

PRICING SCHEDULES



United Networks

VERSION 1

APPLICABLE TO RETAILERS WHO HAVE SIGNED THE
UNITED NETWORKS USE OF NETWORK AGREEMENT

EFFECTIVE 1 APRIL 2001

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SECTION ONE	INTRODUCTION AND GENERAL CONDITIONS
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Section One provides supplementary information for the pricing schedules, and should be read in association with these. For full details of the conditions of connection to and conveyance across the Distributor's Network(s), refer to the Use of Network Agreement.

1 CONDITIONS COMMON TO ELECTRICITY AND GAS NETWORKS

1.1 General Conditions:

- (a) "Residential" means private dwelling not used for any business activity.
- (b) Variable charges will be applied to the volume as metered at the End-Consumer's premises. The Loss Factors detailed in section 6 of these schedules do not need to be applied by the Retailer.
- (c) All charges are exclusive of Goods and Services Tax (GST).
- (d) All times stated in this schedule are New Zealand Daylight Time.

1.2 Electricity and Gas Network Definitions:

REGION	NETWORKS	
	Electricity	Gas
Northern	Waitemata Auckland Embedded Networks	Greater Auckland
Eastern	Valley Tauranga Rotorua Taupo	
Mid North Island		Hawkes Bay Palmerston North
Central	Central (Wellington, Hutt Valley, Porirua)	Wellington

2 GENERAL CONDITIONS – GAS NETWORK

2.1 Introduction:

- (a) The Distributor's standard gas network line charges are designed to cover the cost of transporting gas over the Gas Network to End-Consumers' homes and businesses. Each End-Consumer's Point of Connection (or Delivery Point) is assigned an Installation Control Point (ICP) number and linked to an Injection Point. A Gas Network load group line charge is then assigned to this ICP.
- (b) These load group charges relate to the cost of owning, operating and maintaining the network as it currently exists.

2.2 Load group charges do not cover:

- (a) the cost of the gas itself;
- (b) gas transmission costs (charged by Natural Gas Corporation);
- (c) Unaccounted For Gas (UFG);
- (d) Gas Measurement systems (GMSs);
- (e) Reading of meters and/or Time of Use Devices (TOU);
- (f) Reconciliation/Allocation Services; or
- (g) Specific Network Charges.

2.3 Specific Network Charges related to:

- (a) Connection to the Network of additional End-Consumers;
- (b) the modification, relocation or removal of current End-Consumer Point of Connection;
- (c) Disconnection & reconnection of Point of Connection;
- (d) Additions to existing Points of Connection required for TOU metering;
- (e) The Distributor's Telemetry system (Telenet).

2.4 Definition of Regional Networks:

REGION	NORTH	MID NORTH ISLAND		CENTRAL
NETWORK	Auckland	Hawkes Bay	Palmerston North	Wellington
NGC Transmission System: Gate Station Points of Injection (Receipt Points)	Alfriston	Dannevirke	Ashurst	Tawa A
	Bruce McLaren	Hastings	Feilding	
	Drury	Mangaroa	Foxton	
	Henderson	Mangatainoka	Kakariki	
	Hunu Rd	Pahiatua	Kairanga	
	Kingseat	Takapau	Levin	
	Papakura		Longburn	
	Pukekohe		Oroua Downs	
	Ramarama		Palmerston North	
	Tuakau			
	Waimauku			
	Waiuku			
	Westfield			

Explanatory Notes:

1. Hawkes Bay (Dannevirke)
2. Palmerston North (Manawatu and Horowhenua)
3. NGC = Natural Gas Corporation

2.5 End-Consumer Type:

- (a) End-Consumer Type is based on the End-Consumer group and End-Consumer size.
- (b) End-Consumer Groups are Residential, CNG, Co-generation, Contract and Commercial. End-Consumers of the Commercial group are then divided based on End-Consumer size as defined by the load size. The load size is based on meter set capacity where meter set capacity is a measure of an End-Consumer's peak network usage. The following table summarises the End-Consumer types.

END-CONSUMER TYPE	DEFINITION
Residential – Standard	End-Consumers in a private dwelling not normally used for any business activity. These End-Consumers generally have an installed meter capacity of less than 10 scm/hr.
Capacity Group 1	Commercial End-Consumers with installed meter set capacity of less than or equal to 10 scm/hr.
Capacity Group 2	Commercial End-Consumers with installed meter set capacity greater than 10 scm/hr and less than or equal to 40 scm/hr.
Capacity Group 3	Commercial End-Consumers with installed meter set capacity greater than 40 scm/hr and less than or equal to 200 scm/hr.

END-CONSUMER TYPE	DEFINITION
Capacity Group 4	Commercial End-Consumers with installed meter set capacity greater than 200 scm/hr and less than or equal to 1,000 scm/hr per hour.
Capacity Group 5	Commercial End-Consumers with installed meter set capacity greater than 1,000 scm/hr .
CNG	End-Consumers who use or sell CNG, such as petrol stations
Co-Generation	End-Consumers who use gas for co-generation purposes.
Contract	Commercial End-Consumers who are on individual contracts.

3 GENERAL CONDITIONS – ELECTRICITY NETWORK

3.1 Introduction:

- (a) All charges assume a power factor of not less than 0.95 lagging (a reactive charge for poor power factor is applicable separately).
- (b) All charges exclude the provision of Metering Equipment or Load Management Equipment which is located at the Point of Connection to the distribution network.
- (c) All charges exclude losses and the cost of the End-Consumer fittings. Loss Factors will be applied to the metered energy consumption measured at the Point of Connection for reconciliation/allocation purposes.

3.2 Definition of Regional Networks:

REGION	NORTH	EASTERN				CENTRAL
NETWORK	Waitemata	Valley	Tauranga	Rotorua	Taupo	Central*
Transpower Transmission System: Grid Exit Points of Injection	Albany Henderson Hepburn Rd Wellsford	Hinuera Kinleith Kopu Waihou Waikino	Tauranga Mt Maunganui Te Matai	Atiamuri Ohaaki Owhata Rotorua	Wairakei	Haywards (N) Melling (N) Gracefield (N) Upper Hutt (N) Takapu Rd (N) Pauatahanui (N) Wilton (S) Central Park (S) Kaiwharawhara (S)

Explanatory Note:

- 1 *Wellington North and South Network Grid Exit Points labelled as (N) and (S) respectively.
- 2 Auckland Embedded Networks – for Points of Connection supplied from Transpower Grid Exit Points which connect to the Vector Limited distribution system.

3.3 Description of Controlled Consumer Category Options:

(a) Controlled Category Options Applicable in Section 3 of this Module 15.

