

Electricity Pricing Policy

2019

POWERCO

Powerco Limited – Electricity Pricing Policy

Schedule Ten:	Electricity Pricing Schedule
Schedule Eleven:	Loss Factors
Schedule Twelve:	Billing and Settlement Process

Effective: 1 April 2019

Version: 1

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General terms and conditions



Schedule Ten: Electricity Pricing Schedule

Part A: General Terms and Conditions

1.0 Introduction

- 1.1 This Pricing Schedule applies to the Distributor's Networks and sets the prices for use of the Network effective from 1 April 2019.
- 1.2 This Pricing Schedule is made up of five parts:
 - Part A – Price categories applying to both the Western and Eastern regions;
 - Part B – Price categories for the Western Region only;
 - Part C – Price categories for the Eastern Region only;
 - Part D – Meter Configuration;
 - Part E – Streetlights / Unmetered Supply
- 1.3 For any Network Agreement that is in the form of the Model Use of System Agreement, published by the Electricity Authority, this Pricing Schedule forms Schedules 10, 11 and 12 of that Network Agreement.
- 1.4 Where any provision of this Pricing Schedule conflicts with the provisions of any Network Agreement, the Network Agreement will prevail.

2.0 Interpretation

- 2.1 All charges are exclusive of GST.
- 2.2 All times stated in this Pricing Schedule are in New Zealand Daylight Saving Time.

3.0 Definitions

- 3.1 Unless the context otherwise requires, terms in the Pricing Schedule defined in the Network Agreement have those defined meanings.
- 3.2 Some additional terms are defined where required in Parts B and C of this Pricing Schedule and apply to the relevant part only.
- 3.3 **“Anytime Maximum Demand” (AMD)** means the single highest kW peak occurring any time in the twelve month period from 1 September to 31 August, the result of which is applied in the subsequent Price Year commencing 1 April.
- 3.4 **“Avoided Cost of Transmission” (ACOT)** is the amount equal to the actual reduction in Transpower's annual charges payable by Powerco to Transpower under Transpower's “Transmission Pricing Methodology” (which may change from time to time) arising as a direct result of the Generator being connected to Powerco's Network and reflects the benefits to Powerco of having the Generator connected to the Distribution Network.

- 3.5 **“Calendar Year”** is a one-year period that begins on 1 January and ends 31 December.
- 3.6 **“Connection” or “Point of Connection”** means each point of connection at which a supply of electricity may flow between the Distribution Network and the Consumer’s Installation, as defined by the Distributor.
- 3.7 **“Consumer”** means a purchaser of electricity from the Retailer where the electricity is delivered via the Distribution Network.
- 3.8 **“Consumption Data”** means data, provided by the Retailer to the Distributor in the EIEP format as required under the Network Agreement, showing details of the measured electricity consumption on the Distribution Network(s) to which the Network Agreement applies.
- 3.9 **“Consumption Data Due Date”** means the date the Retailer must provide Consumption Data.
- 3.10 **“Consumption Month”** means the month to which Consumption Data relates.
- 3.11 **“Controlled Price Category” or “Controlled Tariff Option”** means a Price Category or Tariff Option allocated to an ICP where the ICP meets the criteria set out in paragraph 34.
- 3.12 **“Current Month”** means the month in which the charges to the Retailer are being invoiced.
- 3.13 **“Customer”** means a direct customer or a Retailer (where the Retailer is the customer).
- 3.14 **“Customised Price Path (CPP)”** means Powerco’s compliance with clause 8 of the Powerco Limited Electricity Distribution Customised Price-Quality Path Determination 2018, issued pursuant to Part 4 of the Commerce Act 1986.
- 3.15 **“Delivery Charges”** means the fixed and variable charges levied by the Distributor on Customers for the use of the Distribution Network, as described in this Pricing Policy.
- 3.16 **“Demand”** means the rate of expending electrical energy expressed in kilowatts (kW) or kilovolt amperes (kVA).
- 3.17 **“Distributed Generation” or “Embedded Generation”** means electricity generation that is connected and distributed within the Network.
- 3.18 **“Distributed Generator” or “Embedded Generator”** means an electricity generation plant producing Embedded Generation.

3.19 **“Distribution Network” or “Network”** means:

The Distribution Network is connected to the Transpower transmission system at the following GXPs

EASTERN REGION – VALLEY	Hinuera (HIN0331) Kinleith (KIN0331 & KIN0112) Kopu (KPU0661) Piako (PAO1101) Waihou (WHU0331) Waikino (WKO0331)
EASTERN REGION - TAURANGA	Tauranga (TGA0111 and TGA0331) Mt Maunganui (MTM0331) Te Matai (TMI0331) Kaitemako (KMO0331)
WESTERN REGION – WAIRARAPA	Greytown (GYT0331) Masterton (MST0331)
WESTERN REGION – MANAWATU	Bunnythorpe (BPE0331) Linton (LTN0331) Mangamaire (MGM0331)
WESTERN REGION – TARANAKI	Carrington (CST0331) Huirangi (HUI0331) Hawera (HWA0331) New Plymouth (NPL0331) Opunake (OPK0331) Stratford (SFD0331)
WESTERN REGION – WANGANUI	Brunswick (BRK0331) Marton (MTN0331) Mataroa (MTR0331) Ohakune (OKN0111) Wanganui (WGN0331) Waverley (WVY0111)

- 3.20 **“Distributor”** means Powerco Limited, as the operator and owner of the Distribution Networks, and includes its subsidiaries, successors and assignees.
- 3.21 **“EIEP”** means the regulated and non-regulated Electricity Information Exchange Protocols published by the Electricity Authority.
- 3.22 **“Electricity Industry Participation Code” or “Code”** means the rules made by the Electricity Authority under Part 2 of the Electricity Industry Act 2010, as may be amended from time to time.
- 3.23 **“Electrical System”** means the Distributor’s overhead and underground electricity distribution and sub-transmission power system network.
- 3.24 **“Embedded Network”** means an electricity distribution network that is owned by someone other than the Distributor, where Consumers have ICPs allocated and managed by the embedded network owner (or another Code participant appointed for the purpose), and consumers within the network have the ability to switch Retailers.
- 3.25 **“Full Replacement File” (R)** means a Consumption Data file that is intended to fully replace a previously submitted Initial File in EIEP1.

- 3.26 **“Grid Exit Point” (GXP)** means a point of connection between Transpower’s transmission system and the Distributor’s Network.
- 3.27 **“GST”** means Goods and Services Tax, as defined in the Goods and Services Tax Act 1985.
- 3.28 **“Half-Hour Metering” (HHR)** (also referred to as TOU metering) means metering that measures the electricity consumed for a particular period (usually half-hourly) and complies with Part 10 of the Code.
- 3.29 **“High-Voltage” (HV)** means voltage above 1,000 volts, generally 11,000 volts, for supply to Consumers.
- 3.30 **“High-Voltage (HV) Metering Units”** means the collective term used to describe the Voltage Potential and Current Transformers used primarily for transforming and isolating high voltages and currents into practical and readable quantities for use with revenue-metering equipment. In most instances, the meter is not Powerco-owned.
- 3.31 **“Initial File” (I)** means the initial Consumption Data reported for an ICP, for a specific consumption period in EIEP1 or EIEP3 format.
- 3.32 **“Installation Control Point” (ICP)** means a Point of Connection on the Distributor’s Network, which the Distributor nominates as the point at which a Retailer is deemed to supply electricity to a Consumer, and has the attributes set out in the Code.
- 3.33 **“Instructing Retailer”** means, with respect to a Distribution Network, the Retailer that supplies the majority of ICPs in a region; which are under load management unless the Retailers and Powerco otherwise agree.
- 3.34 **“Interest Rate”** means, on any given day, the rate (expressed as a percentage per annum and rounded to the nearest fourth decimal place) displayed on Reuters’ screen page BKBM (or its successor page) at or about 10:45am on that day as the bid rate for three-month bank-accepted bills of exchange or, if no such rate is displayed or that page is not available, the average (expressed as a percentage per annum and rounded up to the nearest fourth decimal place) of the bid rates for three-month bank-accepted bills of exchange quoted at or around 10.45am on that day by each of the entities listed on the Reuters’ screen page when the rate was last displayed or, as the case may be, that page was last available.
- 3.35 **“kVA”** means kilovolt–ampere (amp).
- 3.36 **“kVAh”** means kilovolt ampere hour.
- 3.37 **“kVAR”** means kilovolt ampere reactive.

- 3.38 **“kW”** means kilowatt.
- 3.39 **“kWh”** means kilowatt hour.
- 3.40 **“Lighting Control Equipment”** means any equipment (including meters, receivers, relays and ripple control receivers) wherever situated within a Region, designed to receive control signals for council or NZTA street lighting or under-verandah lights.
- 3.41 **“Load Control Equipment”** means any equipment (including meters, receivers, relays and ripple control receivers) wherever situated within a region, designed to receive Load Management Service signals. (Equipment designed to receive signals to control street lighting is not considered to be Load Control Equipment and is defined as Lighting Control Equipment).
- 3.42 **“Load Management Service”** means providing a signal for the purpose of reducing or interrupting delivery of load to all or part of a Consumer’s premises within any Region.
- 3.43 **“Low Fixed Price Categories”** means the Low Fixed Charges for Delivery Charges described in paragraphs 26 and 28 and subject to the conditions set out in paragraph 32 of this Pricing Schedule.
- 3.44 **“Low Fixed Tariff Options”** means the Low-Fixed Tariff options for Delivery Charges described in paragraphs 29 and 31 and subject to the conditions set out in paragraph 35 of this Pricing Schedule.
- 3.45 **“Low Voltage” (LV)** means voltage of value up to 1,000 volts, generally 230 or 400 volts for supply to Consumers.
- 3.46 **“Network Agreement”** means the Network Agreement, Network Services Agreement, Network Connection Agreement, Electricity Delivery Agreement, Use of System Agreement, Conveyance and Use of System Agreement or Agreement for Use of Networks and, to avoid doubt, includes any agreement in the form of the Model Use of System Agreement of which this Pricing Schedule forms a part.
- 3.47 **“MVA”** means Megavolt Ampere
- 3.48 **“Optimised Deprival Value” (ODV)** means, in respect of the Distributor’s assets, the value attributed by applying the ODV methodology, as set out in the Handbook for Optimised Deprival Valuation of System Fixed Assets of Electricity Line Businesses published by the Commerce Commission in 2004.
- 3.49 **“Optimised Depreciated Replacement Cost” (ODRC)** is an estimate of the ORC value, less an allowance for depreciation that reflects the age of the asset.
- 3.50 **“On Peak Demand” (OPD)** is the average of Consumer’s demand during the 100 regional peak periods as notified by Transpower. The 100 regional peak periods will

be between 1 September 2017 and 31 August 2018 for the Price Year effective 1 April 2019. The OPD is used in calculating the Delivery Charges of a Consumer on price categories such as V40, T50, V60, T60 in the Eastern region and E100, E300 and SPECIAL price categories in the Western region.

- 3.51 **“Optimised Replacement Cost” (ORC)** is an estimate of the current cost of replacing the asset with one that can provide the required service in the most efficient way. Under this approach, asset values are adjusted if assets exhibit excess capacity, are over-engineered, are poorly designed (compared with modern technology) or are poorly located.
- 3.52 **“Partial Replacement File” (X)** means a Consumption Data file that adds additional ICP consumption records to a previously submitted Initial File and/or replaces specific ICPs records within the EIEP1 or EIEP3 file only.
- 3.53 **“Payment Month”** means the month in which the Retailer must remit money in respect to the Current Month’s charges. For electricity Retailers, the Payment Month is the same month as the Current Month.
- 3.54 **“Point of Connection”** means the point at which electricity may flow between the Network and the Consumer’s Installation and to which an Installation Control Point is allocated.
- 3.55 **“Powerco”** means Powerco Limited and any of its subsidiaries, successors and assignees.
- 3.56 **“Price Category”** means the relevant price category selected by the Distributor from this Pricing Schedule to define the Delivery Charges applicable to a particular ICP.
- 3.57 **“Pricing Policy”** refers to this overall document which contains the pricing schedules 10, 11 and 12.
- 3.58 **“Pricing Schedule”** refers to schedules 10, 11 and 12.
- 3.59 **“Price Year”** means the 12-month period between 1 April and 31 March.
- 3.60 **“Processing Month”** means the month in which the Distributor processes the relevant data files.
- 3.61 **“Reconciliation Manager” (RM)** means the person appointed from time to time as the Reconciliation Manager pursuant to the Code or such other person from time to time to whom metering data in respect of electricity is to be sent pursuant to the Code.
- 3.62 **“Recoverable Costs”** has the meaning defined in the Electricity Distribution Services Input Methodologies Determination 2012, issued pursuant to Part 4 of the Commerce Act 1986.

- 3.63 **“Region”** means the Eastern Region or the Western Region as the case may be.
- 3.64 **“Registry”** means the Electricity Authority central Registry.
- 3.65 **“Replacement Data”** means Full Replacement Files or Partial Replacement Files.
- 3.66 **“Residential Connection” or “Residential Connections”** means a premises which:
Is used or intended for occupation mainly as a place of residence (for example, it is not mainly a business premises);
- (a) Is the principal place of residence of the Consumer who contracts with the Retailer to purchase electricity for their use (this excludes holiday homes and other non-permanent places of residence);
 - (b) Is a domestic premises as defined by Section 5 of the Electricity Industry Act 2010;
 - (c) Is not a building ancillary to a person’s principal place of residence (for example, a shed or garage) that is separately metered; and,
 - (d) Is not exempted from Low-Usage Tariff Option coverage under an exemption granted under the Electricity (Low-Fixed Charge Tariff Option for Domestic Consumers) Regulations 2004.
- 3.67 **“Retailer”** means the supplier of electricity to Consumers with installations connected to the Distribution Network.
- 3.68 **“Tariff Option”** means the price option within a Price Category where such a Price Category provides for Retailer choice amongst two or more options, subject to a particular configuration of metering and Load Control Equipment.
- 3.69 **“Time-Of-Use Metering” (TOU)** (also referred to as HHR metering) means metering that measures the electricity consumed for a particular period (usually half-hourly) and complies with Part 10 of the Code.
- 3.70 **“Trader”**- see Retailer.
- 3.71 **“Transmission Rebates”** means the economic value adjustment and the loss and constraint excesses rebated to the Distributor, in respect of a Distribution Network, by Transpower.
- 3.72 **“Uncontrolled Price Category” or “Uncontrolled Tariff Option”** means a Price Category or Tariff Option allocated to an ICP where the ICP does not meet the criteria set out in paragraph 34.

4.0 ICP Status

- 4.1 The status of an ICP, as recorded on the Registry, is managed by Distributors and Retailers. The ICP lifecycle, billing status and when charges are applicable for each status is detailed below:
- (a) New (999) – Newly created ICP. Delivery Charges do not apply.
 - (b) Ready (000) – Network status is electrically connected, Delivery Charges applicable.
 - (c) Active (002) – Energised. Electricity is flowing, Delivery Charges applicable.
 - (d) Inactive (001)
 - I. 04 – Electrically disconnected vacant property. Fuse or link removed. Electricity cannot flow. Delivery Charges do not apply.
 - II. 05 – Reconciled elsewhere. Delivery Charges do not apply.
 - III. 06 – Electrically disconnected ready for decommissioning. Delivery Charges do not apply.
 - IV. 07 – Electrically disconnected remotely by AMI meter. Delivery charges do not apply.
 - V. 08 – Electrically disconnected at pole fuse. Delivery charges do not apply.
 - VI. 09 - Electrically disconnected due to meter disconnected. Delivery charges do not apply.
 - VII. 10 - Electrically disconnected at meter box fuse. Delivery charges do not apply.
 - VIII. 11 - Electrically disconnected at meter box switch. Delivery charges do not apply.
 - IX. 12 – New connection in Progress. Transitory connection state, fuse pending installation. Delivery Charges do not apply.
 - (e) Decommissioned (003)
 - I. 01 – Set up in error. Delivery Charges no longer apply.
 - II. 02 – Installation dismantled – supply physically dismantled, meets requirements of Powerco permanent disconnection standard. Delivery Charges do not apply.
 - III. 03 – ICP amalgamation. Delivery Charges no longer apply.

