08642               | \$/kWh                   |
| Nights & weekends (Sat & Sun)                             | VOLNW                                | 0.01106               | \$/kWh                   |
| General connections                                       | а                                    | pprox 192,636 connec  | tions                    |
| Peak charge (peak period demand)                          | GENPK                                | 0.5325                | \$/kW/day                |
| Volume charge   |                                      |                       |                          |
| Weekdays (Mon to Fri, 7am to 9pm)                         | VOLWD                                | 0.08642               | \$/kWh                   |
| Nights & weekends (Sat & Sun)                             | VOLNW                                | 0.01106               | \$/kWh                   |
| Low power factor charge                                   | LOWPF                                | 0.2000                | \$/kVAr/day              |
| Irrigation connections                                    | a                                    | pprox 1,122 connectio | ons                      |
| Capacity charge   | ICCAP                                | 0.4920                | \$/kW/day*               |
| Volume charge   |                                      |                       |                          |
| Weekdays (Mon to Fri, 7am to 9pm)                         | VOLWD                                | 0.08642               | \$/kWh                   |
| Nights & weekends (Sat & Sun)                             | VOLNW                                | 0.01106               | \$/kWh                   |
| Rebates   |                                      |                       |                          |
| Power factor correction rebate                            | ICPFC                                | (0.1793)              | \$/kVAr/day*             |
| Interruptibility rebate                                   | ICIRR                                | (0.0448)              | \$/kW/day*               |
| * applied from 1 October to 31 March only                 |                                      |                       |                          |
| Major customer and embedded network connections           | а                                    | pprox 387 connection  | 5                        |
| Fixed charge  | MCFXD                                | 1.8565                | \$/con/day               |
| Extra switches  | EQESW                                | 5.0100                | \$/switch/day            |
| 11kV Metering equipment                                   | EQMET                                | 7.0500                | \$/con/day               |
| 11kV Underground cabling                                  | EQUGC                                | 2.9500                | \$/km/day                |
| 11kV Overhead lines                                       | EQOHL                                | 1.9100                | \$/km/day                |
| Transformer capacity                                      | EQTFC                                | 0.0168                | \$/kVA/day               |
| Peak charge (control period demand)                       | MCCPD                                | 0.4891                | \$/kVA/day               |
| Nominated maximum demand                                  | MCNMD                                | 0.0899                | \$/kVA/day               |
| Metered maximum demand                                    | MCMMD                                | 0.1001                | \$/kVA/day               |
| Large capacity connections                                | 1                                    | 2 connections         |                          |
| Individually assessed prices advised and charged directly | to the customers                     |                       |                          |
| Miscellaneous   |                                      |                       |                          |
| Monthly invoice and contract charge to                    | INVFXD                               | 30.00                 | \$/invoice               |
| retailers and directly contracted customers               |                                      |                       |                          |

Notes

1. Full details on how we apply these prices are included in our Pricing Policy document, available on our website.

2. Peak and volume prices for streetlighting, general connections and irrigation connections are applied to peak loadings and volumes derived from measurements taken at grid exit points, and it is appropriate to allow for normal network losses when assessing the contribution individual connections make to these charges. All other prices in this schedule are applied against measurements or ratings taken at the connection.

3. The price component code is used in our mandatory 'electricity information exchange protocol' files.



## **Export and generation credits**

(applicable from 1 April 2017 to 31 March 2018)



This schedule lists the credit prices that we use to credit electricity retailers or directly contracted customers for exports or contributions from their distributed generation. The credits do not represent the purchase of electricity. They are a recognition of the value to Orion in providing its delivery service. Credits are only available for generation approved by Orion and customers must apply in advance. For further details refer to our *Export and Generation Credits Policy* document, available on our website.

#### Export credit pricing

Orion provides credits for electricity exported on to Orion's network during specified periods. The prices for these credits are:

| Generator rated output                         | Period applied         | Price Component<br>Code <sup>3</sup> | Credit<br>Price | All prices exclude<br>GST |
|--|------------------------|--------------------------------------|-----------------|---------------------------|
| 0 - 30kW generation <sup>2</sup>               |                        |                                      |                 |                           |
| Anytime credits (without PV), or               | Anytime                | EXPA                                 | 0.00930         | \$/kWh                    |
| Anytime credits (with PV)                      | (24 hours, 7 days)     | EXPAPV                               | 0.00030         | \$/kWh                    |
| 0 - 30kW generation <sup>2</sup>               |                        |                                      |                 |                           |
| Peak period credits<br>(with or without PV)    | Chargeable peak period | EXPPP                                | 0.64860         | \$/kWh                    |
| 30 - 750kW Control period credits <sup>4</sup> |                        |                                      |                 |                           |
| - real power, plus                             | Chargeable control     | EXPCP1                               | 0.2221          | \$/kW/day                 |
| - reactive power <sup>5</sup>                  | period                 | EXPCP2                               | 0.0298          | \$/kVAr/day               |

above 750kW

Individually assessed prices provided on application

#### Notes for export credit pricing

- 1. Full details covering generation and metering requirements and application of prices are included in our Export and Generation Credits Policy document, available on Orion's website.
- Small 0 to 30kW generators may elect (in advance) to receive the alternative peak period based credits, subject to the installation
  of appropriate metering to record peak period export.
- 3. The price component code is used in our mandatory 'electricity information exchange protocol' files.
- 4. Control period credits are assessed during control periods and applied as an annual credit at 365 times the daily credit price.
- 5. Credit quantities for reactive power (kVAr) export is limited to 33% of the credit quantity for real power (kW) export in each half hour period, the equivalent of exporting with a 0.95 lagging power factor.
- 6. Approximately 18 connections are approved for export credits.

#### Generation credit pricing (closed)

The generation credits arrangement is closed and is not available to any new generation. For existing participating generation we signal "generation periods" and provide a credit that reflects generation support provided at times when the export credit (above) is not available. These credits are based on the generated volume, regardless of whether this results in export from the connection.

| Generator rated output  | Period applied                             | Price Component<br>Code <sup>3</sup> | Credit<br>Price | All prices exclude<br>GST |
|---|--|--------------------------------------|-----------------|---------------------------|
| All participating generation<br>(not available to any further generation) | Orion's ripple signalled generation period | GEN1                                 | 0.50000         | \$/kWh                    |

#### Notes for generation credit pricing

- 1. Full details covering generation and metering requirements and application of prices are included in our *Export and Generation Credits Policy* document, available on Orion's website.
- 2. These prices apply for the current group of approved generation during our ripple signalled generation period. The total duration of generation periods is likely to vary significantly from year to year. In some years there may be no generation periods.
- 3. The price component code is used in our mandatory 'electricity information exchange protocol' files.
- 4. Approximately 16 connections are approved for generation credits.

## **Export and generation credits**

(applicable from 1 April 2016 to 31 March 2017)



This schedule lists the credit prices that we use to credit electricity retailers or directly contracted customers for exports or contributions from their distributed generation. The credits do not represent the purchase of electricity. They are a recognition of the value to Orion in providing its delivery service. Credits are only available for generation approved by Orion and customers must apply in advance. For further details refer to our *Export and Generation Credits Policy* document, available on our website.

#### Export credit pricing

Orion provides credits for electricity exported on to Orion's network during specified periods. The prices for these credits are:

| Generator rated output                         | Period applied         | Price Component<br>Code <sup>3</sup> | Credit<br>Price | All prices exclude<br>GST |
|--|------------------------|--------------------------------------|-----------------|---------------------------|
| 0 - 30kW generation <sup>2</sup>               |                        |                                      |                 |                           |
| Anytime credits (without PV), or               | Anytime                | EXPA                                 | 0.01128         | \$/kWh                    |
| Anytime credits (with PV)                      | (24 hours, 7 days)     | EXPAPV                               | 0.00039         | \$/kWh                    |
| 0 - 30kW generation <sup>2</sup>               |                        |                                      |                 |                           |
| Peak period credits<br>(with or without PV)    | Chargeable peak period | EXPPP                                | 0.79020         | \$/kWh                    |
| 30 - 750kW Control period credits <sup>4</sup> |                        |                                      |                 |                           |
| - real power, plus                             | Chargeable control     | EXPCP1                               | 0.2706          | \$/kW/day                 |
| - reactive power <sup>5</sup>                  | period                 | EXPCP2                               | 0.0299          | \$/kVAr/day               |

above 750kW

Individually assessed prices provided on application

#### Notes for export credit pricing

- 1. Full details covering generation and metering requirements and application of prices are included in our Export and Generation Credits Policy document, available on Orion's website.
- Small 0 to 30kW generators may elect (in advance) to receive the alternative peak period based credits, subject to the installation
  of appropriate metering to record peak period export.
- 3. The price component code is used in our mandatory 'electricity information exchange protocol' files.
- 4. Control period credits are assessed during control periods and applied as an annual credit at 365 times the daily credit price.
- 5. Credit quantities for reactive power (kVAr) export is limited to 33% of the credit quantity for real power (kW) export in each half hour period, the equivalent of exporting with a 0.95 lagging power factor.
- 6. Approximately 18 connections are approved for export credits.

#### Generation credit pricing

In addition to the credits above, Orion provides credits for generation at other times. These credits are based on the generated volume, regardless of whether this results in export from the connection, and are available to consumers with generation in excess of 500kW.

| Generator rated output         | Period applied                             | Price Component<br>Code <sup>3</sup> | Credit<br>Price | All prices exclude<br>GST |
|--------------------------------|--|--------------------------------------|-----------------|---------------------------|
| 500 - 1200kW Generation period | Orion's ripple signalled generation period | GEN1                                 | 0.60000         | \$/kWh                    |
| above 1200kW                   | Individually assessed price                | s provided on application            |                 |                           |

#### Notes for generation credit pricing

- 1. Full details covering generation and metering requirements and application of prices are included in our *Export and Generation Credits Policy* document, available on Orion's website.
- These prices apply for pre-approved generation during our ripple signalled generation period. The total duration of generation periods is likely to vary significantly from year to year. In some years there may be no generation periods.
- 3. The price component code is used in our mandatory 'electricity information exchange protocol' files.
- 4. Approximately 16 connections are approved for generation credits.

#### APPENDIX B - EVIDENCE OF RECOVERABLE COST AMOUNTS PAID TO TRANSPOWER

The invoices below provide the evidence required by clause 10.3(e) of the determination of charges paid to Transpower and included as recoverable costs. A representative set of monthly invoices (January 2017) is shown for amounts that remain the same for most of the year.

The amounts included in the invoices below can be cross-referenced against all recoverable cost amounts paid to Transpower included in the schedule in Appendix D.

| TRA  | N S P O W E R Transpower New Zealand Ltd Th                  | e National Grid PO Box 1021<br>Wellington 6140<br>New Zealand  | <ul> <li>64 04 495 7000</li> <li>64 04 495 6968</li> <li>revenue@transprover.co.ii</li> <li>Keeping the energy flowing</li> </ul> |
|--|--|--|---|
| Orion New Zeal<br>PO BOX 13896<br>CHRISTCHURCH |  | Tax Invoice         0001102           GST No:         50-038-0           Invoice Date:         21/04/20           Customer ID:         ORON           Account Manager:         Nicola D           Due Date:         20/05/20           Page:         1 | 057<br>017<br>ownes-Hogg  |
| Reference                                      | Description  | Amount   |   |
| Arthurs Pass                                   | Connection Charge for Apr 2017                               | 13,125.19 🗸  |   |
| Arthurs Pass                                   | Interconnection Charge for Apr 2017<br>Sub-Total Arthurs Par | 1,756.38 🗸   | 14,881.57   |
| Bromley  | Connection Charge for Apr 2017                               | 164,850.33 🗸   |   |
| Bromley  | Interconnection Charge for Apr 2017<br>Sub-Total Bromley     | 1,110,612.84 🗸   | 1,275,463.17  |
| Castle Hill                                    | Connection Charge for Apr 2017                               | 10,440.68  | 1   |
| Castle Hill                                    | Interconnection Charge for Apr 2017<br>Sub-Total Castle Hill | 2,944.53 🧹   | 13,385.21   |
| Coleridge                                      | Connection Charge for Apr 2017                               | 12,052.36 🦯  |   |
| Coleridge                                      | Interconnection Charge for Apr 2017<br>Sub-Total Coleridge   | 2,159.32 🧹   | 14,211.68   |
| Hororata                                       | Connection Charge for Apr 2017                               | 41,700.05 🦯  | 1   |
| Hororata                                       | Interconnection Charge for Apr 2017<br>Sub-Total Hororata    | 248,827.86 🧹   | 290,527.91  |
| Islington                                      | Connection Charge for Apr 2017                               | 154,849.51 🗸   |   |
| Islington                                      | Interconnection Charge for Apr 2017<br>Sub-Total Islington   | 3,992,011.36 🗸   | 4,146,860.87  |
| Kimberley                                      | Interconnection Charge for Apr 2017                          | 76,371.68 🗸  |   |

| TR  | A N S P O W E R | Transpower New Zealand                     | Ltd The National Grid  | PO Box 1021<br>Wellington 6140<br>New Zealand | <ul> <li>F 54 04 495 7000</li> <li>F 64 04 495 6958</li> <li>revenue/@transpower.co.m</li> <li>Keeping the energy flowing</li> </ul> |
|---|-----------------|--|--|---|--|
| Orion New Ze<br>PO BOX 13896<br>CHRISTCHURC |                 |  | Tax Invoice<br>GST No:<br>Invoice Date:<br>Customer ID:<br>Account Man<br>Due Date:<br>Page: | 50-038-0<br>21/04/20<br>ORON                  | 57<br>17<br>ownes-Hogg   |
| Reference                                   | Description     |  |  | Amount  |  |
| Kimberley                                   | 2017            | Charges at Kimberle<br>Sub-Total Kimberley |  | 1,813.78 🦯                                    | 78,185.46  |
|   |                 |  | Jou to   | lay.<br>>. 1/5/17.                            |  |
|   |                 |  |  | 5   |  |
|   |                 |  |  |   |  |
|   |                 |  |  | Net Total:<br>GST:<br>Total:                  | \$5,833,515.87<br>\$875,027.38<br>\$6,708,543.25   |

| Contraction of the local division of the loc |   |   |   |   |   |   |
|--|---|---|---|---|---|---|
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|  |   |   |   |   |   |   |

SPOWER Transpower New 2

Transpower New Zealand Ltd The National Grid

New Zealand

revenue@transpower.co.nz

Keeping the energy flowing

Orion New Zealand Limited PO BOX 13896 CHRISTCHURCH 8141 Tax Invoice GST No: Invoice Date: Customer ID: Account Manager: Due Date: Page:

0001102830 50-038-057 21/04/2017 ORON Nicola Downes-Hogg 20/05/2017 1 of 1

| Reference                     |          | Description   | Amount                       |   |
|-------------------------------|----------|---|------------------------------|---|
| Bromley                       | 60073-61 | New Investment Charge - Bromley Third<br>220/66 kV Transformer T7 for Apr 2017<br>Sub-Total Bromley | 64,000.00 🗸                  | 64,000.00                                   |
| B615010<br>Hororata<br>R20630 | 602 24   | New Investment Charge for additional<br>66kV feeder for Apr 2017                                    | 1,949.38 🧹                   |   |
| B615010<br>Hororata           | 1347.14  | New Investment Charge for Hororata<br>Connection for Fonterra Dairy Factory                         | 1,919.00 🧹                   |   |
| R206730                       | 754-13   | for Apr 2017  |                              |   |
| B615010                       | 1164-57  | Sub-Total Hororata  |                              | 3,868.38                                    |
| Islington                     |          | CIC Charge for ADD and MLN Asset  | 7,464.21 🗸                   |   |
| RIGETZO                       |          | Transfer Build ISL-CUS-12366-ORON for<br>Apr 2017   |                              |   |
| BLISOIO<br>Islington          |          | CIC Charge for Jelington SEW/ Matering  | 13,218.00                    |   |
| R 206730                      | 8016.76  | project for Papanul and Springston -<br>Final for Apr 2017  | °                            |   |
| BLISOID                       | 5201-24  | Sub-Total Islington   |                              | 20,682.21                                   |
| Kimberley                     |          | New Investment Charge for Kimberley for   | 84,471.00                    |   |
| RJ06730                       | 31223    | Apr 2017<br>Sub-Total Kimberley   |                              | 84,471.00                                   |
| 8615010                       | 54245-1  | JOK   | 10 Pay<br>D. 1517            | ß   |
|                               |          |   | Net Total:<br>GST:<br>Total: | \$173,021.59<br>\$25,953.24<br>\$198,974.83 |

TRANSPOWER

PO Box 1021, Wellington 6140 P 64 4 590 7000 New Zealand E revenue@transpower.co.nz

Orion New Zealand Limited PO BOX 13896 CHRISTCHURCH 8141

Tax Invoice GST No: Invoice Date: Customer ID: Account Manager: Due Date: Page:

0001105846 50-038-057 31/01/2018

ORON Nicola Downes-Hogg 20/02/2018 1

| Reference    | Description   | Amount         |                 |
|--------------|---|----------------|-----------------|
| Arthurs Pass | Connection Charge for Jan 2018                                | 13,125.19 🗸    |                 |
| Arthurs Pass | Interconnection Charge for Jan 2018<br>Sub-Total Arthurs Pass | 1,756.38 🗸     | 14,881.57       |
| Bromley      | Connection Charge for Jan 2018                                | 137,688.26 🗸   | Bisinkey tx rec |
| Bromley      | Interconnection Charge for Jan 2018<br>Sub-Total Bromley      | 1,110,612.84 🗸 | 1,248,301.10    |
| Castle Hill  | Connection Charge for Jan 2018                                | 10,440.68 🗸    |                 |
| Castle Hill  | Interconnection Charge for Jan 2018<br>Sub-Total Castle Hill  | 2,944.53 🗸     | 13,385.21       |
| Coleridge    | Connection Charge for Jan 2018                                | 12,052.36 🗸    |                 |
| Coleridge    | Interconnection Charge for Jan 2018<br>Sub-Total Coleridge    | 2,159.32 🗸     | 14,211.68       |
| Hororata     | Connection Charge for Jan 2018                                | 41,700.05 🗸    |                 |
| Hororata     | Interconnection Charge for Jan 2018<br>Sub-Total Hororata     | 248,827.86 🗸   | 290,527.91      |
| Islington    | Connection Charge for Jan 2018                                | 154,849.51 🗸   |                 |
| Islington    | Interconnection Charge for Jan 2018<br>Sub-Total Islington    | 3,992,011.36   | 4,146,860.87    |
|              | Interconnection Charge for Jan 2018                           | 76,371.68      |                 |

| TR  | A N S P O W E R  | PO Box 1021, Wellin<br>New Zealand   |   | 64 4 590 7000<br>revenue@transpower.c           |
|---|--|--|---|---|
| Orion New Ze<br>PO BOX 13896<br>CHRISTCHURG |  | Credit Note:<br>GST No:<br>Invoice Date:<br>Customer ID:<br>Account Manager:<br>Due Date:<br>Page: | 00011058<br>50-038-05<br>31/01/2012<br>ORON<br>Nicola Dov<br>20/02/2012<br>1 of 1 | 7<br>8<br>wnes-Hogg                             |
| Reference                                   | Description  | A  | mount   |   |
|   | Wash Up for BRY Connection Oc<br>Wash Up for BRY Connection Do<br>Wash Up for BRY Connection Do<br>Sub-Total | ovember 2017 (27,1   | 62.07)<br>62.07)<br>62.07)<br>2 1 8 .   | (81,486.21)                                     |
|   |  |  | Net Total:<br>GST:<br>Total:  | (\$81,486.21)<br>(\$12,222.93)<br>(\$93,709.14) |

## **APPENDIX C – INFORMATION SUPPORTING AVOIDED TRANSMISSION CHARGES**

Clauses 10.3(d)(ii) and (iii) of the CPP determination set out information requirements in relation to amounts claimed as avoided transmission charges, including the amount actually charged in the year prior to an amount first being recovered.

Clause 10.3(d)(ii) of the CPP determination suggests that the amount that would have been charged by Transpower is equivalent to the amount specified in a pricing schedule for the year preceding the assessment period. This is not the case, and is not consistent with the Input Methodologies applying to our CPP. Transpower updates its charges each year and the amounts generally change, and we have calculated this updated amount and included it as an avoided transmission cost.