End-Consumer Category Description		Details
All Inclusive		A 24 hour supply with associated appliances that can be controlled at anytime for a maximum of 5 hours in any 24 hr period
Two Meter Option	Controlled	Supply can be controlled at anytime for a maximum of 5 hours in any 24 hour period (conditional on End-Consumer equipment (hot water cylinders, electric kilns, swimming and spa pool heater) being permanently wired to a separate controlled meter.
	Uncontrolled	A 24 hour continuous supply.
Night Supply Only		Controlled option with power between the hours of 11pm to 7am plus a one-hour afternoon "boost period" generally between 1pm and 3.30pm. This rate is only available where the appliances (detailed under controlled option above) are permanently wired to a separate meter.

(b) Controlled Category Options Applicable in Section Four of this Module 15.

End-Consumer Category Description	Details
Controlled (17 hours)	Supply can be controlled at any time for a maximum of 7 hours in any 24-hour period.
Controlled (19 hours)	Can be controlled at any time for a maximum of 5 hours in any 24 hour period.
Interrupted	Can only be controlled for a maximum of 1 hour per day, after 5pm Monday to Friday between May and September.
All Inclusive	A 24 hour supply with an additional supply that can be controlled at any time for a maximum of 7 hours in any 24-hour period.
All Inclusive and 9 hours controlled	A 24 hour supply with an additional supply that can be controlled with power on between Midnight – 7am with a two hour boost during the day.
All Inclusive and 8 hours controlled	A 24 hour supply with an additional supply that can be controlled with power on between 11pm – 7am only.
Tui Day/Night	Day (7am –11pm)/Night (11pm – 7am) two rate tariff.
Kiwi Power	Controlled option with power on Midnight – 7am with a two hour boost during the day.
Night Owl	Controlled option with power on 11pm – 7am only.

3.4 Asset-Specific Line Charges:

Asset-specific Line charges pursuant to this Agreement will be disclosed upon request to the End-Consumer, or the current electricity supplier. Note that the Asset-specific Line Charges include for the injection of Electricity into the Distribution Network and the off-take of Electricity from the Distribution Network.

3.5 Power Factor Charges:

- (a) A power factor charge of \$7.00/kVAr/month will be applied where the End-Consumer's power factor is less than .95.
- (b) Where the kVAr amount represents the largest difference between the kVAr amount recorded in any one ½ hour period and one third of the kW demand recorded in the same ½ hour period. The charge is applicable only during weekdays, between 7 am and 8 pm.
- (c) Note that in the Rotorua, Taupo, and Wellington areas, for those load groups where, part or all of the charge incorporates a component that is based on kVA demand, the reactive charge will not be applied for End-Consumers on these price codes.

3.6 Premium Charge for Load Control Bypass:

- (a) All charges are conditional on the following End-Consumer equipment being permanently wired into the Distributor's Load Management system:
 - Hot water cylinders
 - Electric kilns
 - Swimming pool heaters
 - Spa pool heaters
- (b) A premium charge of 17.00 c/day for load control bypass will apply whenever any of the noted End-Consumer's equipment is not permanently connected to the Distributor's Load Management system. The charge also applies where such load is switched between meters.

3.7 Time Zone Definitions:

	Tauranga	Rotorua	Taupo	Auckland Embedded Networks*	Wellington
Winter	1 May–31 Aug	1 May–30 Sep	1 May–30 Sep	1 May–30 Sep	N/A
Summer	1 Sep–30 Apr	1 Oct–30 Apr	1 Oct–30 Apr	1 Oct–30 Apr	N/A
Day	7am–11pm	7am–11pm	7am–11pm	7am–11pm	7am–11pm
Night	11pm–7am	11pm–7am	11pm–7am	11pm–7am	11pm–7am

Explanatory Note:

1 *Auckland Embedded Networks have other time zone definitions refer to Section 2, clause 4.

3.8 Low Occupancy Homes:

- (a) The introduction of a low fixed charge option provides significant savings for owners of holiday homes, and where homes are occupied for part of the year. The low fixed charge is counter-intuitive to the cost of supply to premises, with over 90% of costs fixed by connected capacity.
- (b) The Distributor will not initially differentiate between “normal” and part time occupancy. However the Distributor fully intends to monitor the revenue streams and impacts of cross-subsidy between End-Consumer line charges resulting from this low fixed option, and will want to review the position with retailers.
- (c) Depending on the outcome of this review, and subject to other Industry-wide initiatives, the Distributor may at a future stage introduce a minimum line charge, based on approximately 150 kWh per month.

3.9 Selection of Load Group and Application of Meter Register Code:

- (a) The load group for 1 and 2 phase 60 Amp and all 20 Amp connections will be nominated by the End-Consumer/retailer. ICPs in this category not allocated to a load group will, by default, be migrated onto the high fixed single meter option (Option High Usage).
- (b) The load group for all other Points of Connection will be set by the Distributor (in consultation with the End-Consumer/Retailer). The load group applicable is generally defined by the capacity of the connection.
- (c) Consumption data will be provided by meter register and load group in accordance with the new pricing structure. Where more than one meter at a premise is in use, but a single variable line charge rate applies, the

consumption data will need to be aggregated before forwarding to the Distributor.

3.10 Load Group Switching:

- (a) The Distributor's \$30 Load Group Change Fee (not applicable to End-Consumers switching retailers provided the End-Consumer remains on the same Load Group), as detailed in Section 5 of this Module 15 is payable by the Retailer when an End-Consumer's Load Group is changed more than once in any 12 month period (ie the fee is payable for the second and each subsequent load group change recorded within a 12 month period).
- (b) The Load Group Change Fee will not be charged in respect of load group changes for the months of April and May 2001.
- (c) The Distributor reserves the right to introduce switching frequency constraints at some time in the future.

4 SPECIFIC CONDITIONS – ELECTRICITY NETWORK

4.1 Tauranga, Rotorua and Taupo Networks:

- (a) Asset-specific charges apply to End-Consumers who require an 11kV feeder or who have their own generation.
- (b) The demand is the measured maximum half-hourly demand during the billing period.

4.2 Auckland Embedded Networks:

These rates apply to those subdivisions embedded within the Vector Limited network, in South Auckland:

- (a) The Commercial rates comprise a Connection Charge, a Demand Charge based on a maximum kVA demand each month, and a variable Transmission Charge.
- (b) Maximum demand (kVA) will be read and charged monthly. The chargeable demand period is deemed as being between 8.00 am and 8.00 pm on Weekdays. kVA demands will be computed from the average of the 10 highest demands measured over 30 minute periods within the chargeable demand period. Note: These may all occur in one day.
- (c) **Multi-rate Meters** - any multi-rate meters in use have to be replaced with

half-hourly loggers.

(d) Connection Charge:

- ❑ **Low Voltage Connection** - connection of supply at low voltage (230V/400V)
- ❑ **Transformer Connection** - connection of supply directly from the low voltage terminals of transformer owned by the Distributor.
- ❑ **High Voltage Connection** - connection of supply at high voltage (6.6kV or 11kV) and the transformer is owned by the End-Consumer.