5.0 Selection of Price Category

- 5.1 Where different Price Categories exist within the Delivery Charges, the Distributor will be entitled to determine which Price Category will apply to an ICP. In determining which Price Category should apply to an ICP, the Distributor will have regard to the Consumer's Connection, the information provided by the Consumer or their representative before application as to the expected load, the Consumer's demand profile and capacity requirements and any other relevant factors.
- 5.2 If the Retailer reasonably considers that a Price Category has been inappropriately allocated to an ICP, the Retailer will notify the Distributor and the Distributor will advise the Retailer, within 10 working days, as to whether or not it agrees to allocate a different Price Category to that ICP. The Retailer will provide the Distributor with the reasons why it considers the Price Category has been inappropriately allocated

to the ICP, and the Distributor will provide to the Retailer information relevant to its decision.

- 5.3 Where the Distributor reasonably considers that a different Price Category should be allocated to a particular ICP:
 - (a) The Distributor will notify the Retailer accordingly, including the reasons why it considers the Price Category allocated to the ICP should be changed; and
 - (b) Unless the Retailer is able to provide evidence to the Distributor’s reasonable satisfaction within 10 working days of the Distributor’s notice that the current Price Category is appropriate, the Distributor will be entitled to allocate the Price Category that it considers appropriate to that ICP and to commence charging the Retailer for Distribution Services in accordance with that Price Category after a further 40 working days; and
 - (c) The Distributor will provide to the Retailer information relevant to its decision.

6.0 Price Categories: Western and Eastern Region

- 6.1 Paragraphs 8 to 12 set out the Price Categories that apply to both the Western and Eastern regions.
- 6.2 The Retailer has no choice in relation to the applicability of the Price Categories in paragraphs 8 to 12 and each Price Category is applicable to the Retailer.

7.0 Price Categories: Transparent Pass through Distributions

- 7.1 Powerco distributes the net actual amount of Transmission Rebates (loss and constraint excess payments) received by Powerco as follows:
 - (a) Loss Rental Rebates (LRR): Powerco will distribute the actual amount of the losses and constraint rebates received from Transpower (TPNZ) to Customers (direct billed and Retailers) in proportion to their respective kWh volumes, by Region. LRR will be credited to Customers using the Retailer initial billing volumes that correspond with the TPNZ credit note month.
 - (b) LRR will not be subject to revisions if the underlying Retailer initial billing volumes change.

8.0 Price Categories: New Subdivision Charges

- 8.1 Subject to the Electricity (Low Fixed Charge Tariff Option for Domestic Consumers) Regulations 2004, where the Distributor extends the Distribution Network to establish new Connections in a subdivision development, the Distributor may notify charges that will apply specifically to those new Connections and the dates from which such charges are to be effective.

9.0 Miscellaneous Matters

- 9.1 The following miscellaneous charges are payable by the Retailer:

MISCELLANEOUS FEES	CHARGE
<p>A Price Category or Tariff Option Change Fee:</p> <p>Payable by the requesting Retailer when a current Consumer’s Price Category or Tariff Option is changed more than once in any Calendar Year.</p>	

	The Distributor may, at its discretion, waive this fee.	\$30 per Point of Connection (payable for the second and each subsequent instance).
B	<p>Incorrect or Incomplete Consumption Data Fee:</p> <p>Payable where Consumption Data, to be provided by the Retailer to the Distributor, does not comply with the requirements of the Network Agreement. It will be charged on the basis of the actual time spent by a billing analyst or the cost of engaging external consultants/experts to review, correct, validate and reconcile the information.</p> <p>The Distributor may, at its discretion, waive this fee.</p>	\$100 per hour.
C	<p>Late Consumption Data Fee:</p> <p>Payable where the Consumption Data required to be provided by the Retailer to the Distributor is received by the Distributor after the due date for the receipt of that Consumption Data. The charge is based on the Distributor's cost of funds and the cost of using billing analysts to address the delay.</p> <p>The Distributor may, at its discretion, waive this fee.</p>	<p>The reasonable costs incurred by the Distributor (including costs associated with late receipt of payment due to late invoicing) as a result of the late data supply.</p> <p>\$100 per hour for each billing analyst's hour required to address the late supply of data.</p>
D	<p>Ad hoc Report Fee:</p> <p>Payable where a Retailer requests an ad hoc report that is not generally supplied by the Distributor.</p> <p>The Distributor may, at its discretion, waive this fee.</p>	\$100 per hour or such other fee as may be agreed.
E	<p>Non-Network Fault Fee:</p> <p>All non-Electrical Systems fault work, or Retailer or Customer services not listed above, will be charged to the Customer on a time and materials basis at market rates.</p> <p>The Distributor may, at its discretion, waive this fee.</p>	\$150
F	<p>Seasonal and Temporary Disconnection Fee:</p> <p>Charges to consumers are allocated on the basis of a full Price Year and therefore apply for the full Price Year. If an installation is reconnected within 12 months from the date of any disconnection the Distributor may, at its discretion, apply a connection fee equivalent to the fixed charges applicable during the period of disconnection.</p>	A fee equivalent to the fixed charges applicable during the period of disconnection
G	<p>Temporary Safety Disconnections:</p> <p>No fee is applicable for a temporary safety disconnection conducted by the Distributor in accordance with the conditions set out in Powerco standards 170S008.</p>	Free

10.0 Price Category: Adjustment Rebate Distribution

- 10.1 The Distributor is subject to regulation of its prices in the form of the Price Path Threshold under Part 4 of the Commerce Act 1986. This imposes considerable risk to the Distributor if, due to estimation errors, its pricing exceeds the allowable threshold.
- 10.2 The Distributor may distribute a rebate to Customers to ensure compliance with the Customised Price Path. The total dollar amount to be distributed as a rebate will be allocated between Customers in proportion to their respective kWh volumes on the Distribution Network reconciled for the period from 1 April 2019 up to the end of the month prior to the month in which the distribution is calculated.

11.0 Price Category: Distributed/Embedded Generation

- 11.1 Any Distributed/Embedded Generator connected to the Network will be subject to Part 6 of the Electricity Industry Participation Code 2010 and Powerco's Distributed Generation Policy, or a separate Distributed/Embedded Generation Network Connection Agreement between the Distributor, the party wanting to connect the Distributed/Embedded Generator and, if appropriate, the Retailer.

- 11.2 Export volumes for Distributed Generation connections must be submitted as directional volume within the EIEP1 or EIEP3 Consumption files (no “netting off” should apply to the load or generation volumes in these files).
- 11.3 Any person wanting to connect a Distributed/Embedded Generator to the Network must apply to the Distributor for consent to such connection. All applications for the connection of Distributed/Embedded Generators to the Network will be assessed by the Distributor on a case-by-case basis, having regard to Part 6 of the Electricity Industry Participation Code 2010, Powerco’s Distributed Generation Policy and the circumstances that apply in each case.
- 11.4 Powerco’s Distributed Generation Policy is published on Powerco’s website at: www.powerco.co.nz.
- 11.5 Avoided Cost of Transmission (ACOT) – For details on qualification for, and application of, ACOT to a Distributed/Embedded Generation connection, refer to Powerco’s Distributed Generation Policy.
- 11.6 Power Factor – Any Distributed Generation connection with a power factor of less than 0.95 lagging may attract a power factor charge as detailed in paragraphs 23 and 30. For full details, please refer to Powerco’s Distributed Generation Policy.

12.0 Price Category: Embedded Network

- 12.1 Any new Embedded Network connected to the Network will be subject to Powerco’s Network Connection Standard, and a separate agreement between the Distributor and the party wanting to connect the Embedded Network and, if appropriate, the Retailer.
- 12.2 Any person wanting to connect a new Embedded Network to the Network must apply to the Distributor for consent to such connection and comply with Powerco’s Network Connection Standard and Embedded Network Standard. All applications for the connection of an Embedded Network to the Network will be assessed by the Distributor on a case-by-case basis, having regard to the circumstances that apply in each case.
- 12.3 Pricing for new Embedded Networks will be on the basis of asset-based pricing for the Eastern Region, E300 Price Category or asset based pricing (greater than 1500 kVA) for the Western Region, utilising a minimum level of demand appropriate to the Distributor’s estimate of the installed capacity of the Embedded Network and this and other terms will be the subject of the separate agreement referred to above.

13.0 Price Category: Asset-Based Pricing Methodology

- 13.1 This pricing methodology applies to large Powerco Consumers in the Eastern and Western Regions and others that opt for an asset-based price. Powerco groups its large Consumers into the following categories (termed “load groups”):
- T50: Tauranga region, 300 kVA to 1,499kVA installed capacity;
 - T60: Tauranga region, 1,500kVA or higher installed capacity;

- V40: Valley region, 300 kVA to 1,499kVA installed capacity;
- V60: Valley region, 1,500kVA or higher installed capacity; and
- SPECIAL: Western Region 1,500 kVA or higher installed capacity.

Other Consumers to whom asset-based pricing may apply include;

- Generation Connections
- Public Electric Vehicle Charging Stations; and
- Bypass pricing.

13.2 The methodology for setting Delivery Charges under asset-based pricing comprises the following components:

- Measurement of Consumer demand;
- Asset valuation and allocation;
- Return of and on capital;
- Allocation of maintenance costs; and
- Allocation of indirect costs (fixed and variable).

13.3 Asset-based charges to Consumers are allocated on the basis of a full Price Year and therefore apply for the full Price Year.

13.4 Powerco charges Consumers according to their level of demand, which is measured in the following two ways:

- (a) Anytime Maximum Demand (AMD): This is the highest peak occurring any time in the 12 month period from 1 September to 31 August, the result of which is applied in the subsequent pricing year commencing 1 April; and
- (b) On-Peak Demand (OPD): This is measured as the Consumer's average demand during the highest 100 regional peak periods notified by Transpower during the capacity measurement period, which is from 1 September to 31 August. The OPD result is applied to the pricing year commencing 1 April in the subsequent year.

13.5 Powerco's Delivery Charges involve valuing the assets used to supply the service, using either the ORC or ODRC methods.

Whether the ORC or ODRC methodology is adopted depends on the Consumer load group. For load groups T50 and V40 the ODRC methodology is used. For load groups T60 and V60 the ORC methodology is used.

13.6 Powerco's asset-based pricing involves allocating assets into two categories, namely onsite assets and upstream assets, to different Consumers.

- (a) On-site assets are dedicated assets behind the Point of Connection and normally include transformers and switch gear. These assets are allocated fully to the Consumer to whom they relate.
- (b) Upstream assets are the meshed assets of the network. These assets are shared between a number of Consumers and generally may be categorised as: feeder assets; substation assets; subtransmission assets; and Grid Exit Point (GXP) assets. These assets are allocated across the Consumers that they serve.

- 13.7 Powerco's charges are determined so as to allow it to obtain a return on the capital it has invested. In the asset allocation process, an annual rate of return is sought on the asset valuations attributed to each Consumer. The rate of return is equivalent to Powerco's prevailing Weighted Average Cost of Capital (WACC) plus allowances for additional commercial based factors. This WACC is an estimate of Powerco's overall cost of capital, inclusive of equity and debt. For those assets valued using ORC, Powerco uses a 45 year annuity factor to obtain a return of and on the capital it has invested (as measured by ORC). For those assets valued using ODRC, Powerco applies the rate of return to the ODRC values to obtain a return on its capital invested, and uses a straight-line depreciation charge to obtain a return of its capital.
- 13.8 Maintenance costs are allocated to the load group (T50 and V40) on the basis of the load group's ODV relative to the total applicable GXP's ODV. The costs are allocated amongst the Consumers within the load group on the basis of the Consumers' AMD relative to the aggregated AMD of the load group.
- 13.9 Indirect costs are all costs of Powerco's electricity business excluding transmission, maintenance, interest and tax. Indirect costs are allocated to the load group on the basis of the load group's total ODV relative to the total applicable GXP's ODV. Seventy percent of the charges are recovered as a fixed equal charge to each Consumer in the load group. The remaining 30% of the charges are recovered on the basis of the Consumer's OPD (as measured using Transpower's methodology) relative to the aggregated OPD of the load group at each GXP.
- 13.10 Powerco's transmission service charges are based on Transpower's charges, which it determines using its Transmission Pricing Methodology (TPM), which has been approved by the Electricity Authority. The TPM is used to recover the full economic costs of Transpower's services. Transpower charges Powerco at each GXP using the TPM. The TPM includes connection and interconnection charges. Powerco allocates these charges in the following manner:
- (a) Connection charges: Powerco allocates Transpower's connection charges on the basis of the Consumer's demand which in this case is measured by AMD. Where a Consumer is both an off take Consumer and an injection Consumer at a connection location, connection charges for that location are calculated separately for that Consumer as an off take Consumer and an injection Consumer. Powerco also allocates charges from Embedded Generators to its Consumers. This charge may include a connection charge and an ACOT charge. These charges are allocated by Powerco to its Consumers on the same basis as Powerco allocates Transpower's connection and interconnection charges.
 - (b) Interconnection charges: Powerco allocates Transpower's interconnection charges to its Customers based on the Consumer's OPD by Transpower's interconnection rate.
- 13.11 When a Powerco Consumer enters an asset-based load group the following policies apply:
- Powerco will estimate the OPD and AMD for the new or upgraded site. This estimate will be based on an assessment of the plant and machinery located on the site, demand from similar sites across the industry and any estimates of demand provided by the Consumer.

- The estimated demand will apply for the current Price Year (i.e. between the later of 1 April or the connection date for the upgraded assets and 31 March of the subsequent year).
- The estimated demand will assume full demand from the time of the installation of the asset (rather than ramping up over a period of time), unless otherwise agreed between Powerco and the Consumer, or their representative, at the time of Powerco's approval of the request for site connection or alteration.
- The estimated demand will continue to apply in the subsequent year if the upgraded site has not been connected and operational for the full duration of the applicable measurement period, unless otherwise agreed between Powerco and the Consumer or their representative, at the time of Powerco approval of the request for site connection or alteration.
- New prices will be effective from network livening (i.e. Ready status).

13.12 The following Powerco policies apply when a site exits an asset-based load group or revision to charges is requested:

- If a Consumer intends exiting a site, and the Retailer is notified of this intention, the Retailer must notify Powerco as soon as practical so that final charges can be determined and levied in the forthcoming billing run.
- Powerco, at its discretion, may allow a Consumer to exit the load group when the site downgrades its installed capacity. Alternatively, Powerco may require the site to continue to the end of the Price Year in the current load group at the current peaks, for instance if an upgrade to the site has only recently occurred.
- Powerco may leave the Consumer in the same load group and down-grade peak estimates in instances where there is no removal of on-site assets but there will be a reduction in loading on the Network.
- Where there is a bona fide change in Consumer at a premises (i.e. new entity), the Retailer may apply for, and Powerco will at its discretion undertake, a review of the asset-based charges once during the Price Year to reflect the change arising from an alternation in AMD and the expected change in OPD.

14.0 Price Category: Customer Specific Investment – Asset Based 'Building Block' Methodology (BBM)

14.1 This pricing methodology applies to very large (>4MVA) Customers in both Regions. These Customers will have a direct contractual relationship with Powerco for a defined term. BBM asset based pricing will be available primarily to Customers where:

- A step change development and consequently investment is needed but the increase in Customers demand may not be as significant; or
- For new Customer connections requiring significant investment.