The calculations are consistent with those provided in our previous compliance statement with the following updates:

| Transpower cost component             | FY18             | FY17             |
|---------------------------------------|------------------|------------------|
| Asset return                          | 8.26%            | 7.97%            |
| Maintenance recovery rate substations | 1.83%            | 1.87%            |
| Maintenance recovery rate tower lines | \$4,980 / km     | \$5,326 / km     |
| Operating recovery rate 66kV          | \$1,207 / switch | \$1,017 / switch |

The calculation of the amounts avoided is based on the individual assets within the schedules that were purchased (or where the purchase avoids the change) using updated asset return, operating and maintenance figures, as follows:

|                            |                 | Addington/Middletor             |                        | -                               |                          |                         |                                       |                      |
|----------------------------|-----------------|---------------------------------|------------------------|---------------------------------|--------------------------|-------------------------|---------------------------------------|----------------------|
|                            |                 | Charges recalculated<br>2017/18 | using standard i       | ecovery rat                     | 5                        |                         |                                       |                      |
|                            |                 |                                 |                        |                                 |                          |                         |                                       |                      |
|                            |                 |                                 |                        |                                 |                          |                         |                                       |                      |
|                            |                 |                                 |                        |                                 |                          |                         |                                       |                      |
|                            |                 |                                 | Asset return<br>Z      | Maintenance<br>recovery<br>Rate | recovery on<br>66k¥ Line | Number<br>of<br>Switche | Operating<br>recovery on<br>66kY Line | Total aroided        |
|                            |                 |                                 | 8.26%                  | 1.83%                           | \$4,980 /km              |                         | \$1,207 <i>1</i> switch               |                      |
| Addington                  |                 | Addiagtos                       |                        |                                 |                          |                         |                                       |                      |
| Substation                 | Addington       | No residual land charge         | 505,669.28             | 112,030.84                      |                          |                         |                                       | 617,700.1            |
| Substation                 | Islington<br>TO | Charged at ISL instead          | 74 007 00              | 10 450 40                       |                          |                         |                                       | 00 740 0             |
| Transformer                | T2<br>T2        |                                 | 74,287.92              | 16,458.46                       |                          |                         |                                       | 90,746.3             |
| Fransformer                | T3              |                                 | 74,287.92              | 16,458.46                       |                          |                         |                                       | 90,746.3<br>74 967 3 |
| Fransformer                | T5<br>T6        |                                 | 61,288.79              | 13,578.51                       |                          |                         |                                       | 74,867.3             |
| Transformer<br>Transformer | 16<br>T7        |                                 | 81,718.39<br>61,288.79 | 18,104.68<br>13 578 51          |                          |                         |                                       | 99,823.0<br>74,867.3 |
| Transformer<br>Switchgear  |                 |                                 | 6,587.88               | 13,578.51                       |                          | 0.90                    | 1,086.30                              | 74,867<br>9,133.1    |
|                            | 3               |                                 |                        | 1,459.54                        |                          |                         |                                       |                      |
| Bwitchgear<br>Bwitchgear   | 4<br>5          |                                 | 6,587.88<br>6,587.88   | 1,459.54                        |                          | 0.90<br>0.90            | 1,086.30                              | 9,133.1<br>9,133.1   |
| Switchgear                 |                 |                                 |                        | 1,459.54                        |                          |                         | 1,086.30                              |                      |
| Switchgear                 | 6               |                                 | 6,587.88               | 1,459.54                        |                          | 0.90                    | 1,086.30                              | 9,133.1              |
| Switchgear                 | 7               |                                 | 6,587.88               | 1,459.54                        |                          | 0.90                    | 1,086.30                              | 9,133.1              |
| ôwitchgear                 | 8               |                                 | 6,587.88               | 1,459.54                        |                          | 0.90                    | 1,086.30                              | 9,133.1              |
| ôwitchgear                 | 9               |                                 | 6,587.88               | 1,459.54                        |                          | 0.90                    | 1,086.30                              | 9,133.1              |
| ôwitchgear                 | 10              |                                 | 6,587.88               | 1,459.54                        |                          | 0.90                    | 1,086.30                              | 9,133.1              |
| Switchgear                 | 11              |                                 | 6,587.88               | 1,459.54                        |                          | 0.90                    | 1,086.30                              | 9,133.1              |
| Switchgear                 | 28              |                                 | 6,790.36               | 1,504.40                        |                          | 1.00                    | 1,207.00                              | 9,501.1              |
| Switchgear                 | 29              |                                 | 6,790.36               | 1,504.40                        |                          | 1.00                    | 1,207.00                              | 9,501.1              |
| Switchgear                 | 30              |                                 | 6,790.36               | 1,504.40                        |                          | 1.00                    | 1,207.00                              | 9,501.1              |
| Switchgear                 | 42              |                                 | 39,703.13              | 8,796.21                        |                          | 3.60                    | 4,345.20                              | 52,844.5             |
| 6witchgear                 | 52              |                                 | 27,117.88              | 6,007.96                        |                          | 4.00                    | 4,828.00                              | 37,953.8             |
| 6witchgear                 | 62              |                                 | 39,703.13              | 8,796.21                        |                          | 3.60                    | 4,345.20                              | 52,844.5             |
| Switchgear                 | 72              |                                 | 18,500.31              | 4,098.74                        |                          | 2.00                    | 2,414.00                              | 25,013.0             |
| Switchgear                 | 82              |                                 | 18,500.31              | 4,098.74                        |                          | 2.00                    | 2,414.00                              | 25,013.0             |
| owitchgear                 | 92              |                                 | 18,500.31              | 4,098.74                        |                          | 2.00                    | 2,414.00                              | 25,013.0             |
| Switchgear                 | 102             |                                 | 27,117.88              | 6,007.96                        |                          | 2.00                    | 2,414.00                              | 35,539.1             |
| owitchgear                 | 112             |                                 | 18,500.31              | 4,098.74                        |                          | 2.00                    | 2,414.00                              | 25,013.              |
| ówitchgear                 | 122             |                                 | 39,703.13              | 8,796.21                        |                          | 3.70                    | 4,465.90                              | 52,965.              |
| ôwitchgear                 | 132             |                                 | 39,703.13              | 8,796.21                        |                          | 4.00                    | 4,828.00                              | 53,327.3             |
| Switchgear                 | 142             |                                 | 39,703.13              | 8,796.21                        |                          | 3.70                    | 4,465.90                              | 52,965.2             |
| Switchgear                 | 172             |                                 | 39,703.13              | 8,796.21                        |                          | 3.60                    | 4,345.20                              | 52,844.              |
| ôwitchgear                 | 252             |                                 | 39,703.13              | 8,796.21                        |                          | 4.00                    | 4,828.00                              | 53,327.3             |
| Switchgear                 | 592             |                                 | 27,117.88              | 6,007.96                        |                          | 4.00                    | 4,828.00                              | 37,953.3             |
| Switchgear                 | 2642            |                                 | 6,073.36               | 1,345.55                        |                          | 0.90                    | 1,086.30                              | 8,505.               |
| Switchgear                 | 2662            |                                 | 6,073.36               | 1,345.55                        |                          | 0.90                    | 1,086.30                              | 8,505.               |
| Switchgear                 | 2672            |                                 | 6,423.08               | 1,423.03                        |                          | 1.00                    | 1,207.00                              | 9,053                |
| 6witchgear                 | 2682            |                                 | 6,073.36               | 1,345.55                        |                          | 0.90                    | 1,086.30                              | 8,505.               |
| Switchgear                 | 2698            |                                 | 6,213.24               | 1,376.54                        |                          | 1.00                    | 1,207.00                              | 8,796.1              |
| Switchgear                 | 2702            |                                 | 6,073.36               | 1,345.55                        |                          | 0.90                    | 1,086.30                              | 8,505.               |
| Bwitchgear<br>Bwitchgear   | 2722            |                                 | 6,073.36<br>6.073.36   | 1,345.55                        |                          | 0.90                    | 1,086.30                              | 8,505.<br>8,505      |
| ówitchgear<br>Switchgear   | 2742            |                                 | 6,073.36<br>6.073.36   | 1,345.55                        |                          | 0.90                    | 1,086.30                              | 8,505.<br>8,505      |
| ówitchgear<br>Switchgear   | 2762            |                                 | 6,073.36<br>6.073.36   | 1,345.55                        |                          | 0.90                    | 1,086.30                              | 8,505.<br>8,505.     |
| Switchgear                 | 2782            |                                 | 6,073.36               | 1,345.55                        |                          | 0.90                    | 1,086.30                              |                      |
| Switchgear                 | 2798            |                                 | 6,213.24               | 1,376.54                        |                          | 1.00                    | 1,207.00                              | 8,796.°<br>8,505.    |
| Switchgear                 | 2802            |                                 | 6,073.36               | 1,345.55                        |                          | 0.90                    | 1,086.30                              |                      |
| Switchgear                 | 2812            |                                 | 6,423.08               | 1,423.03                        |                          | 1.00                    | 1,207.00                              | 9,053                |
| Bwitchgear                 | 2822            |                                 | 6,073.36               | 1,345.55                        |                          | 0.90                    | 1,086.30                              | 8,505.               |
| Switchgear                 | 2842            |                                 | 6,073.36               | 1,345.55                        |                          | 0.90                    | 1,086.30                              | 8,505.               |
| Bwitchgear                 | 127-117         |                                 | 6,479.23               | 1,435.47                        |                          | 2.00                    | 2,414.00                              | 10,328.1             |
| Bwitchgear                 | 147-137         |                                 | 6,479.23               | 1,435.47                        |                          | 2.00                    | 2,414.00                              | 10,328.1             |
| Switchgear                 | 67-57           |                                 | 6,479.23               | 1,435.47                        |                          | 2.00                    | 2,414.00                              | 10,32                |

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Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear | 87-77<br>97-107<br>RM122<br>RM122<br>RM142<br>RM172<br>RM2672<br>RM28<br>RM2812<br>RM29<br>RM30<br>RM42<br>RM62<br>VT124<br>VT144<br>VT144<br>VT144<br>VT144<br>VT144<br>VT144<br>VT164<br>152<br>172<br>172<br>192<br>202<br>ADD_ISLA<br>ADD_ISLA<br>ADD_ISLB<br>Cable_MLN<br>R5<br>R6<br>R7 | Charged at ISL instead<br>Charged at ISL instead<br>Charged at ISL instead<br>Charged at ISL instead   | 6,473,23<br>6,473,23<br>3,703,85<br>3,703,85<br>2,563,06<br>2,513,42<br>2,563,06<br>2,513,42<br>2,513,42<br>2,513,42<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,85<br>3,703,95<br>3,703,95<br>3,703,95<br>3,703,95<br>3,703,95<br>3,703,95<br>3,703,95<br>3,703,95<br>3,703,95<br>3,703,95<br>3,703,95<br>3,703,95<br>3,703,95<br>3,703,95<br>3,703,95<br>3,703,95<br>3,703,95<br>3,703,95<br>3,703,95<br>3,703,95<br>3,703,95<br>3,703,95<br>3,703,95<br>3,703,95<br>3,703,95<br>3,703,95<br>3,703,95<br>3,703,95<br>3,703,95<br>3,703,95<br>3,703,95<br>3,703,95<br>3,703,95<br>3,703,95<br>3,703,95<br>3,703,95<br>3,703,95<br>3,703,95<br>3,703,95<br>3,703,95<br>3,703,95<br>3,703,95<br>3,703,95<br>3,703,95<br>3,703,95<br>3,703,95<br>3,703,95<br>3,703,95<br>3,703,95<br>3,703,95<br>3,703,95<br>3,703,95<br>3,703,95<br>3,703,95<br>3,703,95<br>3,703,95<br>3,7 | 1,435,47<br>1,435,47<br>821,92<br>821,92<br>821,92<br>856,9,17<br>556,85<br>556,85<br>556,85<br>821,92<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>301,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30,83<br>30 | 61,067.69<br>61,067.69 | 2.00         | 2,414.00<br>2,414.00                | 10,328,70<br>10,328,70<br>4,531,77<br>4,531,77<br>3,138,23<br>3,070,27<br>3,070,27<br>4,531,77<br>4,531,77<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1,664,17<br>1 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|--|---|--|---|---|------------------------|--------------|-------------------------------------|---|
| Other  |   |  | 0,121.01  | 1,403.03  |                        | To           | tal                                 | 2,706,179.54  |
|  |   |  |   |   |                        |              |                                     | _,,   |
| Middleton<br>Substation<br>Substation<br>Transformer<br>Transformer<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Switchgear  | 7   | 2  | 709,450,69<br>-<br>61,288,79<br>61,288,79<br>27,117,88<br>18,500,31<br>18,500,31<br>18,500,31<br>18,500,31<br>39,703,13<br>39,703,13<br>39,703,13<br>39,703,13<br>27,117,88<br>6,479,23<br>6,479,23<br>6,479,23<br>6,479,23<br>6,479,23<br>6,479,23<br>1,362,34<br>1,362,34<br>1,362,34   | 157,178.54<br>-<br>13,578.51<br>18,104.68<br>13,578.51<br>6,007.96<br>4,098.74<br>4,098.74<br>4,098.74<br>4,098.74<br>8,796.21<br>8,796.21<br>8,796.21<br>6,007.96<br>1,435.47<br>1,435.47<br>1,435.47<br>1,435.47<br>1,435.47<br>1,435.47<br>1,435.47<br>1,435.47<br>1,435.47<br>1,435.47  |                        |              |                                     |   |
| Switchgear<br>Switchgear<br>Switchgear<br>Switchgear<br>Line<br>Line<br>Line<br>Other<br>Other   | 406<br>416<br>RM406<br>RM416<br>ADD_ISLA<br>ADD_ISLB<br>Cable_MLN<br>R5<br>R6<br>R7   | Asset cost covered under CIC<br>Asset cost covered under CIC<br>Asset cost covered under CIC<br>Asset cost covered under CIC<br>Asset cost covered under CIC |   | 4,729,23<br>4,729,23<br>821,92<br>821,92<br>1,489,05<br>1,489,05<br>1,489,05<br>1,489,05  | 61,067.69<br>61,067.69 | 0.90<br>0.90 | 1,086.30<br>1,086.30<br>-<br>-<br>- | 5,815,53<br>5,815,53<br>821,92<br>821,92<br>77,993,88<br>53,627,21<br>-<br>-<br>-<br>-  |
|  |   |  |   |   |                        | То           | tal                                 | 144,895.99  |
|  |   |  |   |   |                        |              |                                     |   |