(e) For End-Consumer's Equipment to which residential and small commercial rates apply:

- ❑ night time units are currently defined as those units consumed between the hours of 10.00 pm and 7.00 am and measured as such by Metering Equipment of a type agreed by the Retailer and the Distributor or failing such agreement, as required by MARIA;
- ❑ day time and anytime units are those measured as such by Metering Equipment of a type agreed by the Retailer and the Distributor or failing such agreement, as required by MARIA.
- ❑ They include:
 - (i) All units measured on single rate meters not specifically designated as measuring night time units; and
 - (ii) All units registered on the daytime register of two rate meters.

4.3 Wellington Networks:

For End-Consumer's Equipment to which End-Consumer Load Group Categories 21G, 22G, and 40G to 49G apply:

- (a) Anytime maximum demand (AMD) is defined as the apparent power in kilovolt-amperes obtained by multiplying by two the apparent energy in kilovolt-ampere hours delivered over the half hour period of maximum consumption during the month to which the Charges apply.
- (b) Coincident maximum demand (CMD) is defined as the apparent power in kilovolt-amperes obtained by multiplying by two the apparent energy in

kilovolt-ampere hours delivered over the half hour period of maximum consumption between the hours of 8.00 am and 10.00 am, and 5.30 pm and 7.00 pm on a working day (but including Anniversary Day) during the month to which the Charges apply.

- (c) The Distributor reserves the right to require active and reactive energy consumption to be measured at any End-Consumer's Equipment at which the Distributor has reasonable grounds to believe the power factor is regularly poorer than 0.95 lagging.
- (d) The chargeable anytime maximum demand (AMD) and the chargeable coincident maximum demand (CMD) for a particular month are quantified as the AMD and CMD measured for the month. For new End-Consumers commencing on this pricing option, the chargeable AMD and chargeable CMD for the first full month will be fixed at a level assessed from available load data and the nature of the End-Consumer's Equipment concerned.
- (e) The assessed installed capacity (AIC) in kVA is quantified as the total nominal capacity of transformer(s) dedicated by the Distributor to supplying the End-Consumer's Equipment. Where the nominal capacity of dedicated transformers clearly exceeds the requirement of the End-Consumer's Equipment, the installed capacity rating may be reduced, by the Distributor, by installing a fuse or current limiting device. This figure may be reassessed at any time by the Distributor and advised in writing to the Retailer. The Distributor may elect to reduce the physical capacity of the dedicated transformers to the size of the assessed rating, on giving one month's notice in writing of its intentions to the Retailer. The AIC charge relates to the Distributor's cost of providing transformers and switchgear for the dedicated use of the End-Consumer. In cases where the End-Consumer owns some or all of the dedicated transformers and/or switchgear, a reduced AIC charge will be determined by the Distributor.

SECTION TWO GAS PRICING SCHEDULE

1 LINE CHARGES

- 1.1 For a definition of points of injection relating to each Network refer to *Section 1, clause 1.2 Definitions of Regional Networks*.
- 1.2 Charge Structure: The Gas Network charge structure is a simple fixed (\$ per day) and variable (c/kWh) price split for the majority of standard gas network line charges. The "Contract" End-Consumers pricing and structure levels are based on negotiated charges for the individual End-Consumers.
- 1.3 The load group for the Gas Network is a combination of the Area Code and the Function Code given in the table below (e.g. for Auckland Residential the load group code is 1G10).
- 1.4 Standard Gas Line Charges.

				Auckland	Hawkes Bay	Palmerston North	Wellington	
		UNL LOAD GROUP	Area Code	1	2	3	4	
		Function Code	Type of Charge					
End-consumer Load Group	Residential - Standard	G10	Fixed (\$/day)	0.2351	0.2555	0.2453	0.2453	
			Variable (c/kWh)	2.37	1.34	2.29	2.96	
	Capacity Group 1 <10 scm/hr	G21	Fixed (\$/day)	0.2147	0.2453	0.2351	0.2249	
			Variable (c/kWh)	2.80	3.76	2.35	3.88	
	Capacity Group 2 10-40 scm/hr	G22	Fixed (\$/day)	0.9301	0.5008	1.0016	0.4804	
			Variable (c/kWh)	2.26	2.54	1.25	3.60	
	Capacity Group 3 40-200 scm/hr	G23	Fixed (\$/day)	6.7555	2.0338	2.5346	6.1014	
			Variable (c/kWh)	1.50	0.86	1.52	2.02	
	Capacity Group 4 200-1000 scm/hr	G24	Fixed (\$/day)	19.4180	5.1100	18.9070	10.2200	
			Variable (c/kWh)	1.33	0.98	1.16	1.75	
	Capacity Group 5 >1000 scm/hr	G25	Fixed (\$/day)	97.0900	61.3200	102.2000	81.7600	
			Variable (c/kWh)	0.97	0.80	0.78	1.12	
	CNG	G27	Fixed (\$/day)	2.4324	1.4206	3.0456	0.4804	
			Variable (c/kWh)	0.91	0.69	1.04	1.56	
	Co-Generation	G31	Fixed (\$/day)					
			Variable (c/kWh)	1.03	1.02	0.98	1.03	
	Contract	G40	Fixed (\$/day)	Individual prices on application through DPR process				
			Variable (c/kWh)					

Explanatory Notes:

- 1 Load Group = Area Code plus Function Code, eg: Auckland Residential Load Group = 1G10
- 2 Converting variable kilowatt-hour (c/kWh) energy rate to Gigajoules (\$/GJ): c/kWh rate divided by 0.36 = \$/GJ e.g.: Converting Load Group 1G10: Variable component = 2.37 / 0.36 = 6.58

SECTION THREE ELECTRICITY PRICING SCHEDULE PART 1
RESIDENTIAL / SMALL COMMERCIAL LOAD GROUPS

INTRODUCTION

The following charges apply to all residential and small commercial 1 and 2 phase 60 Amp and all 20 Amp End-Consumers.

1 RESIDENTIAL/SMALL COMMERCIAL LOAD GROUPS

- 1.1 The structure of the rates for residential/small commercial End-Consumers involves three options. The options are mutually exclusive. Additionally there is a night rate option available for permanently connected appliances.
- 1.2 The Retailer or the End-Consumer may choose the following options: (It is not the Distributor's responsibility to recommend or select an option with this Load Group for any End-Consumer):
- (a) **Option Low Usage** (generally suitable for End-Consumers using less than average annual consumption). This charge consists of a fixed daily charge plus a variable c/kWh charge;
 - (b) **Option High Usage** (generally suitable for End-Consumers using greater than average annual consumption). This charge consists of a fixed daily charge plus a variable c/kWh charge; and
 - (c) **Option Controlled/Uncontrolled** (generally suitable for End-Consumers using greater than average annual consumption). This is a two-meter option, one for general power, the other for permanently wired appliances where supply is interrupted for up to five hours per day.