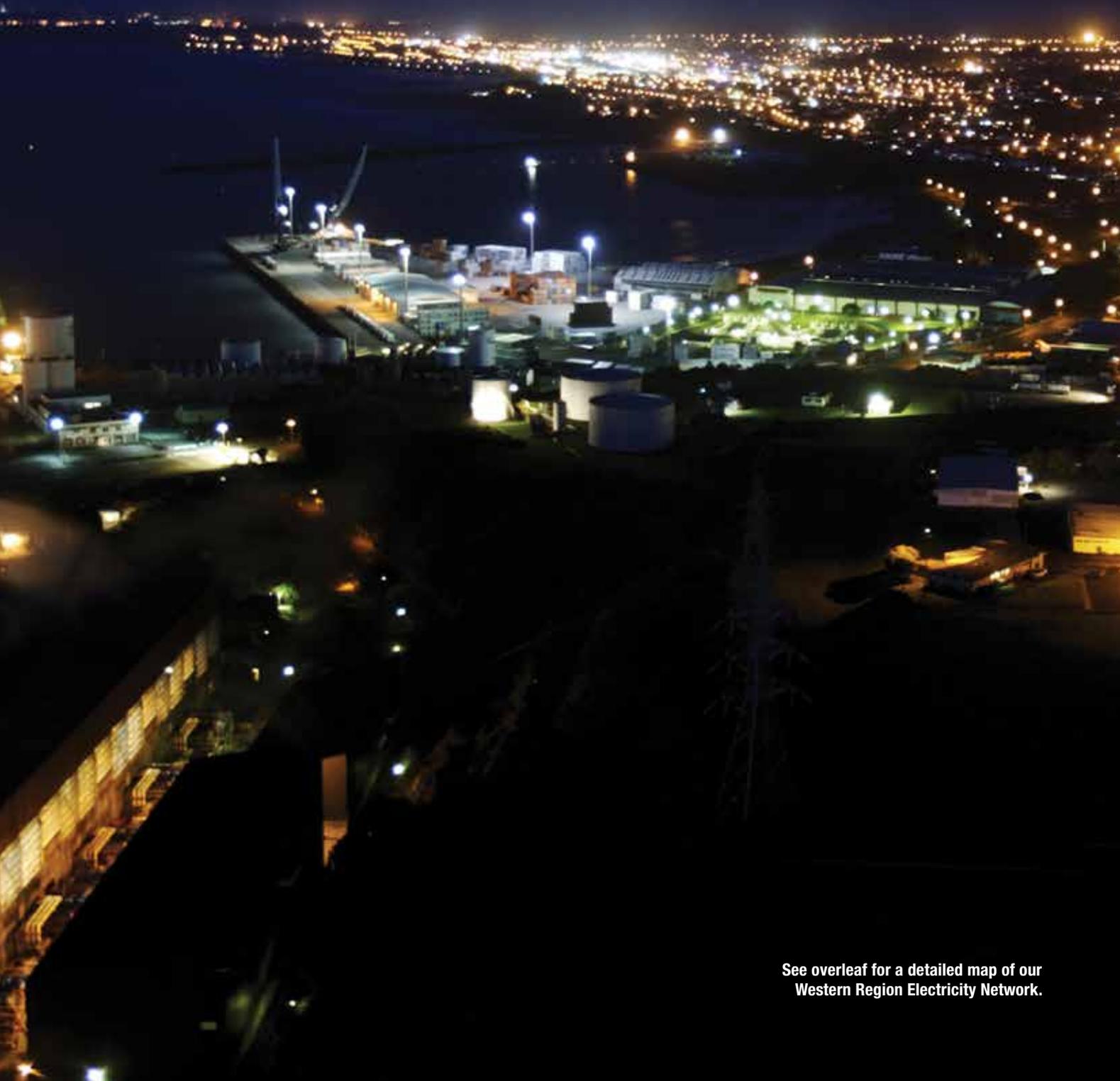
15.0 BBM Asset Based Pricing

15.1 The BBM asset based pricing comprises the following input components:

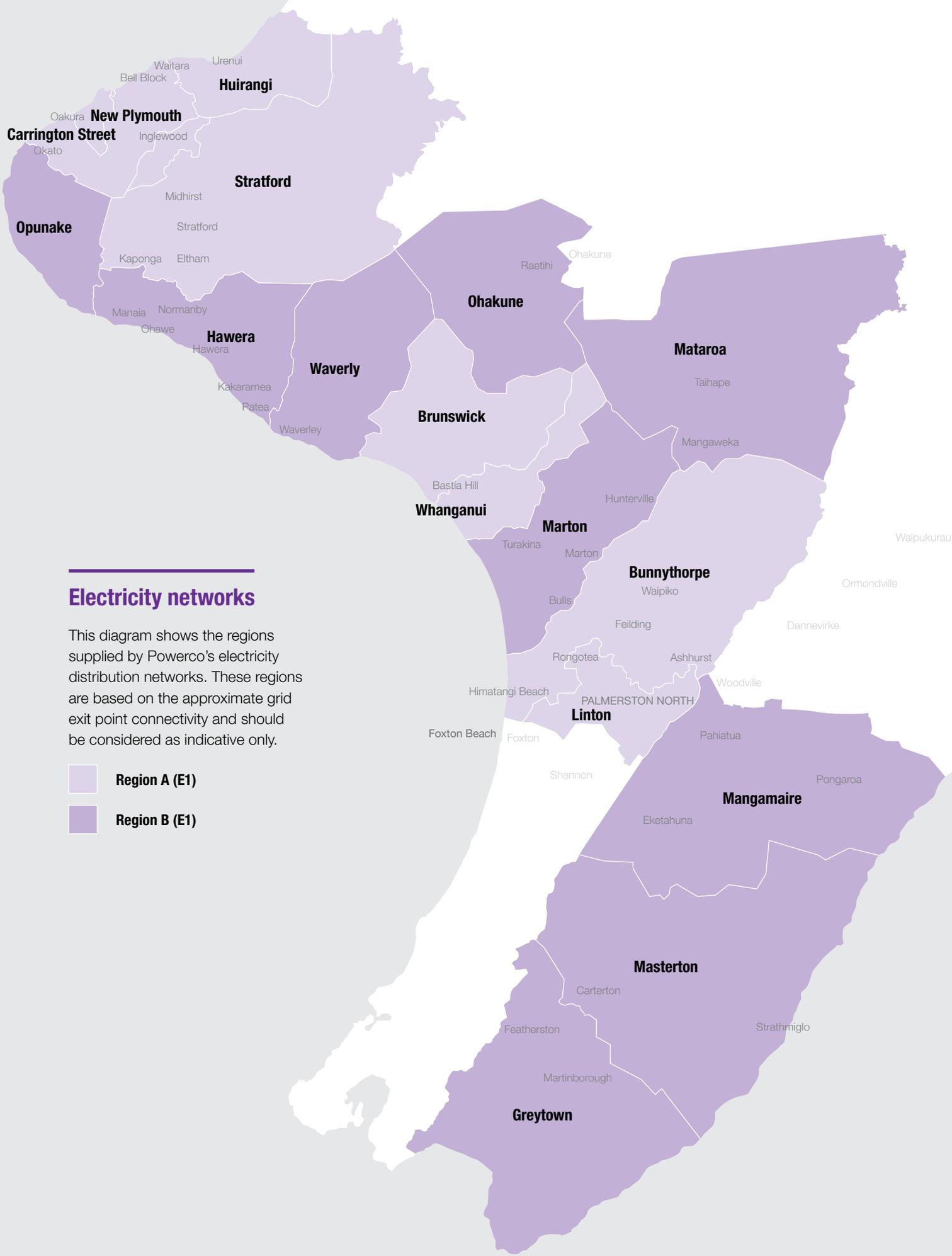
- Return on capital investment, plus accounting depreciation in period or year;

- Sub-transmission cost allocation of direct and indirect costs for sub-transmission asset utilisation in period or year;
- Operating and maintenance costs;
- Tax adjustment; and
- Pass through of Recoverable Costs such as transmission charges.

Western Region



See overleaf for a detailed map of our Western Region Electricity Network.



Electricity networks

This diagram shows the regions supplied by Powerco's electricity distribution networks. These regions are based on the approximate grid exit point connectivity and should be considered as indicative only.

- Region A (E1)**
- Region B (E1)**

Part B: Western Region

16.0 Application

16.1 This Part applies to the Western Region Network only.

17.0 Price Categories: E1CA, E1CB, E1UCA and E1UCB

17.1 Price Categories E1CA and E1CB apply to Connections on any of the Western Region Distribution Networks that are not E300 Connections, E100 Connections or special priced Connections. Price Categories E1CA and E1CB are available for those Connections that meet the criteria for a Controlled Tariff Option set out in paragraph 34.

17.2 Price Categories E1UCA and E1UCB will apply to Connections on any of the Western Region Distribution Networks that are not E1CA, E1CB, E100, E300 SPECIAL priced Connections.

17.3 E1CA, E1CB, E1UCA and E1UCB Price Categories are for the remainder of this paragraph 17, together called the “E1 Price Category”.

17.4 Connections in the E1 Price Category generally have a demand of less than 100 kVA (i.e. domestic households and small businesses) subject to paragraph 18.1(c)

17.5 Calculation of Charges for E1 Price Category

(a) Volume ERP (peak), ERD (day) and ERN (night), and Demand (ERL) Charges

- I. All demand and volume based quantities for the E1 Price Category will be based on reconciliation information provided by the RM for volume reconciliation purposes and will be at the GXP (i.e. installation-metered volumes adjusted by applicable local Distribution Network loss factor and unaccounted for electricity).
- II. The quantities from 17.5 (a)(I) above are used to determine the E1 Price Category volume charges (ERP, ERD, and ERN) and each Retailer's share of the E1 demand charge (ERL charge) at each GXP, by subtracting the SPECIAL, E300, and E100 half-hour loads, adjusted by the applicable Network Distribution loss factors.
- III. Should revisions to quantities as part of the RM revision cycle occur, these will be charged, or rebated, as appropriate per section 5 of schedule 12.
- IV. E1 ERP (peak), ERD (day), and ERN (night) Volume Charges:
For the determination of the kWh volumes, the following periods are used:
 - Peak is defined as Weekdays (Mon-Fri including public holidays) 07:00-11:00 and 17:00-21:00.
 - Day is defined as Weekdays (Mon-Fri including public holidays) from 11:00 hrs to 17:00, and 21:00-23:00, Weekends 07:00-23:00.
 - Night is the eight-hour period from 23:00 hrs to 07:00 hrs daily (Weekdays and Weekends).

(b) E1 Fixed Charge (FDC)

A fixed daily charge will be applied to the number of ICPs a Retailer has for each day during the billing month for each of the E1 Price Categories, as per paragraph 4.1.

(c) Extent of Control E1CA and E1CB Price Category

Under normal supply circumstances, supply can be controlled at any time for a maximum of seven hours per day. Under abnormal supply or operating circumstances (e.g. where there is a shortage or anticipated shortage of electricity), control may be for greater than seven hours per day.

17.6 Unmetered Street-lights

- (a) Refer to Part E

18.0 Price Category: E100

18.1 Price category E100 applies to an E100 Connection, being a Connection on any of the Western Region Distribution Networks with a capacity of greater than 100 kVA and less than or equal to 300 kVA, that has been approved by the Distributor and is subject to the following conditions:

- (a) The Connection must have installed TOU metering and is subject to a minimum chargeable demand of 100 kVA per month, and;
- (b) The E100 Price Category is not available as a Price Category for Residential Connections.
- (c) The Distributor may (at its discretion) allow sites with capacity of greater than 100 kVA and less than or equal to 300 kVA to be placed on the E1 price category.

18.2 Calculation of E100 Charges

- (a) E100 Network Asset Charge (E1A)
 - I. The E1A charges apply to each ICP connected in the E100 price category.
- (b) E100 Demand Charge (E1DIST)
 - I. The chargeable demand for the E100 Distribution Demand Charge (E1DIST) are based on the Anytime Maximum Demand (AMD) of a given connection and will be determined using the individual Connection's kWh half-hour volume data.
 - II. The chargeable AMD for the E1DIST charge will be 100kW or the actual demand, whichever is the higher.
 - III. Where an E100 Connection changes Retailer, the applicable AMD will be transported with the Connection to the new Retailer.
 - IV. For new E100 Connections, where less than 12 months data is available, the chargeable AMD will be estimated by the Distributor based on an assessment of the plant and machinery located on the site, demand from similar sites across the industry and any estimates of demand provided by the Consumer.
- (c) E100 Transmission Demand Charge (E1TRAN)
 - I. The chargeable demand for the E100 Transmission Demand Charge (E1TRAN) are based on the On Peak Demand (OPD) of a given

- connection and will be determined using the individual Connection's kWh half-hour volume data.
- II. Where an E100 Connection changes Retailer, the applicable OPD will be transported with the Connection to the new Retailer.
 - III. The chargeable OPD for the E1TRAN charge will be 30kW or the actual demand, whichever is the higher.
 - IV. For new E100 Connections, where less than 12 months data is available, the chargeable OPD will be estimated by the Distributor based on an assessment of the plant and machinery located on the site, demand from similar sites across the industry and any estimates of demand provided by the Consumer.

19.0 Price Category: E300

19.1 Price Category E300 applies to an E300 Connection, being a Connection on any of the Western Region Distribution Networks with a capacity of greater than 300kVA that has been approved by the Distributor and is subject to the following conditions:

- (a) The Connection must have an installed transformer capacity (nameplate rating) of greater than 300kVA, Time of Use metering and is subject to a minimum chargeable demand of 300kVA per month. All Connections with a dedicated installed distribution transformer with a capacity (nameplate rating) of greater than 300kVA are automatically allocated to the E300 Price Category; and
- (b) The E300 Price Category is not available for Residential Connections.

19.2 Calculating E300 Charges

- (a) E300 Network Asset Charges (E3A)
 - I. The E300 E3A chargeable capacity shall be the greater of 300kVA or the sum of all nameplate kVA ratings of distribution transformers connected to supply the connections, irrespective of ownership of the distribution transformers.
 - II. If the deliverable capacity is restricted to a lower level by an approved item of the Distributor's plant then, at the Distributor's discretion, the E3A installed transformer capacity will be the maximum deliverable capacity in kVA and shall not be less than 300kVA. (Connections subject to such a reduction will be listed as E300R on the Registry).
- (b) E300 Distribution Demand Charge (E3DIST)
 - I. The chargeable demand for the E300 Distribution Demand Charge (E3DIST) are based on the Anytime Maximum Demand (AMD) of a given connection and will be determined using the individual Connection's kWh half-hour volume data.
 - II. The chargeable AMD for the E3DIST charge will be 300kW or the actual demand, whichever is the higher.
 - III. Where an E300 Connection changes Retailer, the applicable AMD will be transported with the Connection to the new Retailer.
 - IV. For new E300 Connections, where less than 12 months' data is available, the chargeable AMD will be estimated by the Distributor based on an assessment of the plant and machinery located on the site, demand from similar sites across the industry and any estimates of demand provided by the Consumer.

- (c) E300 Transmission Demand Charge (E3TRAN)
 - I. The chargeable demand for the E300 Transmission Demand Charge (E3TRAN) are based on the On Peak Demand (OPD) of a given connection and will be determined using the individual Connection's kWh half-hour volume data.
 - II. Where an E300 Connection changes Retailer, the applicable OPD will be transported with the Connection to the new Retailer.
 - III. The chargeable OPD for the E3TRAN charge will be 100kW or the actual demand, whichever is the higher.
 - IV. For new E300 Connections, where less than 12 months' data is available, the chargeable OPD will be estimated by the Distributor based on an assessment of the plant and machinery located on the site, demand from similar sites across the industry and any estimates of demand provided by the Consumer.

20.0 Price Category: SPECIAL (ASSET BASED PRICING)

- 20.1 The price category of SPECIAL applies to large commercial / industrial Consumers in the Western Region and the charges are determined on an individual basis.
- 20.2 The SPECIAL price category typically applies for Consumers with an installed capacity of 1,500 kVA or higher.
- 20.3 The SPECIAL price category may also apply to selected Generation and connections at risk of by-pass.
- 20.4 For further information on asset based pricing please refer to paragraph 13.

21.0 Western Region Charges

Price Categories: E1UCA, E1UCB, E1CA and E1CB – All Residential and General Connections (non-TOU and TOU metered) with installed Capacity of less than 301 kVA.

