



CM0001

Pricing Policy and Schedules for 2018 to 2019

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CM0001 Pricing Policy and Schedules 2018 to 2019

Overview

Document status

Draft In Service Under Review Archived

Document purpose

The purpose of this policy document is to explain:

- what delivery price options Unison is able to offer users of its network
- which users can access which option, what they will pay from 1 April 2018, and
- what if any operational conditions apply to enable practical day-to-day use of each available option.

The information outlined in this document is intended to work in conjunction with the current Use of System Agreements between Unison and retailers.

This Pricing Policy covers Unison's delivery prices and any other charges for using Unison's network. Unison's delivery prices cover the costs of using its network to provide energy to end-consumers. This covers the two essential activities of energy distribution:

- the costs of transmission for moving the energy Unison's customers need from across the national grid to network, and
- the costs of distributing that electricity over Unison's network assets until it reaches Unison's ends users.

Unison charges do not cover the retail charges billed by a retailer.

Intended audience

This document applies to all Unison retailers on the distribution network.

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Key dates

Published Date 31/03/2018

Continued on next page

Overview, Continued

Related references

Unison complies with the following key legislation in setting and communicating its charges.

Legislation

- Electricity (Low Fixed Charge Tariff Option for Domestic Consumers) Regulations 2004
- Goods and Services Tax Act 1985
- Electricity Industry Act 2010
- Consumer Guarantees Act 1993
- Electricity Distribution Services Default Price-Quality Path Determination 2015
- Electricity Industry Participation Code 2010
- Electricity Distribution Information Disclosure Determination 2012 (consolidated in 2015)

Other

The delivery prices specified on Unison's website www.unison.co.nz sets out the dollar values for its various price categories and price options described in this Pricing Policy. These are effective from 1 April 2018. Where there is a discrepancy between the published prices and those included in this policy, the prices published in Unison's schedule of electricity distribution prices rates on Unison's website prevail.

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Continued on next page

Overview, Continued

Content This document contains the following topics:

Topic	See Page
1. Definitions/Abbreviations.....	5
2. Conditions Common to All Pricing Groups	11
3. Explanation of Price Codes	14
4. Description of End-Consumer Price Options	18
5. Selection of Price Category and Price Category Switching.....	25
6. Unmetered Pricing	27
7. Temporary Supply Pricing	30
8. General Conditions for Residential and General End-consumers.....	32
9. Residential Pricing	34
10. General Price Category.....	48
11. Commercial Pricing.....	52
12. Large Consumer Pricing	62
13. Load Management System – Technical Specification	64
14. Billing and Settlement Process.....	69
15. Other Charges	73
16. Loss Factors	76
Appendix A – Summary of Document Changes	77

1. Definitions/Abbreviations

Anytime Maximum Demand (AMD)	Anytime Maximum Demand – is a measure of end-consumers’ peak use of Unison’s network at any time in a given month. It is measured in kilowatts (kW), which Unison calculates by multiplying by two the energy in kilowatt-hours (kWh) Unison delivers over the half hour period when the end-consumer’s peak use of Unison’s network occurred in that month.
Connection	Refer to the ICP definition.
Consumption data	Data provided to Unison by the retailer over time telling Unison how much electricity they estimated or read (measured) that their end users consumed on Unison’s distribution network.
Controlled price option or controlled price	A price option available where consumers have a meter installation that allows Unison to control the volume and timing of part or all of electricity used and recorded against a metering channel. Refer to the load management services definition and <i>point 2.5</i> for what type of use may be controlled under these price options.
Customer	A direct customer of Unison’s receiving line function services or a retailer whose end-customers use Unison’s (the distributor) network.
Delivery charges	The charges set and collected by Unison as the distributor for the use of its network as laid out in this Pricing Policy.
Demand	The rate at which electricity is being used expressed in kilowatts (kW).
Distributor	Unison is the distributor. Unison owns and operates the distribution network that delivers the electricity covered by this policy.
DG	Distributed Generation – see below for definition of embedded or distributed generation.

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Definitions/Abbreviations, Continued

Electricity Industry Participation Code	The Rules made by the Electricity Authority under section 36 of the Electricity Industry Act 2010 as amended from time-to-time.
Electric vehicles (EV)	Electric vehicles are motor vehicles partially or solely powered by an electric motor connected to a rechargeable electric battery.
Embedded Generation or Distributed Generation	Electricity generation that is connected and distributed within the Unison's network.
End-consumer	The person who buys their electricity from a retailer and has that electricity delivered to them via Unison's network.
General end-consumer	An end-consumer who only needs low capacity/low voltage, but does not qualify for Unison's Residential options (see <i>point 2.4</i> for details), qualifies for Unison's NDL, NDH or TCU price options.
Grid Exit Point (GXP)	A point of connection where Unison's network connects to, and receives electricity from the national transmission system run by Transpower.
GST	Goods and Services Tax as defined in the Goods and Services Tax Act 1985.
Half hourly meter	Metering that measures electricity consumption every half hour. These meters must comply with part 10 of the Electricity Industry Participation Code. The meter may or may not measure kVArh.
High Voltage (HV)	Voltage above 1,000 volts (generally 11,000 volts) for supply to end-consumers.

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Definitions/Abbreviations, Continued

Installation Control Point (ICP) Point of connection on Unison’s network, which:

- Unison nominates as the point where an end-consumer receives the electricity Unison delivers, and
- the connection point has the attributes set out in the Electricity Industry Participation Code 2010.

Interest rate 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 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.

kVA Kilovolt Amp – a unit of measure for how much power is being provided through a business or home’s electrical circuits or technology.

kVA_r Kilovolt-Amps reactive – a measure of how efficiently power flows or is used between Unison’s network and end-consumers technology. It measures the lag between the flow (current) of electricity and the pressure (voltage) of that flow along an end-consumer’s electrical circuit.

kVA_rh Kilovolt-Amps reactive hour – an hourly measure of the kVA_r described above.

kW Kilowatt (1000 x watts) – a unit of measure of power or electricity.

kWh Kilowatt hour – the amount of electricity consumed in an hour.

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Definitions/Abbreviations, Continued

Load control equipment	The equipment Unison uses to manage the volume and timing of electricity that travels to the various parts of Unison's network in order to balance and provide all the energy end-consumers need at a given time. This equipment includes but is not limited to, ripple receivers and relays installed at or near end-consumer's premises in order to give or receive signals from Unison's load management systems
Load management service	Where Unison controls and manages end-consumer's use of energy by using signals to their installation to reduce or interrupt how much electricity is delivered to them, and when. An example is controlling what time of day a consumer's water heater receives power to heat the water for their household.
Load management System	The equipment and controllers that Unison uses to initiate and transmit signals to operate load control equipment as defined above. Refer to <i>Section 13</i> for system technical specifications operating for Unison's regions.
Low voltage (LV)	Voltage up to 1,000 volts (generally 230 or 400 volts) for supply to end-consumers.
Network agreement	<p>Agreements between Unison and parties that use Unison's network, including 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.</p> <p>It also includes any other agreement between Unison and a customer covering their use of Unison's network.</p>
Off Peak consumption	Kilowatt-hour (kWh) consumed, excluding separately metered controlled load, during hours not covered by the definition of on peak consumption.
On Peak consumption	How much energy a consumer uses between the hours of 7 am and 11 am, and 5 pm and 9 pm on all days of the year. Consumption is measured in Kilowatt-hour (kWh). This excludes consumption under a separately metered controlled load.

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Definitions/Abbreviations, Continued

On Peak Demand (OPD)	On Peak Demand (OPD) is defined as the true power in kilowatts (kW). This is obtained by multiplying by two the true energy in kilowatt hours (kWh) delivered over the half hour period of maximum consumption between the hours of 7am and 11am, and 5pm and 9pm on a working day during the month to which the charges apply.
Price category	A category of charges, identified as a price category in this Pricing Policy, that defines the delivery charges applicable to a particular group of ICP's with a common capacity need or usage behaviour.
Price option	The price option within a price category that gives end-consumers a choice of how the energy they consume is collated and charged. The options available are usually determined by the configuration of metering and load control equipment used by the consumer.
Pricing policy	Pricing Policy and Schedules 2018 to 2019 (this document).
Region	Unison has two regions it provides electricity to. The Hawke's Bay region or the Rotorua/Taupo region.
Residential connection	A residential connection is where electricity is supplied to a house or shelter that end-consumers live in as their principal place of residence.
Retailer	The supplier of electricity to end-consumers with installations connected to Unison's network.
Stand-alone costs	The costs associated with providing a single dedicated supply between the network user's installation and the nearest transmission connection point. Stand-alone costs include the connection assets and the provision of upstream network that would normally be shared with other consumers.
Standard meter	Has the same meaning as standard accumulative type meter. These types of meters measure the accumulation of energy over time, rather than recording energy usage for multiple periods within a period.
Time of Use meter (TOU)	Metering that measures electricity consumption half-hourly (or a sub multiple of) and complies with Part 10 of the Electricity Industry Participation Code. The meter must measure kVARh.