2 LINE CHARGES

- 2.1 The line charges are summarised in the table below.
- 2.2 For a definition of injection points relating to each Network refer to *Section 1.3.1 Definitions of Regional Networks*.
- 2.3 Both fixed and variable charges apply. For Tariff Option Controlled/Uncontrolled both controlled and uncontrolled variable charges apply.

NETWORK	Tariff Option	Load Group Code		Fixed Charge (c/day)	Variable Charge(s) (c/kWh)			
		Residential	Commercial		Meter Register 1		Meter Register 2	
					Code	Tariff	Code	Tariff
WAITEMATA	Low Usage	W11	W15	11.15	AICO	5.64		
	High Usage	W12	W16	41.22	AICO	3.95		
	Controlled/Uncontrolled	W13	W17	41.22	24UC	4.34	CTRL	3.35
VALLEY	Low Usage	V11	V15	14.47	AICO	7.93		
	High Usage	V12	V16	63.79	AICO	4.93		
	Controlled/Uncontrolled	V13	V17	63.79	24UC	5.41	CTRL	4.19
TAURANGA	Low Usage	T11	T15	11.55	AICO	5.84		
	High Usage	T12	T16	30.63	AICO	4.83		
	Controlled/Uncontrolled	T13	T17	30.63	24UC	5.13	CTRL	4.05
ROTORUA	Low Usage	R11	R15	11.55	AICO	5.84		
	High Usage	R12	R16	30.63	AICO	4.83		
	Controlled/Uncontrolled	R13	R17	30.63	24UC	5.13	CTRL	4.05
TAUPO	Low Usage	P11	P15	11.65	AICO	5.89		
	High Usage	P12	P16	51.47	AICO	3.72		
	Controlled/Uncontrolled	P13	P17	51.47	24UC	3.91	CTRL	3.10
WELLINGTON	Low Usage	G11	G15	10.83	AICO	5.47		
	High Usage	G12	G16	19.70	AICO	5.09		
	Controlled/Uncontrolled	G13	G17	19.70	24UC	5.42	CTRL	4.27
Optional Variable Charge for Night supply only (see notes below):								
ALL REGIONS	Night				NITE	1.27		

Explanatory Note:

AICO All Inclusive Controlled
24UC 24 hour uncontrolled
CTRL Controlled Rate
NITE Night Rate

2.4 Refer to section 1 clause 3.3 for a detailed description of all the variable charge options.

- (a) Tariff Option Controlled/Uncontrolled is only available for End-Consumers with two or more meters. Both controlled and uncontrolled variable rates apply.
- (b) Controlled rate conditional on End-Consumer equipment (hot water cylinders, electric kilns, swimming and spa pool heaters) being permanently wired to a separate controlled meter.
- (c) Night rate only available for appliances permanently wired to a separate

meter.

3 AUCKLAND NETWORK

3.1 Residential End-Consumer Charges

3.2 Both fixed and variable charges apply.

(a) Fixed Charges

Load Group	Description	\$/day
12A	Residential supply – 0-15kVA	0.54

(b) Variable Charges

Description	Pattern Class non-tou	Load Group 12A c/kWh
All inclusive controlled	AIC0	2.85
Night owl (8 hours) controlled	CNO8	2.85
Tui controlled/smartsaver day	CTUD	2.85
Tui controlled/smartsaver night	CTUN	2.85

SECTION FOUR ELECTRICITY PRICING SCHEDULE PART 2 UNMETERED/LARGE COMMERCIAL/INDUSTRIAL LOAD GROUPS

INTRODUCTION

This section applies to unmetered, large Commercial and Industrial Electricity Load Groups. Line charges contain a mixture of fixed and variable rates. The load group generally defines the fixed rates. A load group is an End-Consumer category based predominantly on the capacity of the Network connection.

Within each load group there may be more than one variable rate available for use. The End-Consumer and retailer agree on the type of supply desired (e.g. continuous, time of use, controlled).

1 GENERAL CONDITIONS

- 1.1 The price schedules are set out separately for each Network;
- 1.2 For each Network the rates are separated by fixed/demand and variable (c/kWh);
- 1.3 The first table in each group identifies the load groups, and the means by which End-consumers are classified to that load group. For example in the Waitemata network the classification is by fuse size, in the Tauranga and Rotorua networks it is by a combination of capacity and for small users by kWh per annum;
- 1.4 The second table gives the variable rates available for each load group;
- 1.5 Thus for each variable pricing component there will be a unique load group plus meter register code combination. For some load groups it will be possible for a End-Consumer to be connected to multiple supply options, each with its own meter register. Such an ICP will have one load group with multiple meter register codes;
- 1.6 Each monthly volume quantity submitted will then incorporate for that ICP a volume for each selected variable line charge category. Each volume will then be associated with a meter register code as per the schedules;
- 1.7 Where a half hourly meter is fitted, there will only be one pattern class, where there is no variable rate the pattern class will still need to be included with the half hourly volume, the billing process will not calculate any variable component.

2 UNMETERED LINE CHARGES

For a definition of points of injection relating to each Network refer to *Section 1, clause 1.2 Definitions of Regional Networks*.

2.1 Unmetered Supplies and Streetlighting

Network	Load Group	Description	Charge c/kWh
Waitemata	W01	Un-metered supply other than streetlighting	9.20
	W02	Un-metered streetlighting	9.20
Valley	V01	Un-metered supply other than streetlighting	7.70
	V02	Un-metered streetlighting	7.70
		Un-metered streetlighting fittings owned by UNL	Refer to note 3
Auckland	A01	Un-metered supply other than streetlighting	9.20
	A02	Un-metered streetlighting	9.20
Tauranga	T01	Un-metered supply other than streetlighting	7.00
	T02	Un-metered streetlighting	7.00
Rotorua	R01	Un-metered supply other than streetlighting	7.00
	R02	Un-metered streetlighting	7.00
Taupo	P01	Un-metered supply other than streetlighting	7.00
	P02	Un-metered streetlighting	7.00
Wellington*	G01	Un-metered supply other than streetlighting	12.00
	G02	Un-metered streetlighting	12.00

Explanatory Note:

- 1 Unmetered Supply other than Streetlights:
Consumption will be determined on a case-by-case basis, dependent on load profile. A minimum load factor of 10% will be applied to the input wattage.
- 2 Unmetered Streetlights:
Consumption will be determined by multiplying the input wattage with the number of night hours as published by the MetService.
- 3 Maintenance Charge for Valley Streetlights where fittings are owned by the Distributor
A charge of \$0.044 per light per day, additional to the V02 charge, will apply where the streetlight fittings are owned by UNL.
- 4 Wellington charge is consistent for both North and South networks