Price Category Code	Zone	Description	Price Component Code	Delivery Price ¹	Unit Of Measure	Data File Type
E1UCA	A	BRK0331, BPE0331, CST0331, HUI0331, LTN0331, NPL0331, SFD0331, WGN0331				
		Daily Charge	E1UCA~FDC	15.00	c/day	
		Peak Charge ²	E1UCA~ERP	14.87	c/kWh	
		Day (Off-Peak) Charge ³	E1UCA~ERD	7.08	c/kWh	EIEP1
		Night (Off-Peak) Charge ⁴	E1UCA~ERN	7.08	c/kWh	
		Demand Charge ⁵	E1UCA~ERL	0	\$/kW/month	
E1UCB	B	GYT0331, HWA0331, MGM0331, MTN0331, MST0331, MTR0331, OKN0111, OPK0331, WVY0111				
		Daily Charge	E1UCB~FDC	15.00	c/day	
		Peak Charge ²	E1UCB~ERP	16.35	c/kWh	
		Day (Off-Peak) Charge ³	E1UCB~ERD	9.10	c/kWh	EIEP1
		Night (Off-Peak) Charge ⁴	E1UCB~ERN	9.10	c/kWh	
		Demand Charge ⁵	E1UCB~ERL	0	\$/kW/month	
E1CA	A	BRK0331, BPE0331, CST0331, HUI0331, LTN0331, NPL0331, SFD0331, WGN0331				
		Daily Charge	E1CA~FDC	0.00	c/day	
		Peak Charge ²	E1CA~ERP	14.87	c/kWh	
		Day (Off-Peak) Charge ³	E1CA~ERD	7.08	c/kWh	EIEP1
		Night (Off-Peak) Charge ⁴	E1CA~ERN	7.08	c/kWh	
		Demand Charge ⁵	E1CA~ERL	0	\$/kW/month	
E1CB	B	GYT0331, HWA0331, MGM0331, MTN0331, MST0331, MTR0331, OKN0111, OPK0331, (excluding WVY0111)				
		Daily Charge	E1CB~FDC	0.00	c/day	
		Peak Charge ²	E1CB~ERP	16.35	c/kWh	
		Day (Off-Peak) Charge ³	E1CB~ERD	9.10	c/kWh	EIEP1
		Night (Off-Peak) Charge ⁴	E1CB~ERN	9.10	c/kWh	
		Demand Charge ⁵	E1CB~ERL	0	\$/kW/month	

1. Please note these charges are excluding GST.

2. Peak Charge applies to GXP kWh quantities for Weekdays (Mon-Fri including public holidays) from 07:00-11:00 and 17:00-21:00.

3. Day (Off-Peak) Charge applies to GXP kWh quantities for Weekdays (Mon-Fri including public holidays) from 11:00 to 17:00, and 21:00-23:00, Weekends from 07:00 to 23:00.

4. Night (Off-Peak) Charge applies to GXP kWh quantities for Weekdays and Weekends from 23:00 to 07:00.

5. Demand Charge set to zero from 1 April 2019.

Price Category: E100 Applies to Commercial TOU Connections with installed Capacity of 100 - 300kVA.

Price Category Code	Zone	Description	Price Component Code	Delivery Price ¹	Unit Of Measure	Data File Type
E100	ALL	Monthly Charge	E100~E1A	291	\$/ICP/month	EIEP3
		HV Metering Charge ²	E100~CT/VT	8.06	\$/units/day	
		Variable Charge	E100~KWH	0.00	\$/kWh	
		Power Factor Charge ⁴	E100~PFC	7.00	\$/kVAr/month	
		Projected Charge	E100~KWH-PROJ	0.00	\$/kWh	
E100	A	CST0331, HUI0331, NPL0331, SFD0331				
E100	A	Distribution Charge	E100~E1DISTA	0.3287	\$/kW/day	EIEP3
		Transmission Charge ³	E100~E1TRANA	0.4085	\$/kW/day	
E100	B	HWA0331				
E100	B	Distribution Charge	E100~E1DISTB	0.6647	\$/kW/day	EIEP3
		Transmission Charge ³	E100~E1TRANB	0.4220	\$/kW/day	
E100	C	WVY0111				
E100	C	Distribution Charge	E100~E1DISTC	0.5851	\$/kW/day	EIEP3
		Transmission Charge ³	E100~E1TRANC	0.4225	\$/kW/day	
E100	D	OPK0331				
E100	D	Distribution Charge	E100~E1DISTD	0.6000	\$/kW/day	EIEP3
		Transmission Charge ³	E100~E1TRAND	0.4214	\$/kW/day	
E100	E	BRK0331, WGN0331				
E100	E	Distribution Charge	E100~E1DISTE	0.3851	\$/kW/day	EIEP3
		Transmission Charge ³	E100~E1TRANE	0.3435	\$/kW/day	
E100	F	MTN0331				
E100	F	Distribution Charge	E100~E1DISTF	0.4635	\$/kW/day	EIEP3
		Transmission Charge ³	E100~E1TRANF	0.3217	\$/kW/day	
E100	G	MTR0331, OKN0111				
E100	G	Distribution Charge	E100~E1DISTG	0.6317	\$/kW/day	EIEP3
		Transmission Charge ³	E100~E1TRANG	0.4184	\$/kW/day	
E100	H	MST0331, GYT0331				
E100	H	Distribution Charge	E100~E1DISTH	0.5683	\$/kW/day	EIEP3
		Transmission Charge ³	E100~E1TRANH	0.4551	\$/kW/day	
E100	I	BPE0331, LTN0331				
E100	I	Distribution Charge	E100~E1DISTI	0.3478	\$/kW/day	EIEP3
		Transmission Charge ³	E100~E1TRANI	0.3378	\$/kW/day	
E100	J	MGM0331				
E100	J	Distribution Charge	E100~E1DISTJ	0.4152	\$/kW/day	EIEP3
		Transmission Charge ³	E100~E1TRANJ	0.4549	\$/kW/day	

1. Please note these charges are excluding GST.
 2. HV metering charges (also known as CT/VT charges) only apply to consumers with HV metering (as denoted on the registry).
 3. Transmission Prices include Transmission charges and other recoverable costs such as council rates and industry levies.
 4. Applies to all connections – see paragraph 23.

Price Category: E300/E300R (applies to Commercial TOU Connections with installed Capacity of greater than 300kVA).

Price Category Code	Zone	Description	Price Component Code	Delivery Price ¹	Unit Of Measure	Data File Type
E300	ALL	Fixed Capacity Charge	E300~E3A	1.85	\$/kVA/month	EIEP3
		HV Metering Charge ²	E300~CT/VT	8.06	\$/units/day	
		Variable Charge	E300~KWH	0.00	\$/kWh	
		Power Factor Charge ⁴	E300~PFC	7.00	\$/kVAr/month	
		Projected Charge	E300~KWH-PROJ	0.00	\$/kWh	
E300	A	CST0331, HUI0331, NPL0331, SFD0331				
E300	A	Distribution Charge	E300~E3DISTA	0.1420	\$/kW/day	EIEP3
		Transmission Charge ³	E300~E3TRANA	0.4085	\$/kW/day	
E300	B	HWA0331				
E300	B	Distribution Charge	E300~E3DISTB	0.2666	\$/kW/day	EIEP3
		Transmission Charge ³	E300~E3TRANB	0.4220	\$/kW/day	
E300	C	WVY0111				
E300	C	Distribution Charge	E300~E3DISTC	0.5312	\$/kW/day	EIEP3
		Transmission Charge ³	E300~E3TRANC	0.4225	\$/kW/day	
E300	D	OPK0331				
E300	D	Distribution Charge	E300~E3DISTD	0.2999	\$/kW/day	EIEP3
		Transmission Charge ³	E300~E3TRAND	0.4214	\$/kW/day	
E300	E	BRK0331, WGN0331				
E300	E	Distribution Charge	E300~E3DISTE	0.1511	\$/kW/day	EIEP3
		Transmission Charge ³	E300~E3TRANE	0.3435	\$/kW/day	
E300	F	MTN0331				
E300	F	Distribution Charge	E300~E3DISTF	0.2409	\$/kW/day	EIEP3
		Transmission Charge ³	E300~E3TRANF	0.3217	\$/kW/day	
E300	G	MTR0331, OKN0111				
E300	G	Distribution Charge	E300~E3DISTG	0.4049	\$/kW/day	EIEP3
		Transmission Charge ³	E300~E3TRANG	0.4184	\$/kW/day	
E300	H	MST0331, GYT0331				
E300	H	Distribution Charge	E300~E3DISTH	0.3463	\$/kW/day	EIEP3
		Transmission Charge ³	E300~E3TRANH	0.4551	\$/kW/day	
E300	I	BPE0331, LTN0331				
E300	I	Distribution Charge	E300~E3DISTI	0.2376	\$/kW/day	EIEP3
		Transmission Charge ³	E300~E3TRANI	0.3378	\$/kW/day	
E300	J	MGM0331				
E300	J	Distribution Charge	E300~E3DISTJ	0.2518	\$/kW/day	EIEP3
		Transmission Charge ³	E300~E3TRANJ	0.4549	\$/kW/day	

1. Please note these charges are excluding GST.

2. HV metering charges (also known as CT/VT charges) only apply to consumers with HV metering (as denoted on the registry).

3. Transmission Prices include Transmission charges and other recoverable costs such as council rates and industry levies.

4. Applies to all connections – see paragraph 23.

Price Category: SPECIAL / SPECIALN⁴ Applies to Connections on non-standard pricing

Price Category Code	Zone	Description	Price Component Code	Delivery Price ¹	Unit Of Measure	Data File Type
SPECIAL / SPECIALN	ALL	Fixed Distribution Charge	SPECIAL~DIST	POA	\$/day	EIEP3
		Fixed Transmission Charge ³	SPECIAL~TRANS	POA	\$/day	
		Variable Charge	SPECIAL~KWH	0.00	\$/kWh	
		Projected Charge	SPECIAL~KWH-PROJ	0.00	\$/kWh	
		Power Factor Charge ⁴	SPECIAL~PFC	7.00	\$/kVAr/month	
		HV Metering Unit Charge ²	SPECIAL~CT/VT	8.06	\$/units/day	

1. Please note these charges are excluding GST.

2. HV metering charges (also known as CT/VT charges) only apply to consumers with HV metering (as denoted on the registry).

3. Transmission Prices include Transmission charges and other recoverable costs such as council rates and industry levies.

4. Power factor charges do not apply for any ICP on a price category ending in "N".

22.0 Data File Requirements

- 22.1 Powerco requires data files for non-half hourly ICPs to be provided in the latest regulated version of the EIEP1 and EIEP3 protocols for half hourly data.
- 22.2 Powerco requires EIEP1 data files that are "Replacement Normalised" which aligns to the Reconciliation Manager process, to be provided.
- 22.3 Powerco may allow "Incremental Normalised" files upon prior arrangement. Where prior arrangement is in place, a transition plan from "Incremental Normalised" to "Replacement Normalised" will need to be formally agreed.
- 22.4 Powerco uses the tilde (~) as a file separator between the price category and the tariff option for non-half hourly data. Fixed charges and variable consumption should be provided to Powerco via the EIEP1 file as follows:

Price Category Code	Description	Tariff Option	Price Component Code	Registered Content Code / Period of Availability	Availability
E1CA	Daily Charge - Controlled	FDC	E1CA~FDC		
	Uncontrolled	24UC	E1CA~24UC	UN24 D16/N8	24 hours per day
	All Inclusive	AICO	E1CA~AICO	IN17 DIN16/NIN8	17 hours per day
	TOU Peak - Uncontrolled	PEAK	E1CA~PEAK	UN24 D16/N8	24 hours per day
	TOU Off-Peak - Uncontrolled	OFPK	E1CA~OFPK	UN24 D16/N8	24 hours per day
	TOU Peak – All Inclusive	PKIN	E1CA~PKIN	IN17	24 hours per day
	TOU Off-Peak – All Inclusive	OPIN	E1CA~OPIN	IN17	24 hours per day
	Controlled	CTRL	E1CA~CTRL	CN17	17 hours per day
	Night Only	NITE	E1CA~NITE	CN8 NO8	23:00 - 07:00
	Night with Boost ¹	NITE	E1CA~NITE	CN9 NB9	23:00 - 07:00 14:00 -15:00
	Unmetered	UNML	E1CA~UNML		
	Distributed Generation	24DG	E1CA~24DG	EG24	24 hours per day
	E1CB	Daily Charge - Controlled	FDC	E1CB~FDC	
Uncontrolled		24UC	E1CB~24UC	UN24 D16/N8	24 hours per day
All Inclusive		AICO	E1CB~AICO	IN17 DIN16/NIN8	17 hours per day
TOU Peak - Uncontrolled		PEAK	E1CB~PEAK	UN24 D16/N8	24 hours per day
TOU Off-Peak - Uncontrolled		OFPK	E1CB~OFPK	UN24 D16/N8	24 hours per day
TOU Peak – All Inclusive		PKIN	E1CB~PKIN	IN17	24 hours per day

Price Category Code	Description	Tariff Option	Price Component Code	Registered Content Code / Period of Availability	Availability
	TOU Off-Peak – All Inclusive	OPIN	E1CB~OPIN	IN17	24 hours per day
	Controlled	CTRL	E1CB~CTRL	CN17	17 hours per day
	Night Only	NITE	E1CB~NITE	CN8 NO8	23:00 - 07:00
	Night with Boost ¹	NITE	E1CB~NITE	CN9 NB9	23:00 - 07:00 14:00 -15:00
	Unmetered	UNML	E1CB~UNML		
	Distributed Generation	24DG	E1CB~24DG	EG24	24 hours per day
	Daily Charge - Uncontrolled	FDC	E1UCA~FDC		
	Uncontrolled	24UC	E1UCA~24UC	UN24 D16/N8	24 hours per day
	TOU Peak - Uncontrolled	PEAK	E1UCA~PEAK	UN24 D16/N8	24 hours per day
	TOU Off-Peak - Uncontrolled	OFPK	E1UCA~OFPK	UN24 D16/N8	24 hours per day
E1UCA	Night Only	NITE	E1UCA~NITE	CN8 NO8	23:00 - 07:00
	Night with Boost ¹	NITE	E1UCA~NITE	CN9 NB9	23:00 - 07:00 14:00 -15:00
	Unmetered	UNML	E1UCA~UNML		
	Distributed Generation	24DG	E1UCA~24DG	EG24	24 hours per day
	Daily Charge - Uncontrolled	FDC	E1UCB~FDC		
	Uncontrolled	24UC	E1UCB~24UC	UN24 D16/N8	24 hours per day
	TOU Peak - Uncontrolled	PEAK	E1UCB~PEAK	UN24 D16/N8	24 hours per day
	TOU Off-Peak - Uncontrolled	OFPK	E1UCB~OFPK	UN24 D16/N8	24 hours per day
E1UCB	Night Only	NITE	E1UCB~NITE	CN8 NO8	23:00 - 07:00
	Night with Boost ¹	NITE	E1UCB~NITE	CN9 NB9	23:00 - 07:00 14:00 -15:00
	Unmetered	UNML	E1UCB~UNML		
	Distributed Generation	24DG	E1UCB~24DG	EG24	24 hours per day

1. Boost not available in all areas, closed to new connections and meter replacements – Refer to table 38.

Note: AICO is now closed to new connections and existing connections with a meter replacement as per paragraph 36.

23.0 Power Factor Charges

- 23.1 If a Consumer's power factor at a Connection is less than 0.95 lagging, the Distributor may charge the power factor charge set out in the tables in paragraph 21.
- 23.2 The kVAr chargeable quantity is the largest monthly difference between the kVAr amount recorded in any one half-hour period, and one third of the kW demand recorded in the same half-hour period. The charge is applicable only during weekdays, between 7am and 8pm (trading periods 15 to 40 inclusive).
- 23.3 The power factor charge will be applicable only for Consumers with TOU metering. For the Western Region, this will be price categories E100, E300(R) and SPECIAL.
- 23.4 The Distributor, at its discretion, may elect not to levy power factor charges on a particular ICP. This election will be disclosed on Registry by appending the letter "N" to the price category recorded against an ICP. For instance, an ICP with the price category SPECIAL will be recorded as "SPECIALN" where no power factor charges are being levied.

Eastern Region



See overleaf for a detailed map of our Eastern Region Electricity Network.