Continued on next page

Definitions/Abbreviations, Continued

Transmission charge Charge incurred by Unison for transmission of electricity from the national grid operated by Transpower to Unison's network, so Unison can deliver the power to users of its network.

In this document this term also has the meaning defined under Recoverable Costs in Part 3 of the Electricity Distribution Services Input Methodology Determination 2012 dated 3 February 2016. It excludes transmission rebates passed on to end-consumers and/or retailers.

Transmission rebates The loss and constraint excesses rebated to the distributor in respect of the distributor's network by Transpower.

Unison Unison Networks Limited – the distributor.

UoSA Use of Service Agreement

Weekday Monday to Friday (including New Zealand public holidays).

Working day Monday to Friday (excluding New Zealand public holidays).

2. Conditions Common to All Pricing Groups

2.1 General conditions

Line or distribution services are provided to the customer so they can supply electricity to end-consumers. This is on the basis that the provisions of the Consumer Guarantees Act 1993 be excluded in respect of any business carried out by the customer or the end-consumer.

All charges are exclusive of Goods and Services Tax (GST).

Times stated are New Zealand daylight time unless otherwise specified.

2.2 Extent of charges

Unison's charges do not cover supply of metering equipment or load control equipment located at the end-consumer's installation control point (ICP) to Unison's network.

Unison does not apply loss factors to the measured or calculated energy delivered to an end-consumer's ICP when it calculates its delivery charges.

Total delivery charges are the summation of components relating to both Transmission and Distribution. Pricing tables can be found in the Unison Electricity Delivery Charges: Effective 1 April 2018 document published on Unison's website www.unison.co.nz.

Note

These are effective from 1 April 2018. Where there is a discrepancy between the published prices and those included for information purposes in this pricing policy, the prices published in Unison's schedule of electricity distribution prices rates prevail.

2.3 Time zone and season definitions

The table below shows the time zones and seasonal definitions.

Period	All Regions
Winter	1 May to 30 September
Summer	1 October to 30 April
Day	7 am to 11 pm
Night	11 pm to 7 am
On Peak	7 am to 11 am and 5 pm to 9 pm

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Conditions Common to All Pricing Groups, Continued

2.4 Applicable prices based on kVA of connection

The price categories and options an end-consumer is eligible for depends, in part, on the capacity rating (in kVA) of their connection to Unison's network.

The table below sets out the capacity or KVA rating and matching price categories that different customer groups can elect to be on.

The tables for residential and general end-consumers set out the kVA of a connection. These are based on the phasing and Amps per phase of the consumer's connection.

Some end-consumers may be eligible for multiple price categories based on these tables. However, there can be other criteria beyond the capacity or kVA rating that determines who a price category is intended for or available to. Refer to the relevant section for each price category later in this pricing policy to identify any additional criteria that may affect whether an end-consumer is fully eligible for that price category.

Note

Some larger commercial or industrial end-consumers may be allocated to the I60 price category even though individual connections may not have capacity greater than 1039kVA. See *Section 12* to understand the circumstances where this may or may not apply.

Residential – Permanent and Non-Permanent Residences			
Phases	Amps per Phase	kVA for Connection	Eligible Price Categories
1	<=60	14	G11, G12, M11, M12, DNR, TLU, THU
2	<=60	28	
3	<=20	14	
3	<=30	21	
3	<=40	28	

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Conditions Common to all Pricing Groups, Continued

2.4 Applicable prices based on kVA of connection (cont)

General			
Phases	Amps per Phase	kVA for Connection	Eligible Price Categories
1	<=60	14	G12, NDL, NDH, TCU
2	<=60	28	G12, NDL, NDH, TCU
3	<=20	14	G12, NDL, NDH, TCU
Commercial			
3	>20 <=100	>14 <=69	MC1
3	>100 <=200	>69 <=138	MC2
3	>200 <=400	>138 <=277	MC3
3	>400 <=630	>277 <=436	MC5
3	>630 <=800	>436 <=554	MC6
3	>800 <=1000	>554 <=693	MC7
3	>1000 <=1250	>693 <=866	MC8
3	>1250 <=1500	>866 <=1039	MC9
Industrial			
3	>1500	>1039	I60

2.5 Controlled load

Unison can provide load management services to control the timing and size of an end-consumer's load on its network. The technical specification for Unison's load management system is detailed in *Section 13*.

The types of equipment that these control systems can be applied to typically include:

- hot water cylinders with a capacity in excess of 50 litres
- electric kilns
- swimming pool heaters
- spa pool heaters
- storage heating
- air conditioning units, and
- any appliances representing a significant proportion of the end-consumer's demand. These appliances may be controlled without increasing the end-consumer's uncontrolled demand.

In order to take advantage of controlled load services the retailer must be able to demonstrate that the end-consumer is eligible for the price options applicable to a controlled load. For example, this could be done by providing annual data to evidence the end-consumer's response to a load control event.

3. Explanation of Price Codes

3.1 Price code format The price codes for all price options offered by Unison follow a set format. The following outlines an example of how price codes are derived.

Example

The example of the Hawke's Bay M11 24UC price code is used, E-H-M11-24UC.

Note

The dashes (-) in the price code represent a digit.

Digit	What it Shows	Example
First digit	<p>Fixed or Variable Charge</p> <p>The first digit specifies whether the charge is a fixed or variable charge.</p> <ul style="list-style-type: none"> E denotes a variable charge. F denotes a fixed charge. 	<p>Price code depicts a variable charge.</p> <p>E-H-M11-24UC</p>
Third digit	<p>Region</p> <p>The third digit specifies which of Unison's two regions the code applies to.</p> <ul style="list-style-type: none"> H denotes Hawke's Bay. R denotes Rotorua/Taupo. 	<p>H denotes Hawke's Bay.</p> <p>E-H-M11-24UC</p>
Digits 5 to 7	<p>Price Category</p> <p>Specifies the price category.</p>	<p>Price code applies to M11.</p> <p>E-H-M11-24UC</p>
Digits 9 to 12	<p>Price Option</p> <p>Specifies the price option chosen from those available within that price category for different metering configurations.</p>	<p>Price code applies to 24UC.</p> <p>E-H-M11-24UC.</p>

Where the price code is for a fixed charge the code does not include digits 9 to 12 for the price option, e.g. **F-H-M11**.

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Explanation of Price Codes, Continued

3.2 Regional network codes

3.2.1 Codes

Codes are used in all pricing tables to describe each of the regional networks. The table below lists the codes used.

Region	Code
Hawke's Bay	H
Rotorua and Taupo	R

3.2.2 Definition of Regional Networks

The regional network end-consumers are supplied from is determined by the relevant Grid Exit Point (GXP). The table below defines the GXPs within each Unison regional network.

Network	Hawke's Bay	Rotorua and Taupo
Grid Exit Point (GXP)	FHL0331	OWH0111
	RDF0331	ROT0111
	WTU0331	ROT0331
		TRK0111
		WRK0331

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Explanation of Price Codes, Continued

3.3 Price category code

Customers are generally categorised by:

- I. the physical nature of the site used to connect to Unison's network (e.g. house versus warehouse, manufacturing plant)
- II. its general purpose (e.g. a place to live, versus a place of business), and
- III. the capacity (maximum quantity of electricity) the site needs or can handle.

The table below specifies the three-digit price category code for each end-consumer type.