2.2 Temporary Builders' Supply Charges

Network	Load Group	Description	Charge
Waitemata	08W	Single Phase 60 Amp	\$1.23 per day
	09W	Three Phase 60 Amp	\$3.49 per day
Valley	08V	Single Phase 60 Amp	\$1.23 per day
	09V	Three Phase 60 Amp	\$3.49 per day
Auckland	08A	Single Phase 60 Amp	\$40 per connection for 4 months plus \$15 per Month thereafter
		Three Phase 60 Amp	Metered Connection is required
Tauranga	08T	Single Phase 60 Amp	\$40 per connection for 4 months plus \$15 per Month thereafter
		Three Phase 60 Amp	Metered Connection is required
Rotorua	08R	Single Phase 60 Amp	\$40 per connection for 4 months plus \$15 per Month thereafter
		Three Phase 60 Amp	Metered Connection is required
Taupo	08P	Single Phase 60 Amp	\$40 per connection for 4 months plus \$15 per Month thereafter
		Three Phase 60 Amp	Metered Connection is required
Wellington	08G	Single Phase 60 Amp	\$151 initial charge for first 6 months (incl connection) \$81 renewal charge for further 6 months
	09G	Three Phase 60 Amp	\$216 initial charge for first 6 months (incl connection) \$146 renewal charge for further 6 months

Special Conditions for all Networks (excluding Wellington)

- ❑ Where a temporary builders supply is connected to the Network, a fixed charge will apply:
 - (i) The Distributor will provide Line Function Services for a period of up to three months;
 - (ii) The Account Service fee prescribed in this Schedule will also apply; and
 - (iii) For extensions beyond the initial three-month period, the same charge will apply, except that the Account Service fee will not apply for any such extension.

- ❑ For premises requiring capacity in excess of 60 Amps, a metered connection is necessary. Charges are in accordance with the Line Charges in Section Two

or Three of this Module 15.

2.3 Commercial/Industrial Line Charges

For a definition of points of injection relating to each Network refer to *Section 1, clause 1.2 Definitions of Regional Networks*.

The following charges apply to commercial/industrial consumers not covered under Section 3.

(a) **WAITEMATA NETWORK**
Both fixed and variable charges apply

(i) Fixed Charges

Load Group	Description	\$/day
23W	Commercial three phase 60A	2.17
24W	Commercial three phase 100A	7.83
25W	Commercial three phase 160A	13.97
26W	Commercial three phase 200A	20.12
40W	Commercial greater than 200A	p.o.a
60W	Greater than 1,500 kVA individually priced	p.o.a

Explanatory Note:

For End-Consumers with a capacity of greater than 160 Amps and with a dedicated transformer, the line charges will be based on the 40W load group.

(ii) Variable Charges

Load Group	Description	Meter Register Code non-tou	Meter Register Code tou	c/kWh
23W	All inclusive controlled	AICO		1.88
24W	All inclusive controlled	AICO		1.52
25W	All inclusive controlled	AICO		1.40
26W	All inclusive controlled	AICO		1.27
40W	All inclusive controlled		TAIC	0
60W	All inclusive controlled		TAIC	0

Explanatory Note:

Load groups 25W and 26W will be transferred to half-hourly metering over time. (Meter Register Code AICO should be used for profiled sites through the transition.)

(b) **AUCKLAND NETWORKS**
The line charge includes capacity, demand and variable components

(i) Fixed Charges:

Capacity Charge

Load Group	Description	1 st 1,000 kVA \$/kVA/month	Remainder \$ / kVA / month
20A	Commercial low voltage single phase connection	1.4235	
40A	Commercial 3 phase/transformer connection –zone 1	1.1619	0.6844
43A	Commercial high voltage supply –zone 1	0.9095	0.4958
41A	Commercial 3 phase/transformer connection –zone 2	1.1619	0.9186
44A	Commercial high voltage supply –zone 2	0.9095	0.7300
42A	Commercial 3 phase/transformer connection –zone 3	1.1619	1.0433
45A	Commercial high voltage supply –zone 3	0.9095	0.8547

Demand Charge

Load Group	Description	1 st 1,000 kVA \$/kVA/day	Remainder \$ / kVA / day
20A	Commercial low voltage single phase connection –	0.2122	
40A	Commercial 3 phase/transformer connection –zone 1	0.2122	0.1015
43A	Commercial high voltage supply –zone 1	0.2122	0.1015
41A	Commercial 3 phase/transformer connection –zone 2	0.2122	0.1556
44A	Commercial high voltage supply –zone 2	0.2122	0.1556
42A	Commercial 3 phase/transformer connection –zone 3	0.2122	0.1938
45A	Commercial high voltage supply – zone 3	0.2122	0.1938

(ii) Variable Charges:

Description	Meter Register Code non-tou	c/kWh
Summer night (2300-0700)	TAIC	0.18
Summer day (0700-2300)		0.65
Winter night (2300-0700)		0.18
Winter day (0700-2300)		3.65

(c) **VALLEY NETWORK**
Both fixed and variable charges apply

(i) Fixed Charges:

Load Group	Description	\$/day
23V	Commercial three phase 60A	3.55
24V	Commercial three phase 100A	9.94
25V	Commercial three phase 160A	15.49
26V	Commercial three phase 200A	21.05
40V	Commercial greater than 200A	p.o.a
60V	Greater than 1,500 kVA individually priced	p.o.a

Explanatory Note:

For End-Consumers with a capacity of greater than 160 Amps and with a dedicated transformer the line charges will be based on the 40V load group.

(ii) Variable Charges:

Load Group	Description	Meter Register Code non-tou	Meter Register Code tou	c/kWh
23V	All inclusive controlled	AICO		2.44
24V	All inclusive controlled	AICO		1.90
25V	All inclusive controlled	AICO		1.68
26V	All inclusive controlled	AICO		1.46
40V	All inclusive controlled		TAIC	0
60V	All inclusive controlled		TAIC	0

Explanatory Note:

Load groups 25V and 26V will be transferred to half-hourly metering over time. (Meter Register Code AICO should be used for profiled sites through the transition.)