Part C: Eastern Region

24.0 Application

24.1 This part applies to the Eastern Region Network only.

25.0 Price Categories: Valley Distribution Network

25.1 The Valley Distribution Network Price Categories and Tariff Options described below are subject to the conditions set out in paragraphs 25, 29 to 33 and elsewhere in this document.

25.2 The V05C and V06C Price Categories are Controlled Price Categories and the Tariff Options within those Controlled Price Categories are Controlled Tariff Options.

25.3 A Retailer supplying a Consumer may change that Consumer from a Price Category or a Tariff Option to another Price Category or Tariff Option only once in any period of 12 consecutive months. For example, a residential Consumer changing to a Low Fixed Charge Price Category from a General Price Category and changing back to a General Price Category within a 12 month period would incur a price category change fee as set out in paragraph 9.1(A).

25.4 Valley Distribution Network Time Zone Definitions:

Valley Distribution Network	
Day	0700 – 2300
Night	2300 – 0700
TOU Peak Period	Weekdays (Monday-Friday including public holidays) 07:00 – 11:00 am (periods 15 to 22) and 5:00 – 9:00 pm (periods 35 to 42).
TOU Off-Peak Period	Weekdays (Monday-Friday including public holidays) 11:00 am – 5:00 pm (periods 23 to 34) and 9:00 pm – 7:00 am (periods 43 to 14). Weekends (Saturday & Sunday) all day and night.

26.0 Valley Price Schedule

Price Category Code	Description	Price Component Code	Register Content Code/ Period of Availability	Availability	Delivery Price ¹	Unit Of Measure	Data File Type
V01	Unmetered Load ²						
	Daily Charge	V01			0.00	c/day	
	Variable Charge	V01~UNML			12.18	c/kWh	EIEP1
	Projected Charge	V01~UNML-PROJ			12.18	c/kWh	
V02	Unmetered Streetlights (NZTA / Council only)						
	Daily Charge	V02			17.07	c/light/day	
	Variable Charge	V02~UNML			0.00	c/kWh	EIEP1
V05	Residential Low Fixed Charges³						
	Daily Charge	V05			15.00	c/day	
	Uncontrolled	V05~24UC	UN24 D16/N8	24 hours per day	12.05	c/kWh	
	All Inclusive ⁶	V05~AICO	IN17 DIN16/NIN8	17 hours per day	11.10	c/kWh	
	Controlled	V05~CTRL	CN17	17 hours per day	8.60	c/kWh	EIEP1
	Night Only	V05~NITE	CN8 NO8	23:00-07:00	5.19	c/kWh	
	Unmetered	V05~UNML			12.18	c/kWh	
	Distributed Generation	V05~24DG	EG24	24 hours per day	0.00	c/kWh	
	Projected Charge	V05~24UC-PROJ			12.05	c/kWh	
V05S	Residential Low Fixed Charges –TOU						
	Daily Charge	V05S			15.00	c/day	
	TOU Peak ⁷ - Uncontrolled	V05S~PEAK	UN24 / 7304 PK8 / 7304	24 hours per day	19.98	c/kWh	
	TOU Off-Peak ⁷ - Uncontrolled	V05S~OFFPK	UN24 / 7304 OP16 / 7304	24 hours per day	8.81	c/kWh	
	TOU Peak ⁷ - All Inclusive	V05S~PKIN	IN17 / 7304 PK8 / 7304	24 hours per day	18.20	c/kWh	EIEP1
	TOU Off-Peak ⁷ – All Inclusive	V05S~OPIN	IN17 / 7304 OP16 / 7304	24 hours per day	8.20	c/kWh	
	Controlled	V05S~CTRL	CN17	17 hours per day	8.60	c/kWh	
	Night Only	V05S~NITE	CN8 NO8	23:00-07:00	5.19	c/kWh	
	Distributed Generation	V05S~24DG	EG24	24 hours per day	0.00	c/kWh	
	Conditional Charge–Uncontrolled ⁸	V05S~24UC	UN24 D16/N8	24 hours per day	12.05	c/kWh	
	Conditional Charge–All Inclusive ⁸	V05S~AICO	IN17 DIN16/NIN8	17 hours per day	11.10	c/kWh	
	Projected Charge	V05S~24UC-PROJ			12.05	c/kWh	
V06	General (1 & 2 Phase 60 amps and up to and including 3 Phase 60 amps)						
	Daily Charge	V06			85.00	c/day	
	Uncontrolled	V06~24UC	UN24 D16/N8	24 hours per day	8.86	c/kWh	
	All Inclusive ⁶	V06~AICO	IN17 DIN16/NIN8	17 hours per day	7.91	c/kWh	EIEP1
	Controlled	V06~CTRL	CN17	17 hours per day	5.41	c/kWh	
	Night Only	V06~NITE	CN8 NO8	23:00-07:00	2.00	c/kWh	

Price Category Code	Description	Price Component Code	Register Content Code/ Period of Availability	Availability	Delivery Price ¹	Unit Of Measure	Data File Type
	Unmetered	V06~UNML			12.18	c/kWh	
	Distributed Generation	V06~24DG	EG24	24 hours per day	0.00	c/kWh	
	Projected Charge	V06~24UC-PROJ			8.86	c/kWh	
V06S	General - TOU (1 & 2 Phase 60 amps and up to and including 3 Phase 60 amps)						
	Daily Charge	V06S			85.00	c/day	
	TOU Peak ⁷ – Uncontrolled	V06S~PEAK	UN24 / 7304 PK8 / 7304	24 hours per day	16.79	c/kWh	
	TOU Off-Peak ⁷ - Uncontrolled	V06S~OFPK	UN24 / 7304 OP16 / 7304	24 hours per day	5.62	c/kWh	
	TOU Peak ⁷ - All Inclusive	V06S~PKIN	IN17 / 7304 PK8 / 7304	24 hours per day	15.01	c/kWh	
	TOU Off-Peak ⁷ – All Inclusive	V06S~OPIN	IN17 / 7304 OP16 / 7304	24 hours per day	5.01	c/kWh	EIEP1
	Controlled	V06S~CTRL	CN17	17 hours per day	5.41	c/kWh	
	Night Only	V06S~NITE	CN8 NO8	23:00-07:00	2.00	c/kWh	
	Distributed Generation	V06S~24DG	EG24	24 hours per day	0.00	c/kWh	
	Conditional Charge-Uncontrolled ⁸	V06S~24UC	UN24 D16/N8	24 hours per day	8.86	c/kWh	
	Conditional Charge–All Inclusive ⁸	V06S~AICO	IN17 DIN16/NIN8	17 hours per day	7.91	c/kWh	
	Projected Charge	V06S~24UC-PROJ			8.86	c/kWh	
V24	Commercial (Greater than 3 Phase 60amps to 3 phase 250 amps)						
	Daily Charge	V24			9.91	\$/day	
	Uncontrolled	V24~24UC	UN24 D16/N8	24 hours per day	6.69	c/kWh	EIEP1
	Distributed Generation	V24~24DG	EG24	24 hours per day	0.00	c/kWh	
	Projected Charge	V24~24UC-PROJ			6.69	c/kWh	
V28N⁴	Commercial (200 - 299 kVA)						
	Daily Charge	V28N			34.11	\$/day	
NHH Metering Only	Uncontrolled	V28N~24UC	UN24 D16/N8	24 hours per day	6.65	c/kWh	
	Controlled	V28N~CTRL	CN17	17 hours per day	4.94	c/kWh	EIEP1
	Distributed Generation	V28N~24DG	EG24	24 hours per day	0.00	c/kWh	
	Projected Charge	V28N~24UC-PROJ			6.65	c/kWh	
V28	Commercial (200 - 299 kVA)						
TOU Metering Only	Daily Charge	V28			34.11	\$/day	
	Uncontrolled	V28~24UC		24 hours per day	6.65	c/kWh	EIEP3
	Power Factor Charge ⁴	V28~PFC			7.00	\$/kVAr/mth	
	Projected Charge	V28~24UC-PROJ			6.65	c/kWh	
V40 / V40N⁴	Large Commercial (300 – 1,499 kVA)						

Price Category Code	Description	Price Component Code	Register Content Code/ Period of Availability	Availability	Delivery Price ¹	Unit Of Measure	Data File Type
	Distribution Charge	V40~DIST			POA	\$/day	
	Transmission Charge ⁵	V40~TRANS			POA	\$/day	EIEP3
	Variable Charge	V40~KWH			0	\$/kWh	
	Power Factor Charge ⁴	V40~PFC			7	\$/kVAr/mth	
V60 / V60N⁴	Large Commercial (≥ 1,500 kVA)						
	Distribution Charge	V60~DIST			POA	\$/day	
	Transmission Charge ⁵	V60~TRANS			POA	\$/day	EIEP3
	Variable Charge	V60~KWH			0	\$/kWh	
	Power Factor Charge ⁴	V60~PFC			7	\$/kVAr/mth	

1. Please note these charges are excluding GST.
2. Please refer to the Eastern unmetered supply schedule for additional information for unmetered ICP charges.
3. These price categories and associated tariff options are only available to Residential Connections.
4. Power factor charges do not apply for any ICP on a price category ending in "N".
5. Transmission Prices include Transmission charges and other recoverable costs such as council rates and industry levies.
6. AICO is now closed as per paragraph 36.
7. TOU Peak and Off-Peak times defined in paragraph 25.4.
8. Conditional tariff options are only available for retailers who have been granted an exemption to TOU charges.

27.0 Price Categories: Tauranga Distribution Network

- 27.1 The Tauranga Distribution Network Price Categories and Tariff Options described below are subject to the conditions set out in paragraphs 27 to 33 and elsewhere in this document.
- 27.2 The T05C and T06C Price Categories are Controlled Price Categories and the Tariff Options within those Controlled Price Categories are Controlled Tariff Options.
- 27.3 A Retailer supplying a Consumer may change that Consumer from a Price Category or a Tariff Option to another Price Category or Tariff Option only once in any period of 12 consecutive months. For example, a residential Consumer changing to a Low Fixed Charge Price Category from a General Price Category and changing back to a General Price Category within a 12 month period would incur a price category change fee as set out in paragraph 9.1(A).
- 27.4 Tauranga Distribution Network Time Zone Definitions:

Tauranga Distribution Network	
Winter	1 May – 30 September
Summer	1 October – 30 April
Day	0700 – 2300
Night	2300 – 0700
TOU Peak Period	Weekdays (Monday-Friday including public holidays) 07:00 – 11:00 am (periods 15 to 22) & 5:00 – 9:00 pm (periods 35 to 42).
TOU Off-Peak Period	Weekdays (Monday-Friday including public holidays) 11:00 am – 5:00 pm (periods 23 to 34) & 9:00 pm – 7:00 am (periods 43 to 14). Weekends (Saturday & Sunday) all day and night.

28.0 Tauranga Price Schedule

Price Category Code	Description	Price Component Code	Register Content Code	Availability	Delivery Price ¹	Unit Of Measure	Data File Type
T01	Unmetered Load²						
	Daily Charge	T01			0.00	c/day	
	Variable Charge	T01~UNML			11.44	c/kWh	EIEP1
	Projected Charge	T01~UNML-PROJ			11.44	c/kWh	
T02	Unmetered Streetlights (NZTA / Council only)						
	Daily Charge	T02			17.06	c/light/day	
	Variable Charge	T02~UNML			0.00	c/kWh	EIEP1
T05	Residential Low Fixed Charges³						
	Daily Charge	T05			15.00	c/day	
	Uncontrolled	T05~24UC	UN24 D16/N8	24 hours per day	11.21	c/kWh	
	All Inclusive	T05~AICO	IN17 DIN16/NIN8	17 hours per day	10.46	c/kWh	
	Controlled	T05~CTRL	CN17	17 hours per day	7.67	c/kWh	
	Night Only	T05~NITE	CN8 / NO8	23:00-07:00	5.16	c/kWh	EIEP1
	Night with Boost	T05~NITE	CN9 /NB9	23:00-07:00 14:00 -15:00	5.16	c/kWh	
	Unmetered	T05~UNML			11.44	c/kWh	
	Distributed Generation	T05~24DG	EG24	24 hours per day	0.00		
	Projected Charge	T05~24UC-PROJ			11.21	c/kWh	
T05S	Residential Low Fixed Charges -TOU						
	Daily Charge	T05S			15.00	c/day	
	TOU Peak ⁷ - Uncontrolled	T05S~PEAK	UN24 / 7304 PK8 / 7304	24 hours per day	19.56	c/kWh	
	TOU Off-Peak ⁷ - Uncontrolled	T05S~OFFPK	UN24 / 7304 OP16 / 7304	24 hours per day	7.80	c/kWh	
	TOU Peak ⁷ - All Inclusive	T05S~PKIN	IN17 / 7304 PK8 / 7304	24 hours per day	17.36	c/kWh	
	TOU Off-Peak ⁷ – All Inclusive	T05S~OPIN	IN17 / 7304 OP16 / 7304	24 hours per day	7.64	c/kWh	
	Controlled	T05S~CTRL	CN17	17 hours per day	7.67	c/kWh	EIEP1
	Night Only	T05S~NITE	CN8 /NO8	23:00 - 07:00	5.16	c/kWh	
	Night with Boost	T05S~NITE	CN9 /NB9	23:00 - 07:00 14:00 -15:00	5.16	c/kWh	
	Distributed Generation	T05S~24DG	EG24	24 hours per day	0.00	c/kWh	
	Conditional Charge - Uncontrolled ⁸	T05S~24UC	UN24, D16/N8	24 hours per day	11.21	c/kWh	
	Conditional Charge – All Inclusive ⁸	T05S~AICO	IN17, DIN16/NIN8	17 hours per day	10.46	c/kWh	
	Projected Charge	T05S~24UC-PROJ			11.21	c/kWh	
T06	General (1 & 2 Phase 60 amps and up to and including 3 Phase 60 amps)						
	Daily Charge	T06			85.00	c/day	
	Uncontrolled	T06~24UC	UN24 D16/ N8	24 hours per day	8.02	c/kWh	
	All Inclusive ⁶	T06~AICO	IN17 DIN16/NIN8	17 hours per day	7.27	c/kWh	
	Controlled	T06~CTRL	CN17	17 hours per day	4.48	c/kWh	EIEP1
	Night Only	T06~NITE	CN8 /NO8	23:00 - 07:00	1.97	c/kWh	
	Night with Boost	T06~NITE	CN9 /NB9	23:00 - 07:00 14:00 -15:00	1.97	c/kWh	
	Unmetered	T06~UNML			11.44	c/kWh	