Combined total 2,851,075.53

| Asset         Asset of the second of the  |             |         | Bromley avoided connection cha<br>Charges recalculated using stan |              | ates        | Land proportion pu | urchased  | 8.64%     |                |
|---|-------------|---------|---|--------------|-------------|--------------------|-----------|-----------|----------------|
| Lock         1326         1326         1326         1327         1327         1327         1327           Transform         Ti         Ti         13         132         1327         1328   | Accet       | Acceld  | 2017/18   | Accet roturn | Maintenance | Maintananaa        | Number of | Onerating | Total avaidad  |
| Tardsonner         T2         T2 <tht2< th="">         T2         T2</tht2<>   | Asset       | Assecia |   |              |             |                    | Number or |           | i otal avoided |
| Transformer         T0         SSM000         SSM000         SSM000         SSM000         SSM000         SSM000           Transformer         T6         Notpushard         SSM000         SSM0000         SSM0000         SSM0   | Substation  | Bromley | Partial purchase (proportion of land)                             | 17,164.29    | 3,802.74    |                    |           |           | 20,967.03      |
| Turasioner         T         P1         P2/28/27         8,00149         P0/24/27           Turasioner         T0         Notporthand         -         <   | Transformer |         |   |              |             |                    |           |           | 107,248.85     |
| Tandomari         T5         Not parkased           Strategie         7         Not parkased         30,07,47         40,0052         20         2,44,00         4,42,20           Strategie         8         24,2112         5,34,44         20         3,22,10         5,34,44           Strategie         8         24,2112         5,34,44         20         3,22,10         5,34,44           Strategie         8         20,000         4,44,00         4,42,20         20,000         4,44,00         4,42,20           Strategie         12         20,000         4,44,00         4,42,20         20,000         4,44,00         2,20,000         2,44,00         4,42,20         20,000         2,44,00         4,42,20         20,000         2,44,00         4,42,20         20,000         2,44,00         2,20,000         2,44,00         2,20,000         2,44,00         2,20,000         2,44,00         2,20,000         2,44,00         2,20,000         2,44,00         2,20,000         2,44,000         2,20,000         2,20,000         2,20,000         2,20,000         2,20,000         2,20,000         2,20,000         2,20,000         2,20,000         2,20,000         2,20,000         2,20,000         2,20,000         2,20,000         2,20,000   |             |         |   |              |             |                    |           |           | 80,436.64      |
| Tationner         T         Norpskaled           Sinnigser         2         244.00         247.02         3.0         257.00   | Transformer | T4      |   | 87,797.37    | 19,451.48   |                    |           |           | 107,248.85     |
| Transmer         T         No parksard           Swingser         6         244.00         244.00         32.00.00           Swingser         6         32.00.00         4.782.01         38.00         24.00.00           Swingser         6         32.00.00         4.782.01         38.00         32.00.00           Swingser         80.00         4.00.00         4.42.00         32.00.00         4.42.00           Swingser         80.00         4.00.00         4.00.00         4.62.00         32.00.00           Swingser         84         Antonger         32.00.00         4.78.21         3.00         4.65.00         32.00.00           Swingser         84         Antonger         32.00.00         105.23         100         100.00         32.00.00         32.00.00         32.00.00         32.00.00         32.00.00         100.00         32.00.00         100.00         32.00.00         100.00         32.00.00         100.00         32.00.00         100.00         32.00.00         100.00         32.00.00         100.00         32.00.00         100.00         32.00.00         100.00         32.00.00         100.00         32.00.00         100.00         32.00.00         100.00         32.00.00         100.00.00 <td>Transformer</td> <td>Т5</td> <td>Not purchased</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>   | Transformer | Т5      | Not purchased   |              |             |                    |           |           |                |
| Sindpart         62         44.423         80.074.7         400.82         20.0         2.4400         84.423           Sindpart         7         20.00         2.420.0         5.00         2.000         <   |             |         |   |              |             |                    |           |           |                |
| Samply B0032.10030.081Samply D0032.00030.081Samply D0037.00030.081Samply D0037.00030.081Samply D0037.00030.081Samply D000030.081Samply D000030.081Samply D000030.081Samply D000030.081Samply D0030.08130.081Samply D0030.09130.081Samply D0030.09130.081Samply D0030.09130.091Samply D0030.09130.091Samply D0030.09130.091Samply D0030.09130.091Samply D0030.09130.091Samply D0030.09130.091Samply D0030.091 </td <td>Switchgear</td> <td></td> <td></td> <td>18,057.47</td> <td>4,000.62</td> <td></td> <td>2.00</td> <td>2,414.00</td> <td>24,472.09</td>   | Switchgear  |         |   | 18,057.47    | 4,000.62    |                    | 2.00      | 2,414.00  | 24,472.09      |
| Skataja         92  | Switchgear  |         |   | 39,703.13    | 8,796.21    |                    | 3.80      |           | 53,085.94      |
| Skothjest         102         102         24.4421         54.4421           Skothjest         12 <t< td=""><td>Switchgear</td><td></td><td></td><td>24,121.62</td><td>5,344.14</td><td></td><td></td><td>3,621.00</td><td>33,086.76</td></t<>   | Switchgear  |         |   | 24,121.62    | 5,344.14    |                    |           | 3,621.00  | 33,086.76      |
| Sinches         12         37,003         0.782.21         3.07         4.485.00         5.24.05           Sinches         12         Notager         24,012         5.04.14         3.00         4.566.00         5.04.05           Sinches         12         27,022         6.04.03         2.00         2.04.00         3.02.00         3.02.00         3.02.00         3.02.00         3.02.00         3.02.00         3.02.00         3.02.00         3.02.00         3.02.00         3.02.00         2.04.00         3.02.00 </td <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td>   |             |         |   | -            |             |                    |           |           |                |
| Sourchape<br>Develope<br>Sourchape12Johnspar30, 0, 78, 2130, 0, 78, 2130, 0, 78, 20, 0030, 20, 00Sourchape<br>Sourchape194Asst cost covered under CC7, 0, 79, 62, 00100, 0, 20, 20, 60, 0020, 00 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>   |             |         |   |              |             |                    |           |           |                |
| Sundage         Na         Na hage         No.         No.         No.           Sundage         64         Arst cost covered under CC         27.06.0         102.0         3.00.0   |             |         |   |              |             |                    |           |           |                |
| Sundaya         H9         Astro cont covered under CC         2/16/2         5,344 hy         3,00         3,2100         3,2080           Sundaya         12         Astro cont covered under CC         2/16/20         4,000 31         2,00         2,406 40         52,000           Sundaya         12         Astro cont covered under CC         2,706 0         6,000 31         2,00         2,406 40         52,000           Sundaya         12         Permoved FM, purchasing         52,000 0         1,122 30         1,00         1,207 00         7,806 0           Sundaya         147         Permoved FM, purchasing         1,228 00         1,122 30         1,00         1,207 00         7,806 0           Sundaya         167         Nep parchase (200 N)         -   |             |         | Nil charges   |              | 0,100.21    |                    |           | 4,000.00  |                |
| Shirthjer         FA         Asset cont covered under CC         .         US23         1.00         L207.00         2.38           Smithjer         F2         Asset cost covered under CC         2.7066.20         5.7065.20         1.00         4.44.30         1.55           Smithjer         F2         3.7076.20         5.7065.20         1.00         4.44.30         1.55           Smithjer         F2         5.7015.00         1.752.30         1.00         1.207.00         3.987.20           Smithjer         F4         Pernoved priot to puchase         5.7015.00         1.522.30         1.00         1.207.00         3.987.20           Smithjer         F2         Not puchase (SM)         5.7015.00<   |             |         |   | 24,121.62    | 5,344.14    |                    |           | 3,621.00  | 33,086.76      |
| Sheenbay         T2         Asset cost sovvered under CIC         .         0.878-21         2.70         4.465.50         10.207.00           Sheenbay         20         mmmmer 24, parchasking         5.201.80         11.52.20         10.0         12.27.00         7.500.00           Sheenbay         20         Ferrover (giv) to parchase         5.000.00         10.00         12.07.00         7.500.00           Sheenbay         42         Not parchased (SNV)         5.000.00         10.000.00 <th< td=""><td>Switchgear</td><td>154</td><td>Asset cost covered under CIC</td><td></td><td></td><td></td><td>1.00</td><td></td><td>2,359.39</td></th<>   | Switchgear  | 154     | Asset cost covered under CIC                                      |              |             |                    | 1.00      |           | 2,359.39       |
| Sunchgent         112         menumber 24, purchasing         5,20,10         0,786,21         2,70         4,465,50         5,20,30           Sunchgent         407         menumber 34, purchasing         5,20,100         1,52,30         100         1,207,00         3,3867           Sunchgent         402         Mot purchased (GNN)         Sunchgent   | Switchgear  |         |   | 27,086.20    | 6,000.94    |                    |           | 2,414.00  | 35,501.14      |
| Sintenge         207         encombre 34, parchasing         50,010         152,38         100         1207,00         75,000           Sintenge         467         Remove dipiot to parchase         128,28         80,08         100         1207,00         73,88,7           Sintenge         467         Remove dipiot to parchase         547         Remove dipiot to parchase         547         Remove dipiot to parchase           Sintenge         92         Not parchased (20K N)         547         Remove dipiot to parchase         547         Remove dipiot to parchase           Sintenge         92         Not parchased (20K N)         547         Remove dipiot to parchase         547         Remove dipiot to parchase           Sintenge         92         Not parchased (20K N)         547         930         1066,30         24,013           Sintenge         92         Not parchased (20K N)         547         930         1066,30         930 <t< td=""><td>Switchgear</td><td></td><td>Asset cost covered under CIC</td><td></td><td></td><td></td><td></td><td></td><td>13,262.11</td></t<>   | Switchgear  |         | Asset cost covered under CIC                                      |              |             |                    |           |           | 13,262.11      |
| Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Subolgent<br>Sub | Switchgear  |         | and the old and the second  |              |             |                    |           |           | 52,965.24      |
| Shedhogen         447         Pernoved prior to purchase           Shedhogen         52         Not purchased (6kV)         Not purchased (6kV)           Shedhogen         52         Not purchased (220 V)         Not purchased (220 V)           Shedhogen         612         Not purchased (220 V)         Not purchased (220 V)           Shedhogen         612         Not purchased (220 V)         Not purchased (220 V)           Shedhogen         612         Not purchased (220 V)         Not purchased (220 V)           Shedhogen         617         Not purchased (220 V)         Not purchased (220 V)           Shedhogen         617         Not purchased (220 V)         Not purchased (220 V)           Shedhogen         627         144555         0.60         1086.30         580.50           Shedhogen         627         144555         0.90         1086.30         580.50           Shedhogen         282         677.33         144555         0.90         1086.30         580.50           Shedhogen         282         677.33         144555         0.90         1086.30         580.50           Shedhogen         282         677.33         144555         0.90         1085.30         580.50           Shedhogen  |             |         |   |              |             |                    |           |           |                |
| Sinch gene482No purchased (GikV)Sinch gene572No purchased (GikV)Sinch gene572No purchased (GikV)Sinch gene682No purchased (GikV)Sinch gene2826073.351.345.550.901.086.308.056.55Sinch gene2826073.351.345.550.901.086.308.056.55Sinch gene2826073.351.345.550.901.086.308.056.55Sinch gene2826.073.351.345.550.901.086.308.056.55Sinch gene2826.073.351.345.550.901.086.308.056.55Sinch gene2826.073.351.345.550.901.086.308.056.55Sinch gene2826.073.351.345.550.901.086.308.056.55Sinch gene282 <t< td=""><td></td><td></td><td></td><td>1,628.88</td><td>360.88</td><td></td><td>1.00</td><td>1,207.00</td><td>3,196.76</td></t<>  |             |         |   | 1,628.88     | 360.88      |                    | 1.00      | 1,207.00  | 3,196.76       |
| Sinthyse52Nationalsed (68.v)Sinthyse572Nationalsed (68.v)Sinthyse572Nationalsed (20.v)Sinthyse802Nationalsed (20.v)Sinthyse802Astational conventional (20.v)Sinthyse802807.33134559.09108.008.505.Sinthyse2826.073.351345550.90108.008.505.Sinthyse2826.073.351345550.90108.008.505.Sinthyse2826.073.351345550.90108.008.505.Sinthyse2826.073.351345550.90108.008.505.Sinthyse2826.073.351345550.90108.008.505.Sinthyse2826.073.351345550.90108.008.505.Sinthyse2826.073.351345550.90108.008.505.Sinthyse2826.073.351345550.90108.008.505.Sinthyse2826.073.351345550.90108.008.505   |             |         |   |              |             |                    |           |           |                |
| Sinthger         647         Period epidor 5 purihase           Sinthger         002         Mot purchase(120N)         Sinthger         002         Mot purchase(120N)           Sinthger         012         Mot purchase(120N)         Sinthger         012         Sinthger           Sinthger         012         Mot purchase(120N)         Sinthger         016         016.30         24316           Sinthger         012         Mot purchase(120N)         Sinthger         016         016.30         24316           Sinthger         027         Asstocation (100N)         Sinthger         030         1085.30         24316           Sinthger         027         Asstocat covered under CIC, maint et         1345.55         0.30         1085.30         24316           Sinthger         2522         Asstocat covered under CIC, maint et         1345.55         0.30         1085.30         8055           Sinthger         2522         Asstocat covered under CIC, maint et         6073.38         1345.55         0.30         1085.30         8055           Sinthger         2522         673.38         1345.55         0.30         1085.30         8055           Sinthger         252         673.38         1345.55         0.30   | Switchgear  |         |   |              |             |                    |           |           |                |
| Sinch geneD72Not purchased (Sak Y)Sinch gene02Not purchased (220k Y)Sinch gene02Not purchased (220k Y)Sinch gene03Not purchased (220k Y) <td< td=""><td>Switchgear</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>   | Switchgear  |         |   |              |             |                    |           |           |                |
| Sinth part         B12         Not purchased (2004)           Sinth part         B42         Not purchased (2004)           Sinth part         B67         Not purchased (2004)           Sinth part         B67         Not purchased (2004)           Sinth part         B62         Asst cost cost covered under CIC, maint et         -           Sinth part         B62         B62         B673.35         1345.55         D.00         UD68.30         8,565.           Sinth part         B62         B673.36         1345.55         D.00         1068.30         8,565.           Sinth part         B62         B673.36         1345.55         D.00         1068.30         8,565.           Sinth part         B62         B673.36         1345.55         D.00         1068.30         8,565.           Sinth part         B672.36         1445.55         D.00         1068.30         8,565. <td>Switchgear</td> <td>572</td> <td>Not purchased (66kV)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>   | Switchgear  | 572     | Not purchased (66kV)  |              |             |                    |           |           |                |
| Sinch gene         B42         Not purchased (2004)           Sinch gene         B7         Not purchased (2004)           Sinch gene         282         Asset cost covered under CIC, maint et d.         6/73.36         1345.55         0.90         1068.30         8,565.           Sinch gene         282         6/73.38         1345.55         0.90         1068.30         8,565.           Sinch gene         282         6/73.38 <td< td=""><td>Switchgear</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>  | Switchgear  |         |   |              |             |                    |           |           |                |
| Selection         67         Not purchased (220 kr)           Selection         673         Not purchased (220 kr)           Selection         682         Not purchased (220 kr)           Selection         682         Not purchased (220 kr)           Selection         682         Not purchased (220 kr)           Selection         697         Not purchased (220 kr)           Selection         697         134555         0.90         1066.50         65505           Selection         6077.36         134555         0.90         1066.50         65505           Selection         6073.36         134555         0.90         1066.50         65505           Selection         6077.36         134555   | Switchgear  |         |   |              |             |                    |           |           |                |
| Sinth Gyan         978         Not purchased (220K)           Sinth Gyan         892         Not purchased (220K)           Sinth Gyan         897         Not purchased (220K)           Sinth Gyan         257         Arset Cost covered under CLC, maint et         1.345.55         0.30         1086.30         2.401           Sinth Gyan         252         6.077.36         1.345.55         0.90         1086.30         8.556.           Sinth Gyan         252         6.077.36         1.345.55         0.90         1086.30         8.566.           Sinth Gyan  |             |         |   |              |             |                    |           |           |                |
| Switchger         982         Mot purchased (220K)           Switchger         987         Not purchased (220K)           Switchger         982         Not purchased (220K)           Switchger         272         Asset cost covered under CDC, main et et subscripter         -         1345.55         0.90         1086.50         2,451.15           Switchger         2582         6,073.36         1,345.55         0.90         1086.50         8,055.55           Switchger         2582         6,073.36         1,345.55         0.90         1086.50         8,055.55           Switchger         2582         6,073.36         1,345.55         0.90         1086.50         8,505.55           Switchger         2582         6,073.36         1,345.55         0.90         1086.50         8,505.55           Switchger         2682         6,073.36         1,345.55         0.  |             |         |   |              |             |                    |           |           |                |
| Switchiges697Not purchased (220K)Switchiges972Not purchased (220K)Switchiges2572Asset cost covered under CDC, maint et-Switchiges25826.07.331.345.550.901.086.50Switchiges25826.07.331.345.550.901.086.50Switchiges25826.07.331.345.550.901.086.50Switchiges25826.07.331.345.550.901.086.50Switchiges25626.07.331.345.550.901.086.50Switchiges25226.07.331.345.550.901.086.50Switchiges25226.07.331.345.550.901.086.50Switchiges2526.07.331.345.550.901.086.50Switchiges2526.07.331.345.550.901.086.50Switchiges2526.07.331.345.550.901.086.50Switchiges2526.07.331.345.550.901.086.50Switchiges2526.07.331.345.550.901.086.50Switchiges2726.07.331.345.550.901.086.50Switchiges2726.07.331.345.550.901.086.50Switchiges2726.07.331.345.550.901.086.50Switchiges2726.07.331.345.550.901.086.50Switchiges2726.07.331.345.550.901.086.50Switchiges2726.07   |             |         |   |              |             |                    |           |           |                |
| Switchgen         952         Notpuchase/(20/V)           Switchgen         2772         Asset cost covered under CIC, maint et         .         1,345.55         0.30         1066.30         2,431.55           Switchgen         2552         Asset cost covered under CIC, maint et         .         1,345.55         0.30         1066.30         8,506.55           Switchgen         2552         .         .         6,073.38         1,345.55         0.30         1068.30         8,506.55           Switchgen         2582         .         .         6,073.38         1,345.55         0.30         1068.30         8,506.55           Switchgen         2582         .         .         6,073.38         1,345.55         0.30         1068.30         8,506.55           Switchgen         2582         .         .         6,073.36         1,345.55         0.30         1068.30         8,506.55           Switchgen         2582         .  |             |         |   |              |             |                    |           |           |                |
| Switchgear         97         Not purchased (2001)           Switchgear         2572         Asset cost covered under CIC, maint et<br>6.073.38         1,345.55         0.90         1066.30         8,505.           Switchgear         2582         6,073.38         1,345.55         0.90         1066.30         8,505.           Switchgear         2682         6,073.38         1,345.55         0.90         1066.30         8,505.           Switchgear         2682         6,073.38         1,345.55         0.90         1066.30         8,505.           Switchgear         2582         6,073.38         1,345.55         0.90         1066.30         8,505.           Switchgear         2722         6,073.38         1,345.55         0.90         1066.30         8,505.           Switchgear         2722         6,073.38         1,345.55         0.90         1068.30         8,  |             |         |   |              |             |                    |           |           |                |
| Switchgear         2582         6,07.38         1,345.55         0.00         1,063.30         8,505.           Switchgear         2502         6,07.33         1,345.55         0.03         1,063.30         8,505.           Switchgear         2522         6,07.33         1,345.55         0.03         1,063.30         8,505.           Switchgear         2522         6,07.33         1,345.55         0.30         1,063.30         8,505.           Switchgear         2522         6,07.33         1,345.55         0.30         1,068.30         8,505.           Switchgear         2542         6,07.33         1,345.55         0.30         1,068.30         8,505.           Switchgear         2542         6,07.33         1,345.55         0.30         1,068.30         8,505.           Switchgear         2562         6,07.33         1,345.55         0.30         1,068.30         8,505.           Switchgear         2562         6,07.33         1,345.55         0.30         1,068.30         8,505.           Switchgear         272         6,07.33         1,345.55         0.30         1,068.30         8,505.           Switchgear         2712 <th6,07.33< th="">         1,345.55         <th0.30<< td=""><td>Switchgear</td><td>917</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th0.30<<></th6,07.33<>   | Switchgear  | 917     |   |              |             |                    |           |           |                |
| Switchgear         2582         6,07.36         1,34555         0.00         1,068.30         6,505.           Switchgear         2512         6,07.36         1,34555         0.00         1,068.30         6,505.           Switchgear         2522         6,07.336         1,34555         0.00         1,068.30         6,505.           Switchgear         2722         6,07.336         1,34555         0.30         1,068.30         6,505.           Switchgear         2722         6,07.336         1,34555         0.30 <td>Switchgear</td> <td></td> <td>Asset cost covered under CIC, maint et</td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td>2,431.85</td>   | Switchgear  |         | Asset cost covered under CIC, maint et                            | -            |             |                    |           |           | 2,431.85       |
| Switchgear         2612         6,07,38         1,34555         0.00         1,068,30         8,505.           Switchgear         2622         6,07,38         1,34555         0.00         1,068,30         8,505.           Switchgear         2622         6,07,38         1,34555         0.00         1,068,30         8,505.           Switchgear         2642         6,07,38         1,345,55         0.00         1,068,30         8,505.           Switchgear         2652         6,07,38         1,345,55         0.00         1,068,30         8,505.           Switchgear         2652         6,07,338         1,345,55         0.90         1,068,30         8,505.           Switchgear         2682         6,07,338         1,345,55         0.90         1,068,30         8,505.           Switchgear         2682         6,07,338         1,345,55         0.90         1,068,30         8,505.           Switchgear         2712         6,07,338         1,345,55         0.90         1,068,30         8,505.           Switchgear         2712         6,07,338         1,345,55         0.90         1,088,30         8,505.           Switchgear         2712 <th6,07,38< th=""> <th1,345,55< th="">         0.</th1,345,55<></th6,07,38<>  | Switchgear  |         |   |              |             |                    |           |           | 8,505.21       |
| Switchgear         212         6,77,36         1,445,56         0,90         1,066,30         6,505.           Switchgear         2822         6,423,08         1,445,55         0,90         1,066,30         6,505.           Switchgear         2842         6,423,08         1,445,55         0,90         1,066,30         6,505.           Switchgear         2862         6,073,36         1,345,55         0,90         1,066,30         6,505.           Switchgear         2862         6,073,36         1,345,55         0,90         1,066,30         8,505.           Switchgear         2862         6,073,36         1,345,55         0,90         1,066,30         8,505.           Switchgear         2882         6,073,36         1,345,55         0,90         1,066,30         8,505.           Switchgear         2722         6,073,36         1,345,55         0,90         1,066,30         8,505.           Switchgear         2722         6,073,36         1,345,55         0,90         1,066,30         8,505.           Switchgear         2742         6,073,36         1,345,55         0,90         1,066,30         8,505.           Switchgear         2742         6,073,36         1,345,55   |             |         |   |              |             |                    |           |           | 8,505.21       |
| Switchger         2822         6,77.36         1,42.05         0.90         1,068.30         8,505.           Switchger         2832         6,42.308         1,42.053         0.00         1,008.30         8,505.           Switchger         2852         6,77.38         1,345.55         0.90         1,008.30         8,505.           Switchger         2852         6,77.38         1,345.55         0.90         1,008.30         8,505.           Switchger         2852         6,77.38         1,345.55         0.90         1,008.30         8,505.           Switchger         2862         6,77.38         1,345.55         0.90         1,008.30         8,505.           Switchger         2882         6,77.38         1,345.55         0.90         1,008.30         8,505.           Switchger         272         6,77.38         1,345.55         0.90         1,008.30         8,505.           Switchger         272         6,77.38         1,345.55         0.90         1,008.30         8,505.           Switchger         272         6,77.38         1,345.55         0.90         1,088.30         8,505.           Switchger         272         6,77.38         1,345.55         0.90  |             |         |   |              |             |                    |           |           |                |
| Switchgear         2632         6,423.08         1,423.03         1.00         1,207.00         8,063.           Switchgear         2642         6,073.36         1,345.55         0.80         1.066.30         8,506.           Switchgear         2682         6,073.36         1,345.55         0.50         1.00         1.207.00         8,506.           Switchgear         2682         6,073.36         1,345.55         0.50         1.006.30         8,506.           Switchgear         2682         6,073.36         1,345.55         0.50         1.006.30         8,506.           Switchgear         2712         6,073.36         1,345.55         0.50         1.006.30         8,506.           Switchgear         2722         6,073.36         1,345.55         0.50         1.006.30         8,506.           Switchgear         2722         6,073.38         1,345.55         0.50         1.006.30         8,506.           Switchgear         2772         6,173.38         1,345.55         0.50         1.006.30         8,506.           Switchgear         2772         6,073.38         1,345.55         0.50         1.006.30         8,506.           Switchgear         2772         6,073.38   |             |         |   |              |             |                    |           |           |                |
| Switchgear         2682         6,073.8         1,345.55         0.90         0.06.30         8,050.3           Switchgear         2682         6,073.8         1,345.55         0.90         1086.30         8,505.3           Switchgear         2682         6,073.36         1,345.55         0.90         1086.30         8,505.3           Switchgear         2583         3,421.34         2,007.43         1,345.55         0.90         1086.30         8,505.3           Switchgear         2712         6,073.36         1,345.55         0.90         1086.30         8,505.3           Switchgear         2722         6,073.36         1,345.55         0.90         1086.30         8,505.3           Switchgear         2742         6,073.36         1,345.55         0.90         1086.30         8,505.3           Switchgear         2772         6,073.36         1,345.55         0.90         1086.30         8,505.3           Switchgear         2782         6,073.36         1,345.55         0.90         1086.30         8,505.3           Switchgear         2782         6,073.36         1,345.55         0.90         1086.30         8,505.3           Switchgear         2782         Asset oost oowered   | Switchgear  |         |   |              |             |                    |           |           | 9,053.11       |
| Switchgear         2682         6,423.08         (4/2.0.3)         1.00         (207.00         9.05.30           Switchgear         2692         6,073.36         1345.55         0.30         1006.30         8,505.           Switchgear         2692         6,073.36         1345.55         0.30         1006.30         8,505.           Switchgear         2712         6,073.36         1345.55         0.30         1006.30         8,505.           Switchgear         2722         6,073.36         1345.55         0.30         1006.30         8,505.           Switchgear         2772         6,173.36         1345.55         0.30         1006.30         8,505.           Switchgear         2772         6,073.36         1345.55         0.30         1006.30         8,505.           Switchgear         2782         6,073.36         1345.55         0.30 <td>Switchgear</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>8,505.21</td>  | Switchgear  |         |   |              |             |                    |           |           | 8,505.21       |
| Switchgear         2872         6,073.06         1,345.55         0.90         1,086.30         8,505.           Switchgear         2892         6,073.36         1,345.55         0.90         1,086.30         8,505.           Switchgear         2712         6,073.36         1,345.55         0.90         1,086.30         8,505.           Switchgear         2722         6,073.36         1,345.55         0.90         1,086.30         8,505.           Switchgear         2722         6,073.36         1,345.55         0.90         1,086.30         8,505.           Switchgear         2742         6,073.36         1,345.55         0.90         1,086.30         8,505.           Switchgear         2762         6,073.36         1,345.55         0.90         1,086.30         8,505.           Switchgear         2772         6,073.36         1,345.55         0.90         1,086.30         8,505.           Switchgear         2782         6,073.36         1,345.55         0.90         1,086.30         8,505.           Switchgear         2782         6,073.36         1,345.55         0.90         1,086.30         8,505.           Switchgear         2782         6,073.36         1,345.55   |             |         |   |              |             |                    |           |           |                |
| Switchgear         2882         6,073.36         1,345.55         0.90         1,086.30         8,505           Switchgear         2712         6,073.36         1,345.55         0.90         1,086.30         8,505.           Switchgear         2722         6,073.36         1,345.55         0.90         1,086.30         8,505.           Switchgear         2722         6,073.36         1,345.55         0.90         1,086.30         8,505.           Switchgear         2742         6,073.36         1,345.55         0.90         1,086.30         8,505.           Switchgear         2762         6,073.36         1,345.55         0.90         1,086.30         8,505.           Switchgear         2762         6,073.36         1,345.55         0.90         1,086.30         8,505.           Switchgear         2782         6,073.36         1,345.55         0.90         1,086.30         8,505.           Switchgear         2802         6,073.36         1,345.55         0.90         1,086.30         8,505.           Switchgear         2812         Asset cost covered under CIC         -         1,345.55         0.90         1,086.30         8,505.           Switchgear         817.7         Not   |             |         |   |              |             |                    |           |           |                |
| Switchgear         2888         9.42194         2.087.43         1.00         1.277.63           Switchgear         2712         6.073.36         1.345.55         0.50         1.086.30         8.505.5           Switchgear         2732         6.073.36         1.345.55         0.50         1.00         1.207.00         9.003.3           Switchgear         2732         6.073.36         1.345.55         0.50         1.008.30         8.505.5           Switchgear         2752         6.073.36         1.345.55         0.50         1.088.30         8.505.5           Switchgear         2772         6.073.36         1.345.55         0.50         1.088.30         8.505.5           Switchgear         2782         6.073.36         1.345.55         0.50         1.088.30         8.505.5           Switchgear         807.817         Pernoved prior to purchased.50 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>8,505.21</td>   |             |         |   |              |             |                    |           |           | 8,505.21       |
| Switchgear         2712         6,073.36         1,046.85         0.90         1086.30         8,505.35           Switchgear         2732         6,073.36         1,345.85         0.90         1086.30         8,505.35           Switchgear         2732         6,073.36         1,345.85         0.90         1086.30         8,505.35           Switchgear         2752         6,073.36         1,345.55         0.90         1086.30         8,505.35           Switchgear         2762         6,073.36         1,345.55         0.90         1086.30         8,505.35           Switchgear         2772         6,073.36         1,345.55         0.90         1086.30         8,505.35           Switchgear         2782         6,073.36         1,345.55         0.90         1086.30         8,505.35           Switchgear         2802         Asset cost covered under CIC         -         1,345.55         0.90         1086.30         8,505.35           Switchgear         807.47         Not purchased         6,073.36         1,345.55         0.90         1086.30         8,505.35           Switchgear         807.45         0.90         1086.30         8,505.35         50.10         -         3,138.23  | Switchgear  |         |   |              |             |                    |           |           | 12,716.37      |
| Switchgear         2732         6,42.08         1,42.0.3         100         1207.00         9,053.           Switchgear         2742         6,073.36         1,345.55         0.90         1,086.30         8,505.           Switchgear         2752         6,073.36         1,345.55         0.90         1,086.30         8,505.           Switchgear         2772         6,073.36         1,345.55         0.90         1,086.30         8,505.           Switchgear         2772         6,073.36         1,345.55         0.90         1,086.30         8,505.           Switchgear         2782         6,073.36         1,345.55         0.90         1,086.30         8,505.           Switchgear         2802         6,073.36         1,345.55         0.90         1,086.30         8,505.           Switchgear         2812         Asset oct oovered under CIC         -         1,345.55         0.90         1,086.30         2,431.8           Switchgear         28747         Not purchased (220 kV)         -         1,345.55         0.90         1,086.30         2,313.2           Switchgear         RM262         Metering not purchased, but charge still         2,563.06         568.17         -         3,138.2   | Switchgear  |         |   |              |             |                    |           | 1,086.30  | 8,505.21       |
| Switchgear         2742         6,07.36         1.345.55         0.90         1.086.30         8.505.3           Switchgear         2752         6,07.36         1.345.55         0.90         1.086.30         8.505.3           Switchgear         2772         6,07.36         1.345.55         0.90         1.086.30         8.505.3           Switchgear         2782         6,07.36         1.345.55         0.90         1.086.30         8.505.3           Switchgear         2792         6,07.36         1.345.55         0.90         1.086.30         8.505.3           Switchgear         2802         6,07.36         1.345.55         0.90         1.086.30         8.505.3           Switchgear         2812         Asset cost covered under CIC         -         1.345.55         0.90         1.086.30         8.505.3           Switchgear         807.517         Removed priot to purchased         1.345.55         0.90         1.086.30         8.505.3           Switchgear         807.517         Removed priot to purchased         1.345.55         0.90         1.086.30         8.505.3           Switchgear         807.517         Not purchased         2.569.06         569.17         -         3.138.2           Switc  | Switchgear  |         |   |              |             |                    |           |           | 8,505.21       |
| Switchgear         2752         6,073.36         1,345.55         0.30         1,086.30         8,505.3           Switchgear         2762         6,073.36         1,345.55         0.30         1,086.30         8,505.3           Switchgear         2772         6,073.36         1,345.55         0.30         1,086.30         8,505.3           Switchgear         2782         6,073.36         1,345.55         0.30         1,086.30         8,505.3           Switchgear         2792         6,073.36         1,345.55         0.30         1,086.30         8,505.3           Switchgear         2802         Asset cost covered under CIC         -         1,345.55         0.30         1,086.30         2,431.8           Switchgear         897.47         Not purchased (220 kY)         -         1,345.55         0.30         1,086.30         2,431.8           Switchgear         897.487         Not purchased (220 kY)         -         3,138.2         563.17         -         3,138.2           Switchgear         RM2632         Metering not purchased, but charge still         2,563.06         563.17         -         3,138.2           Switchgear         RM4532         Not purchased         2,563.06         563.17         -   | Switchgear  |         |   |              |             |                    |           |           | 9,053.11       |
| Switchgear         2762         6,073.36         1,345.55         0.90         1,086.30         8,505.           Switchgear         2772         6,073.36         1,345.55         0.90         1,086.30         8,505.           Switchgear         2782         6,073.36         1,345.55         0.90         1,086.30         8,505.           Switchgear         2782         6,073.36         1,345.55         0.90         1,086.30         8,505.           Switchgear         2802         6,073.36         1,345.55         0.90         1,086.30         8,505.           Switchgear         2812         Asset cost covered under CIC         -         1,345.55         0.90         1,086.30         2,4318           Switchgear         877.71         Removed prior to purchases         -         1,345.55         0.90         1,086.30         2,4318           Switchgear         877.71         Not purchased (220kV)         -         1,345.55         0.90         1,086.30         2,318.2           Switchgear         RM2562         Metering not purchased, but charge still         2,568.06         569.17         -         3,138.2           Switchgear         RM2732         Metering not purchased, but charge still         2,568.06         569.17<  | Switchgear  |         |   |              |             |                    |           |           | 8,505.21       |
| Switchgear         2772         6,073.36         1,345.55         0.90         1,086.30         8,505.3           Switchgear         2782         6,073.36         1,345.55         0.90         1,086.30         8,505.3           Switchgear         2782         6,073.36         1,345.55         0.90         1,086.30         8,505.3           Switchgear         2802         6,073.36         1,345.55         0.90         1,086.30         8,505.3           Switchgear         2812         Asset cost oovered under CIC         -         1,345.55         0.90         1,086.30         2,4318           Switchgear         807-317         Removed prior to purchase         -         1,345.55         0.90         1,086.30         2,4318           Switchgear         807-317         Not purchased,but charge still         2,569.06         569.17         -         3,138.2           Switchgear         RIM2532         Metering not purchased,but charge still         2,569.06         569.17         -         3,138.2           Switchgear         RIM452         Not purchased         2,569.06         569.17         -         3,138.2           Switchgear         RIM572         Not purchased         2,569.06         569.17         - <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>   |             |         |   |              |             |                    |           |           |                |
| Switchgear         2782         6,073.36         1,345.55         0.30         1,086.30         8,505.           Switchgear         2792         6,073.36         1,345.55         0.30         1,086.30         8,505.           Switchgear         2802         6,073.36         1,345.55         0.30         1,086.30         8,505.           Switchgear         2812         Asset cost ocvered under CIC         -         1,345.55         0.30         1,086.30         2,4318.           Switchgear         807-817         Not purchased (220kV)         -         1,345.55         0.30         1,086.30         2,4318.           Switchgear         8147.57         Removed prior to purchased         -         1,345.55         0.30         1,086.30         2,4318.           Switchgear         817.47         Not purchased (220kV)         -         -         3,138.2           Switchgear         RIM2632         Metering not purchased, but charge still         2,563.06         569.17         -         3,138.2           Switchgear         RIM522         Not purchased         2,563.06         569.17         -         4,160.4           Switchgear         RIM52         Not purchased         2,563.06         569.17         -         4,16   |             |         |   |              |             |                    |           |           |                |
| Switchgear         2732         6,073.36         1,345.55         0.30         1,086.30         8,505.           Switchgear         2802         Asset cost covered under CIC         -         1,345.55         0.30         1,086.30         8,505.           Switchgear         2812         Asset cost covered under CIC         -         1,345.55         0.90         1,086.30         8,505.           Switchgear         807.817         Not purchased (220kV)         -         1,345.55         0.90         1,086.30         2,4318           Switchgear         807.817         Not purchased (220kV)         -         -         3,138.2           Switchgear         RM2652         Metering not purchased, but charge still         2,569.06         569.17         -         3,138.2           Switchgear         RM2722         Metering not purchased, but charge still         2,569.06         569.17         -         3,138.2           Switchgear         RM452         Not purchased         Sut for particle and for par  |             |         |   |              |             |                    |           |           | 8,505.21       |
| Switchgear         2802         6,073.36         1,345.55         0.90         1,086.30         8,505.3           Switchgear         2812         Asset cost covered under CIC         -         1,345.55         0.90         1,086.30         2,4318           Switchgear         807-817         Removed prior to purchase         -         1,345.55         0.90         1,086.30         2,4318           Switchgear         807-817         Not purchased (220kV)         -         3,138.2         3,138.2           Switchgear         RM2682         Metering not purchased, but charge still         2,569.06         569.17         -         3,138.2           Switchgear         RM2732         Metering not purchased, but charge still         2,569.06         569.17         -         3,138.2           Switchgear         RM2732         Metering not purchased, but charge still         2,569.06         569.17         -         3,138.2           Switchgear         RM572         Not purchased         -         3,138.2         -         3,138.2           Switchgear         RM572         Not purchased         -         4,160.4           Switchgear         VT1         3,405.85         754.57         -         4,160.4           Switchgear   | Switchgear  |         |   |              |             |                    |           |           | 8,505.21       |
| Switchgear         2812         Asset cost oovered under CIC         1,345.55         0.90         1,086.30         2,4318           Switchgear         487-517         Bernoved priot to purchased         -         1,345.55         0.90         1,086.30         2,4318           Switchgear         807-817         Not purchased (220kV)         -         3,138.2           Switchgear         BM2632         Metering not purchased, but charge still         2,569.06         569.17         -         3,138.2           Switchgear         BM2622         Metering not purchased, but charge still         2,569.06         569.17         -         3,138.2           Switchgear         BM2622         Metering not purchased         2,569.06         569.17         -         3,138.2           Switchgear         BM2732         Metering not purchased         2,569.06         569.17         -         3,138.2           Switchgear         BM572         Not purchased         -         3,405.85         754.57         -         4,160.4           Switchgear         VT1         3,405.85         754.57         -         4,160.4           Switchgear         VT3         Not purchased         -         4,460.4           Switchgear         VT3         <  | Switchgear  |         |   |              |             |                    |           |           | 8,505.21       |
| Switchgear         807-817         Not purchased (220kV)           Switchgear         827-847         Not purchased (220kV)           Switchgear         827-847         Not purchased (220kV)           Switchgear         RM2632         Metering not purchased, but charge still         2,569.06         569.17         3,138.2           Switchgear         RM2632         Metering not purchased, but charge still         2,569.06         569.17         3,138.2           Switchgear         RM2732         Metering not purchased, but charge still         2,569.06         569.17         3,138.2           Switchgear         RM2732         Metering not purchased, but charge still         2,569.06         569.17         3,138.2           Switchgear         RM572         Not purchased         58         58.17         3,138.2           Switchgear         RM572         Not purchased         2,569.06         569.17         3,138.2           Switchgear         RM572         Not purchased         2,569.06         569.17         3,138.2           Switchgear         RM572         Not purchased         3,405.85         754.57         4,160.4           Switchgear         V17         3,405.85         754.57         4,160.4           Switchgear         V137 </td <td>Switchgear</td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td>0.90</td> <td></td> <td>2,431.85</td>  | Switchgear  |         |   | -            |             |                    | 0.90      |           | 2,431.85       |
| Switchgear         827-847         Not purchased (220kV)  | Switchgear  |         |   |              |             |                    |           |           |                |
| Switchgear         RM2632         Metering not purchased, but charge still         2,569,06         569,17         -         3,138,2           Switchgear         RM2662         Metering not purchased, but charge still         2,569,06         569,17         -         3,138,2           Switchgear         RM2732         Metering not purchased, but charge still         2,569,06         569,17         -         3,138,2           Switchgear         RM492         Not purchased, but charge still         2,569,06         569,17         -         3,138,2           Switchgear         RM492         Not purchased, but charge still         2,569,06         569,17         -         3,138,2           Switchgear         RM572         Not purchased         -         3,138,2         -         3,138,2           Switchgear         RM572         Not purchased         -         3,105,85         754,57         -         4,160,4           Switchgear         V17         3,405,85         754,57         -         4,160,4           Switchgear         V197         Nil charges         -         4,160,4           Line         BRY_ISLA         Not purchased         -         4,160,4           Other         BC5         Asset cost not in 2014 Transpower </td <td>Switchgear</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>  | Switchgear  |         |   |              |             |                    |           |           |                |
| Switchgear         RM2662         Metering not purchased, but charge still         2,569,06         569,17         -         3,138,2           Switchgear         RM2732         Metering not purchased, but charge still         2,569,06         569,17         -         3,138,2           Switchgear         RM492         Not purchased         2,569,06         569,17         -         3,138,2           Switchgear         RM532         Not purchased         -         3,138,2           Switchgear         RM572         Not purchased         -         4,160,4           Switchgear         RM572         Not purchased         -         4,160,4           Switchgear         VT1         3,405,85         754,57         -         4,160,4           Switchgear         VT2         3,405,85         754,57         -         4,160,4           Switchgear         VT3         Nil charges         -         4,160,4           Line         BY_ISLA         Not purchased         -         4,160,4           Other         BC5         Asset cost not in 2014 Transpower         -         -         8,402,3           Other         B21P42         Not purchased         -         8,402,3         -         8,402,3  |             |         |   | 0 500 00     | E00/2       |                    |           |           | 0 400 00       |
| Switchgear         RM2732         Metering not purchased, but charge still         2,569.06         569.17         -         3,138.2           Switchgear         RM492         Not purchased         -         3,138.2           Switchgear         RM532         Not purchased         -         4,160.4           Switchgear         RM572         Not purchased         -         4,160.4           Switchgear         VT1         3,405.85         754.57         -         4,160.4           Switchgear         VT2         3,405.85         754.57         -         4,160.4           Switchgear         VT3         Not purchased         -         4,160.4           Switchgear         VT97         Nil charges         -         4,160.4           Line         BRY_ISLA         Not purchased         -         4,160.4           Other         BC5         Asset cost not in 2014 Transpower         -         -         -         4,160.4           Other         BZIP42         Not purchased         -         -         -         8,402.3           Other         BZIP43         Nil charges         -         -         8,402.3         -         8,402.3           Other         R3   |             |         |   |              |             |                    |           | -         |                |
| Switchgear     RM492     Not purchased       Switchgear     RM532     Not purchased       Switchgear     RM572     Not purchased       Switchgear     RM572     Not purchased       Switchgear     RM572     Not purchased       Switchgear     VT1     3,405.85     754.57     -     4,160.4       Switchgear     VT2     3,405.85     754.57     -     4,160.4       Switchgear     VT3     Nicharges     -     4,160.4       Uher     BPY_ISLA     Not purchased     -     -     4,160.4       Other     BC5     Asset cost not in 2014 Transpower     - </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td>3,138.23</td>  |             |         |   |              |             |                    |           | -         | 3,138.23       |
| Switchgear     RM532     Not purchased       Switchgear     RM572     Not purchased       Switchgear     RM572     Not purchased       Switchgear     VT1     3,405.85     754.57     -     4,160.4       Switchgear     VT2     3,405.85     754.57     -     4,160.4       Switchgear     VT3     Nil charges     -     4,160.4       Switchgear     VT37     Nil charges     -     4,160.4       Dither     BRY_ISLA     Not purchased     -     4,160.4       Other     ATC     Not purchased     -     4,160.4       Other     BC5     Asset cost not in 2014 Transpower     -     -     -     4,160.4       Other     BC5     Asset cost not in 2014 Transpower     -   |             |         |   | 2,000.00     | 500.Ir      |                    |           |           | 0,100.20       |
| Switchgear         RM572         Not purchased         -         4,160,4           Switchgear         VT1         3,405,85         754,57         -         4,160,4           Switchgear         VT2         3,405,85         754,57         -         4,160,4           Switchgear         VT3         Nil charges         -         4,160,4           Switchgear         VT97         Nil charges         -         4,160,4           Line         BRY_ISLA         Not purchased         -         4,160,4           Other         ATC         Not purchased         -         4,160,4           Other         BC5         Asset cost not in 2014 Transpower         - </td <td>Switchgear</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>  | Switchgear  |         |   |              |             |                    |           |           |                |
| Switchgear         VT2         3,405.85         754.57         -         4,160.4           Switchgear         VT37         Nil charges         -         -         4,160.4           Switchgear         VT37         Nil charges         -         -         -         4,160.4           Switchgear         VT37         Nil charges         -         <  | Switchgear  | BM572   |   |              |             |                    |           |           |                |
| Switchgear     VT97     Nil charges       Line     BRY_ISLA     Not purchased       Other     AC     Not purchased       Other     BC5     Asset cost not in 2014 Transpower       Other     BZIP42     Not purchased       Other     BZPP43     Nil charges       Other     R2     6,878.44     1,523.92     -     8,402.3       Other     R3     6,878.44     1,523.92     -     8,402.3       Other     R4     .     6,878.44     1,523.92     -     8,402.3   | Switchgear  |         |   |              |             |                    |           | -         | 4,160.42       |
| Line BRY_ISLA Not purchased<br>Other ATC Not purchased<br>Other BC5 Asset cost not in 2014 Transpower<br>Other BZIP42 Not purchased<br>Other BZPP43 Nil charges 6,878,44 1,523,92 - 8,402,3<br>Other R3 6,878,44 1,523,92 - 8,402,3<br>Other R4 6,878,44 1,523,92 - 8,402,3<br>Other R4 6,878,44 1,523,92 - 8,402,3   | Switchgear  |         | • ··· ·   | 3,405.85     | 754.57      |                    |           |           | 4,160.42       |
| Other         ATC         Not purchased           Other         BC5         Asset cost not in 2014 Transpower           Other         BZIP42         Not purchased           Other         BZIP42         Not purchased           Other         BZPP43         Nil charges           Other         R2         6,878.44         1,523.92           Other         R3         6,878.44         1,523.92         -         8,402.3           Other         R4         6,878.44         1,523.92         -         8,402.3           Other         R4         6,878.44         1,523.92         -         8,402.3  |             |         |   |              |             |                    |           |           |                |
| Other         BC5         Asset cost not in 2014 Transpower           Other         BZIP42         Not purchased           Other         BZIP43         Nil charges           Other         R2         6,878.44         1,523.92         -         8,402.3           Other         R3         6,878.44         1,523.92         -         8,402.3           Other         R4         6,878.44         1,523.92         -         8,402.3           Other         R4         6,878.44         1,523.92         -         8,402.3   |             |         |   |              |             |                    |           |           |                |
| Other         BZIP42         Not purchased           Other         BZPP43         Nil charges           Other         R2         6,878.44         1,523.92         -         8,402.3           Other         R3         6,878.44         1,523.92         -         8,402.3           Other         R4         6,878.44         1,523.92         -         8,402.3           Other         R4         6,878.44         1,523.92         -         8,402.3   |             |         |   |              |             |                    |           |           |                |
| Other         BZPP43         Nil charges           Other         R2         6.878.44         1,523.92         -         8,402.3           Other         R3         6,878.44         1,523.92         -         8,402.3           Other         R4         6,878.44         1,523.92         -         8,402.3           Other         R4         6,878.44         1,523.92         -         8,402.3  |             |         |   |              |             |                    |           |           |                |
| Other         R2         6,878.44         1,523.92         -         8,402.3           Other         R3         6,878.44         1,523.92         -         8,402.3           Other         R4         6,878.44         1,523.92         -         8,402.3           Other         R4         6,878.44         1,523.92         -         8,402.3           Other         R4         6,878.44         1,523.92         -         8,402.3  |             |         |   |              |             |                    |           |           |                |
| Other         P3         6,878.44         1,523.92         -         8,402.3           Other         P4         6,878.44         1,523.92         -         8,402.3   | Other       |         |   | 6.878.44     | 1,523.92    |                    |           |           | 8,402.36       |
| Other R4 6,878.44 1,523.92 - 8,402.3  | Other       |         |   |              |             |                    |           |           | 8,402.36       |
|   | Other       | B4      |   |              |             |                    |           | -         | 8,402.36       |
|   |             |         |   |              |             |                    |           |           |                |