(d) **TAURANGA NETWORK**
COMMERCIAL CONSUMERS (FOR SUPPLY WITH CONNECTED CAPACITY BELOW 100 KVA)
Both fixed and variable charges apply

(i) Fixed Charges

Load Group	Description	\$/day
20T	Commercial with capacity less than 100 kVA	1.1226

(ii) Variable Charges

Closed Categories	Description	Meter Register Code non-tou	Load Group 20T c/kWh
	24 hour supply uncontrolled	24UC	4.70
	Controlled (standard/17 hours on)	CT17	1.50
	Controlled 17 hours on day	C17D	1.61
	Controlled 17 hours on night	C17N	1.03
	Controlled 19 hours on	CT19	2.27
	Controlled 19 hours on day	C19D	2.54
	Controlled 19 hours on night	C19N	1.03
	Interrupted	INTR	4.31
	Kiwi power (9 hours) controlled	CKP9	1.25
	Night owl (8 hours) controlled	CNO8	1.03
	Tui controlled/smartsaver day	CTUD	5.76
	Tui controlled/smartsaver night	CTUN	1.03
Closed	On peak controlled	CTON	16.63
Closed	Off peak controlled	CTOF	4.16

TAURANGA NETWORK

COMMERCIAL AND INDUSTRIAL CONSUMERS (FOR SUPPLY WITH CONNECTED CAPACITY OF 100 KVA AND ABOVE)

The line charge includes fixed service, transformer capacity, and variable components

(i) Fixed Charges

Fixed Service Charge (except load group 60T) - \$1,313 per annum

Transformer Capacity Charges

Load Group	Description	\$/year
21T	Transformer capacity 100 kVA	887
22T	Transformer capacity 100 kVA unitised	936
23T	Transformer capacity 150 kVA	1,055
24T	Transformer capacity 150 kVA unitised	1,133
40T	Transformer capacity 200 kVA	1,223
41T	Transformer capacity 200 kVA unitised	1,330
42T	Transformer capacity 300 kVA	1,631
43T	Transformer capacity 300 kVA unitised	1,767

Load Group	Description	\$/year
44T	Transformer capacity 500 kVA	1,950
45T	Transformer capacity 500 kVA unitised	2,406
46T	Transformer capacity 750 kVA	2,588
47T	Transformer capacity 750 kVA unitised	3,201
48T	Transformer capacity 1,000 kVA	2,785
49T	Transformer capacity 1,000 kVA unitised	3,652
60T	Individually priced End-Consumers	p.o.a

Explanatory Note:

Asset-specific charges apply to End-Consumers who require a dedicated 11kV feeder or who have their own generation. Unitised charge applies where a transformer is self contained within a housing, with associated isolation equipment.

(ii) Variable Charges:

For all load groups except 60T

Description	Meter Register Code tou	c/kWh
Summer night (2300-0700)	TAIC	0.6
Summer day (0700-2300)		2.21
Winter night (2300-0700)		0.8
Winter day		3.87
Winter morning peak (0800-1100)		8.18
Winter evening peak (1700-2000)		14.11

Explanatory Note:

For load group 60T – variable charge = 0, volumes to be submitted monthly using Meter Register Code "TAIC".

(e) **ROTORUA NETWORK**

Small to Medium Commercial End-Consumer Charges

Both fixed and variable charges apply.

(i) Fixed Charges:

Load Group	Description	\$/day
19R	Commercial greater than 12,000 kWh pa 0-15kVA	1.2009
21R	Commercial three phase 100A, 69 kVA 0-69kVA	1.2418

(ii) Variable Charges:

Closed Categories	Description	Meter Register Code non-tou	Load Group 19R c/kWh	Load Group 21R c/kWh
	24 hour supply uncontrolled	24UC	1.60	5.15
	Controlled (standard/17 hours on)	CT17	0.45	
	Kiwi power (9 hours) controlled	CKP9	0.13	1.89
	Night owl (8 hours) controlled	CNO8	0.13	1.49
	Controlled 19 hours on	CT19		3.30
	Tui controlled/smartsaver day	CTUD		5.46
	Tui controlled/smartsaver night	CTUN		1.49
closed	economy eight controlled	CEC8		1.54
closed	super 10 controlled	CS10		1.71
closed	storage controlled	CSTO		3.43

ROTORUA NETWORK

Large Commercial and Industrial End-Consumers with Capacity of up to 200 AMP

Both fixed and variable charges apply

(i) Fixed Charges:

Load Group	Description		\$/day	\$/kVA capacity /month
22R	Commercial three phase 150A, 104 kVA (closed)		9.12	
23R	Commercial three phase 200A, 138 kVA (closed)		9.12	
24R	Commercial three phase 150-200A, 70-149 kVA		4.02	2.8610

Explanatory Note:

Contact the Distributor for determination of assessed capacity.

(ii) Variable Charges:

Description	Meter Register Code non-tou	Load Group 22R c/kWh	Load Group 23R c/kWh	Load Group 24R c/kWh
24 hour supply uncontrolled	24UC	3.4	4.36	2.27
Controlled (standard/17 hours on)	CT17	3.4	4.36	1.21

Night owl (8 hours) controlled	CNO8			0.97
Tui controlled/smartsaver day	CTUD			2.65
Tui controlled/smartsaver night	CTUN			1.01

ROTORUA NETWORK

Commercial and Industrial End-Consumers (for Supply with Connected Capacity of 100 Kva and above)

The line charge for each load group is inclusive of the fixed, , transformer capacity, demand and variable components

(i) Fixed Charges:

Fixed Service Charge (for all load groups except 60R) - \$2,317 per annum

❑ Transformer Capacity Charge

Load Group	Description	\$/year
25R	Transformer capacity 100 kVA	949
26R	Transformer capacity 100 kVA unitised	1001
27R	Transformer capacity 150 kVA	1129
28R	Transformer capacity 150 kVA unitised	1212
40R	Transformer capacity 200 kVA	1308
41R	Transformer capacity 200 kVA unitised	1423
42R	Transformer capacity 300 kVA	1745
43R	Transformer capacity 300 kVA unitised	1890
44R	Transformer capacity 500 kVA	2086
45R	Transformer capacity 500 kVA unitised	2573
46R	Transformer capacity 750 kVA	2768
47R	Transformer capacity 750 kVA unitised	3424
48R	Transformer capacity 1,000 kVa	2979
49R	Transformer capacity 1,000 kVA unitised	3906
60R	Individually priced End-Consumers	p.o.a

Explanatory Note:

Asset specific charges apply to End-Consumers who require a dedicated 11 kV feeder or who have their own generation. Unitised charge applies where a transformer is self-contained within a housing, with associated isolation equipment.

(ii) Demand Charge:

For all load groups except 60R \$4.6541/kVA/month

(iii) Variable Charges:

For all load groups except 60R

Description	Meter Register Code tou	c/kWh
Summer day (0700-2300)	TAIC	1.22
Winter day (0700-2300)		2.17
Night		0.74

Explanatory Note:

For load group 60R – variable charge = 0, volumes to be submitted monthly using Meter Register Code “TAIC”.

(f) **TAUPO NETWORK**
Commercial End-Consumer Charges
Both fixed and variable charges apply

(i) Fixed Charges:

Load Group	Description	\$/kVA / capacity/day
22P	Commercial 10-99 Kva	0.084

Explanatory Note:

Contact the Distributor for determination of assessed capacity.

(ii) Variable Charges:

Closed Categories	Description	Meter Register Code non-tou	Load Group 22P c/kWh
	24 hour supply uncontrolled	24UC	3.02
	Controlled 19 hours on	CT19	0.70
	Interrupted	INTR	2.03
	Night owl (8 hours) controlled	CNO8	0.50
	Tui controlled/smartsaver day	CTUD	3.75
	Tui controlled/smartsaver night	CTUN	0.50
	Weekday 0700-2300	WDO7	4.49
	Weekend/night	WENT	1.39

TAUPO NETWORK

Commercial and Industrial End-Consumers (for supply with Connected Capacity of 100 kVA and above)

The line charge for each load group is inclusive of the fixed, transformer capacity, demand, and variable components.