Price Category Code	Description	Price Component Code	Register Content Code	Availability	Delivery Price ¹	Unit Of Measure	Data File Type
	Distributed Generation	T06~24DG	EG24	24 hours per day	0.00	c/kWh	
	Projected Charge	T06~24UC-PROJ			8.02	c/kWh	
T06S	General - TOU (1 & 2 Phase 60 amps and up to and including 3 Phase 60 amps)						
	Daily Charge	T06S			85.00	c/day	
	TOU Peak ⁷ – Uncontrolled	T06S~PEAK	UN24 / 7304 PK8 / 7304	24 hours per day	16.37	c/kWh	
	TOU Off-Peak ⁷ - Uncontrolled	T06S~OFFPK	UN24 / 7304 OP16 / 7304	24 hours per day	4.61	c/kWh	
	TOU Peak ⁷ - All Inclusive	T06S~PKIN	IN17 / 7304 PK8 / 7304	24 hours per day	14.17	c/kWh	
	TOU Off-Peak ⁷ – All Inclusive	T06S~OPIN	IN17 / 7304 OP16 / 7304	24 hours per day	4.45	c/kWh	
	Controlled	T06S~CTRL	CN17	17 hours per day	4.48	c/kWh	EIEP1
	Night Only	T06S~NITE	CN8 /NO8	23:00-07:00	1.97	c/kWh	
	Night with Boost	T06S~NITE	CN9 /NB9	23:00-07:00 14:00 -15:00	1.97	c/kWh	
	Distributed Generation	T06S~24DG	EG24	24 hours per day	0.00	c/kWh	
	Conditional Charge - Uncontrolled ⁸	T06S~24UC	UN24 D16/N8	24 hours per day	8.02	c/kWh	
	Conditional Charge – All Inclusive ⁸	T06S~AICO	IN17 DIN16/NIN8	17 hours per day	7.27	c/kWh	
	Projected Charge	T06S~24UC-PROJ			8.02	c/kWh	
T22	Commercial (Greater than 3 Phase 60amps to 3 phase 250 amps)						
	Daily Charge	T22			9.99	\$/day	
	Uncontrolled	T22~24UC	UN24 D16/N8	24 hours per day	7.15	c/kWh	
	Controlled	T22~CTRL	CN17	17 hours per day	3.30	c/kWh	EIEP1
	Night Only	T22~NITE	CN8 /NO8	23:00 - 07:00	2.33	c/kWh	
	Night with Boost	T22~NITE	CN9 /NB9	23:00 - 07:00 14:00 -15:00	2.33	c/kWh	
	Distributed Generation	T22~24DG	EG24	24 hours per day	0.00	c/kWh	
T24N⁴	Commercial (200 - 299 kVA)						
	Daily Charge	T24N			32.97	\$/day	
NHH Metering Only	Uncontrolled	T24N~24UC	UN24 D16/N8	24 hours per day	6.61	c/kWh	
	Controlled	T24N~CTRL	CN17	17 hours per day	3.04	c/kWh	EIEP1
	Distributed Generation	T24N~24DG	EG24	24 hours per day	0.00	c/kWh	
	Projected Charge	T24N~24UC-PROJ			6.61	c/kWh	
	T24	Commercial (200 - 299 kVA)					
TOU Metering Only	Daily Charge	T24			32.97	\$/day	
	Uncontrolled	T24~24UC			6.61	c/kWh	EIEP3
	Power Factor Charge ⁴	T24~PFC			7.00	\$/kVAr/mth	
	Projected Charge	T24~24UC-PROJ			6.61	c/kWh	
T41 / T41N⁴	Commercial (200 - 299 kVA)						
TOU Metering Required	Daily Charge	T41			20.19	\$/day	EIEP3
	Summer Day	T41~TS/1		07:00-23:00	3.76	c/kWh	

Price Category Code	Description	Price Component Code	Register Content Code	Availability	Delivery Price ¹	Unit Of Measure	Data File Type
	Summer Night	T41~TS/2		23:00-07:00	0.98	c/kWh	
	Winter Day	T41~TW/1		07:00-08:00	4.77	c/kWh	
	Winter Morning Peak	T41~TW/2		08:00-11:00	10.03	c/kWh	
	Winter Day	T41~TW/3		11:00-17:00	4.77	c/kWh	
	Winter Evening Peak	T41~TW/4		17:00-20:00	17.44	c/kWh	
	Winter Day	T41~TW/5		20:00-23:00	4.77	c/kWh	
	Winter Night	T41~TW/6		23:00-07:00	0.98	c/kWh	
	Power Factor Charge ⁴	T41~PFC			7.00	\$/kVAr/mth	
T50 / T50N⁴	Large Commercial (300 – 1,499 kVA)						
	Distribution Charge	T50~DIST			POA	\$/day	
	Transmission Charge ⁵	T50~TRANS			POA	\$/day	EIEP3
	Variable Charge	T50~KWH			0	\$/kWh	
	Power Factor Charge ⁴	T50~PFC			7	\$/kVAr/mth	
T60 / T60N⁴	Large Commercial (≥ 1,500 kVA)						
	Distribution Charge	T60~DIST			POA	\$/day	
	Transmission Charge ⁵	T60~TRANS			POA	\$/day	EIEP3
	Variable Charge	T60~KWH			0	\$/kWh	
	Power Factor Charge ⁴	T60~PFC			7	\$/kVAr/mth	

1. Please note these charges are excluding GST.

2. Please refer to the Eastern unmetered supply schedule for additional information for unmetered ICP charges.

3. These price categories and associated tariff options are only available to Residential Connections.

4. Power factor charges do not apply for any ICP on a price category ending in "N".

5. Transmission Prices include Transmission charges and other recoverable costs such as council rates and industry levies.

6. AICO is now closed as per paragraph 36.

7. TOU Peak and Off-Peak times defined in paragraph 27.4.

8. Conditional tariff options are only available for retailers who have been granted an exemption to TOU charges.

29.0 Data File Requirements

- 29.1 Powerco requires data files for non-half hourly ICPs to be provided in the latest regulated version of the EIEP1 and EIEP3 protocols for half hourly data.
- 29.2 Powerco requires EIEP1 data files that are "Replacement Normalised" which aligns to the Reconciliation Manager process, to be provided.
- 29.3 Powerco may allow "Incremental Normalised" files upon prior arrangement. Where prior arrangement is in place, a transition plan from "Incremental Normalised" to "Replacement Normalised" will need to be formally agreed.
- 29.4 Powerco uses the tilde (~) as a file separator between the price category and the tariff option for non-half hourly data. Variable consumption should be provided to Powerco as follows:

Price Category	Tariff Option	EIEP1 Data file should contain	Data file Type required
V05	NITE	V05~NITE	EIEP1
	24UC	V05~24UC	
	CTRL	V05~CTRL	
	AICO	V05~AICO	
	UNML	V05~UNML	
	24DG	V05~24DG	
V05S	PEAK	V05S~PEAK	EIEP1
	OFFPK	V05S~OFFPK	
	PKIN	V05S~PKIN	
	OPIN	V05S~OPIN	
	CTRL	V05S~CTRL	
	NITE	V05S~NITE	
	24DG	V05S~24DG	
V06	NITE	V06~NITE	EIEP1
	24UC	V06~24UC	
	CTRL	V06~CTRL	
	AICO	V06~AICO	
	UNML	V06~UNML	
	24DG	V06~24DG	
V06S	PEAK	V06S~PEAK	EIEP1
	OFFPK	V06S~OFFPK	
	PKIN	V06S~PKIN	
	OPIN	V06S~OPIN	
	CTRL	V06S~CTRL	
	NITE	V06S~NITE	
	24DG	V06S~24DG	
V24	24UC	V24~24UC	EIEP1
	24DG	V24~24DG	
V28N	24UC	V28~24UC	EIEP1 (NHH only)
	CTRL	V28~CTRL	
	24DG	V28~24DG	
T05	NITE	T05C~NITE	EIEP1
	24UC	T05C~24UC	
	CTRL	T05C~CTRL	
	AICO	T05C~AICO	
	UNML	T05C~UNML	
	24DG	T05C~24DG	
T05S	PEAK	T05S~PEAK	EIEP1
	OFFPK	T05S~OFFPK	
	PKIN	T05S~PKIN	
	OPIN	T05S~OPIN	
	CTRL	T05S~CTRL	
	NITE	T05S~NITE	
	24DG	T05S~24DG	
T06	NITE	T06~NITE	EIEP1
	24UC	T06~24UC	
	CTRL	T06~CTRL	
	AICO	T06~AICO	
	UNML	T06~UNML	

	24DG	T06~24DG	
T06S	PEAK	T06S~PEAK	EIEP1
	OFFPK	T06S~OFFPK	
	PKIN	T06S~PKIN	
	OPIN	T06S~OPIN	
	CTRL	T06S~CTRL	
	NITE	T06S~NITE	
	24DG	T06S~24DG	
T22	24UC	T22~24UC	EIEP1
	CTRL	T22~CTRL	
	NITE	T22~NITE	
	24DG	T22~24DG	
T24N	24UC	T24~24UC	EIEP1 (NHH only)
	CTRL	T24~CTRL	
	24DG	T24~24DG	

30.0 Price Category: Power Factor Charges

- 30.1 If a Consumer's power factor at a Connection is less than 0.95 lagging, the Distributor may charge a power factor charge of \$7.00kVAr/month in respect of the Consumer.
- 30.2 The kVAr chargeable quantity represents the largest monthly difference between the kVAr amount recorded in any one half-hour period, and one third of the kW demand recorded in the same half-hour period. The charge is applicable only during weekdays, between 7 am and 8 pm (trading periods 15 to 40 inclusive).
- 30.3 The power factor charge will apply only to Consumers with TOU metering. For the Eastern Region this will be price categories V28, V40, V60, T24, T41, T43, T50 and T60(1)
- 30.4 The Distributor, subject to paragraph 30.1 and 30.5, will apply power factor charges for all Consumers with TOU metering in the price categories V28, V40, V60, T24, T41, T43, T50 and T60(1).
- 30.5 The Distributor, at its discretion, may elect not to levy power factor charges on a particular ICP. This election will be disclosed on Registry by appending the letter "N" to the price category recorded against an ICP. For instance an ICP with the price category of T43 will be recorded as "T43N" where no power factor charges are being levied.

31.0 Conditions: Builder's Temporary Supply

- 31.1 In the Eastern region, builder's supply Connections must only be the Price Categories "T06" or "V06". Powerco will not accept these Connections on the Price Categories "T05" or "V05" as these Connections are not considered a Residential Connection.
- 31.2 Powerco will not accept temporary builder's supplies Connections as unmetered Connections.
- 31.3 Powerco requires an ICP for each and every temporary connection. Therefore sites with multiple temporary supplies require separate ICPs to be established for each point of connection.
- 31.4 Builder's Temporary Supplies are available for a period of up to six months.

32.0 Conditions: Low-Usage Price Categories and Tariff Options

- 32.1 The Low-Usage Price Categories for the Eastern Region (T05C, T05U, V05C and V05U) are available to the Retailer only:
 - (a) For Residential Connections that are supplied electricity;
 - (b) In conjunction with the Retailer's Consumer Low-Usage Tariff Option that complies with the requirements of the Electricity (Low Fixed Tariff Option for Domestic Consumers) Regulations 2004;

- (c) If the Distributor's prior approval (that approval not to be unreasonably withheld) of the Retailer's process for ascertaining that the relevant Consumer is eligible for the Low Usage Tariff Option has been given;

Subject to the condition that if the Distributor becomes aware that a Low-Usage Tariff Option has been made available to, or is being applied by, a Retailer other than in accordance with this paragraph, the Distributor may remove the relevant Consumer from the Low-Usage Tariff Option to another Price Category and adjust the charges accordingly. Such adjustment to the charges may include recovery from the Retailer of any underpayment by the Retailer resulting from the Low-Usage Tariff Option being applied other than in accordance with this Pricing Schedule, together with interest, calculated at the Interest Rate on the first day of the period during which the Low-Usage Tariff Option was incorrectly applied, until the day on which the underpayment is recovered by the Distributor.

33.0 Conditions: Asset Specific Delivery Charges

- 33.1 Asset specific Delivery Charges apply to Consumers on the Tauranga Distribution Network who require an 11kV feeder or who have their own generation.
- 33.2 Daily charges for Price Categories V40, V60, T50 and T60(1) are subject to periodic review based on site-specific information, including electricity demand and volume data.
- 33.3 Asset Specific Delivery Charges (V40, V60, T50 and T60(1)) charged pursuant to the Network Agreement will be disclosed upon request to the Consumer to which these charges apply, or to the Consumer's current Retailer.

Meter configuration



Part D: Meter Configuration

34.0 Controlled Price Category and Price Component conditions

34.1 For the Western and Eastern regions:

- (a) Consumers (the Instructing Retailers' Consumers and other Retailers' Consumers) allocated to a Controlled Price Category or Controlled Tariff Option will have their load controlled by:
 - I. The Distributor:
 - A. For the purposes of grid and network security;
 - B. For the purposes of optimising transmission charges; or
 - C. In abnormal supply or operating circumstances (e.g. a shortage or anticipated shortage of electricity); and
 - II. The Distributor acting on the instruction of the Instructing Retailer within these areas for other purposes
- (b) If the Retailer is not the Instructing Retailer and is not agreeable to its Consumers' load being controlled by the Distributor for the purposes and in the circumstances set out in paragraph 35, the Retailer must choose or request the Distributor to allocate the Consumer to an Uncontrolled Price Category or Uncontrolled Tariff Option.
- (c) All Consumers in Controlled Price Categories or Controlled Tariff Options as at 1 April 2019 have via their Retailer agreed to assign to the Distributor and the Instructing Retailer, the whole of the right to control the load (for whatever purpose).

34.2 To be eligible for the Controlled Price Category or Controlled Tariff Option, the Retailer must ensure that the Consumer has Load Control Equipment which:

- (a) is, and will continue to be, in working order;
- (b) when in operation, will result in a reduction in the Consumer's demand, where such load reduction is instantaneously available at the time of load-shedding operation. For example, by controlling the supply of electricity to those of the Consumer's goods (including, without limitation, Consumer goods or capital goods) that consume or intend to consume electricity to be controlled.
- (c) will be activated by the Distributor's load-signalling equipment (both pilot wire (cascade) and ripple control signalling equipment); and
- (d) will not block or interfere with the Distributor's load-signalling equipment.
- (e) Consumer's with separately controlled Night meters and no other form of controllable supply are not eligible for a Controlled Price Category.

34.3 No Controlled Price Category or Controlled Tariff Option is available at those GXPs where the Distributor does not have operational Load Control Equipment. Currently there is no operational Load Control Equipment at the Waverley GXP.

35.0 Conditions: Description of Controlled Options

- 35.1 The eligibility criteria in paragraph 34.2 applies to all controlled options (including AICO and CTRL) and must be satisfied.
- 35.2 Examples of Consumer appliances for a Controlled Tariff Option can include but are not limited to:
- (a) Hot water cylinders;
 - (b) Electric kilns, or;
 - (c) Any appliances representing a significant proportion of the Consumer's demand that may be controlled without increasing the Consumer's uncontrolled demand.
- 35.3 For an ICP to be eligible for Controlled only (CTRL) Tariff Option the following eligibility criteria apply and must be satisfied:
- (a) There is only one Point of Connection at the premises;
 - (b) There is only one meter and such meter has only one register, or a single element with single register on an advanced meter;
 - (c) All load at the premises must be controllable; and
 - (d) The Load Control Equipment when in operation must result in the reduction to zero of all controllable load.

36.0 Conditions: All Inclusive (AICO)

- 36.1 The "All Inclusive" metering configuration and tariff option (AICO) is closed for all new connections from April 2017
- (a) The AICO tariff option is still available for any connections with a meter installed prior to 1 April 2017.
 - (b) For any subsequent meter replacement after this date, the existing "All Inclusive" metering configuration must be replaced with an equivalent "Uncontrolled" and "Controlled" metering configuration.
 - (c) The Distributor may apply the equivalent uncontrolled price category if "All Inclusive" metering is installed.

37.0 Conditions: Description of Night (NITE) Only Supply

- 37.1 For an ICP to be eligible for the night only supply (NITE) Tariff Option, the following additional eligibility criteria applies and must be satisfied:
- (a) The load on the consumer appliances to be controlled are permanently wired and recorded onto a separate meter (the "NITE" supply meter) or to a separate element with a single register on an advanced meter and such element is connected to a ripple control relay;
 - (b) No uncontrolled appliances are connected to the NITE supply meter; and
 - (c) The Load Control Equipment when in operation must result in the reduction to zero of all load connected to the NITE supply meter.