|             |               | Springston avoided conne               | ction charge   | claim                                     |                |                          |  |           |  |  |  |
|-------------|---------------|--|--|---|----------------|--------------------------|--|-----------|--|--|--|
|             |               |  | Charges recalculated using standard recovery rates 2017/18 |   |                |                          |  |           |  |  |  |
| Asset       | Asset<br>Id   | 201110                                 | Asset<br>return %<br>8.26%                                 | Maintenanc<br>e recovery<br>Rate<br>1.83% | ce<br>recovery | Number<br>of<br>Switches | Operating<br>recovery on<br>66kV Line<br>\$1,207 /switch | Total     |  |  |  |
|             |               |  |  |   |                |                          |  |           |  |  |  |
| Substation  | -             | not avoided, charge at ISL             |  |   |                |                          |  |           |  |  |  |
| Substation  | Springst      |  | 98,563.60  | 21,836.73                                 |                |                          |  | 120,400.3 |  |  |  |
| T           | on<br>T1      |  | 90 220 07  | 21,782,78                                 |                |                          |  | 120,102.8 |  |  |  |
| Transformer | T2            |  | 98,320.07  | •   |                |                          |  | •         |  |  |  |
| Transformer |               |  | 98,320.07  | 21,782.78                                 |                |                          |  | 120,102.8 |  |  |  |
| Switchgear  | 92            | not avoided, charge at ISL             |  |   |                |                          |  |           |  |  |  |
| Switchgear  | 112           | not avoided, charge at ISL             |  | 0 700 04                                  |                | 0.70                     | 4 405 00   | 10,000    |  |  |  |
| Switchgear  | 312           | Asset cost covered under CIC           |  | 8,796.21                                  |                | 3.70                     | 4,465.90   | 13,262.   |  |  |  |
| Switchgear  | 322           | Asset cost covered under CIC           |  | 6,000.94                                  |                | 2.00                     | 2,414.00   | 8,414.9   |  |  |  |
| Switchgear  | 332           | Asset cost covered under CIC           |  | 8,796.21                                  |                | 4.00                     | 4,828.00   | 13,624.3  |  |  |  |
| Switchgear  | 348           | Asset cost covered under CIC           |  | 5,344.14                                  |                | 3.00                     | 3,621.00   | 8,965.1   |  |  |  |
| Switchgear  | 362           | Asset cost covered under CIC           |  | 6,000.94                                  |                | 2.00                     | 2,414.00   | 8,414.9   |  |  |  |
| Switchgear  | 372           | Asset cost covered under CIC           |  | 8,796.21                                  |                | 4.00                     | 4,828.00   | 13,624.1  |  |  |  |
| Switchgear  | 1122          |  | 11,444.77  | 2,535.58                                  |                | 3.80                     | 4,586.60   | 18,566.9  |  |  |  |
| Switchgear  | 1132          |  | 10,429.02  | 2,310.55                                  |                | 2.00                     | 2,414.00   | 15,153.5  |  |  |  |
| Switchgear  | 1142          |  | 11,444.77  | 2,535.58                                  |                | 3.80                     | 4,586.60   | 18,566.9  |  |  |  |
| Switchgear  | 1162          |  | 11,444.77  | 2,535.58                                  |                | 3.80                     | 4,586.60   | 18,566.9  |  |  |  |
| Switchgear  | 1172          |  | 11,444.77  | 2,535.58                                  |                | 3.80                     | 4,586.60   | 18,566.9  |  |  |  |
| Switchgear  | 1182          |  | 11,444.77  | 2,535.58                                  |                | 3.80                     | 4,586.60   | 18,566.9  |  |  |  |
| Switchgear  | 1192          |  | 11,444.77  | 2,535.58                                  |                | 3.80                     | 4,586.60   | 18,566.9  |  |  |  |
| Switchgear  | 1202          |  | 11,444.77  | 2,535.58                                  |                | 3.80                     | 4,586.60   | 18,566.9  |  |  |  |
| Switchgear  | 1222          |  | 11,444.77  | 2,535.58                                  |                | 3.80                     | 4,586.60   | 18,566.9  |  |  |  |
| Switchgear  | 1227          |  | 1,573.56   | 348.62                                    |                | 1.00                     | 1,207.00   | 3,129.1   |  |  |  |
| Switchgear  | 1232          |  | 10,429.02  | 2,310.55                                  |                | 2.00                     | 2,414.00   | 15,153.5  |  |  |  |
| Switchgear  | 1147-         |  | 2,694.75   | 597.02                                    |                | 2.00                     | 2,414.00   | 5,705.7   |  |  |  |
|             | 1167          |  |  |   |                |                          |  |           |  |  |  |
| Switchgear  | 1187-<br>1207 |  | 2,694.75   | 597.02                                    |                | 2.00                     | 2,414.00   | 5,705.7   |  |  |  |
| Switchgear  | RM1132        |  | 2,521.55   | 558.65                                    |                | 0.00                     | -  | 3,080.2   |  |  |  |
| Switchgear  | RM1232        |  | 2,521.55   | 558.65                                    |                | 0.00                     | -  | 3,080.2   |  |  |  |
| Switchgear  | RM312         | Asset cost covered under CIC           | -  | 821.92                                    |                | 0.00                     | -  | 821.3     |  |  |  |
| Switchgear  | VT3           |  | 3,405.85   | 754.57                                    |                | 0.00                     | -  | 4,160.4   |  |  |  |
| Switchgear  | VT317         | Asset cost covered under CIC           | -  | 754.57                                    |                | 0.00                     | -  | 754.9     |  |  |  |
| Switchgear  | VT367         | Asset cost covered under CIC           | -  | 754.57                                    |                | 0.00                     | -  | 754.9     |  |  |  |
| Switchgear  | VT4           | ······································ | 3,405.85   | 754.57                                    |                |                          | -  | 4,160.4   |  |  |  |
| Line        | ISL_SP        |  | 161,791.06   |   | 64,740.00      |                          |  | 226,531.0 |  |  |  |
| Other       |               | Asset cost covered under CIC           | -  | 2,528.00                                  |                |                          |  | 2,528.0   |  |  |  |
|             |               |  |  |   |                |                          |  | 866,166.4 |  |  |  |