- (i) Fixed Charges:
Fixed Service Charge (all load groups except 60P) - \$2,307 per annum

Transformer Capacity Charge

Load Group	Description	\$/year
23P	Transformer capacity 100 kVA	945
24P	Transformer capacity 100 kVA unitised	996
25P	Transformer capacity 150 kVA	1124
26P	Transformer capacity 150 kVA unitised	1207
40P	Transformer capacity 200 kVA	1303
41P	Transformer capacity 200 kVA unitised	1417
42P	Transformer capacity 300 kVA	1738
43P	Transformer capacity 300 kVA unitised	1882
44P	Transformer capacity 500 kVA	2077
45P	Transformer capacity 500 kVA unitised	2562
46P	Transformer capacity 750 kVA	2756
47P	Transformer capacity 750 kVA unitised	3410
48P	Transformer capacity 1,000 Kva	2966
49P	Transformer capacity 1,000 kVA unitised	3889
60P	Individually priced End-Consumers	p.o.a

Explanatory Note:

Asset specific charges apply to End-Consumers who require a dedicated 11 kV feeder or who have their own generation. Unitised charge applies where a transformer is self contained within a housing, with associated isolation equipment

- (ii) Demand Charge:
For all load groups except 60P \$4.6342/kVA/month

- (iii) Variable Charges:
For all load groups except 60P

Description	Meter Register Code tou	c/kWh
Summer day (0700-2300)		1.21

Winter day (0700-2300)		2.16
Night		0.74

Explanatory Note:

For load group 60P – variable charge=0, volumes to be submitted monthly using Meter Register code "TAIC".

(g) **WELLINGTON NORTH AND SOUTH NETWORKS**
Commercial Consumer Charges
Both fixed and variable charges apply

(i) Fixed Charges:

Load Group	Description	\$/day	CMD Charge \$/kVA/month	AMD Charge \$/kVA/month
20G	Commercial anytime supplies	0.8381		
20GC	Commercial anytime supplies, with controlled water heating	0.8306		
21G	Commercial 400V >55kVA – North network		4.57	10.95
22G	Commercial 400V >55kVA – South network		4.57	12.55

Explanatory Note:

AIC = Assessed Installed Capacity

AMD = Anytime Maximum Demand

CMD = Coincident Maximum Demand

For load groups 21G and 22G both the CMD and AMD charges apply.

(ii) Variable Charges

Load Group 20G and 20GC only

Description	Meter Register Code non-tou	Load Group 20G, 20GC c/kWh
24 hour supply uncontrolled	24UC	6.74
Controlled (standard/17 hours on)	CT17	3.43
Tui controlled/smartsaver day	CTUD	7.59
Tui controlled/smartsaver night	CTUN	2.56
Night	NITE	1.28
Premium plan	PREM	6.74

Explanatory Note:

For load groups 21G and 22G – variable charge = 0, volumes to be submitted monthly using Meter Register Code "TAIC".

WELLINGTON NORTH AND SOUTH NETWORKS
Large Commercial and Industrial End-Consumer Charges

Load Group	Description	AIC Charge \$/kVA/ month	CMD Charge \$/kVA/ month	AMD Charge \$/kVA/ month
40G	North 11kV, 400V metered shared transformer connection		3.92	10.34
41G	North 11kV, 400V metered dedicated transformer connection	0.60	3.92	9.25
42G	North 11kV, 11kV metered dedicated transformer connection	0.60	3.87	8.95
43G	North greater than 1000kVA, 400V metered	0.50	3.92	8.59
44G	North greater than 1000kVA, 11kV metered	0.50	3.87	8.41
45G	South 11kV, 400V metered shared transformer connection		3.92	10.43
46G	South 11kV, 400V metered dedicated transformer connection	0.60	3.92	9.67
47G	South 11kV, 11kV metered dedicated transformer connection	0.60	3.87	9.44
48G	South greater than 1000kVA, 400V metered	0.50	3.92	9.26
49G	South greater than 1000kVA, 11kV metered	0.50	3.87	9.14
60G	Individually priced End-Consumers			

Explanatory Note:

- 1 AIC = Assessed Installed Capacity
- 2 AMD = Anytime Maximum Demand
- 3 CMD = Coincident Maximum Demand
- 4 For load groups 40G and 45G the AMD and CMD charges apply.
- 5 For load groups 41G to 44G and 46 to 49G the AIC, AMD and CMD charges all apply.
- 6 For load group 40G to 49G and 60G – variable charge = 0, volumes to be submitted monthly using Meter Register Code "TAIC".

Embedded Generation

- 2.4 Each generator connected to the Network will be subject to a separate agreement. The line charge will be calculated in accordance with the prevailing pricing policy, the line charge will be dependent upon location, the type of connection, the size of the generator and operating pattern.

SECTION FIVE OTHER CHARGES

All other charges will be invoiced directly to the Retailer by the Distributor and not to the End-Consumer.

	FEE	Electricity Charge	Gas Charge
1	LOAD GROUP CHANGE FEE:		
1.1	Payable by the Retailer when an End-Consumer's Load Group is changed more than once in any 12 month period.	\$30 per Point of Connection (payable for the second and each subsequent instance)	N/A
2	NON-NETWORK FAULT CALLOUT FEE:		
2.1	Payable when a Retailer requests a fault service call via the National Service Desk that, upon investigation, is determined to be a Non-Network Fault (ie a fault on the End-Consumer's Equipment). A repair option may be offered directly to the End-Consumer and, if accepted, costs including the callout charge will be recovered from the End-Consumer and the Retailer will not be charged this fee.	\$30 per callout	\$30 per callout
3	NEW CONNECTION FEE – ELECTRICITY:		
3.1	This fee is payable when the Distributor: (a) energises a new Point of Connection for the first time, by inserting the fuse; or (b) re-energises the Point of Connection where the End-Consumer's Equipment has been materially modified.	\$30 per Point of Connection	N/A
4	NEW CONNECTION FEE – GAS:		
4.1	A fee may be charged at market rates for time and materials where the Distributor is required to connect the service main to the meter to complete the new connection.	N/A	Price on Application
5	TEMPORARY DISCONNECTION FEE:		
5.1	This fee is payable when the Retailer requests a Temporary Disconnection for completion within one working day. The Retailer may specify a target time for a working day between 8am and 5pm. The service includes reconnection.	\$30 per Point of Connection plus \$30 reconnection only if a second visit is required	\$30 per Point of Connection plus \$30 reconnection only if a second visit is required
6	URGENT / AFTER HOURS TEMPORARY DISCONNECTION FEE:		