Price Category Description	Price Category Code
Residential – Low Fixed Charge	M11
Residential – Standard	M12
Non-permanent residential	DNR
Generation – Low Fixed Charge	G11
Generation – Standard	G12
General low user	NDL
General high user	NDH
Residential – Low Fixed Charge – Time of use	TLU
Residential – Standard – Time of use	THU
General – Time of use	TCU
Commercial > 14 <= 69 kVA	MC1
Commercial > 69 <= 138 kVA	MC2
Commercial > 138 <= 277 kVA	MC3
Commercial > 277 <= 436 kVA	MC5
Commercial > 436 <= 554 kVA	MC6
Commercial > 554 <= 693 kVA	MC7
Commercial > 693 <= 866 kVA	MC8
Commercial > 866 <= 1039 kVA	MC9
Industrial > 1039 kVA	I60
Temporary Builders Supply single phase	T1P
Temporary Builders Supply 3 phase	T3P
Unmetered supply – Other than street lighting	U01
Unmetered supply – Street lighting	U02
Unmetered supply – Street lighting (data logged)	U03

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Explanation of Price Codes, Continued

3.4 Price option codes

To give customers choice there are usually multiple price options available to customers. These options depend on the:

- price categories the end-consumer falls (refer to *point 3.3*), and
- different metering configurations they may have, or could elect to install.

The table below describes all the price options available across Unison's price categories, and specifies the matching code that applies to each option.

Price Category Description	Price Option Code
Daily fixed charge	(no code – blank)
Uncontrolled variable charge	24UC
All inclusive variable charge	AICO
Controlled variable charge	CTRL
Day variable charge	CTUD
Night variable charge	NITE
On Peak variable charge	ONPK
Off Peak variable charge	OFFPK
Projected variable charge	PROJ
Time of use variable charge	TAIC
Unmetered variable charge	UNMT
Summer on peak demand charge	SOPD
Winter on peak demand charge	WOPD
Anytime maximum demand charge	DMND
Default variable charge	DEFT
Power factor charge	KVAR
Exported distributed generation variable	DGEN
Dedicated 200kVA transformer fixed charge	T020
Dedicated 300kVA transformer fixed charge	T030
Dedicated 500kVA transformer fixed charge	T050
Dedicated 750kVA transformer fixed charge	T075
Dedicated 1,000kVA transformer fixed charge	T100
Dedicated 1,500kVA transformer fixed charge	T150
Customer owned asset discount	COAD

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Explanation of Price Codes, Continued

3.5 Valid register content codes

To ensure the above price options are validly applied, the corresponding content code shown for key options in the table above should be entered in to the registry. These codes match the eligibility criteria for given price options as outlined in *Section 4*.

It is the responsibility of retailers and their meter equipment providers (MEPs) to ensure that only valid register content codes that align with Unison's eligibility criteria for given price options are used.

Where MEPs propose a correction to an ICP's register content, evidence must be provided that the eligibility criteria for the new register content code have been met.

Price Option Description	Price Option Code	Register Content Code
Uncontrolled variable charge	24UC	UN24
All inclusive variable charge	AICO	IN17
Controlled variable charge	CTRL	CN17
Day variable charge	CTUD	D16
Night variable charge	NITE	N8

4. Description of End-Consumer Price Options

4.1 Overview

This section explains:

- what the key price options available within price categories are
- the purpose, customer choice or energy behaviour they are intended to support, and
- the customer and technical eligibility criteria (including metering and load equipment) retailers must ensure the end-consumer has at their connection point, before they select that price option on behalf of the end-consumer.

Continued on next page

Description of End-Consumer Price Options, Continued

4.2 All Inclusive (AICO)

Price Option: All Inclusive – AICO

This price option was **closed for new consumer connections** as from 1 April 2014. It remains closed for new connections.

The AICO option allows the end-consumer to pay the same price for both controlled and uncontrolled consumption. The period of control and availability is the same as for the Controlled price option (CTRL) per *point* 4.3. The AICO price option can only be applied to **existing** connections subject to the criteria listed below.

AICO is available to **existing** end-consumers where at their current metering:

- there is only one point of connection
- certified load control equipment is installed enabling Unison's load management system to control approved load on the ICP, and this information is available in the electricity registry
- the consumer equipment to be controlled includes all hot water cylinders
- the load control equipment when in operation results in the reduction to zero of all controlled load, **and**
- all electricity consumed is measured by a single meter register, **or**
- there are two single register meters where the second is an uncontrolled meter. For example, the AICO meter may be supplying a house while the uncontrolled meter is supplying a pump on the same ICP, **or**
- there are two single register meters where the second meter is a night meter.

A single ICP may not have more than one meter operating on the AICO price option.

End-consumers who are already on the AICO price option prior to 1 April 2014 may retain this option after changes to their metering or configuration, provided those changes comply with the above conditions.

The corresponding register content code for population in the registry is IN17.

Note

IN24 is not a valid register content code combination under the Code.

Continued on next page

Description of End-Consumer Price Options, Continued

4.3 Controlled (CTRL)

Price Option: Controlled – CTRL

This option allows Unison to offer a different price for consumption or load that Unison can control for the end-consumer under its Load Management Service.

Eligibility for the CTRL price option within the price categories is conditional on the end-consumer having a separate meter register where:

- 100% of the connected load can be controlled by Unison's load management system, **and**
- the load control equipment has been certified and this information is available in the electricity registry, **and**
- consumption on this register can be separately submitted to Unison by the retailer.

The types of equipment and load that may be controlled by Unison is specified in *point 2.5*.

- Under normal supply condition, controllable load is a load that Unison can fully control at any time for a maximum of seven (7) hours in any 24 hour period. Under abnormal supply or operating circumstances (including, but not limited to, where there is a shortage or anticipated shortage of electricity), control may be for greater than seven (7) hours per day.
- The corresponding register content code for population in the registry is CN17.

4.4 Night (NITE)

Price Option: Night – NITE

The NITE option is a separate charge for electricity consumed between the hours of 11pm and 7am. It is available under two different metering scenarios.

- A supply permanently wired to a separate meter able to be controlled by Unison's load management system with supplied power between the hours of 11pm and 7am.
- A supply permanently wired to a dual register (day/night) meter capable of measuring consumption against two registers where the NITE price option can apply between the hours of 11pm and 7am.

The corresponding register content code for population in the registry is N8.

Continued on next page

Description of End-Consumer Price Options, Continued

4.5 Day (CTUD)

Price Option: Day – CTUD

CTUD is a separate day time charge for electricity consumed between 7am and 11pm. It can only be used in conjunction with the NITE option above.

To be eligible the end-consumer must have a supply permanently wired to a dual register (day/night) meter that is capable of measuring consumption against two separate registers where the CTUD price option can be applied between 7am and 11pm.

The corresponding register content code for population in the registry is D16.

4.6 Uncontrolled (24UC)

Price Option: Uncontrolled – 24UC

The 24UC option is a single charge for a continuous supply where there is no load that is controllable by Unison on that meter register or equipment.

The corresponding register content code for population in the registry is UN24.

4.7 TOU On Peak (ONPK)

Price Option: TOU On Peak – ONPK

Time of Use (TOU) price options give end-consumers the incentive to actively manage their consumption and when it occurs. The option uses half hourly meter data so Unison can charge based on when, not just how much users consume, and to reward them for reducing their load on its network during peak times.

The On Peak (ONPK) option applies to consumption between 7am and 11am, and also between 5pm and 9pm on all days of the year (as defined in *Section 1*). The ONPK option is available in conjunction with the OFPK option in *point 4.8*.

Retailers must obtain Unison's approval before selecting or switching customers to TOU options. The ICP must have a half hourly meter and Unison requires the end-consumer to be assigned a retail price plan that contains material, consistent, time-based incentives for end-consumers to shift consumption from the On Peak pricing periods. Unison's approval is at its sole discretion.

For the avoidance of doubt, Retailers must assign all end-consumers on the nominated retail price plan to the TOU price option. Unison will not accept requests to switch customers to the TOU plan without any change to end-consumer pricing structures, or accept only a proportion of customers on a nominated retail price plan being on a TOU plan and the remaining proportion on legacy plans (e.g. M11 or M12).

Continued on next page

Description of End-Consumer Price Options, Continued

4.7 TOU On Peak (ONPK) (cont)

Retailers will also need to provide EIEP1 data for billing and be able, on request, to provide the half hour data to verify that EIEP1 data, within a reasonable timeframe.