|            | Springston GXP spur asset acquisition |                                 |  |  |  |  |  |  |
|------------|---------------------------------------|---------------------------------|--|--|--|--|--|--|
| NIA charg  | je avoided a                          | and claimed as recoverable cost |  |  |  |  |  |  |
| History of | akzenac                               |                                 |  |  |  |  |  |  |
| TASCOLY OF | Monthly                               | Annual                          |  |  |  |  |  |  |
| Apr-11     |                                       |                                 |  |  |  |  |  |  |
| May-11     |                                       |                                 |  |  |  |  |  |  |
| Jun-11     | •                                     |                                 |  |  |  |  |  |  |
| Jul-11     | -                                     |                                 |  |  |  |  |  |  |
| Aug-11     | \$17,588.91                           |                                 |  |  |  |  |  |  |
| Sep-11     | \$17,588.91                           |                                 |  |  |  |  |  |  |
| Oct-11     |                                       |                                 |  |  |  |  |  |  |
| Nov-11     | \$17,588.91                           |                                 |  |  |  |  |  |  |
| Dec-11     | \$17,588.91                           |                                 |  |  |  |  |  |  |
| Jan-12     | \$17,588.91                           |                                 |  |  |  |  |  |  |
| Feb-12     | \$17,588.91                           |                                 |  |  |  |  |  |  |
| Mar-12     | \$17,588.91                           | \$211,066.92                    |  |  |  |  |  |  |
| Apr-12     | \$15,997.66                           |                                 |  |  |  |  |  |  |
| May-12     | \$15,997.66                           |                                 |  |  |  |  |  |  |
| Jun-12     | \$15,997.66                           |                                 |  |  |  |  |  |  |
| Jul-12     | \$15,997.66                           |                                 |  |  |  |  |  |  |
| Aug-12     | \$15,997.66                           |                                 |  |  |  |  |  |  |
| Sep-12     | \$15,997.66                           |                                 |  |  |  |  |  |  |
| Oct-12     | \$15,997.66                           |                                 |  |  |  |  |  |  |
| Nov-12     | \$15,997.66                           |                                 |  |  |  |  |  |  |
| Dec-12     | \$15,997.66                           |                                 |  |  |  |  |  |  |
| Jan-13     | \$15,997.66                           |                                 |  |  |  |  |  |  |
| Feb-13     | \$15,997.66                           |                                 |  |  |  |  |  |  |
|            | \$15,997.66                           | \$191,971.92                    |  |  |  |  |  |  |
|            | \$14,636.86                           |                                 |  |  |  |  |  |  |
| · ·        | \$14,636.86                           |                                 |  |  |  |  |  |  |
|            | \$14,636.86                           |                                 |  |  |  |  |  |  |
|            | \$14,636.86                           |                                 |  |  |  |  |  |  |
| -          | \$14,636.86                           |                                 |  |  |  |  |  |  |
|            | \$14,636.86                           |                                 |  |  |  |  |  |  |
|            | \$14,636.86                           |                                 |  |  |  |  |  |  |
|            | \$14,636.86                           |                                 |  |  |  |  |  |  |
|            | \$14,636.86                           |                                 |  |  |  |  |  |  |
|            | \$14,636.86                           |                                 |  |  |  |  |  |  |
|            | \$14,636.86                           |                                 |  |  |  |  |  |  |
|            | \$14,636.86                           | \$175,642.32                    |  |  |  |  |  |  |
| Apr-14     | nil                                   |                                 |  |  |  |  |  |  |

| Year             | Monthly<br>charge |          | Amount<br>outstanding at<br>start of period | Remaining<br>term | Derived<br>interest<br>rate | Advised<br>risk free<br>rate | Diff  | Reverse<br>engineered<br>rate | Reverse<br>Engineered<br>payment | Annual       |
|------------------|-------------------|----------|---|-------------------|-----------------------------|------------------------------|-------|-------------------------------|----------------------------------|--------------|
| FY2012           | \$17,588.91       | actual   | 2,726,587                                   | 32                | 7.1%                        | 7.78%                        | 0.68% |                               |                                  |              |
| FY2013           | \$15,997.66       | actual   | 2,702,328                                   | 31                | 6.2%                        | 6.84%                        | 0.68% |                               |                                  |              |
| FY2014           | \$14,636.86       | actual   | 2,671,364                                   | 30                | 5.3%                        | 5.99%                        | 0.68% |                               |                                  |              |
| FY2015           | \$16,514.22       | avoided" | 2,633,218                                   | 29                | 6.5%                        | 7.18%                        | 0.68% | 6.50%                         | \$16,514.22                      | \$198,170.64 |
| FY2016           |                   | avoided  | 2,600,371                                   | 28                |                             | 6.53%                        |       | 5.85%                         | \$15,505.06                      | \$186,060.73 |
| FY2017           |                   | avoided  | 2,561,494                                   | 27                |                             | 5.92%                        |       | 5.24%                         | \$14,602.73                      | \$175,232.80 |
| FY2018<br>FY2019 |                   | avoided  | 2,516,315                                   | 26                |                             | 5.26%                        |       | 4.58%                         | \$13,677.08                      | \$164,125.02 |

\* (amount known as advised in regular annual update)

#### APPENDIX D - TIMING OF PAYMENT OF PASS-THROUGH AND RECOVERABLE COSTS

Clause 10.3 of the CPP determination requires that we disclose each pass through and recoverable cost amount paid, when it was paid, and the period to which it relates. This is set out in the following table.

| Period<br>covered     | Charge   | Cost type            | Subtotal group                | Amount paid if<br>different<br>(\$ excl GST) | Amount claimed<br>(\$ excl GST) | Date paid  |
|-----------------------|--|----------------------|-------------------------------|--|---------------------------------|------------|
| FY2017                | Ministry of Business<br>Innovation &<br>Employment Levy -<br>Reversal of prior<br>period accrual | Pass through cost    | Commerce Act levies           |  | (70,656.25)                     | NA         |
| FY2017                | Ministry of Business<br>Innovation &<br>Employment Levy -<br>Paymenyt of prior<br>period charge  | Pass through<br>cost | Commerce Act levies           |  | 70,522.46                       | 5/05/2017  |
| Q4 to 30<br>June 2017 | Ministry of Business<br>Innovation &<br>Employment Levy  | Pass through cost    | Commerce Act levies           |  | 70,946.24                       | 21/07/2017 |
| Q1 to 30<br>Sept 2017 | Ministry of Business<br>Innovation &<br>Employment Levy  | Pass through cost    | Commerce Act levies           |  | 73,972.37                       | 6/10/2017  |
| Q2 to 31<br>Dec 2017  | Ministry of Business<br>Innovation &<br>Employment Levy  | Pass through cost    | Commerce Act levies           |  | 73,906.23                       | 15/12/2017 |
| Q3 to 31<br>Mar 2018  | Ministry of Business<br>Innovation &<br>Employment Levy Q3<br>accrual                            | Pass through<br>cost | Commerce Act levies           |  | 73,906.23                       | NA         |
| 2016/17               | Ministry of Business<br>Innovation &<br>Employment Levy<br>wash up                               | Pass through<br>cost | Commerce Act levies           |  | 83,403.62                       | 22/12/2017 |
| FY2018                | Utilities Disputes<br>Charge   | Pass through cost    | Utilities Disputes<br>Charge  |  | 103,641.09                      | 28/04/2017 |
| April 2017            | Electricity Authority<br>Levy  | Pass through cost    | Electricity Authority<br>Levy |  | 47,139.46                       | 22/05/2017 |
| May 2017              | Electricity Authority<br>Levy  | Pass through cost    | Electricity Authority<br>Levy |  | 56,141.57                       | 30/06/2017 |
| June 2017             | Electricity Authority<br>Levy  | Pass through cost    | Electricity Authority<br>Levy |  | 58,136.36                       | 21/07/2017 |
| July 2017             | Electricity Authority<br>Levy  | Pass through cost    | Electricity Authority<br>Levy |  | 57,742.08                       | 21/08/2017 |
| August<br>2017        | Electricity Authority<br>Levy  | Pass through cost    | Electricity Authority<br>Levy |  | 54,228.94                       | 20/09/2017 |
| September<br>2017     | Electricity Authority<br>Levy  | Pass through cost    | Electricity Authority<br>Levy |  | 49,439.00                       | 20/10/2017 |
| October<br>2017       | Electricity Authority<br>Levy  | Pass through cost    | Electricity Authority<br>Levy |  | 46,558.25                       | 20/11/2017 |
| November<br>2017      | Electricity Authority<br>Levy  | Pass through<br>cost | Electricity Authority<br>Levy |  | 47,339.48                       | 22/12/2017 |
| December<br>2017      | Electricity Authority<br>Levy  | Pass through<br>cost | Electricity Authority<br>Levy |  | 47,299.46                       | 22/01/2018 |
| January<br>2018       | Electricity Authority<br>Levy  | Pass through<br>cost | Electricity Authority<br>Levy |  | 44,723.37                       | 23/02/2018 |
| February<br>2018      | Electricity Authority<br>Levy  | Pass through<br>cost | Electricity Authority<br>Levy |  | 41,357.33                       | 23/03/2018 |
| March 2018            | Electricity Authority<br>Levy March 2018<br>Accrual  | Pass through<br>cost | Electricity Authority<br>Levy |  | 43,481.66                       | NA         |
| FY2018                | Electricity Authority  | Pass through         | Electricity Authority         |  | (28,815.23)                     | 22/02/2018 |

| Period<br>covered | Charge   | Cost type            | Subtotal group        | Amount paid if<br>different<br>(\$ excl GST) | Amount claimed<br>(\$ excl GST) | Date paid  |
|-------------------|--|----------------------|-----------------------|--|---------------------------------|------------|
| FY2018            | Accrue CCC rates on leased properties  | Pass through<br>Cost | Local authority rates |  | (6,927.62)                      | NA         |
| FY2018            | Christchurch City<br>Council rates   | Pass through<br>Cost | Local authority rates |  | 9,236.83                        | 20/04/2017 |
| FY2018            | Christchurch City<br>Council rates 153<br>Montreal St on<br>settlement         | Pass through<br>Cost | Local authority rates |  | (1,335.37)                      | 28/04/2017 |
| FY2018            | Christchurch City<br>Council rates 153<br>Montreal St paid by<br>Chapman Tripp | Pass through<br>Cost | Local authority rates |  | 1,934.29                        | 28/04/2017 |
| FY2018            | Christchurch City<br>Council rates (CCC<br>AREA 1 INST 4)                      | Pass through<br>Cost | Local authority rates |  | 46,673.67                       | 12/05/2017 |
| FY2018            | Christchurch City<br>Council rates (CCC<br>AREA 1 INST 4)                      | Pass through<br>Cost | Local authority rates |  | 3,761.61                        | 12/05/2017 |
| FY2018            | Christchurch City<br>Council rates (CCC<br>AREA 3 INST 4)                      | Pass through<br>Cost | Local authority rates |  | 61,232.10                       | 26/05/2017 |
| FY2018            | Selwyn District Council<br>rates (SDC INST 4)                                  | Pass through<br>Cost | Local authority rates |  | 25,323.96                       | 2/06/2017  |
| FY2018            | Christchurch City<br>Council rates (CCC<br>AREA 2 INST 4)                      | Pass through<br>Cost | Local authority rates |  | 32,452.57                       | 9/06/2017  |
| FY2018            | Christchurch City<br>Council rates (CCC<br>AREA 1 INST 1)                      | Pass through<br>Cost | Local authority rates |  | 49,212.82                       | 15/08/2017 |
| FY2018            | Christchurch City<br>Council rates (CCC<br>AREA 1 INST 1)                      | Pass through<br>Cost | Local authority rates |  | 3,741.86                        | 15/08/2017 |
| FY2018            | Christchurch City<br>Council rates (CCC<br>AREA 3 INST 1)                      | Pass through<br>Cost | Local authority rates |  | 61,591.58                       | 25/08/2017 |
| FY2018            | Selwyn District Council<br>rates (SDC INST 1)                                  | Pass through<br>Cost | Local authority rates |  | 27,137.69                       | 1/09/2017  |
| FY2018            | Christchurch City<br>Council rates (CCC<br>AREA 2 INST 1)                      | Pass through<br>Cost | Local authority rates |  | 32,431.18                       | 15/09/2017 |
| FY2018            | Christchurch City<br>Council rates (CCC<br>AREA 1 INST 2)                      | Pass through<br>Cost | Local authority rates |  | 49,171.54                       | 15/11/2017 |
| FY2018            | Christchurch City<br>Council rates (CCC<br>AREA 1 INST 2)                      | Pass through<br>Cost | Local authority rates |  | 4,961.15                        | 15/11/2017 |
| FY2018            | Christchurch City<br>Council rates (CCC<br>AREA 3 INST 2)                      | Pass through<br>Cost | Local authority rates |  | 61,907.45                       | 30/11/2017 |
| FY2018            | Selwyn District Council<br>rates (SDC INST 2)                                  | Pass through<br>Cost | Local authority rates |  | 27,807.70                       | 1/12/2017  |
| FY2018            | Christchurch City<br>Council rates (CCC<br>AREA 2 INST 2)                      | Pass through<br>Cost | Local authority rates |  | 32,571.64                       | 15/12/2017 |
| FY2018            | Christchurch City<br>Council rates (CCC<br>AREA 1 INST 3)                      | Pass through<br>Cost | Local authority rates |  | 49,171.54                       | 15/02/2018 |
| FY2018            | Christchurch City<br>Council rates (CCC<br>AREA 1 INST 3)                      | Pass through<br>Cost | Local authority rates |  | 4,322.47                        | 15/02/2018 |
| FY2018            | Christchurch City<br>Council rates (CCC<br>AREA 3 INST 3)                      | Pass through<br>Cost | Local authority rates |  | 61,129.41                       | 28/02/2018 |

| Period<br>covered   | Charge   | Cost type            | Subtotal group                                | Amount paid if<br>different<br>(\$ excl GST) | Amount claimed<br>(\$ excl GST) | Date paid  |
|---------------------|--|----------------------|---|--|---------------------------------|------------|
| FY2018              | Selwyn District Council<br>rates (SDC INST 3)                                  | Pass through<br>Cost | Local authority rates                         |  | 27,816.78                       | 2/03/2018  |
| FY2018              | Christchurch City<br>Council rates (CCC<br>AREA 2 INST 3)                      | Pass through<br>Cost | Local authority rates                         |  | 32,342.92                       | 9/03/2018  |
| FY2018              | Christchurch City<br>Council rates 153<br>Montreal St paid by<br>Chapman Tripp | Pass through<br>Cost | Local authority rates                         |  | (50.71)                         | 22/03/2018 |
| FY2018              | Christchurch City<br>Council rates (CCC4)                                      | Pass through<br>Cost | Local authority rates                         |  | 679,603.70                      | 12/05/2017 |
| FY2018              | Selwyn District Council<br>rates (SDC4)  | Pass through<br>Cost | Local authority rates                         |  | 23,567.09                       | 2/06/2017  |
| FY2018              | Rates 153 Montreal St<br>to Gloucester 146 Ltd                                 | Pass through<br>Cost | Local authority rates                         |  | 1,624.50                        | 28/07/2017 |
| FY2018              | Christchurch City<br>Council rates (CCC1)                                      | Pass through<br>Cost | Local authority rates                         |  | 738,911.32                      | 15/08/2017 |
| FY2018              | Selwyn District Council<br>rates (SDC1)  | Pass through<br>Cost | Local authority rates                         |  | 24,427.96                       | 1/09/2017  |
| FY2018              | Christchurch City<br>Council rates (CCC2)                                      | Pass through<br>Cost | Local authority rates                         |  | 738,911.33                      | 15/11/2017 |
| FY2018              | Selwyn District Council<br>rates (SDC2)  | Pass through<br>Cost | Local authority rates                         |  | 24,427.96                       | 1/12/2017  |
| FY2018              | Christchurch City<br>Council rates (CCC3)                                      | Pass through<br>Cost | Local authority rates                         |  | 738,911.32                      | 15/02/2018 |
| FY2018              | Selwyn District Council<br>rates (SDC3)  | Pass through<br>Cost | Local authority rates                         |  | 24,428.00                       | 2/03/2018  |
| FY2018              | Accrue CCC rates on<br>leased properties                                       | Pass through<br>Cost | Local authority rates                         |  | 6,999.71                        | NA         |
| FY2015 to<br>FY2019 | CPP application<br>auditing charge   | Recoverable<br>Cost  | CPP Auditor Fee                               | 80,000.00                                    | 20,259.67                       | 21/01/2013 |
| FY2015 to<br>FY2019 | CPP application<br>auditing charge   | Recoverable<br>Cost  | CPP Auditor Fee                               | 74,000.00                                    | 18,560.83                       | 8/03/2013  |
| FY2015 to<br>FY2019 | CPP application<br>auditing charge   | Recoverable<br>Cost  | CPP Auditor Fee                               | 50,000.00                                    | 12,781.99                       | 7/12/2012  |
| FY2015 to<br>FY2019 | CPP application<br>auditing charge   | Recoverable<br>Cost  | CPP Auditor Fee                               | 40,000.00                                    | 10,091.78                       | 8/02/2013  |
| FY2015 to<br>FY2019 | Commerce<br>Commission CPP<br>application charge                               | Recoverable<br>Cost  | CPP Commerce<br>Commission<br>application fee | 20,000.00                                    | 5,032.20                        | 21/02/2013 |
| FY2015 to<br>FY2019 | Commerce<br>Commission CPP<br>assessment fee                                   | Recoverable<br>Cost  | CPP Commerce<br>Commission<br>assessment fee  | 1,080,745.00                                 | 266,968.71                      | 20/05/2013 |
| FY2015 to<br>FY2019 | Commerce<br>Commission CPP<br>assessment fee                                   | Recoverable<br>Cost  | CPP Commerce<br>Commission<br>assessment fee  | 324,662.00                                   | 76,689.74                       | 20/12/2013 |
| FY2015 to<br>FY2019 | Commerce<br>Commission CPP<br>assessment fee                                   | Recoverable<br>Cost  | CPP Commerce<br>Commission<br>assessment fee  | 148,923.00                                   | 36,086.54                       | 20/08/2013 |
| FY2015 to<br>FY2019 | Commerce<br>Commission CPP<br>assessment fee refund                            | Recoverable<br>Cost  | CPP Commerce<br>Commission<br>assessment fee  | (266,855.91)                                 | (61,960.31)                     | 14/03/2015 |
| FY2015 to<br>FY2019 | CPP application<br>engineer charge   | Recoverable<br>Cost  | CPP Engineer Fee                              | 12,350.00                                    | 3,148.58                        | 20/12/2012 |
| FY2015 to<br>FY2019 | CPP application<br>engineer charge   | Recoverable<br>Cost  | CPP Engineer Fee                              | 2,875.00                                     | 723.53                          | 20/02/2013 |
| FY2015 to<br>FY2019 | CPP application verifier charge  | Recoverable<br>Cost  | CPP Verifier Fee                              | 73,007.99                                    | 18,613.09                       | 20/12/2012 |
| FY2015 to<br>FY2019 | CPP application verifier charge  | Recoverable<br>Cost  | CPP Verifier Fee                              | 67,556.25                                    | 17,094.04                       | 25/01/2013 |