6.1	This fee is payable when the Retailer requests a Temporary Disconnection for urgent completion on an “as soon as possible” basis or where the service is required outside of the hours specified for the non-urgent service. The service will be completed by the first available field resource. The service includes reconnection.	\$60 per Point of Connection plus \$30 reconnection only if a second visit is required	\$60 per Point of Connection plus \$30 reconnection only if a second visit is required
7 7.1	VACANT SITE DISCONNECTION FEE: This fee is payable when the Retailer requests a Vacant Site Disconnection for completion within one working day. The service does not include reconnection.	\$30 per Point of Connection	\$30 per Point of Connection
8 8.1	VACANT SITE RECONNECTION FEE: This fee is payable when the Retailer requests reconnection of a Point of Connection that has been disconnected by a Vacant Site Disconnection. The service will be completed within one working day, so long as the Retailer has advised that appropriate inspections have been completed where the Point of Connection has been de-energised for a period exceeding 6 months.	\$30 per Point of Connection	\$30 per Point of Connection
9 9.1	PERMANENT DISCONNECTION FEE – ELECTRICITY: This fee is payable when the Distributor removes the fuse and disconnects the service main at a decommissioned Point of Connection.	\$30 per Point of Connection	N/A
10 10.1	PERMANENT DISCONNECTION FEE – GAS: A fee may be charged at market rates for time and materials when the Distributor removes the Retailer’s meter and/or caps the service main at a decommissioned Point of Connection.	N/A	Price on application
11 11.1	CHANGE OF CAPACITY FEE – ELECTRICITY: This fee is payable when the capacity change can be completed by changing fuse size within the existing fuse holder. Work in excess of this will be charged directly to the End-Consumer on a time and materials basis at market rates.	\$30 per Point of Connection.	N/A
12 12.1	TELENET SERVICE FEE - GAS: Daily Data Download Information and/or Point of Connection Monitoring.	N/A	Price on application
13 13.1	FAX AND EMAIL WORK REQUEST TRANSACTION FEE: This is payable where the Retailer chooses not to request services from the Distributor using the Distributor’s LineLogix™ or FTP communication process and instead uses email and fax communication. The fee will not be charged until the Distributor has made the LineLogix™ system available for use.	\$15 per inbound request	\$15 per inbound request
14 14.1	LATE, INCORRECT OR INCOMPLETE CONSUMPTION DATA FEE: This fee is payable where consumption data required in this Agreement from the Retailer to the Distributor does not comply with the requirements of this Agreement. It will be charged on the basis of the actual time spent by a billing analyst to review, correct, validate and reconcile the information.	\$90 per hour	\$90 per hour

All Non-Network Fault work, or Retailer or End-Consumer services not listed above will be charged to the Retailer on a time and materials basis at market rates.

SECTION SIX	LOSS FACTORS
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1 UNACCOUNTED FOR GAS

1.1 Losses and Loss Factors may be reviewed and may be amended by the Distributor from time to time, on reasonable notice to the Retailer, to ensure that they reflect Unaccounted For Gas on the Network as accurately as possible.

2 ELECTRICITY NETWORK LOSS FACTORS

2.1 General Conditions

- ❑ Losses and Loss Factors may be reviewed and may be amended by the Distributor from time to time, on reasonable notice to the Retailer, to ensure that they reflect unaccounted for electricity on the Network as accurately as possible.
- ❑ Currently the Loss Factors are described in the Tables provided.

2.2 Waitemata and Valley Networks

- (a) **For Points of Connection supplied from the Points of Supply at Albany, Henderson, Hepburn Road, and Wellsford.**

End-Consumer Category	Metering Voltage	Loss Factors
For Connection capacity of 60 Amp or less (including un-metered connections)	Low voltage	1.0527
For Connection capacity of greater than 60 Amp, up to and including 160 Amp	Low voltage	1.0425
For Connection capacity 200 amp and greater	Low voltage	1.0355
For Connection capacity greater than 200 Amp	High voltage	1.0210
60W individually priced End-Consumers		Site specific (default 1.0210)

(b) For Points of Connection supplied from Points of Supply at Hinuera, Kinleith, Kopu, Waihou and Waikino

End-Consumer Category	Metering Voltage	Loss Factors
For Connection capacity of 60 Amp or less (including un-metered connections)	Low voltage	1.0654
For Connection capacity of greater than 60 Amp, up to and including 160 Amp	Low voltage	1.0535
For Connection capacity 200 amp and greater	Low voltage	1.0465
For Connection capacity greater than 200 Amp	High voltage	1.0320
60V individually priced End-Consumers		Site specific (default 1.0320)

Explanatory Note:

- 1 Loss Factors will be applied to the metered energy consumption measured at the Point of Connection.
- 2 Loss Factors applicable to 60W and 60V End-Consumers are calculated on a site by site basis.
- 3 **“Low Voltage”** means metered at 230V single phase or 400V three phase , or un-metered;
- 4 **“High Voltage”** means metered at 6.6kV or higher voltage;

2.3 Auckland, Tauranga, Rotorua, and Taupo Networks

(a) Tauranga, Taupo, and Rotorua Areas

Capacity and Voltage Connection	Factor 33KV GXP	Factor 11KV GXP
Low Voltage Single Phase Connection metered at Low Voltage	1.070	1.065
Low Voltage Three Phase Connection metered at Low Voltage	1.070	1.065
Transformer Connection metered at Low Voltage	1.048	1.043
High Voltage Connection metered at Low Voltage	1.048	1.043
Transformer Connection metered at High Voltage	1.033	1.028
High Voltage Connection metered at High Voltage	1.033	1.028

(b) **Auckland Networks**

Capacity and Voltage Connection	Factor
Low Voltage Single Phase Connection metered at Low Voltage	1.062
Low Voltage Three Phase Connection metered at Low Voltage	1.062
Transformer Connection metered at Low Voltage	1.040
High Voltage Connection metered at Low Voltage	1.040
Transformer Connection metered at High Voltage	1.024
High Voltage Connection metered at High Voltage	1.024

Explanatory Note:

- 1 **“Low Voltage”** means 230V single phase or 400V three phase metered;
- 2 **“High Voltage”** means metered at 6.6kV or higher voltage.

2.4 Wellington North and South Networks

Capacity and Voltage Connection	Factor
All 400 V supplied End-Consumers, including street lighting	1.0649
All 11 kV supplied End-Consumers metered at 400 V	1.0280
All 11 kV supplied End-Consumers metered at 11 Kv	1.0146

Explanatory Note:

- 1 **“Low Voltage”** means 230V single phase or 400V three phase metered;
- 2 **“High Voltage”** means metered at 6.6kV or higher voltage;
- 3 Loss Factors will be reviewed and may be amended by the Distributor from time to time to ensure that they reflect unaccounted for electricity on the Network as accurately as possible.