Refer also to *point 8.2* for more information on TOU pricing selection or switching.

4.8 TOU Off Peak (OFPK)

Price Option: TOU Off Peak – OFPK

The TOU OFPK option charges TOU end-consumers for their consumption during the off peak times, when demand on Unison’s network is lower. Off peak means any time outside of the above hours for the TOU ONPK option.

Refer also to *point 4.6* and *point 8.2* for all other eligibility criteria for TOU pricing applying to this option.

4.9 Projected (PROJ)

Price Option: Projected – PROJ

Applies either where billing data:

- has not been submitted to Unison, or
 - has been submitted under a price option that is not in the schedules containing Unison’s Electricity Distribution Delivery Prices that are in effect and published on Unison’s website at www.unison.co.nz as outlined in *point 14.4*.
-

4.10 Default (DEFT)

Price Option: Default – DEFT

This is the Default price option that will be applied to an end-consumer allocated to the MC3, MC5, MC6, MC7, MC8, MC9 or I60 price category that does **not** have a Time of Use meter installed.

In order that Unison can more accurately and fairly charge users for their load and impact on its network and assets, Unison requires that all end-consumers in this category to have a have a half hourly TOU meter.

Where an end-consumer does not have a Time of Use meter installed Unison reserves the right to not approve any connection, or to disconnect any existing connection should this condition not be met.

For clarity, where an end-consumer allocated to the MC3, MC5, MC6, MC7, MC8, MC9 or I60 price category does have a Time of Use meter installed they will be eligible for one of the other available Commercial price options per *Section 11*.

Continued on next page

Description of End-Consumer Price Options, Continued

4.11 Power Factor charges (KVAR)

Price Option: Power Factor Charges – KVAR

To ensure the continued supply of electricity for all Unison's customers and end-consumers, Unison requires all Commercial end-consumers connecting to its network to meet a power factor of between 0.95 and 1.0 lagging.

The kVAr amount represents twice the largest difference between the kVArh amount recorded in any one-half hour period and one third of the kWh demand recorded in the same half hour period. The charge is applicable only during weekdays, between 7 am and 8 pm.

Power factor charges apply to MC1, MC2, MC3, MC5, MC6, MC7, MC8, MC9 or I60 price categories, where:

- the end-consumer's power factor is less than 0.95 for end-consumers with TOU metering, or
 - when non-TOU metering is installed, where a data logger is attached.
-

4.12 Summer On Peak Demand (SOPD)

Price Option: Summer On Peak Demand – SOPD

This option gives Commercial end-consumers the incentive to manage load during peak hours of demand. Consumers are charged only for their consumption during the on peak hours defined in *Section 1* (i.e. between 7am and 11am, and between 5pm and 9pm).

On Peak Demand (OPD) is measured as true power in kilowatts (kW). This is obtained by multiplying by two the true energy in kilowatt-hours (kWh) delivered over the half hour period of maximum consumption between the hours of 7am and 11am, and 5pm and 9pm on a working day during the month to which the charges apply.

4.13 Winter On Peak Demand (WOPD)

Price Option: Winter On Peak Demand – WOPD

This option again applies to Commercial end-consumers and covers consumption during the peak demand hours (as above and in *Section 1*) for consumption during colder months.

Continued on next page

Description of End-Consumer Price Options, Continued

4.14 Anytime Maximum Demand (DMND)

Price Option: Anytime Maximum Demand – DMND

This option charges Commercial end-consumers for their maximum demand on Unison's network at any given time in a month as defined in *Section 1*. The charge applies all year.

AMD is measured as the true power in kW and calculated by multiplying by two the true energy in kWh delivered over the half hour period of maximum consumption during the month the charges apply.

4.15 Distributed Generation (DGEN)

Distributed Generation – DGEN

This price applies to end-consumers for each kWh of electricity that is exported on to Unison's network (rather than consumed).

kWh being exported onto Unison's network must be submitted to Unison under the price option specified.

The format the data is submitted must match the format of the ICPs other submitted data, e.g. either EIEP1 or EIEP3 format.

For clarity, export onto Unison's network, and consumption off Unison's network, are to be reported separately under the relevant price options (i.e. they must not be netted off). Unison requires all DG connections to have metering compliant with Part 10 of the Code that records electricity exported to the network for the purpose of network planning and safety.

5. Selection of Price Category and Price Category Switching

5.1 Selection and switching of price category

The criteria and process around the selection and changing of price category and price option are set out in Section 10 of Unison's Use of System Agreement (UoSA) that has been negotiated with the retailer. Any retailers not yet party to the standard UoSA, can find the Standard UoSA on Unison's public website www.unison.co.nz.

In general, Unison as the distributor will allocate a price category and price option to all ICP's. This allocation will be based on:

- eligibility criteria for each category and option
- the nature of the ICP, including metering configuration
- the consumer's capacity needs
- the register configuration of the metering equipment
- the historic demand profile
- the retailer or consumer's preference amongst categories or options for which they are eligible, and
- any other relevant factors.

Retailers may request an alternative allocation or a reallocation, supported by relevant information to back their request. Unison as the distributor will make the decision on whether the request meets the relevant criteria and conditions for that price category or price option.

5.2 Price category change fee

Unison's price category change fee as detailed in *Section 15* is payable by the retailer when the price category for an end-consumer in a Residential or General price category is changed more than once in any 12 month period (i.e. the charge is payable for the second and each subsequent price category change recorded within a 12 month period).

Where an end-consumer allocated to a Commercial or Industrial price category changes price category more than once in any 12 month period the fixed charge recovery charge is payable as detailed in *Section 15*.

For the avoidance of doubt, the fixed charge recovery charge applies where the end-consumer was allocated to any of the following price categories at any stage during the 12 month period:

- MC1
- MC2
- MC3
- MC5
- MC6
- MC7
- MC8
- MC9, or
- I60

Continued on next page

Selection of Price Category and Price Category Switching, Continued

5.3 Paper downgrades

The capacity of a connection is deemed to be the capacity in kVA of the end-consumer's connection to Unison's network except where Unison (in exceptional circumstances and at Unison's sole discretion) allows a 'paper downgrade' in kVA capacity of a site (i.e. the connection is deemed to have a lower capacity than its physical kVA capacity).

Such a downgrade will require that the ICP has TOU metering installed and the end-consumer is billed on TOU pricing. Charges for dedicated transformers will not be downgraded, i.e. the charge will correspond to the physical kVA of the transformer independent of any paper downgrades.

In the event such a downgrade is allowed, the downgraded capacity will apply only from the date Unison deems the downgrade came into effect. Therefore, the downgrade will have no impact on the applicable charges, preceding that date.

In the event the ICPs kVA at any time exceeds the downgraded capacity after the effective date of the downgrade, Unison may:

- cancel the downgrade, and the capacity of the connection shall revert to the kVA that applied prior to the downgrade coming into effect, and
- recalculate all relevant charges as if the downgrade had never been allowed, and recover any excess amounts (as back dating charges).

A period of 18 months must elapse from the date any back-dating charges were paid by the customer before Unison will consider allowing a new downgrade.

6. Unmetered Pricing

6.1 Introduction

The price categories in this section apply to end-consumers whose consumption is not metered. Delivery prices include fixed and variable rates.

6.2 Unmetered supply: Price codes U01, U02 and U03

6.2.1 Unmetered Supply (other than Streetlights) – U01

Consumption will be determined on a case-by-case basis, dependent on load profile.

A **minimum** monthly charge equal to 0.5kW multiplied by the night hours table will apply to all ICPs.

Hawke's Bay Unmetered Supply – Price Category – U01				
Price Option	Price Code	Description	Units	Price 1 April 2018
UNMT	E-H-U01-UNMT	Unmetered supply (other than street lighting) variable charge	\$/kWh	\$ 0.1200

Rotorua/Taupo Unmetered Supply – Price Category – U01				
Price Option	Price Code	Description	Units	Price 1 April 2018
UNMT	E-R-U01-UNMT	Unmetered supply (other than street lighting) variable charge	\$/kWh	\$ 0.1370

6.2.2 Unmetered Supply (Night Hours) – U02

Consumption will be determined by multiplying the input wattage by a load factor, and the number of night hours as given by the following table.

A minimum load factor of 10% will be applied to the input wattage.