| Period<br>covered   | Charge   | Cost type                   | Subtotal group                                       | Amount paid if<br>different<br>(\$ excl GST) | Amount claimed<br>(\$ excl GST) | Date paid  |
|---------------------|--|-----------------------------|--|--|---------------------------------|------------|
| FY2015 to<br>FY2019 | CPP application verifier charge                              | Recoverable<br>Cost         | CPP Verifier Fee                                     | 63,626.57                                    | 15,809.50                       | 22/04/2013 |
| April 2017          | Arthurs Pass GXP   | Recoverable                 | Transpower   |  | 13,125.19                       | 22/05/2017 |
| April 2017          | Connection charge<br>Bromley GXP<br>Connection charge        | cost<br>Recoverable<br>cost | connection charge<br>Transpower<br>connection charge |  | 164,850.33                      | 22/05/2017 |
| April 2017          | Castle Hill GXP<br>Connection charge                         | Recoverable                 | Transpower<br>connection charge                      |  | 10,440.68                       | 22/05/2017 |
| April 2017          | Coleridge GXP<br>Connection charge                           | Recoverable<br>cost         | Transpower<br>connection charge                      |  | 12,052.36                       | 22/05/2017 |
| April 2017          | Hororata GXP<br>Connection charge                            | Recoverable cost            | Transpower<br>connection charge                      |  | 41,700.05                       | 22/05/2017 |
| April 2017          | Islington GXP<br>Connection charge                           | Recoverable cost            | Transpower<br>connection charge                      |  | 154,849.51                      | 22/05/2017 |
| April 2017          | Kimberley GXP<br>Connection charge                           | Recoverable cost            | Transpower<br>connection charge                      |  | 1,813.78                        | 22/05/2017 |
| April 2017          | Arthurs Pass GXP<br>Interconnection charge                   | Recoverable<br>cost         | Transpower<br>interconnection<br>charge              |  | 1,756.38                        | 22/05/2017 |
| April 2017          | Bromley GXP<br>Interconnection charge                        | Recoverable<br>cost         | Transpower<br>interconnection<br>charge              |  | 1,110,612.84                    | 22/05/2017 |
| April 2017          | Castle Hill GXP<br>Interconnection charge                    | Recoverable<br>cost         | Transpower<br>interconnection<br>charge              |  | 2,944.53                        | 22/05/2017 |
| April 2017          | Coleridge GXP<br>Interconnection charge                      | Recoverable<br>cost         | Transpower<br>interconnection<br>charge              |  | 2,159.32                        | 22/05/2017 |
| April 2017          | Hororata GXP<br>Interconnection charge                       | Recoverable<br>cost         | Transpower<br>interconnection<br>charge              |  | 248,827.86                      | 22/05/2017 |
| April 2017          | Islington GXP<br>Interconnection charge                      | Recoverable<br>cost         | Transpower<br>interconnection<br>charge              |  | 3,992,011.36                    | 22/05/2017 |
| April 2017          | Kimberley GXP<br>Interconnection charge                      | Recoverable<br>cost         | Transpower<br>interconnection<br>charge              |  | 76,371.68                       | 22/05/2017 |
| April 2017          | Bromley Third<br>Transformer (T7) NIC<br>charge              | Recoverable<br>cost         | Transpower new<br>investment contract                |  | 64,000.00                       | 22/05/2017 |
| April 2017          | Hororata Additional<br>66kV feeder (bay 150)<br>NIC charge   | Recoverable<br>cost         | Transpower new<br>investment contract                |  | 1,949.38                        | 22/05/2017 |
| April 2017          | Hororata 33kV bus and<br>66kV line alterations<br>NIC charge | Recoverable<br>cost         | Transpower new investment contract                   |  | 1,919.00                        | 22/05/2017 |
| April 2017          | Islington metering for<br>ADD & MLN Feeders<br>NIC charge    | Recoverable<br>cost         | Transpower new investment contract                   |  | 7,464.21                        | 22/05/2017 |
| April 2017          | Islington metering for<br>PAP & SPN Feeders                  | Recoverable cost            | Transpower new investment contract                   |  | 13,218.00                       | 22/05/2017 |
| April 2017          | Kimberley 66kV GXP<br>Connection NIC charge                  | Recoverable<br>cost         | Transpower new<br>investment contract                |  | 84,471.00                       | 22/05/2017 |
|                     |  |                             |  |  |                                 |            |
| May 2017            | Arthurs Pass GXP<br>Connection charge                        | Recoverable cost            | Transpower connection charge                         |  | 13,125.19                       | 20/06/2017 |
| May 2017            | Bromley GXP<br>Connection charge                             | Recoverable cost            | Transpower connection charge                         |  | 164,850.33                      | 20/06/2017 |

| Period<br>covered | Charge   | Cost type                   | Subtotal group                                       | Amount paid if<br>different<br>(\$ excl GST) | Amount claimed<br>(\$ excl GST) | Date paid  |
|-------------------|--|-----------------------------|--|--|---------------------------------|------------|
| May 2017          | Castle Hill GXP<br>Connection charge                         | Recoverable cost            | Transpower<br>connection charge                      |  | 10,440.68                       | 20/06/2017 |
| May 2017          | Coleridge GXP<br>Connection charge                           | Recoverable                 | Transpower<br>connection charge                      |  | 12,052.36                       | 20/06/2017 |
| May 2017          | Hororata GXP   | Recoverable                 | Transpower   |  | 41,700.05                       | 20/06/2017 |
| May 2017          | Connection charge<br>Islington GXP                           | Recoverable                 | connection charge<br>Transpower                      |  | 154,849.51                      | 20/06/2017 |
| May 2017          | Connection charge<br>Kimberley GXP<br>Connection charge      | cost<br>Recoverable<br>cost | connection charge<br>Transpower<br>connection charge |  | 1,813.78                        | 20/06/2017 |
| May 2017          | Arthurs Pass GXP<br>Interconnection charge                   | Recoverable<br>cost         | Transpower<br>interconnection<br>charge              |  | 1,756.38                        | 20/06/2017 |
| May 2017          | Bromley GXP<br>Interconnection charge                        | Recoverable<br>cost         | Transpower<br>interconnection<br>charge              |  | 1,110,612.84                    | 20/06/2017 |
| May 2017          | Castle Hill GXP<br>Interconnection charge                    | Recoverable<br>cost         | Transpower<br>interconnection<br>charge              |  | 2,944.53                        | 20/06/2017 |
| May 2017          | Coleridge GXP<br>Interconnection charge                      | Recoverable<br>cost         | Transpower<br>interconnection<br>charge              |  | 2,159.32                        | 20/06/2017 |
| May 2017          | Hororata GXP<br>Interconnection charge                       | Recoverable<br>cost         | Transpower<br>interconnection<br>charge              |  | 248,827.86                      | 20/06/2017 |
| May 2017          | Islington GXP<br>Interconnection charge                      | Recoverable<br>cost         | Transpower<br>interconnection<br>charge              |  | 3,992,011.36                    | 20/06/2017 |
| May 2017          | Kimberley GXP<br>Interconnection charge                      | Recoverable<br>cost         | Transpower<br>interconnection<br>charge              |  | 76,371.68                       | 20/06/2017 |
| May 2017          | Bromley Third<br>Transformer (T7) NIC<br>charge              | Recoverable<br>cost         | Transpower new<br>investment contract                |  | 64,000.00                       | 20/06/2017 |
| May 2017          | Hororata Additional<br>66kV feeder (bay 150)<br>NIC charge   | Recoverable<br>cost         | Transpower new investment contract                   |  | 1,949.38                        | 20/06/2017 |
| May 2017          | Hororata 33kV bus and<br>66kV line alterations<br>NIC charge | Recoverable<br>cost         | Transpower new investment contract                   |  | 1,919.00                        | 20/06/2017 |
| May 2017          | Islington metering for<br>ADD & MLN Feeders<br>NIC charge    | Recoverable<br>cost         | Transpower new investment contract                   |  | 7,464.21                        | 20/06/2017 |
| May 2017          | Islington metering for<br>PAP & SPN Feeders                  | Recoverable cost            | Transpower new investment contract                   |  | 13,218.00                       | 20/06/2017 |
| May 2017          | Kimberley 66kV GXP<br>Connection NIC charge                  | Recoverable<br>cost         | Transpower new<br>investment contract                |  | 84,471.00                       | 20/06/2017 |
| June 2017         | Arthurs Pass GXP   | Recoverable                 | Transpower   |  | 13,125.19                       | 20/07/2017 |
| June 2017         | Connection charge<br>Bromley GXP                             | cost<br>Recoverable         | connection charge<br>Transpower                      |  | 164,850.33                      | 20/07/2017 |
| June 2017         | Connection charge<br>Castle Hill GXP                         | cost<br>Recoverable         | connection charge<br>Transpower                      |  | 10,440.68                       | 20/07/2017 |
| June 2017         | Connection charge<br>Coleridge GXP                           | cost<br>Recoverable         | connection charge<br>Transpower                      |  | 12,052.36                       | 20/07/2017 |
| June 2017         | Connection charge<br>Hororata GXP                            | cost<br>Recoverable         | connection charge<br>Transpower                      |  | 41,700.05                       | 20/07/2017 |
|                   | Connection charge  | cost                        | connection charge                                    |  |                                 |            |
| June 2017         | Islington GXP<br>Connection charge                           | Recoverable<br>cost         | Transpower<br>connection charge                      |  | 154,849.51                      | 20/07/2017 |

| Period<br>covered | Charge   | Cost type           | Subtotal group                                    | Amount paid if<br>different<br>(\$ excl GST) | Amount claimed<br>(\$ excl GST) | Date paid  |
|-------------------|--|---------------------|---|--|---------------------------------|------------|
| June 2017         | Kimberley GXP<br>Connection charge                           | Recoverable cost    | Transpower<br>connection charge                   |  | 1,813.78                        | 20/07/2017 |
| June 2017         | Arthurs Pass GXP<br>Interconnection charge                   | Recoverable<br>cost | Transpower<br>interconnection<br>charge           |  | 1,756.38                        | 20/07/2017 |
| June 2017         | Bromley GXP<br>Interconnection charge                        | Recoverable cost    | Transpower<br>interconnection<br>charge           |  | 1,110,612.84                    | 20/07/2017 |
| June 2017         | Castle Hill GXP<br>Interconnection charge                    | Recoverable<br>cost | Transpower<br>interconnection<br>charge           |  | 2,944.53                        | 20/07/2017 |
| June 2017         | Coleridge GXP<br>Interconnection charge                      | Recoverable<br>cost | Transpower<br>interconnection<br>charge           |  | 2,159.32                        | 20/07/2017 |
| June 2017         | Hororata GXP<br>Interconnection charge                       | Recoverable<br>cost | Transpower<br>interconnection                     |  | 248,827.86                      | 20/07/2017 |
| June 2017         | Islington GXP<br>Interconnection charge                      | Recoverable<br>cost | charge<br>Transpower<br>interconnection<br>charge |  | 3,992,011.36                    | 20/07/2017 |
| June 2017         | Kimberley GXP<br>Interconnection charge                      | Recoverable<br>cost | Transpower<br>interconnection<br>charge           |  | 76,371.68                       | 20/07/2017 |
| June 2017         | Bromley Third<br>Transformer (T7) NIC<br>charge              | Recoverable<br>cost | Transpower new<br>investment contract             |  | 64,000.00                       | 20/07/2017 |
| June 2017         | Hororata Additional<br>66kV feeder (bay 150)<br>NIC charge   | Recoverable<br>cost | Transpower new<br>investment contract             |  | 1,949.38                        | 20/07/2017 |
| June 2017         | Hororata 33kV bus and<br>66kV line alterations<br>NIC charge | Recoverable<br>cost | Transpower new investment contract                |  | 1,919.00                        | 20/07/2017 |
| June 2017         | Islington metering for<br>ADD & MLN Feeders<br>NIC charge    | Recoverable<br>cost | Transpower new investment contract                |  | 7,464.21                        | 20/07/2017 |
| June 2017         | Islington metering for<br>PAP & SPN Feeders                  | Recoverable cost    | Transpower new<br>investment contract             |  | 13,218.00                       | 20/07/2017 |
| June 2017         | Kimberley 66kV GXP<br>Connection NIC charge                  | Recoverable<br>cost | Transpower new<br>investment contract             |  | 84,471.00                       | 20/07/2017 |
| July 2017         | Arthurs Pass GXP<br>Connection charge                        | Recoverable cost    | Transpower<br>connection charge                   |  | 13,125.19                       | 21/08/2017 |
| July 2017         | Bromley GXP<br>Connection charge                             | Recoverable         | Transpower<br>connection charge                   |  | 164,850.33                      | 21/08/2017 |
| July 2017         | Castle Hill GXP<br>Connection charge                         | Recoverable<br>cost | Transpower<br>connection charge                   |  | 10,440.68                       | 21/08/2017 |
| July 2017         | Coleridge GXP<br>Connection charge                           | Recoverable<br>cost | Transpower<br>connection charge                   |  | 12,052.36                       | 21/08/2017 |
| July 2017         | Hororata GXP<br>Connection charge                            | Recoverable<br>cost | Transpower<br>connection charge                   |  | 41,700.05                       | 21/08/2017 |
| July 2017         | Islington GXP<br>Connection charge                           | Recoverable<br>cost | Transpower<br>connection charge                   |  | 154,849.51                      | 21/08/2017 |
| July 2017         | Kimberley GXP<br>Connection charge                           | Recoverable<br>cost | Transpower<br>connection charge                   |  | 1,813.78                        | 21/08/2017 |
| July 2017         | Arthurs Pass GXP<br>Interconnection charge                   | Recoverable<br>cost | Transpower<br>interconnection<br>charge           |  | 1,756.38                        | 21/08/2017 |
| July 2017         | Bromley GXP<br>Interconnection charge                        | Recoverable cost    | Transpower<br>interconnection<br>charge           |  | 1,110,612.84                    | 21/08/2017 |

| Period<br>covered | Charge   | Cost type                   | Subtotal group                          | Amount paid if<br>different<br>(\$ excl GST) | Amount claimed<br>(\$ excl GST) | Date paid  |
|-------------------|--|-----------------------------|---|--|---------------------------------|------------|
| July 2017         | Castle Hill GXP<br>Interconnection charge                    | Recoverable<br>cost         | Transpower<br>interconnection<br>charge |  | 2,944.53                        | 21/08/2017 |
| July 2017         | Coleridge GXP<br>Interconnection charge                      | Recoverable<br>cost         | Transpower<br>interconnection<br>charge |  | 2,159.32                        | 21/08/2017 |
| July 2017         | Hororata GXP<br>Interconnection charge                       | Recoverable<br>cost         | Transpower<br>interconnection<br>charge |  | 248,827.86                      | 21/08/2017 |
| July 2017         | Islington GXP<br>Interconnection charge                      | Recoverable<br>cost         | Transpower<br>interconnection<br>charge |  | 3,992,011.36                    | 21/08/2017 |
| July 2017         | Kimberley GXP<br>Interconnection charge                      | Recoverable<br>cost         | Transpower<br>interconnection<br>charge |  | 76,371.68                       | 21/08/2017 |
| July 2017         | Bromley Third<br>Transformer (T7) NIC<br>charge              | Recoverable<br>cost         | Transpower new<br>investment contract   |  | 64,000.00                       | 21/08/2017 |
| July 2017         | Hororata Additional<br>66kV feeder (bay 150)<br>NIC charge   | Recoverable<br>cost         | Transpower new investment contract      |  | 1,949.38                        | 21/08/2017 |
| July 2017         | Hororata 33kV bus and<br>66kV line alterations<br>NIC charge | Recoverable<br>cost         | Transpower new investment contract      |  | 1,919.00                        | 21/08/2017 |
| July 2017         | Islington metering for<br>ADD & MLN Feeders<br>NIC charge    | Recoverable<br>cost         | Transpower new investment contract      |  | 7,464.21                        | 21/08/2017 |
| July 2017         | Islington metering for<br>PAP & SPN Feeders                  | Recoverable cost            | Transpower new investment contract      |  | 13,218.00                       | 21/08/2017 |
| July 2017         | Kimberley 66kV GXP<br>Connection NIC charge                  | Recoverable<br>cost         | Transpower new<br>investment contract   |  | 84,471.00                       | 21/08/2017 |
|                   |  |                             |   |  |                                 |            |
| August<br>2017    | Arthurs Pass GXP<br>Connection charge                        | Recoverable<br>cost         | Transpower connection charge            |  | 13,125.19                       | 20/09/2017 |
| August<br>2017    | Bromley GXP<br>Connection charge                             | Recoverable cost            | Transpower connection charge            |  | 164,850.33                      | 20/09/2017 |
| August<br>2017    | Castle Hill GXP<br>Connection charge                         | Recoverable cost            | Transpower<br>connection charge         |  | 10,440.68                       | 20/09/2017 |
| August<br>2017    | Coleridge GXP<br>Connection charge                           | Recoverable<br>cost         | Transpower<br>connection charge         |  | 12,052.36                       | 20/09/2017 |
| August<br>2017    | Hororata GXP<br>Connection charge                            | Recoverable<br>cost         | Transpower<br>connection charge         |  | 41,700.05                       | 20/09/2017 |
| August<br>2017    | Islington GXP  | Recoverable                 | Transpower<br>connection charge         |  | 154,849.51                      | 20/09/2017 |
| August<br>2017    | Connection charge<br>Kimberley GXP<br>Connection charge      | cost<br>Recoverable<br>cost | Transpower<br>connection charge         |  | 1,813.78                        | 20/09/2017 |
| August<br>2017    | Arthurs Pass GXP<br>Interconnection charge                   | Recoverable<br>cost         | Transpower<br>interconnection<br>charge |  | 1,756.38                        | 20/09/2017 |
| August<br>2017    | Bromley GXP<br>Interconnection charge                        | Recoverable<br>cost         | Transpower<br>interconnection<br>charge |  | 1,110,612.84                    | 20/09/2017 |
| August<br>2017    | Castle Hill GXP<br>Interconnection charge                    | Recoverable<br>cost         | Transpower<br>interconnection<br>charge |  | 2,944.53                        | 20/09/2017 |
| August<br>2017    | Coleridge GXP<br>Interconnection charge                      | Recoverable<br>cost         | Transpower<br>interconnection<br>charge |  | 2,159.32                        | 20/09/2017 |
| August<br>2017    | Hororata GXP<br>Interconnection charge                       | Recoverable<br>cost         | Transpower<br>interconnection<br>charge |  | 248,827.86                      | 20/09/2017 |