38.0 Existing Load Control Signals by Region

GXP	CN8	CN9	CN17 / IN17	CN23	UN24
	NO8	NB9	DIN16 / NIN8		D16 / N8
EASTERN REGION – VALLEY					
Hinuera (HIN0331)	✓	✗	✓	✗	✓
Kinleith (KIN0331 & KIN0112)	✓	✗	✓	✗	✓
Kopu (KPU0661)	✓	✗	✓	✗	✓
Piako (PAO1101)	✓	✗	✓	✗	✓
Waihou (WHU0331)	✓	✗	✓	✗	✓
Waikino (WKO0331)	✓	✗	✓	✗	✓
EASTERN REGION – TAURANGA					
Tauranga (TGA0111 and TGA0331)	✓	✓	✓	✓	✓
Mt Maunganui (MTM0331)	✓	✓	✓	✓	✓
Te Matai (TMI0331)	✓	✓	✓	✓	✓
Kaitemako (KMO0331)	✓	✓	✓	✓	✓
WESTERN REGION – WAIRARAPA					
Greytown (GYT0331)	✓	✓	✓	✗	✓
Masterton (MST0331)	✓	✓	✓	✗	✓
WESTERN REGION – MANAWATU					
Bunnythorpe (BPE0331)	✓	✓	✓	✗	✓
Linton (LTN0331)	✓	✓	✓	✗	✓
Mangamaire (MGM0331)	✓	✗	✓	✗	✓
WESTERN REGION – TARANAKI					
Carrington (CST0331)	✓	✓	✓	✗	✓
Huirangi (HUI0331)	✓	✗	✓	✗	✓
Hawera (HWA0331)	✓	✓	✓	✗	✓
New Plymouth (NPL0331)	✓	✓	✓	✗	✓
Opunake (OPK0331)	✓	✓	✓	✗	✓
Stratford (SFD0331)	✓	✗	✓	✗	✓
WESTERN REGION – WHANGANUI					
Brunswick (BRK0331)	✓	✗	✓	✗	✓
Marton (MTN0331)	✓	✗	✓	✗	✓
Mataroa (MTR0331)	✓	✗	✓	✗	✓
Ohakune (OKN0111)	✓	✗	✓	✗	✓
Wanganui (WGN0331)	✓	✗	✓	✗	✓
Waverley (WVY0111)	-	-	-	-	✓

- ✓ Control signal available
- ✗ Control Signal not available
- No load control available

Note: Metering configuration code CN9/NB9 is closed to new connections. To be phased out by 2020
 Note: CN23 is closed to new connections including meter replacements

39.0 Tariff Option Descriptions

Tariff Description	Tariff Option	Register Content Code	Description
Uncontrolled	24UC	UN24 D16/N8	<ul style="list-style-type: none"> A 24-hour continuous supply. Also applies for both registers on Day/Night meters (with or without associated controllable load).
All-inclusive single meter option –refer to conditions in paragraph 36	AICO	IN17 DIN16 / NIN8	<ul style="list-style-type: none"> A 24-hour supply and a mandatory additional controllable supply. Available only for single meter, single register configurations. If the single meter has two registers, then consumption must be submitted as 24UC and CTRL. Under normal supply circumstances, electricity is usually available to controlled Consumer appliances for at least 17 hours per day. Under abnormal supply or operating circumstances (e.g. where there is a shortage or anticipated shortage of electricity) control of the controllable supply may be for greater than seven hours per day (e.g. 22 hours per day). If no additional controllable supply, the ICP must be allocated as 24UC.
TOU Peak / OffPeak - Uncontrolled	PEAK / OFPK	UN24 / 7304	<ul style="list-style-type: none"> Refer “Uncontrolled” description
TOU Peak / OffPeak – All Inclusive	PKIN / OPIN	IN17 / 7304	<ul style="list-style-type: none"> Refer “All Inclusive” description
Controlled	CTRL	CN17 CN23	<ul style="list-style-type: none"> Electricity under normal supply circumstances is usually available for at least 17 hours per day. Under abnormal supply or operating circumstances (e.g. where there is a shortage or anticipated shortage of electricity), control may be for greater than seven hours per day (e.g. 22 hours per day). CN23 closed to new connections including meter replacements.
Night supply only	NITE	CN8 NO8	<ul style="list-style-type: none"> Available only for appliances permanently wired to a separate meter. Controlled option with power between the hours of 2300 to 0700. Consumer’s with separately controlled Night meters and no other form of controllable supply are not eligible for a Controlled Price Category.
Night with boost Closed to new connections. Phased out by 31/03/2021	NITE	CN9 NB9	<ul style="list-style-type: none"> Available only for appliances permanently wired to a separate meter. Controlled option with power between the hours of 2300 to 0700, plus a minimum “boost period” of one hour, generally between 1400 and 1500. Appliances must not draw current outside of these hours. Consumer’s with separately controlled Night meters and no other form of controllable supply are not eligible for a Controlled Price Category.
Distributed Generation	24DG	EG24	<ul style="list-style-type: none"> Available only to Connections that are capable of exporting onto the Distributor’s Network and do not have Time of Use Meters. This Tariff Option is to only apply to the separately metered export volumes. To be eligible for this Tariff Option the connection must comply with the Distributors Distributed Generation policy (per paragraph 11).

40.0 Conditions: Metering Requirements

- 40.1 Consumers on the Valley Distribution Network with a load of greater than 300kVA must have, in the Distributor’s opinion, appropriate TOU metering.
- 40.2 Consumers on the Tauranga Distribution Network who are in the T41 price Category or with a load of greater than 300kVA must have, in the Distributor’s opinion, appropriate TOU metering.

41.0 Conditions: Meter Register Code Reporting

- 41.1 Within each Price Category, there may be more than one variable charge available for use. For each Price Category there will be a unique Tariff Option with a unique meter register code.

For some Price Categories it will be possible for a Consumer to be connected to multiple supply options, each with its own meter register. Such an ICP will have one Price Component Code for each unique meter register code

Each monthly volume quantity submitted will then incorporate, for that ICP, a volume for each selected variable Delivery Charge category. Each volume will then be associated with a Tariff Option (AICO, CTRL, 24UC, NITE, TS/1, TS/2, TW/1, TW/2, TW/3, TW/4, TW/5 or TW/6).

- 41.2 For the V40, V60, T50 or T60 Price Categories, volumes are to be submitted monthly via the EIEP3 file format.
- 41.3 Volume is submitted for Price Categories other than V40, V60, V601, T50 or T60 under the "KWH" Tariff Option, this volume will be charged at the highest value in the available Tariff Option for that Price Category, generally 24UC.

Streetlights / Unmetered supply



Part E: Streetlights / Unmetered Supply

42.0 Introduction

42.1 Unmetered supply charges are detailed in paragraphs 21, 26 and 28. This section provides Retailers with information relating to charging unmetered ICPs.

43.0 Western Region

43.1 The Western Region has GXP based pricing and as such unmetered volumes are included in the reconciled volumes. Therefore this negates the need for specific unmetered charges in this pricing region. However, Powerco does require streetlight information in relation to streetlights and Retailer's obligations are detailed in paragraph 43.2.

43.2 Unmetered Street-lights

- (a) Powerco must receive (on a monthly basis) the street-light or other unmetered load database from the Retailer, or council / New Zealand Transport Agency (NZTA) (or both) as agreed, by the fourth working day of the calendar month.
- (b) Where Powerco has not received the street-light database as required, or no longer holds confidence in the quantities detailed by the Retailer or council / NZTA (or both), Powerco will estimate, on a reasonable endeavours basis, the light fitting quantity.
- (c) Where the data is found to not be an accurate reflection of the street-lights that are installed, Powerco may apply additional charges as per section 9.1 in recognition of the costs it incurs through the provision of inaccurate data.
- (d) The requirements of 43.2 (a) – 43.2 (c) above do not apply to lights where evidence has been provided to Powerco that all consumption is metered by certified revenue metering installations.

43.3 Price Category: Street Light Lighting Control Equipment Charge

- (a) The Distributor owns Lighting Control Equipment attached to or associated with street lights in the Western Region
- (b) The Lighting Control Equipment charge for the use of each Distributor street light Lighting Control Equipment is:

Daily charge per street light Lighting Control Equipment

\$0.1185 dollars per Lighting Control Equipment per day

44.0 Eastern Region - Conditions

44.1 The unmetered Price Categories are not available for Residential Connections.

44.2 The Distributor does not allow Unmetered Supply (such as streetlights) to be shared across multiple points of connection for new connections.

- 44.3 The Unmetered Price Categories are not available for new under verandah lighting and private streetlight connections from 1 April 2015 (i.e. all new connections must be metered).
- 44.4 Unmetered supply charges are allocated as:
- (a) V01 and T01 – Unmetered load such as council flow meters, pumps, cameras, small telecommunication cabinets and others. The Distributor will determine eligibility for this Price Category via Powerco’s connections process and policy.
 - (b) V02 and T02 – Council/NZTA street lighting.
- 44.5 Street-light databases must be received as follows:
- (a) Powerco must receive monthly the street-light or other unmetered load database from the Retailer or council (or both) as agreed, by the fourth working day of the calendar month.
 - (b) Where Powerco has not received the street-light database as required, or no longer holds confidence in the quantities detailed by the Retailer or council (or both), Powerco will estimate, on a reasonable endeavours basis, the light fitting quantity.
- 44.6 Where a permanent unmetered supply’s connected capacity requirement exceeds 5kVA, single phase metering is necessary. Street lighting is excluded on approval via Powerco’s connections process and policy.
- 44.7 Volume data for all unmetered ICPs must be included in a traders EIEP1 file using the appropriate Price Category and Tariff Option of UNML. For example, T01~UNML or T02~UNML.
- 44.8 Where a metered ICP also has load which is unmetered (such as under verandah lighting, private lights or signage) the unmetered volume data must be submitted in the Trader’s EIEP1 file using the relevant Price Category and the Tariff Option UNML. For example, an ICP on the T06C Price Category should have the code T06C~UNML for all unmetered load associated with that ICP.

45.0 Eastern Region - Process

- 45.1 Charge codes are allocated to each ICP depending on the type of installation or supply it has installed. Some ICPs may have a number of installations under the same charge code and/or a variety of charge codes associated with it.
- 45.2 The Distributor will populate the electricity Registry with the equipment wattage and operating hours according to the Electricity Authority Unmetered Load Guidelines.
- (a) From 1 April 2018 the load factor in the Registry unmetered load description field is 0% (prior to 1 April 2018 this factor was set to 10%).
 - (b) Total equipment wattage is equal to the equipment wattage (including ballast if applicable) multiplied by the quantity of fixtures installed.

- 45.3 Unmetered streetlights not reconciled as part of a Distributor Unmetered Load (DUML) will have a ballast figures applied as per the standardised table of streetlight wattages published by the Electricity Authority (<https://www.ea.govt.nz/dmsdocument/22161-standardised-table-of-streetlight-wattages>).
- 45.4 Charges for Council and New Zealand Transport Agency (NZTA) unmetered street lighting (V02 and T02) are determined by:
- (a) Fixed Charge - quantity (number of light fixtures connected) multiplied by the unmetered supply Fixed Charge per day (V02 and T02); and
 - (b) Powerco will estimate streetlight-fitting quantities and apply a penalty in instances where streetlight database information is not provided or updated as required.
- 45.5 Charges for V01 and T01 unmetered supply (other than council and NZTA street lighting covered by V02 and T02) are determined on:
- (a) The equipment wattage (including ballast if applicable);
 - (b) Operating hours (number of hours the equipment is consuming electricity); and
 - (c) The quantity of fixtures/equipment installed.

46.0 Eastern Region - Calculation

- 46.1 **Unmetered Streetlights Fixed Charge Calculation** (Council/NZTA Streetlights on T02 or V02 price categories) = [The quantity of equipment installed] x [Days in Month] x [Delivery Price].
- 46.2 **Unmetered Load kWh Calculation** (excluding Council/NZTA Streetlights) = [The quantity of equipment installed] x [Wattage plus ballast (if applicable)] x [Days in Month] x [Operating Hours] / 1,000.
- (a) For example: 2 x 50W Lights + Ballast of 11W, 31 days in month, 12 daily operating hours = $\{[2 \times (50 + 11)] \times 31 \times 12\} / 1,000 = 45.38$ kWh.
- 46.3 **Unmetered Load Charge Calculation** (excluding Council/NZTA Streetlights) = Unmetered Load kWh Calculation (kWh) x Delivery Price.
- (a) For example: 1 x 100W appliance, 31 day month, 8 daily operating hours = $(1 \times 100 \times 31 \times 8) / 1,000 = 24.80$ kWh.
- 46.4 Shared Unmetered Load: If the Unmetered load is shared across multiple ICPs then the consumption determined in the equations above should be divided by the number of ICPs sharing the load. This figure should then be applied to every ICP sharing that unmetered load.

Additional information



Contents

Schedule 11

Loss factors

Schedule 12

Billing and settlement

Schedule Eleven: Loss Factors

1.0 General

- 1.1 Losses and loss factors may be reviewed and amended by the Distributor from time to time, on reasonable notice to the Retailer and not less notice than specified in the applicable Network Agreement, to ensure that they reflect total unaccounted for electricity on the Network as accurately as reasonably possible.
- 1.2 The loss factors currently applying at each GXP are described in the tables below.

2.0 Western Region Loss Factors as at 1 April 2019

- 2.1 The losses are calculated by GXP and apply to all ICPs belonging to the GXP or;
- 2.2 On the basis of supply voltage or dedicated or non-dedicated assets.
- 2.3 All ICPs that relate to streetlights (including bus shelters and other miscellaneous lighting) will be allocated a loss factor code that contains the suffix SL (as per the table below). This is to allow specific identification and allocation of volumes that relate to streetlights across the Western region.
- 2.4 There are some exceptions, mostly large industrial ICPs, to which individual loss factors apply. Please contact Powerco for further information.

Region	GXP	Code	Balancing Area	400V Metering Loss Factor	Code	11kV Metering Loss Factor
Taranaki	Carrington	CST/CSTSL	BA1WESTPOCOG	1.0716	CST11	1.0251
Taranaki	Huirangi	HUI/HUISL	BA1WESTPOCOG	1.0716	HUI11	1.0251
Taranaki	New Plymouth	NPL/NPLSL	BA1WESTPOCOG	1.0716	NPL11	1.0251
Taranaki	Stratford	SFD/SFDSL	BA1WESTPOCOG	1.0716	SFD11	1.0251
South Taranaki	Hawera	HWA/HWASL	BA2WESTPOCOG	1.0780	HWA11	1.0380
South Taranaki	Opunake	OPK/OPKSL	BA2WESTPOCOG	1.0780	OPK11	1.0380
Wanganui	Brunswick	BRK/BRKSL	BA3WESTPOCOG	1.0805	BRK11	1.0275
Wanganui	Marton	MTN/MTNSL	BA3WESTPOCOG	1.0805	MTN11	1.0275
Wanganui	Mataroa	MTR/MTRSL	BA3WESTPOCOG	1.0805	MTR11	1.0275
Wanganui	Ohakune	OKN/OKNSL	BA3WESTPOCOG	1.0805	OKN11	1.0275
Wanganui	Wanganui	WGN/WGNSL	BA3WESTPOCOG	1.0805	WGN11	1.0275
Wanganui	Waverley	WVY/WVYSL	BA3WESTPOCOG	1.0805	WVY11	1.0275
Manawatu	Bunnythorpe	BPE/BPESL	BA4WESTPOCOG	1.0850	BPE11	1.036
Manawatu	Linton	LTN/LTNSL	BA4WESTPOCOG	1.0850	LTN11	1.036
Manawatu	Mangamaire	MGM/MGMSL	BA5WESTPOCOG	1.0950	MGM11	1.036
Wairarapa	Greytown	GYT/GYTSL	BA6WESTPOCOG	1.0800	GYT11	1.0120
Wairarapa	Masterton	MST/MSTSL	BA6WESTPOCOG	1.0800	MST11	1.0120

Code	Description
CPOW2*	Load group 2 for ICPs supplied from BPE0331, LTN0331, MGM0331 that are >40kVA with a non-dedicated transformer Day = 1.085 Night = 1.085 Night losses are from period TP1–TP16 (0030–0800) and day losses are from period TP17–TP48 (0830–0000)
CPOW3*	Load group 3 for ICPs supplied from BPE0331, LTN0331, MGM0331 that are >40kVA with a dedicated transformer Day = 1.085 Night = 1.085 Night losses are from period TP1–TP16 (0030–0800) and day losses are from period TP17–TP48 (0830–0000)
CPOW4*	Load group 4 for ICPs supplied from BPE0331, LTN0331, MGM0331 that are >40kVA on a general 11kV supply with a dedicated transformer Day = 1.036 Night = 1.036 Night losses are from period TP1–TP16 (0030–0800) and day losses are from period TP17–TP48 (0830–0000)

* Not available for new connections

3.0 Eastern Region Loss Factors as at 1 April 2019

3.1 Valley Distribution Network:

- (a) For ICPs supplied from GXPs at Hinuera, Kinleith, Kopu, Piako, Waihou and Waikino (balancing areas BA2EASTPOCOG, BA3EASTPOCOG, BA4EASTPOCOG, & BA5EASTPOCOG).