Month	Night Hours for All Regions
January	298
February	296
March	360
April	386
May	428
June	430
July	428
August	412
September	365
October	341
November	298
December	289

Continued on next page

Unmetered Pricing, Continued

6.2 Unmetered supply: Price codes U01, U02 and U03 (cont)

Hawke's Bay Unmetered Supply – Price Category – U02				
Price Option	Price Code	Description	Units	Price 1 April 2018
UNMT	E-H-U02-UNMT	Unmetered supply (night hours) variable charge	\$/kWh	\$ 0.1200

Rotorua/Taupo Unmetered Supply – Price Category – U02				
Price Option	Price Code	Description	Units	Price 1 April 2018
UNMT	E-R-U02-UNMT	Unmetered supply (night hours) variable charge	\$/kWh	\$ 0.1370

6.2.3 Unmetered Supply (Streetlighting) – U03

Consumption will be determined by use of a data-logger or by other means whereby consumption can be confirmed each month. An application to connect must be made to Unison for any additions to existing distributed unmetered load ICPs. An updated data file must be sent to Unison each month to confirm the number of fittings and input wattage for each ICP.

Hawke's Bay Unmetered Supply – Price Category – U03				
Price Option	Price Code	Description	Units	Price 1 April 2018
	F-H-U03	Unmetered supply fixed charge	\$/fixture /day	\$ 0.1000
UNMT	E-H-U03-UNMT	Unmetered supply variable charge	\$/kWh	\$ 0.0400

Rotorua/Taupo Unmetered Supply – Price Category – U03				
Price Option	Price Code	Description	Units	Price 1 April 2018
	F-R-U03	Unmetered supply fixed charge	\$/fixture /day	\$ 0.1000
UNMT	E-R-U03-UNMT	Unmetered supply variable charge	\$/kWh	\$ 0.0470

Continued on next page

Unmetered Pricing, Continued

6.3 Limits for unmetered supplies

A customer must quantify any unmetered load. They may only treat load as unmetered if it reasonably expects, in any rolling 12-month period that the load will not exceed 3,000 kWh or 6,000 kWh if the load is a predictable load of a type approved and published by the Electricity Authority.

This limit does not apply to distributed unmetered load managed in accordance with Part 15 of the Electricity Industry Participation Code 2010.

7. Temporary Supply Pricing

7.1 Introduction

The price categories in this section apply where the end-consumer's premises are temporary (referred to as 'Temporary Supplies'). Delivery charges contain both a fixed and a variable rate.

All Temporary Supplies must have a metered connection.

The conversion of the Temporary Supply price category into any other price category (including when the building is complete and the premise is to be occupied) will not count as the first price category change. This is for the purpose of assessing the possible application of the price category change fee (see *Section 15*) at a future date.

7.2 Temporary supply: Price categories T1P and T3P

Hawke's Bay

Hawke's Bay Temporary Supply Price Codes – T1P and T3P				
Price Option	Price Code	Description	Units	Price 1 April 2018
	F-H-T1P	Temporary supply, single phase fixed charge	\$/day	\$ 1.3000
24UC	E-H-T1P-24UC	Temporary supply, single phase anytime variable charge	\$/kWh	\$ 0.1100
PROJ	E-H-T1P-PROJ	Temporary supply, single phase projected variable charge <i>Cannot be selected by a customer</i>	\$/kWh	\$ 0.1100
	F-H-T3P	Temporary supply, three phase fixed charge	\$/day	\$ 3.8550
24UC	E-H-T3P-24UC	Temporary supply, three phase anytime variable charge	\$/kWh	\$ 0.0740
PROJ	E-H-T3P-PROJ	Temporary supply, three phase projected variable charge <i>Cannot be selected by a customer</i>	\$/kWh	\$ 0.0740

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Temporary Supply Pricing, Continued

**7.2 Temporary Rotorua/Taupo supply:
 Price categories T1P and T3P (cont)**

Rotorua/Taupo Temporary Supply Price Codes – T1P and T3P				
Price Option	Price Code	Description	Units	Price 1 April 2018
	F-R-T1P	Temporary supply, single phase fixed charge	\$/day	\$ 1.3000
24UC	E-R-T1P-24UC	Temporary supply, single phase anytime variable charge	\$/kWh	\$ 0.0960
PROJ	E-R-T1P-PROJ	Temporary supply, single phase projected variable charge <i>Cannot be selected by a customer</i>	\$/kWh	\$ 0.0960
	F-R-T3P	Temporary supply, three phase fixed charge	\$/day	\$ 3.8000
24UC	E-R-T3P-24UC	Temporary supply, three phase anytime variable charge	\$/kWh	\$ 0.0700
PROJ	E-R-T3P-PROJ	Temporary supply, single phase projected variable charge <i>Cannot be selected by a customer</i>	\$/kWh	\$ 0.0700

8. General Conditions for Residential and General End-consumers

8.1 Accumulative pricing

All residential or general end-consumers pay both fixed daily charges and variable charges based on their accumulated consumption over the typical monthly billing period.

There are multiple price options available for the variable component of these charges. This includes both uncontrolled and controlled load services for accumulation based consumption. Refer to *Section 4* for a detailed description of all the variable price options.

The price options available are dependent on the wiring into the customer's load control equipment and the meter configuration for the ICP. For each meter's setup there will be a matching variable pricing option.

8.2 Time of use (TOU) pricing

Unison offers Time of Use (TOU) options to Residential or General end-consumers in order to provide some incentive to actively manage the level of their consumption and when it occurs. This can help Unison to reduce the load on its network and assets.

Unison requires end-consumers to have half hourly metering and appropriate registers at their ICP to enable TOU data to be collected, together with a retail pricing plan that creates material incentives to shift consumption from On-Peak periods.

Retailers must obtain Unison's approval before selecting or switching customers to TOU options.

Once approved, retailers will need to provide appropriate EIEP1 data for billing. They must be willing on request to provide the half hour data to verify that EIEP1 data, within a reasonable timeframe.

Unison's TOU charges consist of a fixed daily charge **and** a variable charge being either:

- On-Peak charges as well as Off-Peak charges (i.e. price options ONPK and OFPK), **or**
- On-Peak charges, Off-Peak charges and separately metered controlled charges (i.e. price options ONPK, OFPK and CTRL).

EIEP1 is to be used for billing.

At Unison's discretion the customer will on reasonable request from the Unison, and within a reasonable timeframe, provide Unison with any half-hourly data required to verify the EIEP1 data submitted.

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General Conditions for Residential and General End-consumers, Continued

8.3 Electric vehicles (EV's)

Unison is supportive of the growing use of Electric Vehicles (EV's) on the roads and highways, and their contribution to clean energy use and reduced carbon emissions.

Unison's network supports wider adoption and use of EV's through the deployment of public direct current (DC) charging stations in key locations across regions covered by its network, and through support of owners charging their batteries at their own home.

Residential end-consumers can charge their EV from home on a standard 10 Amp plug or an AC fast charging set up, where they have installed the appropriately rated circuits and connections (see electric vehicle charging pages on Unison's public website).

Unison offers residential EV customers a range of price options to enable them to control the impact that charging their EV's batteries has on their total consumption and costs of electricity.

This includes controlled load price options (CTRL, NITE, CTUD) under the residential price categories, as well as availability of separate Time of Use price categories (TLU, THU).

This range of options allows end-consumers to take advantage of price differences for controlled vs uncontrolled, and on and off peak periods of electricity consumption. See *Sections 4* and *9* for further explanations of these price options and relevant eligibility criteria.

8.4 Restricted price option combinations

As pricing approaches have changed over the years to better reflect a cost and service based delivery approach, some combination of price options have been withdrawn, or are otherwise no longer appropriate.

The following combinations of price options are therefore available only on application to Unison and at Unison's sole discretion.

Unison may permit the use of these combinations of prices on a case-by-case basis. In order for approval to be granted, the retailer must supply Unison with evidence to verify the end-consumer's meter arrangement matches the proposed pricing combination. It will be at Unison's discretion to judge what evidence is sufficient, to grant approval to the requested combination:

- AICO and CTRL
 - NITE only
 - CTRL only
 - AICO and AICO.
-

9. Residential Pricing

9.1 Introduction

The charges in this section are intended to match the electricity capacity needs of residential consumers. They therefore apply to all end-consumers where:

- the location (ICP) serves as a place of residence, and
- the connection and metering capacity available is up to, and including 1 and 2 phase 60 Amp and 3 phase 40 Amp.