| Period<br>covered | Charge   | Cost type           | Subtotal group                          | Amount paid if<br>different<br>(\$ excl GST) | Amount claimed<br>(\$ excl GST) | Date paid  |
|-------------------|--|---------------------|---|--|---------------------------------|------------|
| August<br>2017    | Islington GXP<br>Interconnection charge                      | Recoverable<br>cost | Transpower<br>interconnection<br>charge |  | 3,992,011.36                    | 20/09/2017 |
| August<br>2017    | Kimberley GXP<br>Interconnection charge                      | Recoverable<br>cost | Transpower<br>interconnection<br>charge |  | 76,371.68                       | 20/09/2017 |
| August<br>2017    | Bromley Third<br>Transformer (T7) NIC<br>charge              | Recoverable<br>cost | Transpower new<br>investment contract   |  | 64,000.00                       | 20/09/2017 |
| August<br>2017    | Hororata Additional<br>66kV feeder (bay 150)<br>NIC charge   | Recoverable<br>cost | Transpower new investment contract      |  | 1,949.38                        | 20/09/2017 |
| August<br>2017    | Hororata 33kV bus and<br>66kV line alterations<br>NIC charge | Recoverable<br>cost | Transpower new investment contract      |  | 1,919.00                        | 20/09/2017 |
| August<br>2017    | Islington metering for<br>ADD & MLN Feeders<br>NIC charge    | Recoverable<br>cost | Transpower new investment contract      |  | 7,464.21                        | 20/09/2017 |
| August<br>2017    | Islington metering for<br>PAP & SPN Feeders                  | Recoverable cost    | Transpower new investment contract      |  | 13,218.00                       | 20/09/2017 |
| August<br>2017    | Kimberley 66kV GXP<br>Connection NIC charge                  | Recoverable<br>cost | Transpower new<br>investment contract   |  | 84,471.00                       | 20/09/2017 |
|                   |  |                     |   |  |                                 |            |
| September<br>2017 | Arthurs Pass GXP<br>Connection charge                        | Recoverable cost    | Transpower connection charge            |  | 13,125.19                       | 20/10/2017 |
| September<br>2017 | Bromley GXP<br>Connection charge                             | Recoverable cost    | Transpower connection charge            |  | 164,850.33                      | 20/10/2017 |
| September<br>2017 | Castle Hill GXP<br>Connection charge                         | Recoverable cost    | Transpower<br>connection charge         |  | 10,440.68                       | 20/10/2017 |
| September<br>2017 | Coleridge GXP<br>Connection charge                           | Recoverable cost    | Transpower<br>connection charge         |  | 12,052.36                       | 20/10/2017 |
| September<br>2017 | Hororata GXP<br>Connection charge                            | Recoverable<br>cost | Transpower<br>connection charge         |  | 41,700.05                       | 20/10/2017 |
| September<br>2017 | Islington GXP<br>Connection charge                           | Recoverable<br>cost | Transpower<br>connection charge         |  | 154,849.51                      | 20/10/2017 |
| September<br>2017 | Kimberley GXP<br>Connection charge                           | Recoverable<br>cost | Transpower<br>connection charge         |  | 1,813.78                        | 20/10/2017 |
| September<br>2017 | Arthurs Pass GXP<br>Interconnection charge                   | Recoverable<br>cost | Transpower<br>interconnection<br>charge |  | 1,756.38                        | 20/10/2017 |
| September<br>2017 | Bromley GXP<br>Interconnection charge                        | Recoverable<br>cost | Transpower<br>interconnection<br>charge |  | 1,110,612.84                    | 20/10/2017 |
| September<br>2017 | Castle Hill GXP<br>Interconnection charge                    | Recoverable<br>cost | Transpower<br>interconnection<br>charge |  | 2,944.53                        | 20/10/2017 |
| September<br>2017 | Coleridge GXP<br>Interconnection charge                      | Recoverable<br>cost | Transpower<br>interconnection<br>charge |  | 2,159.32                        | 20/10/2017 |
| September<br>2017 | Hororata GXP<br>Interconnection charge                       | Recoverable<br>cost | Transpower<br>interconnection<br>charge |  | 248,827.86                      | 20/10/2017 |
| September<br>2017 | Islington GXP<br>Interconnection charge                      | Recoverable<br>cost | Transpower<br>interconnection<br>charge |  | 3,992,011.36                    | 20/10/2017 |
| September<br>2017 | Kimberley GXP<br>Interconnection charge                      | Recoverable<br>cost | Transpower<br>interconnection<br>charge |  | 76,371.68                       | 20/10/2017 |

| Period<br>covered       | Charge   | Cost type                   | Subtotal group                                       | Amount paid if<br>different<br>(\$ excl GST) | Amount claimed<br>(\$ excl GST) | Date paid  |
|-------------------------|--|-----------------------------|--|--|---------------------------------|------------|
| September<br>2017       | Bromley Third<br>Transformer (T7) NIC<br>charge              | Recoverable<br>cost         | Transpower new investment contract                   |  | 64,000.00                       | 20/10/2017 |
| September<br>2017       | Hororata Additional<br>66kV feeder (bay 150)<br>NIC charge   | Recoverable<br>cost         | Transpower new investment contract                   |  | 1,949.38                        | 20/10/2017 |
| September<br>2017       | Hororata 33kV bus and<br>66kV line alterations<br>NIC charge | Recoverable<br>cost         | Transpower new investment contract                   |  | 1,919.00                        | 20/10/2017 |
| September<br>2017       | Islington metering for<br>ADD & MLN Feeders<br>NIC charge    | Recoverable<br>cost         | Transpower new investment contract                   |  | 7,464.21                        | 20/10/2017 |
| September<br>2017       | Islington metering for<br>PAP & SPN Feeders                  | Recoverable cost            | Transpower new<br>investment contract                |  | 13,218.00                       | 20/10/2017 |
| September<br>2017       | Kimberley 66kV GXP<br>Connection NIC charge                  | Recoverable<br>cost         | Transpower new investment contract                   |  | 84,471.00                       | 20/10/2017 |
| October                 | Arthurs Pass GXP   | Recoverable                 | Transpower   |  | 13,125.19                       | 20/11/2017 |
| 2017<br>October<br>2017 | Connection charge<br>Bromley GXP<br>Connection charge        | cost<br>Recoverable<br>cost | connection charge<br>Transpower<br>connection charge |  | 164,850.33                      | 20/11/2017 |
| October<br>2017         | Castle Hill GXP<br>Connection charge                         | Recoverable                 | Transpower<br>connection charge                      |  | 10,440.68                       | 20/11/2017 |
| October<br>2017         | Coleridge GXP<br>Connection charge                           | Recoverable<br>cost         | Transpower<br>connection charge                      |  | 12,052.36                       | 20/11/2017 |
| October<br>2017         | Hororata GXP<br>Connection charge                            | Recoverable cost            | Transpower<br>connection charge                      |  | 41,700.05                       | 20/11/2017 |
| October<br>2017         | Islington GXP<br>Connection charge                           | Recoverable<br>cost         | Transpower<br>connection charge                      |  | 154,849.51                      | 20/11/2017 |
| October<br>2017         | Kimberley GXP<br>Connection charge                           | Recoverable cost            | Transpower<br>connection charge                      |  | 1,813.78                        | 20/11/2017 |
| October<br>2017         | Bromley GXP<br>Connection charge<br>refund                   | Recoverable<br>cost         | Transpower<br>connection charge                      |  | (27,162.07)                     | 20/02/2018 |
| October<br>2017         | Arthurs Pass GXP<br>Interconnection charge                   | Recoverable<br>cost         | Transpower<br>interconnection<br>charge              |  | 1,756.38                        | 20/11/2017 |
| October<br>2017         | Bromley GXP<br>Interconnection charge                        | Recoverable<br>cost         | Transpower<br>interconnection<br>charge              |  | 1,110,612.84                    | 20/11/2017 |
| October<br>2017         | Castle Hill GXP<br>Interconnection charge                    | Recoverable<br>cost         | Transpower<br>interconnection<br>charge              |  | 2,944.53                        | 20/11/2017 |
| October<br>2017         | Coleridge GXP<br>Interconnection charge                      | Recoverable<br>cost         | Transpower<br>interconnection<br>charge              |  | 2,159.32                        | 20/11/2017 |
| October<br>2017         | Hororata GXP<br>Interconnection charge                       | Recoverable<br>cost         | Transpower<br>interconnection<br>charge              |  | 248,827.86                      | 20/11/2017 |
| October<br>2017         | Islington GXP<br>Interconnection charge                      | Recoverable<br>cost         | Transpower<br>interconnection<br>charge              |  | 3,992,011.36                    | 20/11/2017 |
| October<br>2017         | Kimberley GXP<br>Interconnection charge                      | Recoverable<br>cost         | Transpower<br>interconnection<br>charge              |  | 76,371.68                       | 20/11/2017 |
| October<br>2017         | Bromley Third<br>Transformer (T7) NIC<br>charge              | Recoverable<br>cost         | Transpower new investment contract                   |  | 64,000.00                       | 20/11/2017 |
| October<br>2017         | Hororata Additional<br>66kV feeder (bay 150)<br>NIC charge   | Recoverable<br>cost         | Transpower new investment contract                   |  | 1,949.38                        | 20/11/2017 |

| Period<br>covered | Charge   | Cost type           | Subtotal group                          | Amount paid if<br>different<br>(\$ excl GST) | Amount claimed<br>(\$ excl GST) | Date paid  |
|-------------------|--|---------------------|---|--|---------------------------------|------------|
| October<br>2017   | Hororata 33kV bus and<br>66kV line alterations<br>NIC charge | Recoverable<br>cost | Transpower new investment contract      |  | 1,919.00                        | 20/11/2017 |
| October<br>2017   | Islington metering for<br>ADD & MLN Feeders<br>NIC charge    | Recoverable<br>cost | Transpower new investment contract      |  | 7,464.21                        | 20/11/2017 |
| October<br>2017   | Islington metering for<br>PAP & SPN Feeders                  | Recoverable cost    | Transpower new investment contract      |  | 13,218.00                       | 20/11/2017 |
| October<br>2017   | Kimberley 66kV GXP<br>Connection NIC charge                  | Recoverable<br>cost | Transpower new<br>investment contract   |  | 84,471.00                       | 20/11/2017 |
| November<br>2017  | Arthurs Pass GXP<br>Connection charge                        | Recoverable cost    | Transpower<br>connection charge         |  | 13,125.19                       | 20/12/2017 |
| November<br>2017  | Bromley GXP<br>Connection charge                             | Recoverable cost    | Transpower<br>connection charge         |  | 164,850.33                      | 20/12/2017 |
| November<br>2017  | Castle Hill GXP<br>Connection charge                         | Recoverable cost    | Transpower<br>connection charge         |  | 10,440.68                       | 20/12/2017 |
| November<br>2017  | Coleridge GXP<br>Connection charge                           | Recoverable<br>cost | Transpower<br>connection charge         |  | 12,052.36                       | 20/12/2017 |
| November<br>2017  | Hororata GXP<br>Connection charge                            | Recoverable<br>cost | Transpower<br>connection charge         |  | 41,700.05                       | 20/12/2017 |
| November<br>2017  | Islington GXP<br>Connection charge                           | Recoverable         | Transpower<br>connection charge         |  | 154,849.51                      | 20/12/2017 |
| November<br>2017  | Kimberley GXP<br>Connection charge                           | Recoverable<br>cost | Transpower<br>connection charge         |  | 1,813.78                        | 20/12/2017 |
| November<br>2017  | Bromley GXP<br>Connection charge<br>refund                   | Recoverable<br>cost | Transpower<br>connection charge         |  | (27,162.07)                     | 20/02/2018 |
| November<br>2017  | Arthurs Pass GXP<br>Interconnection charge                   | Recoverable<br>cost | Transpower<br>interconnection<br>charge |  | 1,756.38                        | 20/12/2017 |
| November<br>2017  | Bromley GXP<br>Interconnection charge                        | Recoverable<br>cost | Transpower<br>interconnection<br>charge |  | 1,110,612.84                    | 20/12/2017 |
| November<br>2017  | Castle Hill GXP<br>Interconnection charge                    | Recoverable<br>cost | Transpower<br>interconnection<br>charge |  | 2,944.53                        | 20/12/2017 |
| November<br>2017  | Coleridge GXP<br>Interconnection charge                      | Recoverable<br>cost | Transpower<br>interconnection<br>charge |  | 2,159.32                        | 20/12/2017 |
| November<br>2017  | Hororata GXP<br>Interconnection charge                       | Recoverable<br>cost | Transpower<br>interconnection<br>charge |  | 248,827.86                      | 20/12/2017 |
| November<br>2017  | Islington GXP<br>Interconnection charge                      | Recoverable<br>cost | Transpower<br>interconnection<br>charge |  | 3,992,011.36                    | 20/12/2017 |
| November<br>2017  | Kimberley GXP<br>Interconnection charge                      | Recoverable<br>cost | Transpower<br>interconnection<br>charge |  | 76,371.68                       | 20/12/2017 |
| November<br>2017  | Bromley Third<br>Transformer (T7) NIC<br>charge              | Recoverable<br>cost | Transpower new<br>investment contract   |  | 64,000.00                       | 20/12/2017 |
| November<br>2017  | Hororata Additional<br>66kV feeder (bay 150)<br>NIC charge   | Recoverable<br>cost | Transpower new investment contract      |  | 1,949.38                        | 20/12/2017 |
| November<br>2017  | Hororata 33kV bus and<br>66kV line alterations<br>NIC charge | Recoverable<br>cost | Transpower new investment contract      |  | 1,919.00                        | 20/12/2017 |
| November<br>2017  | Islington metering for<br>ADD & MLN Feeders<br>NIC charge    | Recoverable<br>cost | Transpower new investment contract      |  | 7,464.21                        | 20/12/2017 |

| Period<br>covered | Charge   | Cost type           | Subtotal group                          | Amount paid if<br>different<br>(\$ excl GST) | Amount claimed<br>(\$ excl GST) | Date paid  |
|-------------------|--|---------------------|---|--|---------------------------------|------------|
| November<br>2017  | Islington metering for<br>PAP & SPN Feeders                  | Recoverable<br>cost | Transpower new<br>investment contract   |  | 13,218.00                       | 20/12/2017 |
| November<br>2017  | Kimberley 66kV GXP<br>Connection NIC charge                  | Recoverable<br>cost | Transpower new<br>investment contract   |  | 84,471.00                       | 20/12/2017 |
| December<br>2017  | Arthurs Pass GXP<br>Connection charge                        | Recoverable cost    | Transpower<br>connection charge         |  | 13,125.19                       | 22/01/2018 |
| December<br>2017  | Bromley GXP<br>Connection charge                             | Recoverable cost    | Transpower<br>connection charge         |  | 164,850.33                      | 22/01/2018 |
| December<br>2017  | Castle Hill GXP<br>Connection charge                         | Recoverable cost    | Transpower<br>connection charge         |  | 10,440.68                       | 22/01/2018 |
| December<br>2017  | Coleridge GXP<br>Connection charge                           | Recoverable cost    | Transpower<br>connection charge         |  | 12,052.36                       | 22/01/2018 |
| December<br>2017  | Hororata GXP<br>Connection charge                            | Recoverable cost    | Transpower<br>connection charge         |  | 41,700.05                       | 22/01/2018 |
| December<br>2017  | Islington GXP<br>Connection charge                           | Recoverable<br>cost | Transpower<br>connection charge         |  | 154,849.51                      | 22/01/2018 |
| December<br>2017  | Kimberley GXP<br>Connection charge                           | Recoverable<br>cost | Transpower<br>connection charge         |  | 1,813.78                        | 22/01/2018 |
| December<br>2017  | Bromley GXP<br>Connection charge<br>refund                   | Recoverable<br>cost | Transpower<br>connection charge         |  | (27,162.07)                     | 20/02/2018 |
| December<br>2017  | Arthurs Pass GXP<br>Interconnection charge                   | Recoverable<br>cost | Transpower<br>interconnection<br>charge |  | 1,756.38                        | 22/01/2018 |
| December<br>2017  | Bromley GXP<br>Interconnection charge                        | Recoverable<br>cost | Transpower<br>interconnection<br>charge |  | 1,110,612.84                    | 22/01/2018 |
| December<br>2017  | Castle Hill GXP<br>Interconnection charge                    | Recoverable<br>cost | Transpower<br>interconnection<br>charge |  | 2,944.53                        | 22/01/2018 |
| December<br>2017  | Coleridge GXP<br>Interconnection charge                      | Recoverable<br>cost | Transpower<br>interconnection<br>charge |  | 2,159.32                        | 22/01/2018 |
| December<br>2017  | Hororata GXP<br>Interconnection charge                       | Recoverable<br>cost | Transpower<br>interconnection<br>charge |  | 248,827.86                      | 22/01/2018 |
| December<br>2017  | Islington GXP<br>Interconnection charge                      | Recoverable<br>cost | Transpower<br>interconnection<br>charge |  | 3,992,011.36                    | 22/01/2018 |
| December<br>2017  | Kimberley GXP<br>Interconnection charge                      | Recoverable<br>cost | Transpower<br>interconnection<br>charge |  | 76,371.68                       | 22/01/2018 |
| December<br>2017  | Bromley Third<br>Transformer (T7) NIC<br>charge              | Recoverable<br>cost | Transpower new<br>investment contract   |  | 64,000.00                       | 22/01/2018 |
| December<br>2017  | Hororata Additional<br>66kV feeder (bay 150)<br>NIC charge   | Recoverable<br>cost | Transpower new investment contract      |  | 1,949.38                        | 22/01/2018 |
| December<br>2017  | Hororata 33kV bus and<br>66kV line alterations<br>NIC charge | Recoverable<br>cost | Transpower new investment contract      |  | 1,919.00                        | 22/01/2018 |
| December<br>2017  | Islington metering for<br>ADD & MLN Feeders<br>NIC charge    | Recoverable<br>cost | Transpower new investment contract      |  | 7,464.21                        | 22/01/2018 |
| December<br>2017  | Islington metering for<br>PAP & SPN Feeders                  | Recoverable cost    | Transpower new investment contract      |  | 13,218.00                       | 22/01/2018 |
| December<br>2017  | Kimberley 66kV GXP<br>Connection NIC charge                  | Recoverable<br>cost | Transpower new investment contract      |  | 84,471.00                       | 22/01/2018 |
|                   |  |                     |   |  |                                 |            |

| Period<br>covered        | Charge   | Cost type                   | Subtotal group                                       | Amount paid if<br>different<br>(\$ excl GST) | Amount claimed<br>(\$ excl GST) | Date paid  |
|--------------------------|--|-----------------------------|--|--|---------------------------------|------------|
| January<br>2018          | Arthurs Pass GXP<br>Connection charge                        | Recoverable cost            | Transpower connection charge                         |  | 13,125.19                       | 20/02/2018 |
| January<br>2018          | Bromley GXP<br>Connection charge                             | Recoverable                 | Transpower<br>connection charge                      |  | 137,688.26                      | 20/02/2018 |
| January                  | Castle Hill GXP  | Recoverable                 | Transpower   |  | 10,440.68                       | 20/02/2018 |
| 2018<br>January          | Connection charge<br>Coleridge GXP                           | cost<br>Recoverable         | connection charge<br>Transpower                      |  | 12,052.36                       | 20/02/2018 |
| 2018<br>January          | Connection charge<br>Hororata GXP                            | cost<br>Recoverable         | connection charge<br>Transpower                      |  | 41,700.05                       | 20/02/2018 |
| 2018<br>January          | Connection charge<br>Islington GXP                           | cost<br>Recoverable         | connection charge<br>Transpower                      |  | 154,849.51                      | 20/02/2018 |
| 2018<br>January          | Connection charge<br>Kimberley GXP                           | cost<br>Recoverable         | connection charge<br>Transpower                      |  | 1,813.78                        | 20/02/2018 |
| 2018                     | Connection charge  | cost                        | connection charge                                    |  | 1,813.78                        | 20/02/2018 |
| January                  | Arthurs Pass GXP   | Recoverable                 | Transpower   |  | 1,756.38                        | 20/02/2018 |
| 2018                     | Interconnection charge                                       | cost                        | interconnection<br>charge                            |  |                                 |            |
| January<br>2018          | Bromley GXP<br>Interconnection charge                        | Recoverable cost            | Transpower<br>interconnection<br>charge              |  | 1,110,612.84                    | 20/02/2018 |
| January<br>2018          | Castle Hill GXP<br>Interconnection charge                    | Recoverable<br>cost         | Transpower<br>interconnection<br>charge              |  | 2,944.53                        | 20/02/2018 |
| January<br>2018          | Coleridge GXP<br>Interconnection charge                      | Recoverable<br>cost         | Transpower<br>interconnection<br>charge              |  | 2,159.32                        | 20/02/2018 |
| January<br>2018          | Hororata GXP<br>Interconnection charge                       | Recoverable<br>cost         | Transpower<br>interconnection<br>charge              |  | 248,827.86                      | 20/02/2018 |
| January<br>2018          | Islington GXP<br>Interconnection charge                      | Recoverable<br>cost         | Transpower<br>interconnection<br>charge              |  | 3,992,011.36                    | 20/02/2018 |
| January<br>2018          | Kimberley GXP<br>Interconnection charge                      | Recoverable<br>cost         | Transpower<br>interconnection<br>charge              |  | 76,371.68                       | 20/02/2018 |
| January<br>2018          | Bromley Third<br>Transformer (T7) NIC<br>charge              | Recoverable<br>cost         | Transpower new<br>investment contract                |  | 64,000.00                       | 20/02/2018 |
| January<br>2018          | Hororata Additional<br>66kV feeder (bay 150)<br>NIC charge   | Recoverable<br>cost         | Transpower new investment contract                   |  | 1,949.38                        | 20/02/2018 |
| January<br>2018          | Hororata 33kV bus and<br>66kV line alterations<br>NIC charge | Recoverable<br>cost         | Transpower new investment contract                   |  | 1,919.00                        | 20/02/2018 |
| January<br>2018          | Islington metering for<br>ADD & MLN Feeders<br>NIC charge    | Recoverable<br>cost         | Transpower new investment contract                   |  | 7,464.21                        | 20/02/2018 |
| January<br>2018          | Islington metering for<br>PAP & SPN Feeders                  | Recoverable cost            | Transpower new investment contract                   |  | 13,218.00                       | 20/02/2018 |
| January<br>2018          | Kimberley 66kV GXP<br>Connection NIC charge                  | Recoverable<br>cost         | Transpower new<br>investment contract                |  | 84,471.00                       | 20/02/2018 |
| February<br>2018         | Arthurs Pass GXP<br>Connection charge                        | Recoverable cost            | Transpower<br>connection charge                      |  | 13,125.19                       | 20/03/2018 |
| February                 | Bromley GXP  | Recoverable                 | Transpower   |  | 137,688.26                      | 20/03/2018 |
| 2018<br>February<br>2018 | Connection charge<br>Castle Hill GXP<br>Connection charge    | cost<br>Recoverable<br>cost | connection charge<br>Transpower<br>connection charge |  | 10,440.68                       | 20/03/2018 |
| February<br>2018         | Coleridge GXP<br>Connection charge                           | Recoverable<br>cost         | Transpower<br>connection charge                      |  | 12,052.36                       | 20/03/2018 |