Consumer Category	Metering Voltage	Code	Loss Factor
For Connection capacity of 60 Amps or less (including unmetered Connections)	Low Voltage	VYLALV	1.0814
For Connection capacity for greater than 60 Amps, up to and including 160 Amps	Low Voltage	VYMALV	1.0695
For Connection capacity greater than 200 Amps	Low Voltage	VYHALV	1.0475
For Connection capacity greater than 200 Amps	High Voltage	VYHAHV	1.0330
V60 individually priced Consumers		SPEC	Site -specific (default 1.0330)

Explanatory Note:

- (a) Loss factors applicable to T60 Consumers are calculated on a site-by-site basis. Contact Powerco for further information;
- (b) “Low Voltage” means metered at 230V single-phase or 400V three-phase, or unmetered; and
- (c) “High Voltage” means metered at 6.6kV or higher voltage.

3.2 Tauranga Distribution Network:

For ICPs supplied from GXPs at Tauranga, Mt Maunganui, Te Matai and Kaitemako (balancing area BA1EASTPOCOG).

Capacity and Voltage Connection	Code	Factor 33KV GXP	Code	Factor 11KV GXP
Low-Voltage single-phase and three-phase Connection metered at Low Voltage	TLV3	1.055	TLV1	1.055
Transformer or High-Voltage Connection metered at Low Voltage	TXLV3	1.033	TXLV1	1.033

Transformer or High-Voltage Connection metered at High Voltage	TXHV3	1.023	TXHV1	1.023
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Explanatory Note:

- (a) Loss factors applicable to T60 Consumers are calculated on a site-by-site basis. Contact Powerco for further information;
- (b) “Low Voltage” means metered at 230V single-phase or 400V three-phase, or unmetered; and
- (c) “High Voltage” means metered at 6.6kV or higher voltage.

4.0 Site-Specific Losses

- 4.1 The following site-specific losses replace special loss factors for certain Consumers applicable 1 April 2019. Please contact Powerco for further information on site specific losses.

Generation Losses

Loss Code	Loss Factor Consumption	Loss Factor Generation
POCO001	1.070	1.070
POCG002	1.038	1.038
POCG003	1.000	1.000
POCG004	1.038	1.01
POCG005	1.080	1.080
POCG006	1.080	1.080
POCG007	1.040	1.000
POCG008	1.073	1.000
POCG009	1.080	1.080
POCG010	1.080	1.080
POCG011	1.000	1.000
POCG012	1.0652	1.0652
POCG013	1.000	1.0314
POCG014	1.000	1.000
POCG015	1.000	1.000
POCG016	1.000	1.000
POCG017	1.000	1.000
POCG018	1.048	1.048
POCG019	1.070	1.070
POCG020	1.063	1.063
POCG021	1.080	1.080
POCG022	1.063	1.063
POCG023	1.0652	1.0652
POCG024	1.000	1.0169
POCG025	1.000	1.000
POCG026	1.000	1.000
POCG027	1.0652	1.000
POCG028	1.033	1.000
POCG029	1.000	1.000
POCG030	1.000	1.000

Load Losses

Loss Code	Loss Factor Consumption	Loss Factor Generation
POCO201	1.008	1.000
POCO202	1.011	1.000
POCO203	1.012	1.000
POCO204	1.014	1.000
POCO205	1.015	1.000
POCO206	1.017	1.000
POCO207	1.018	1.000
POCO208	1.0149	1.000
POCO209	1.023	1.000
POCO210	1.024	1.000
POCO211	1.025	1.000
POCO212	1.026	1.000
POCO213	1.029	1.000
POCO214	1.032	1.000
POCO215	1.0864	1.000
POCO216	1.038	1.000

Schedule Twelve: Billing and Settlement Process

1.0 General

The following covers Powerco's billing and settlement processes. Both the Distributor and the Retailer recognise that the process of calculating accurate charges is dependent on the prompt and accurate supply of information by the Retailer to both industry bodies and to the Distributor.

1.1 Standard monthly data provision and billing timeline:

1st working day of the month (revision billing)	Retailer must provide Consumption Data in EIEP1 and EIEP3 format (EIEP3 data only if it is missing or originally incorrect) for upcoming revision billing (R3, R7 and R14). Please refer to paragraph 5.3 of this schedule.
5th working day by 4:00 pm (initial billing)	Retailer must provide Consumption Data in EIEP1 and EIEP3 format (Consumption Data Due Date) for initial billing
6th – 7th working day	Invoices produced for direct billed Customers and sent to Retailers or Direct Customers, as applicable
8th – 10th working day	Initial ICP billing/ GXP billing invoices produced for all Retailers
Last business day of the month	Revision invoices produced for ICP billing and sent to Retailers or direct Customers, as applicable

1.2 Retailer's Responsibility for Points of Connection

- (a) The Retailer must adhere to the processes set out in the Network Agreement and any relevant Powerco policy when establishing or altering the physical status of a Point of Connection;
- (b) The Distributor will maintain a database of Points of Connection, referenced by Installation Control Points, and aligned to the information held by the Registry appointed under the Code to determine which Retailer is responsible for an Installation Control Point and the status of the Point of Connection; and
- (c) The Retailer may request, for all Installation Control Points for which the Distributor has the Retailer listed as being responsible, an electronic copy of the relevant part of the database.

2.0 Submissions – Consumption Data

- 2.1 Initial Billing, each Retailer must provide Consumption Data for the Consumption Month to be billed on or before the 5th working day of the Processing Month (Consumption Data Due Date). For revised billing, please refer to the table above.
- 2.2 Each Retailer is to provide Consumption Data in a normalised format (which is data adjusted to reflect a start and end date that matches the start and end date of Consumption Month to be invoiced).
- 2.3 Consumption Data must be normalised using either Replacement Normalised or Incremental Normalised methodology. Retailers may not switch between submission methodologies without consultation with, and approval by, the Distributor.
- 2.4 Each Retailer should submit Consumption Data to the Distributor via the Distributor's Consumption Submission Management System (CSM) or via the registry EIEP Transfer Tool as agreed. Files delivered to Powerco must be compliant with the

format structure of the latest regulated version EIEP1 and EIEP3 protocols. Each Retailer must upload a single Initial File, which includes records for all ICPs on any of the Distributor's Networks.

- 2.5 The CSM will validate a Retailer's Initial File against the latest regulated version of the EIEP1 and EIEP3 specifications as published by the Electricity Authority, and also the rules applicable to that Retailer's agreed submission type (Incremental Normalised or Replacement Normalised data). If individual records fail validation, Retailers will have an opportunity to fix those records if they wish to do so. If the records are not fixed the records will be ignored by the Distributor.
- 2.6 If, by the Consumption Data Due Date, Retailers have not submitted an Initial File that complies with the latest regulated version of the EIEP1 and EIEP3 protocols (or have not submitted an Initial File at all) then the Initial File will not be accepted for billing and the Distributor may estimate volume for such record as detailed in paragraph 3.1 (c).
- 2.7 Consumption Data received by the Distributor after the Consumption Data Due Date may be subject to a Late Consumption Data fee set out in paragraph 9.1 of Part A, Schedule 10.

3.0 Process by Billing Methodology

3.1 ICP Billing Process

- (a) The ICP based invoice issued to each Retailer will detail the ICP related variable and fixed charges that apply across the Eastern and Western Regions (SPECIAL, E100 & E300R).
- (b) If a Customer is contracted directly with the Distributor via a Network Agreement it will be denoted on the Registry via the Direct Billed Status field. These Customers are billed directly for Delivery Charges by the Distributor.
- (c) The Distributor will calculate Delivery Charges for the Consumption Month on the basis of Consumption Data provided (or estimated) and the number of Active and Ready ICPs on the Distributor's Network. For any ICPs that were Active or Ready during the Consumption Month where Consumption Data has not been provided, is incomplete, materially incorrect or not in the specified format the Distributor may estimate consumption based on:
 - i. The average daily volume for ICPs in the relevant Price Category for the month prior to the Consumption Month, or
 - ii. For half-hour metered ICPs, the relevant ICP's consumption from the month prior to the Consumption Month (or the latest available Consumption Month).
- (d) The Distributor will provide an output file of all amounts invoiced with each invoice issued. The detail file will be in the format as specified in the regulated version of the EIEP1 protocol. Any Consumption Data estimated by the Distributor will have a "PROJ" (projection) appended to the relevant tariff option within this output file.

3.2 GXP Based Billing GXP Billing Process

- (a) The invoices issued to each Retailer will detail the volume, demand, and fixed charges in relation to Connections on the E1, Price Category for the Western Region.
- (b) Fixed Delivery Charges will be based on the number of ICPs with Active or Ready status that each Retailer has during the Consumption Month.

3.2.1 Method of Determining Quantities

- (a) The method and structure of Delivery Charges determines what quantities are required for billing purposes.
- (b) The Distributor uses reconciled data from the Reconciliation Manager (RM) to derive the quantities necessary for monthly billing of its GXP based Delivery Charges for the E1 price category.
- (c) This data is deemed accurate, acceptable to all parties and readily available through the Reconciliation Manager (RM). In using data supplied by the RM, the Distributor applies the RM revision files when generated as part of the RM revision cycle. Should the data not be available from the RM, then the Distributor will produce an estimated invoice based on either the previous month's data or the data for the same month in the previous year, whichever is deemed appropriate by the Distributor (seasonally adjusted at the Distributor's discretion), and this will be adjusted when RM data becomes available.
- (d) In situations where data is not available through the RM (e.g. totally Embedded Generation that is not reconciled), the Distributor will obtain metered data through appropriate agreements and convert to GXP-based data by applying the appropriate Distribution Network loss factor(s).
- (e) To establish the quantities for the E1 Price Category, the quantities relating to the E100, E300, E300R and SPECIAL Price Categories (adjusted by the appropriate Distribution Network loss factors) are subtracted from the half-hour gross load at the GXP (gross load = busload + Embedded Generation data).
- (f) $E1 \text{ quantities} = \text{GXP gross load} - \text{sum of half hour adjusted quantities (E100 + E300(R) + SPECIAL)}$
- (g) A GXP peak waiver process may be applied as part of the calculation of the E1 group's peak demand, given that load shifting between interconnected GXPs can occur and may create an abnormal demand.
- (h) For E100, E300, E300(R) and SPECIAL Price Categories, site-metered data provided will be adjusted to GXP-based data by adding the appropriate Distribution Network loss factors. This Time of Use (TOU) metering data should mirror the data being submitted the RM.
- (i) The Retailer must provide TOU metering data in EIEP3 format to the Distributor or the Distributor's nominated agent within five business days from the end of the prior month (Consumption Data Due Date) for any Connection within the E100, E300(R) and SPECIAL Price Categories.
- (j) Where the Retailer has been unable to provide EIEP3 files for Western Region E100, E300, E300R and SPECIAL ICPs, and is unable to provide estimated data, the volume will not be able to be subtracted from the GXP volumes and therefore will be invoiced within the E1 residual volume. Similarly, inaccurate data, if not corrected prior to the GXP billing process run on business day 8, will impact on and may be included in the Delivery Charges invoiced to the E1 Price Category. This will be subject to subsequent adjustment via the revision cycle.
- (k) TOU metering data received by the Distributor after the Consumption Data Due Date, may be subject to a Late Consumption Data fee set out in paragraph 9.1 of Part A, Schedule 10.

4.0 Payment

- 4.1 The invoice for GXP based Delivery Charges for the Consumption Month and any revision amounts will be sent to the Retailer by the 10th working day of the Payment Month, and will be payable on the 20th day of that same month.
- 4.2 The invoice for ICP based Delivery Charges for the Consumption Month will be sent to the Retailer by the 10th working day of the Payment Month, and will be payable on the 20th day of that same month.
- 4.3 ICP based revision invoices or credit notes are sent throughout the remainder of the Processing Month and will be due for payment on the 20th day of the following month.
- 4.4 If the Distributor fails to send an invoice to the Retailer by the 10th working day of the Payment Month, then the due date for payment will be extended by one working day for each working day that the invoice is late.
- 4.5 A Use of Money Adjustment may be calculated as the invoiced amount multiplied by one-twelfth of the Use of Money Rate for each of the months from the due date of the original invoice to the date of settlement of the invoiced amount. The Use of Money Rate will be the Interest Rate for the first working day of the settlement month, plus two percentage points.

5.0 Revision Cycles and Reconciliation

- 5.1 Revision Cycles
 - (a) Both the Distributor and the Retailer recognise that the cyclical nature of meter reading makes it impractical to provide completely accurate figures for consumption for each Point of Connection within the timeframe required for payment of Delivery Charges. It is, therefore, necessary to provide a structure for subsequent revisions of prior billed periods.
 - (b) Each revision cycle will account for changes in fixed and variable Delivery Charges due, based on Retailer switches, status changes, and Replacement Data uploaded by Retailers submitting to Powerco under the Replacement Normalised methodology.
 - (c) Any Retailer submitting Replacement Normalised data to Powerco may submit Replacement Data up to 14 months from the Consumption Month to which the Replacement Data relates.
 - (d) Where the Distributor reasonably considers that an additional revision cycle is required, it may, at its discretion, perform a 1 month revision in addition to the 3, 7 and 14 month revisions provided for in paragraph 5.3.
- 5.2 Replacement Data
 - (a) Replacement Data can be either uploaded to the Distributor's CSM or provided per the agreed method at any time up to 14 months from the Consumption Month to which the Replacement Data relates. Replacement and Partial Replacement files will be subject to validation against file format and submission type business rules as applied by the Distributor from time to time and as outlined in paragraphs 2.4 and 2.5. Replacement Data submitted will be reconciled and billed when the Distributor runs its 3, 7 and 14 month revision billing cycles.
 - (b) For Incremental normalised submissions, the Retailer is to progressively adjust the volumes in each Retailer billing cycle. Accordingly, only Partial Replacement Files will be accepted. Full Replacement Files will not be

accepted under this method unless there has been a material error with the initial file received.

- (c) Incremental Normalised submissions may include prior period corrections. These volumes will be billed along with the normalised volumes provided in the Current Month submission. Prior period volumes that can be attributed to consumption periods outside the Distributor’s revision cycle limit (14 months) will be disregarded.
- (d) For Replacement Normalised submissions, volumes are not progressively revised and are replaced with Full Replacement Files or Partial Replacement Files. As such, the Distributor requires that Retailers submitting under this methodology supply 3, 7 and 14 month revision files. Replacement Data must comply with the latest regulated version of the EIEP1 protocol for full (R Files) and partial (X Files).
- (e) Replacement files for HHR metered data must comply with the latest regulated version of the EIEP3 protocol. Powerco’s CSM processes EIEP3 full replacement files at the ICP level and replaces the volume for only those ICPs which are included in the file. This also applies for partial replacement files.
- (f) For GXP and ICP based billing, volumes will be progressively revised as detailed in paragraph 5.3 below.

5.3 Revision Schedule

Processing Month	Revision Cycle	Report Month	Processing Month	Revision Cycle	Report Month
Apr 2019	Initial	March 2019	Oct 2019	Initial	September 2019
	R3	December 2018		R3	June 2019
	R7	August 2018		R7	February 2019
	R14	January 2018		R14	July 2018
May 2019	Initial	April 2019	Nov 2019	Initial	October 2019
	R3	January 2019		R3	July 2019
	R7	September 2018		R7	March 2019
	R14	February 2018		R14	August 2018
Jun 2019	Initial	May 2019	Dec 2019	Initial	November 2019
	R3	February 2019		R3	August 2019
	R7	October 2018		R7	April 2019
	R14	March 2018		R14	September 2018
Jul 2019	Initial	June 2019	Jan 2020	Initial	December 2019
	R3	March 2019		R3	September 2019
	R7	November 2018		R7	May 2019
	R14	April 2018		R14	October 2018
Aug 2019	Initial	July 2019	Feb 2020	Initial	January 2020
	R3	April 2019		R3	October 2019
	R7	December 2018		R7	June 2019
	R14	May 2018		R14	November 2018
Sep 2019	Initial	August 2019	Mar 2020	Initial	February 2020
	R3	May 2019		R3	November 2019
	R7	January 2019		R7	July 2019
	R14	June 2018		R14	December 2018

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