Unison offers Residential consumers the choice of accumulative, time of use and distributed generation pricing options as summarised in the table below. Detailed eligibility and operation of each category are provided in *points 9.2 to 9.7* below.

Price Category	Description & Eligibility
Accumulative Pricing	
M11	Permanent place of residence – low fixed charge (DG eligible if connected prior to 1 April 2016)
M12	Permanent place of residence – standard (DG eligible if connected prior to 1 April 2016)
DNR	Non-permanent place of residence (e.g. holiday home)
Time of Use Pricing	
TLU	Permanent place of residence low fixed charge (all DG eligible)
THU	Permanent place of residence standard (all DG eligible)
TCU	Non-permanent place of residence (e.g. holiday home)
Distributed Generation Pricing	
G11	Permanent place of residence, low fixed charge with DG installed after 31 March 2016
G12	Residential standard user connections with DG installed after 31 March 2016

EV owners can take advantage of the above TOU options to re-charge their vehicle batteries at off peak periods.

Temporary Builders Supplies are **not** eligible for this group of Residential end-consumers.

If distributed generation (DG) was connected to a residential ICP after 31 March 2016, the consumer can elect to be placed in either the G11 or G12 price category, or the TLU or THU residential TOU price categories.

Refer to *point 9.5 Distributed Generation (DG) pricing*.

Continued on next page

Residential Pricing, Continued

9.2 Residential low fixed charge: Price categories M11 or TLU

9.2.1 Overview

M11 (accumulation) and TLU (time of use) price categories offer customers a lower fixed daily charge offset by a higher variable component to delivery charges.

This method targets end-consumers with lower overall consumption (i.e. less than 8000 kWh per year) and complies with the Electricity (Low Fixed Charge tariff for domestic consumers) Regulations 2004 by offering a maximum 15c per day fixed daily delivery charge.

9.2.2 Eligibility for M11 and TLU Price Categories

These price options are available where the end-consumer's home:

- is connected to the ICP to which the price category will apply, **and**
- is used or intended for occupation mainly as a place of residence, **and**
- is not normally a place of business whether the business is operated by the end-consumer or any other entity, **and**
- is the principal place of residence of the end-consumer (for example, it is not a holiday home), **and**
- is not a separately metered building that is ancillary to the end-consumer's principal place of residence (for example, a shed, pump or garage), **and**
- M11 cannot have DG connected, while TLU may (if DG was installed prior to 1 April 2016, M11 is valid), **and**
- is not a premises as defined by the Electricity Industry Act 2010 definition of 'domestic premises' that refers to subsections (1)(c) to (k) of section 5 of the Residential Tenancies Act 1986 (for example, it is not part of a club, hostel or premises that are intended to provide temporary or transient accommodation), **and**
- is not exempt from the low fixed charge price category coverage under an exemption granted under the Electricity (Low Fixed Charge tariff for domestic consumers) Regulations 2004.

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Residential Pricing, Continued

9.2 Residential low fixed charge: Price categories M11 or TLU (cont)

If at any time Unison is satisfied (acting reasonably) that the Low Fixed charge price category has been **incorrectly allocated** to an end-consumer's ICP (that is, the end-consumer does not meet the criteria for the Low Fixed charge price category), Unison may in respect of any underpayment by the customer resulting from the incorrect allocation:

- charge the underpayment recovery charge referred to in *point 14.5*
- move the relevant end-consumer from the Low Fixed charge price category to the Standard price category or other appropriate price category, and
- adjust the delivery charges historically accordingly. These price categories consist of a fixed daily charge plus one or more variable \$/kWh charges.

9.2.3 Residential Low Fixed Charge Price Codes – Accumulative Pricing: Price Category M11

Hawke's Bay

Hawke's Bay Residential Low Fixed Charge Price Codes – M11				
Price Option	Price Code	Description	Units	Price 1 April 2018
	F-H-M11	Low fixed charge, fixed charge	\$/day	\$ 0.1500
24UC	E-H-M11-24UC	Low fixed charge, uncontrolled variable charge	\$/kWh	\$ 0.1445
AICO	E-H-M11-AICO	Low fixed charge, all inclusive variable charge <i>- closed for new installations</i>	\$/kWh	\$ 0.1220
CTRL	E-H-M11-CTRL	Low fixed charge, controlled variable charge	\$/kWh	\$ 0.0865
CTUD	E-H-M11-CTUD	Low fixed charge, day variable charge	\$/kWh	\$ 0.1850
NITE	E-H-M11-NITE	Low fixed charge, night variable charge	\$/kWh	\$ 0.0510
PROJ	E-H-M11-PROJ	Low fixed charge, projected variable charge <i>Cannot be selected by a customer</i>	\$/kWh	\$ 0.1445
DGEN	E-H-M11-DGEN	Low fixed charge, distributed generation export variable charge	\$/kWh	\$ 0.0000

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Residential Pricing, Continued

9.2 Residential low fixed charge: Price categories M11 or TLU (cont)

Rotorua/Taupo

Rotorua/Taupo Residential Low Fixed Charge Price Codes – M11				
Price Option	Price Code	Description	Units	Price 1 April 2018
	F-R-M11	Low fixed charge, fixed charge	\$/day	\$ 0.1500
24UC	E-R-M11-24UC	Low fixed charge, uncontrolled variable charge	\$/kWh	\$ 0.1325
AICO	E-R-M11-AICO	Low fixed charge, all inclusive variable charge <i>- closed for new installations</i>	\$/kWh	\$ 0.1120
CTRL	E-R-M11-CTRL	Low fixed charge, controlled variable charge	\$/kWh	\$ 0.0815
CTUD	E-R-M11-CTUD	Low fixed charge, day variable charge	\$/kWh	\$ 0.1690
NITE	E-R-M11-NITE	Low fixed charge, night variable charge	\$/kWh	\$ 0.0465
PROJ	E-R-M11-PROJ	Low fixed charge, projected variable charge <i>Cannot be selected by a customer</i>	\$/kWh	\$ 0.1325
DGEN	E-R-M11-DGEN	Low fixed charge, distributed generation export variable charge	\$/kWh	\$ 0.0000

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Residential Pricing, Continued

9.2
 Residential
 low fixed
 charge:
 Price
 categories
 M11 or TLU
 (cont)

9.2.4 Residential Low Fixed Charge Price Codes – Time of Use Pricing: Price Category TLU

Hawke's Bay

Hawke's Bay Residential TOU Low Fixed Charge Price Codes – TLU				
Price Option	Price Code	Description	Units	Price 1 April 2018
	F-H-TLU	Low fixed charge, fixed charge	\$/day	\$ 0.1500
CTRL	E-H-TLU-CTRL	Low fixed charge, controlled variable charge	\$/kWh	\$ 0.0650
NITE	E-H-TLU-NITE	Low fixed charge, night variable charge	\$/kWh	\$ 0.0510
OFFPK	E-H-TLU-OFFPK	Low fixed charge, off peak variable charge	\$/kWh	\$ 0.0650
ONPK	E-H-TLU-ONPK	Low fixed charge, on peak variable charge	\$/kWh	\$ 0.2400
KVAR	E-H-TLU-KVAR	Power Factor charge	\$/kVAr /month	\$ 7.5500
PROJ	E-H-TLU-PROJ	Low fixed charge, projected variable charge <i>Cannot be selected by a customer</i>	\$/kWh	\$ 0.2400
DGEN	E-H-TLU-DGEN	Low fixed charge, distributed generation export variable charge	\$/kWh	\$ 0.0000

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Residential Pricing, Continued

9.2 Residential low fixed charge: Price categories M11 or TLU (cont)

Rotorua/Taupo

Rotorua/Taupo Residential TOU Low Fixed Charge Price Codes – TLU				
Price Option	Price Code	Description	Units	Price 1 April 2018
	F-R-TLU	Low fixed charge, fixed charge	\$/day	\$ 0.1500
CTRL	E-R-TLU-CTRL	Low fixed charge, controlled variable charge	\$/kWh	\$ 0.0594
NITE	E-R-TLU-NITE	Low fixed charge, night variable charge	\$/kWh	\$ 0.0465
OFFPK	E-R-TLU-OFFPK	Low fixed charge, off peak variable charge	\$/kWh	\$ 0.0594
ONPK	E-R-TLU-ONPK	Low fixed charge, on peak variable charge	\$/kWh	\$ 0.2218
KVAR	E-R-TLU-KVAR	Power Factor charge	\$/kVAr /month	\$ 7.5500
PROJ	E-R-TLU-PROJ	Low fixed charge, projected variable charge <i>Cannot be selected by a customer</i>	\$/kWh	\$ 0.2218
DGEN	E-R-TLU-DGEN	Low fixed charge, distributed generation export variable charge	\$/kWh	\$ 0.0000

9.3 Residential standard: Price categories M12 or THU

9.3.1 Overview

The M12 (accumulation) and THU (time of use) price categories apply to end-consumers using 8,000 kWh or more annual consumption where the ICP supplies their primary residence.