| Period<br>covered | Charge                                  | Cost type           | Subtotal group                        | Amount paid if<br>different<br>(\$ excl GST) | Amount claimed<br>(\$ excl GST) | Date paid  |
|-------------------|---|---------------------|---------------------------------------|--|---------------------------------|------------|
| February          | Hororata GXP                            | Recoverable         | Transpower                            |  | 41,700.05                       | 20/03/2018 |
| 2018              | Connection charge                       | cost                | connection charge                     |  |                                 |            |
| February          | Islington GXP                           | Recoverable         | Transpower                            |  | 154,849.51                      | 20/03/2018 |
| 2018              | Connection charge                       | cost                | connection charge                     |  |                                 |            |
| February          | Kimberley GXP                           | Recoverable         | Transpower                            |  | 1,813.78                        | 20/03/2018 |
| 2018              | Connection charge                       | cost                | connection charge                     |  |                                 |            |
| February          | Arthurs Pass GXP                        | Recoverable         | Transpower                            |  | 1,756.38                        | 20/03/2018 |
| 2018              | Interconnection charge                  | cost                | interconnection                       |  |                                 |            |
|                   |   |                     | charge                                |  |                                 |            |
| February          | Bromley GXP                             | Recoverable         | Transpower                            |  | 1,110,612.84                    | 20/03/2018 |
| 2018              | Interconnection charge                  | cost                | interconnection                       |  |                                 |            |
|                   |   |                     | charge                                |  |                                 |            |
| February          | Castle Hill GXP                         | Recoverable         | Transpower                            |  | 2,944.53                        | 20/03/2018 |
| 2018              | Interconnection charge                  | cost                | interconnection                       |  |                                 |            |
|                   |   |                     | charge                                |  |                                 |            |
| February          | Coleridge GXP                           | Recoverable         | Transpower                            |  | 2,159.32                        | 20/03/2018 |
| 2018              | Interconnection charge                  | cost                | interconnection                       |  |                                 |            |
| E.L.              |   | Dece 11             | charge                                |  | 240.000 00                      | 20/02/22:5 |
| February          | Hororata GXP                            | Recoverable         | Transpower                            |  | 248,827.86                      | 20/03/2018 |
| 2018              | Interconnection charge                  | cost                | interconnection                       |  |                                 |            |
| Colorian .        | Jalia atau CYD                          | Deseverable         | charge                                |  | 2 002 011 20                    | 20/02/2010 |
| February<br>2018  | Islington GXP<br>Interconnection charge | Recoverable<br>cost | Transpower<br>interconnection         |  | 3,992,011.36                    | 20/03/2018 |
| 2018              | interconnection charge                  | COST                | charge                                |  |                                 |            |
| February          | Kimberley GXP                           | Recoverable         | Transpower                            |  | 76,371.68                       | 20/03/2018 |
| 2018              | Interconnection charge                  | cost                | interconnection                       |  | 70,371.00                       | 20/03/2018 |
| 2010              | interconnection charge                  | cost                | charge                                |  |                                 |            |
|                   |   |                     | charge                                |  |                                 |            |
| February          | Bromley Third                           | Recoverable         | Transpower new                        |  | 64,000.00                       | 20/03/2018 |
| 2018              | Transformer (T7) NIC                    | cost                | investment contract                   |  | ,                               | ,,         |
|                   | charge                                  |                     |                                       |  |                                 |            |
| February          | Hororata Additional                     | Recoverable         | Transpower new                        |  | 1,949.38                        | 20/03/2018 |
| 2018              | 66kV feeder (bay 150)                   | cost                | investment contract                   |  |                                 |            |
|                   | NIC charge                              |                     |                                       |  |                                 |            |
| February          | Hororata 33kV bus and                   | Recoverable         | Transpower new                        |  | 1,919.00                        | 20/03/2018 |
| 2018              | 66kV line alterations                   | cost                | investment contract                   |  |                                 |            |
|                   | NIC charge                              |                     |                                       |  |                                 |            |
| February          | Islington metering for                  | Recoverable         | Transpower new                        |  | 7,464.21                        | 20/03/2018 |
| 2018              | ADD & MLN Feeders                       | cost                | investment contract                   |  |                                 |            |
|                   | NIC charge                              |                     | -                                     |  | 10.010.00                       | 20/02/2010 |
| February          | Islington metering for                  | Recoverable         | Transpower new                        |  | 13,218.00                       | 20/03/2018 |
| 2018<br>February  | PAP & SPN Feeders<br>Kimberley 66kV GXP | cost<br>Recoverable | investment contract<br>Transpower new |  | 84,471.00                       | 20/03/2018 |
| 2018              | Connection NIC charge                   | cost                | investment contract                   |  | 84,471.00                       | 20/03/2018 |
| 2010              | connection me charge                    |                     |                                       |  |                                 |            |
|                   |   |                     |                                       |  |                                 |            |
| March 2018        | Arthurs Pass GXP                        | Recoverable         | Transpower                            |  | 13,125.19                       | 20/04/2018 |
|                   | Connection charge                       | cost                | connection charge                     |  |                                 | <u> </u>   |
| March 2018        | Bromley GXP                             | Recoverable         | Transpower                            |  | 137,688.26                      | 20/04/2018 |
|                   | Connection charge                       | cost                | connection charge                     |  |                                 |            |
| March 2018        | Castle Hill GXP                         | Recoverable         | Transpower                            |  | 10,440.68                       | 20/04/2018 |
|                   | Connection charge                       | cost                | connection charge                     |  |                                 |            |
| March 2018        | Coleridge GXP                           | Recoverable         | Transpower                            |  | 12,052.36                       | 20/04/2018 |
|                   | Connection charge                       | cost                | connection charge                     |  |                                 |            |
| March 2018        | Hororata GXP                            | Recoverable         | Transpower                            |  | 41,700.05                       | 20/04/2018 |
|                   | Connection charge                       | cost                | connection charge                     |  |                                 |            |
| March 2018        | Islington GXP                           | Recoverable         | Transpower                            |  | 154,849.51                      | 20/04/2018 |
|                   | Connection charge                       | cost                | connection charge                     |  |                                 | 20/01/2010 |
| March 2018        | Kimberley GXP<br>Connection charge      | Recoverable         | Transpower                            |  | 1,813.78                        | 20/04/2018 |
|                   | I ODDOCTION CHORGO                      | cost                | connection charge                     | 1  | 1                               | 1          |

| Period<br>covered           | Charge  | Cost type           | Subtotal group   | Amount paid if<br>different<br>(\$ excl GST) | Amount claimed<br>(\$ excl GST) | Date paid  |
|-----------------------------|---|---------------------|--|--|---------------------------------|------------|
| March 2018                  | Arthurs Pass GXP<br>Interconnection charge  | Recoverable cost    | Transpower<br>interconnection  |  | 1,756.38                        | 20/04/2018 |
| March 2018                  | Bromley GXP<br>Interconnection charge   | Recoverable<br>cost | charge<br>Transpower<br>interconnection  |  | 1,110,612.84                    | 20/04/2018 |
| March 2018                  | Castle Hill GXP<br>Interconnection charge   | Recoverable<br>cost | charge<br>Transpower<br>interconnection<br>charge                                |  | 2,944.53                        | 20/04/2018 |
| March 2018                  | Coleridge GXP<br>Interconnection charge   | Recoverable<br>cost | Transpower<br>interconnection<br>charge  |  | 2,159.32                        | 20/04/2018 |
| March 2018                  | Hororata GXP<br>Interconnection charge  | Recoverable<br>cost | Transpower<br>interconnection<br>charge  |  | 248,827.86                      | 20/04/2018 |
| March 2018                  | Islington GXP<br>Interconnection charge   | Recoverable<br>cost | Transpower<br>interconnection<br>charge  |  | 3,992,011.36                    | 20/04/2018 |
| March 2018                  | Kimberley GXP<br>Interconnection charge   | Recoverable<br>cost | Transpower<br>interconnection<br>charge  |  | 76,371.68                       | 20/04/2018 |
| March 2018                  | Bromley Third<br>Transformer (T7) NIC<br>charge   | Recoverable<br>cost | Transpower new investment contract   |  | 64,000.00                       | 20/04/2018 |
| March 2018                  | Hororata Additional<br>66kV feeder (bay 150)<br>NIC charge  | Recoverable<br>cost | Transpower new investment contract   |  | 1,949.38                        | 20/04/2018 |
| March 2018                  | Hororata 33kV bus and<br>66kV line alterations<br>NIC charge  | Recoverable<br>cost | Transpower new investment contract   |  | 1,919.00                        | 20/04/2018 |
| March 2018                  | Islington metering for<br>ADD & MLN Feeders<br>NIC charge   | Recoverable<br>cost | Transpower new investment contract   |  | 7,464.21                        | 20/04/2018 |
| March 2018                  | Islington metering for<br>PAP & SPN Feeders   | Recoverable cost    | Transpower new<br>investment contract  |  | 13,218.00                       | 20/04/2018 |
| March 2018                  | Kimberley 66kV GXP<br>Connection NIC charge   | Recoverable cost    | Transpower new<br>investment contract  |  | 84,471.00                       | 20/04/2018 |
| May to Aug<br>2017          | Export credits<br>(transmission part)   | Recoverable<br>cost | Avoided transmission<br>charges (Export<br>credits)                              |  | 113,662.88                      | 20/11/2017 |
| Sept 2016<br>to Aug<br>2017 | Export credits<br>(transmission part)   | Recoverable<br>cost | Avoided transmission<br>charges (Export<br>credits)                              |  | 19,024.15                       | 20/02/2018 |
| May and<br>July 2017        | Generation credits<br>(transmission part)   | Recoverable<br>cost | Avoided transmission<br>charges (Generation<br>credits)                          |  | 16,631.60                       | 20/08/2017 |
| FY2018                      | Transpower<br>connection charges<br>avoided following<br>partial purchase of<br>Bromley grid exit on 1<br>April 2014          | Recoverable<br>cost | Avoided transmission<br>charges (Partial<br>purchase of Bromley<br>grid exit)    | Nil  | 945,777.51                      | NA         |
| FY2018                      | Transpower new<br>investment contract<br>charges avoided<br>following purchase of<br>Springston grid exit on<br>31 March 2014 | Recoverable<br>cost | Avoided transmission<br>charges (Paying of<br>Springston<br>investment contract) | Nil  | 164,125.02                      | NA         |

# ORION NEW ZEALAND LIMITED CUSTOMISED PRICE-QUALITY PATH COMPLIANCE STATEMENT FOR THE YEAR ENDED 31 MARCH 2018

| Period<br>covered | Charge  | Cost type           | Subtotal group  | Amount paid if<br>different<br>(\$ excl GST) | Amount claimed<br>(\$ excl GST) | Date paid |
|-------------------|---|---------------------|---|--|---------------------------------|-----------|
| FY2018            | Transpower<br>connection charges<br>avoided following<br>purchase of Addington<br>& Middleton grid exits<br>on 1 April 2015 | Recoverable<br>cost | Avoided transmission<br>charges (Purchase of<br>Addington/Middleton<br>grid exit) | Nil  | 2,851,075.53                    | NA        |
| FY2018            | Transpower<br>connection charges<br>avoided following<br>purchase of Springston<br>grid exit on 31 March<br>2014            | Recoverable<br>cost | Avoided transmission<br>charges (Purchase of<br>Springston grid exit)             | Nil  | 866,166.40                      | NA        |
| Total             |   |                     |   |  | 82,075,685.75                   |           |

#### Subtotals

| Cost Type Grouping   |               |
|--|---------------|
| Recoverable cost   | 77,331,840.08 |
| Pass through cost  | 4,743,845.67  |
|  | 82,075,685.75 |
| Subtotal group Grouping  |               |
| Commerce Act levies  | 376,000.90    |
| Utilities Disputes Charge  | 103,641.09    |
| Electricity Authority Levy   | 564,771.73    |
| Local authority rates  | 3,699,431.95  |
| Avoided transmission charges (Export credits)                            | 132,687.03    |
| Avoided transmission charges (Generation credits)                        | 16,631.60     |
| Avoided transmission charges (Purchase of Springston grid exit)          | 866,166.40    |
| Avoided transmission charges (Paying of Springston investment contract)  | 164,125.02    |
| Avoided transmission charges (Partial purchase of Bromley grid exit)     | 945,777.51    |
| Avoided transmission charges (Purchase of Addington/Middleton grid exit) | 2,851,075.53  |
| CPP Auditor Fee  | 61,694.27     |
| CPP Commerce Commission application fee                                  | 5,032.20      |
| CPP Commerce Commission assessment fee                                   | 317,784.69    |
| CPP Engineer Fee   | 3,872.11      |
| CPP Verifier Fee   | 51,516.62     |
| Transpower connection charge   | 4,623,010.38  |
| Transpower interconnection charge  | 65,216,207.64 |
| Transpower new investment contract                                       | 2,076,259.08  |
|  | 82,075,685.75 |

#### **APPENDIX E – CALCULATION OF CPP COST INSTALMENTS**

Schedule 2, paragraph 3 of the CPP determination provides for the recovery of cost amounts relating to Orion's CPP proposal in equal instalments over the five assessment periods, calculated as:

RC<sub>t</sub> = 0.23126 x PV<sub>14</sub>

where:

t is the year in which the Assessment Period ends;

RCt is the Recoverable Cost amount allowed in the assessment period ending in year t;

 $PV_{14}$  is the present value at 1 April 2014 of each amount recoverable, with each present value calculated using a cost debt of 7.93% per annum.

| Cost             | Paid to                     | Cost<br>(excl GST) | Date paid  | Days to<br>1/04/2014 | Present value<br>7.93% p.a. | Instalment<br>@ 0.23123 |
|------------------|-----------------------------|--------------------|------------|----------------------|-----------------------------|-------------------------|
| Breakdown by ind | lividual invoice            |                    |            |                      |                             |                         |
| Engineer fee     | LineTech<br>Consulting      | \$12,350           | 20/12/2012 | 467                  | \$13,617                    | \$3,149                 |
| Auditor fee      | Audit NZ                    | \$50,000           | 7/12/2012  | 480                  | \$55,278                    | \$12,782                |
| Verifier fee     | Geoff Brown &<br>Associates | \$73,008           | 20/12/2012 | 467                  | \$80,496                    | \$18,613                |
| Auditor fee      | Audit NZ                    | \$80,000           | 21/01/2013 | 435                  | \$87,617                    | \$20,260                |
| Verifier fee     | Geoff Brown &<br>Associates | \$67,556           | 25/01/2013 | 431                  | \$73,927                    | \$17,094                |
| Engineer fee     | LineTech<br>Consulting      | \$2,875            | 20/02/2013 | 405                  | \$3,129                     | \$724                   |
| Auditor fee      | Audit NZ                    | \$40,000           | 8/02/2013  | 417                  | \$43,644                    | \$10,092                |
| Application fee  | Com Com                     | \$20,000           | 21/02/2013 | 404                  | \$21,763                    | \$5,032                 |
| Auditor fee      | Audit NZ                    | \$74,000           | 8/03/2013  | 389                  | \$80,270                    | \$18,561                |
| Verifier fee     | Geoff Brown &<br>Associates | \$63,627           | 22/04/2013 | 344                  | \$68,371                    | \$15,809                |
| Assessment fee   | Com Com                     | \$1,080,745        | 20/05/2013 | 316                  | \$1,154,559                 | \$266,969               |
| Assessment fee   | Com Com                     | \$148,923          | 20/08/2013 | 224                  | \$156,063                   | \$36,087                |
| Assessment fee   | Com Com                     | \$324,662          | 20/12/2013 | 102                  | \$331,660                   | \$76,690                |
| Assessment fee   | Com Com                     | (\$266,856)        | 14/03/2014 | 18                   | (\$267,901)                 | (\$61,947)              |
| Total            |                             | \$1,770,890        |            |                      | \$1,902,493                 | \$439,913               |
| Breakdown by cos | st type                     |                    |            |                      |                             |                         |
| Engineer fee     | LineTech<br>Consulting      | \$15,225           | *          |                      | \$16,746                    | \$3,872                 |
| Auditor fee      | Audit NZ                    | \$244,000          | *          |                      | \$266,809                   | \$61,694                |
| Verifier fee     | Geoff Brown &<br>Associates | \$204,191          | *          |                      | \$222,794                   | \$51,517                |
| Application fee  | Com Com                     | \$20,000           |            |                      | \$21,763                    | \$5,032                 |
| Assessment fee   | Com Com                     | \$1,287,474        |            |                      | \$1,374,381                 | \$317,798               |
| Total            |                             | \$1,770,890        |            |                      | \$1,902,493                 | \$439,913               |

\* these amounts match those given in schedule 2, table 1 of the CPP determination.

#### DIRECTORS' CERTIFICATE FOR COMPLIANCE STATEMENT

We, Geoffrey Edward Vazey and Bruce Donald Gemmell, being directors of Orion New Zealand Limited certify that, having made all reasonable enquiry, to the best of our knowledge and belief, the attached compliance statement of Orion New Zealand Limited, and related information, prepared for the purposes of the Orion New Zealand Limited Customised Price-Quality Path Determination 2013 has been prepared in accordance with all the relevant requirements.

**Geoffrey Edward Vazey** 

**Bruce Donald Gemmell** 

28 May 2018



# **Independent Auditor's Report**

# To the directors of Orion New Zealand Limited and to the Commerce Commission

The Auditor-General is the auditor of Orion New Zealand Limited (the company). The Auditor-General has appointed me, John Mackey, using the staff and resources of Audit New Zealand, to provide an opinion, on his behalf, on whether the company's Compliance Statement for the year ended on 31 March 2018 on pages 3 to 53 complies, in all material respects, with the Orion New Zealand Limited Customised Price-Quality Path Determination 2013 (the Determination).

## **Directors' responsibilities**

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

## Auditor's responsibility

Our responsibility is to express an opinion on whether the 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: Assurance Engagements Other Than Audits or Reviews of Historical Financial Information issued by the External Reporting Board and the Standard on Assurance Engagements 3100: Compliance Engagements issued by the External Reporting Board.

These standards require that we comply with ethical requirements and plan and perform our audit to provide reasonable assurance (which is also referred to as 'audit' assurance) about whether the Compliance Statement has been prepared in all material respects in accordance with the Determination.

An audit involves performing procedures to obtain evidence about the amounts and disclosures in the Compliance Statement. The procedures selected depend on the auditor's judgement, including the assessment of the risks of material misstatement of the Compliance Statement, whether due to fraud or error or non-compliance with the Determination. In making those risk assessments, the auditor considers internal control relevant to the company's preparation of the Compliance

Statement in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the company's internal control.

In relation to the price path and quality standards set out in clauses 7 and 8 of the Determination respectively, our audit included examination, on a test basis, of evidence relevant to the amounts and disclosures contained on pages 3 to 53 of the Compliance Statement.

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

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

## Use of this report

This independent auditor's report has been prepared for the directors of the company and for the Commerce Commission for the purpose of providing those parties with independent audit assurance about whether the 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 an audit 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 Compliance Statement nor do we guarantee complete accuracy of the Compliance Statement. Also we did not evaluate the security and controls over the electronic publication of the Compliance Statement.

The opinion expressed in this independent auditor's report has been formed on the above basis.

### Independence

When carrying out the engagement we followed the independence requirements of the Auditor-General, which incorporate the independence requirements of the External Reporting Board. We also complied with the auditor requirements specified in the Determination.

The Auditor-General, and his employees, and Audit New Zealand 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, the audit of the company's disclosure information prepared under the Electricity Distribution Information Disclosure Determination 2012, and the annual audit of the company's financial statements, we have no relationship with or interests in the company.

# Opinion

In our opinion:

- the Compliance Statement of Orion New Zealand Limited for the year ended on 31 March 2018, has been prepared, in all material respects, in accordance with the Determination;
- the information used in the preparation of the Compliance Statement has been properly extracted from the company's accounting and other records, sourced from its financial and non-financial systems; and
- proper records to enable the complete and accurate compilation of the Compliance Statement have been kept.

Our audit was completed on 28 May 2018 and our opinion is expressed as at that date.

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John Mackey Audit New Zealand On behalf of the Auditor-General Christchurch, New Zealand