9.3.2 Eligibility for M12 and THU Price categories

These price options are available where the end-consumer's home:

- is connected to the ICP to which the price category will apply, **and**
- is used or intended for occupation mainly as a place of residence, **and**
- is not normally a place of business whether the business is operated by the end-consumer or any other entity, **and**
- is the principal place of residence of the end-consumer (for example, it is not a holiday home), **and**
- is not a building that is ancillary to the end-consumer's principal place of residence (for example, a shed, pump or garage) that is separately metered, **and**

Continued on next page

Residential Pricing, Continued

9.3 Residential standard: Price categories M12 or THU (cont)

- M12 cannot have DG, while THU may (if DG was installed prior to 1 April 2016, M12 is valid), **and**
- is not a premises that is referred to in subsections (a) to (i) of Section 90 of the Electricity Industry Reform Act 1998 (for example, it is not part of a boarding house, hostel or camping ground).

These price categories consist of a fixed daily charge plus one or more variable \$/kWh charges.

9.3.3 Residential Standard Price Codes – Accumulative Pricing: Price Category M12

Hawke’s Bay

Hawke’s Bay Residential Standard Price Codes – M12				
Price Option	Price Code	Description	Units	Price 1 April 2018
	F-H-M12	Standard, fixed charge	\$/day	\$ 1.1500
24UC	E-H-M12-24UC	Standard, uncontrolled variable charge	\$/kWh	\$ 0.0990
AICO	E-H-M12-AICO	Standard, all inclusive variable charge <i>- closed for new installations</i>	\$/kWh	\$ 0.0765
CTRL	E-H-M12-CTRL	Standard, controlled variable charge	\$/kWh	\$ 0.0420
CTUD	E-H-M12-CTUD	Standard, day variable charge	\$/kWh	\$ 0.1276
NITE	E-H-M12-NITE	Standard, night variable charge	\$/kWh	\$ 0.0350
PROJ	E-H-M12-PROJ	Standard, projected variable charge <i>Cannot be selected by a customer</i>	\$/kWh	\$ 0.0990
DGEN	E-H-M12-DGEN	Standard, distributed generation export variable charge	\$/kWh	\$ 0.0000

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Residential Pricing, Continued

9.3 Residential Standard: Price categories M12 or THU (cont)

Rotorua/Taupo

Rotorua/Taupo Residential Standard Price Codes – M12				
Price Option	Price Code	Description	Units	Price 1 April 2018
	F-R-M12	Standard, fixed charge	\$/day	\$ 1.1500
24UC	E-R-M12-24UC	Standard, uncontrolled variable charge	\$/kWh	\$ 0.0875
AICO	E-R-M12-AICO	Standard, all inclusive variable charge <i>- closed for new installations</i>	\$/kWh	\$ 0.0670
CTRL	E-R-M12-CTRL	Standard, controlled variable charge	\$/kWh	\$ 0.0353
CTUD	E-R-M12-CTUD	Standard, day variable charge	\$/kWh	\$ 0.1117
NITE	E-R-M12-NITE	Standard, night variable charge	\$/kWh	\$ 0.0310
PROJ	E-R-M12-PROJ	Standard, projected variable charge <i>Cannot be selected by a customer</i>	\$/kWh	\$ 0.0875
DGEN	E-R-M12-DGEN	Standard, distributed generation export variable charge	\$/kWh	\$ 0.0000

9.3.4 Residential Standard Price Codes – Time of Use Pricing: Price Category THU

Hawke's Bay

Hawke's Bay Residential TOU Standard Price Codes – THU				
Price Option	Price Code	Description	Units	Price 1 April 2018
	F-H-THU	Standard, fixed charge	\$/day	\$ 1.1500
CTRL	E-H-THU-CTRL	Standard, controlled variable charge	\$/kWh	\$ 0.0400
NITE	E-H-THU-NITE	Standard, night variable charge	\$/kWh	\$ 0.0350
OFFPK	E-H-THU-OFFPK	Standard, off peak variable charge	\$/kWh	\$ 0.0400
ONPK	E-H-THU-ONPK	Standard, on peak variable charge	\$/kWh	\$ 0.1700
KVAR	E-H-THU-KVAR	Power Factor charge	\$/kVAr /month	\$ 7.5500
PROJ	E-H-THU-PROJ	Standard, projected variable charge <i>Cannot be selected by a customer</i>	\$/kWh	\$ 0.1700
DGEN	E-H-THU-DGEN	Standard, distributed generation export variable charge	\$/kWh	\$ 0.0000

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Residential Pricing, Continued

9.3 Residential Standard: Price categories M12 or THU (cont)

Rotorua/Taupo

Rotorua/Taupo Residential TOU Standard Price Codes – THU				
Price Option	Price Code	Description	Units	Price 1 April 2018
	F-R-THU	Standard, fixed charge	\$/day	\$ 1.1500
NITE	E-R-THU-NITE	Standard, night variable charge	\$/kWh	\$ 0.0310
CTRL	E-R-THU-CTRL	Standard, controlled variable charge	\$/kWh	\$ 0.0376
OFFPK	E-R-THU-OFFPK	Standard, off peak variable charge	\$/kWh	\$ 0.0376
ONPK	E-R-THU-ONPK	Standard, on peak variable charge	\$/kWh	\$ 0.1485
DGEN	E-R-THU-DGEN	Standard, distributed generation export variable charge	\$/kWh	\$ 0.0000
PROJ	E-R-THU-PROJ	Standard, projected variable charge <i>Cannot be selected by a customer</i>	\$/kWh	\$ 0.14850

9.4 Non-permanent residential: Price category DNR

The DNR price category applies to an end-consumer's residence where the end-consumer is **not** permanently living at that residence (including for example, shearers' quarters and holiday homes).

Where an end-consumer becomes permanently living at that residence (so that it becomes a principal place of residence) the customer must notify Unison and request that Unison allocate the end-consumer's ICP to a permanent residential price category and appropriate price option.

For the sake of clarity, where there is no residence connected to an ICP the DNR price category cannot apply.

For DNR consumers who wish to take up Time of Use pricing customers can elect the TCU price category outlined in *Section 10* instead of the DNR price category at the customer's discretion. Fixed and variable charges apply.

Continued on next page

Residential Pricing, Continued

9.4 Non-permanent residential: Price category DNR (cont)

Hawke's Bay

Hawke's Bay Non-Permanent Residential Price Codes – DNR				
Price Option	Price Code	Description	Units	Price 1 April 2018
	F-H-DNR	Fixed charge	\$/day	\$ 1.5000
24UC	E-H-DNR-24UC	Uncontrolled variable charge	\$/kWh	\$ 0.0990
AICO	E-H-DNR-AICO	All inclusive variable charge <i>- closed for new installations</i>	\$/kWh	\$ 0.0765
CTRL	E-H-DNR-CTRL	Controlled variable charge	\$/kWh	\$ 0.0420
CTUD	E-H-DNR-CTUD	Day variable charge	\$/kWh	\$ 0.1276
NITE	E-H-DNR-NITE	Night variable charge	\$/kWh	\$ 0.0350
PROJ	E-H-DNR-PROJ	Projected variable charge <i>Cannot be selected by a customer</i>	\$/kWh	\$ 0.0990
DGEN	E-H-DNR-DGEN	Distributed generation export variable charge	\$/kWh	\$ 0.0000

Rotorua/Taupo

Rotorua/Taupo Non-Permanent Residential Price Codes – DNR				
Price Option	Price Code	Description	Units	Price 1 April 2018
	F-R-DNR	Fixed charge	\$/day	\$ 1.5000
24UC	E-R-DNR-24UC	Uncontrolled variable charge	\$/kWh	\$ 0.0875
AICO	E-R-DNR-AICO	All inclusive variable charge <i>- closed for new installations</i>	\$/kWh	\$ 0.0670
CTRL	E-R-DNR-CTRL	Controlled variable charge	\$/kWh	\$ 0.0353
CTUD	E-R-DNR-CTUD	Day variable charge	\$/kWh	\$ 0.1117
NITE	E-R-DNR-NITE	Night variable charge	\$/kWh	\$ 0.0310
PROJ	E-R-DNR-PROJ	Projected variable charge <i>Cannot be selected by a customer</i>	\$/kWh	\$ 0.0875
DGEN	E-R-DNR-DGEN	Distributed generation export variable charge	\$/kWh	\$ 0.0000

Continued on next page

Residential Pricing, Continued

9.4 Non-permanent residential: Price category DNR (cont)

Eligibility checks are applied by Unison's Commercial team to ensure a consistent approach is being applied in respect of end-consumers who Unison considers are DNR sites. These additional checks include the following:

- a check of the name and contact details for off-site postal addresses
- a check on consumption volume and patterns to confirm consistent occupation, and
- a check of the Electoral roll to validate the end-consumer resides permanently in the region.

By undertaking the above checks, Unison is confident that should an end-consumer question the validity of placement into the DNR category, there will be sufficient background evidence to be able to make an informed and fair decision.

9.5 Distributed Generation (DG) pricing

The DG category caters for residential end-consumers whose property has Distributed Generation at their connection, and:

- DG was connected **after** 31 March 2016, **and**
- the capacity of the site is up to, and including 1 and 2 phase 60 Amp and 3 phase 40 Amp, **and**
- they have not been allocated by a customer to TLU or THU, **and**
- they have metering allowing for both import and export of electricity (mandatory for all DG connected end-consumers)

For connections meeting this criteria customers can elect to place them in either:

- the G11 or G12 category, or
- a residential TOU price category, TLU or THU, subject to the customer demonstrating to Unison that the end-consumer is on a retail price plan that provides material incentives for consumption to be shifted from On-Peak periods. Approval must be sought from Unison, whose approval is at its sole discretion.

The G11 DG price category is a Low Fixed Charge price category where connections are subject to the conditions applying to Unison's other Low Fixed Charge categories, M11 or TLU. Refer to *point 9.2* for more information regarding Low Fixed Charge eligibility. Temporary Supplies are not eligible for these categories.

Continued on next page

Residential Pricing, Continued

9.5 Distributed Generation (DG) pricing (cont)

Connections with DG connected **prior** to 31 March 2016 can remain in their current applicable price category for a 'grand parenting' period that expires on 31 March 2019.

Unison retains the right to change this period giving reasonable notice. At the completion of this 'grand parenting' period all connections with DG connected will at that time be transferred to an applicable DG pricing category or its successor.

Consumers wishing to switch from the G11 or G12 price category to a category where DG pricing does not apply, for instance M11 or M12, must provide evidence of permanent removal of DG.

9.6 DG price codes: Price category G11

Hawke's Bay

Hawke's Bay Distributed Generation Low Fixed Charge Price Codes – G11				
Price Option	Price Code	Description	Units	Price 1 April 2018
	F-H-G11	Fixed charge	\$/day	\$ 0.1500
24UC	E-H-G11-24UC	Low Fixed Charge uncontrolled variable charge	\$/kWh	\$ 0.1725
AICO	E-H-G11-AICO	Low Fixed Charge all inclusive variable charge <i>- closed for new installations</i>	\$/kWh	\$ 0.1460
CTRL	E-H-G11-CTRL	Low fixed charge, controlled variable charge	\$/kWh	\$ 0.1060
CTUD	E-H-G11-CTUD	Low fixed charge, day variable charge	\$/kWh	\$ 0.2210
NITE	E-H-G11-NITE	Low fixed charge, night variable charge	\$/kWh	\$ 0.0600
PROJ	E-H-G11-PROJ	Low Fixed Charge projected variable charge <i>Cannot be selected by a customer</i>	\$/kWh	\$ 0.1725
DGEN	E-H-G11-DGEN	Distributed generation export variable charge	\$/kWh	\$ 0.0000

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Residential Pricing, Continued

9.6 DG price codes:
 Price category G11
 (cont)

Rotorua/Taupo

Rotorua/Taupo Distributed Generation Low Fixed Charge Price Codes – G11				
Price Option	Price Code	Description	Units	Price 1 April 2018
	F-R-G11	Low Fixed Charge, fixed charge	\$/day	\$ 0.1500
24UC	E-R-G11-24UC	Low Fixed Charge, uncontrolled variable charge	\$/kWh	\$ 0.1610
AICO	E-R-G11-AICO	Low Fixed Charge, all inclusive variable charge <i>- closed for new installations</i>	\$/kWh	\$ 0.1360
CTRL	E-R-G11-CTRL	Low fixed charge, controlled variable charge	\$/kWh	\$ 0.0990
CTUD	E-R-G11-CTUD	Low fixed charge, day variable charge	\$/kWh	\$ 0.2060
NITE	E-R-G11-NITE	Low fixed charge, night variable charge	\$/kWh	\$ 0.0560
PROJ	E-R-G11-PROJ	Low Fixed Charge, projected variable charge <i>Cannot be selected by a customer</i>	\$/kWh	\$ 0.1610
DGEN	E-R-G11-DGEN	Low Fixed Charge, Distributed generation export variable charge	\$/kWh	\$ 0.0000

Continued on next page

Residential Pricing, Continued

9.7 DG price codes:
Price category G12

Hawke's Bay

Hawke's Bay Distributed Generation Standard Price Codes – G12				
Price Option	Price Code	Description	Units	Price 1 April 2018
	F-H-G12	Standard, Fixed charge	\$/day	\$ 1.7660
24UC	E-H-G12-24UC	Standard, uncontrolled variable charge	\$/kWh	\$ 0.0990
AICO	E-H-G12-AICO	Standard, all inclusive variable charge <i>- closed for new installations</i>	\$/kWh	\$ 0.0765
CTRL	E-H-G12-CTRL	Standard, controlled variable charge	\$/kWh	\$ 0.0420
CTUD	E-H-G12-CTUD	Standard, day variable charge	\$/kWh	\$ 0.1276
NITE	E-H-G12-NITE	Standard, night variable charge	\$/kWh	\$ 0.0350
PROJ	E-H-G12-PROJ	Standard, projected variable charge <i>Cannot be selected by a customer</i>	\$/kWh	\$ 0.0990
DGEN	E-H-G12-DGEN	Standard, distributed generation export variable charge	\$/kWh	\$ 0.0000

Rotorua/Taupo

Rotorua/Taupo Distributed Generation Standard Price Codes – G12				
Price Option	Price Code	Description	Units	Price 1 April 2018
	F-R-G12	Standard, fixed charge	\$/day	\$ 1.7530
24UC	E-R-G12-24UC	Standard, uncontrolled variable charge	\$/kWh	\$ 0.0875
AICO	E-R-G12-AICO	Standard, all inclusive variable charge <i>- closed for new installations</i>	\$/kWh	\$ 0.0670
CTRL	E-R-G12-CTRL	Standard, controlled variable charge	\$/kWh	\$ 0.0353
CTUD	E-R-G12-CTUD	Standard, day variable charge	\$/kWh	\$ 0.1120
NITE	E-R-G12-NITE	Standard, night variable charge	\$/kWh	\$ 0.0306
PROJ	E-R-G12-PROJ	Standard, projected variable charge <i>Cannot be selected by a customer</i>	\$/kWh	\$ 0.0875
DGEN	E-R-G12-DGEN	Standard, distributed generation export variable charge	\$/kWh	\$ 0.0000

10. General Price Category

10.1 Introduction

The price categories in this section apply to connections:

- that do **not** qualify for any of the Residential price categories in *Section 9*
- that are connected to the Low Voltage network, and
- where their capacity is up to and including 1 and 2 phase 60 Amp and 3 phase 20 Amp.

Temporary Supplies do **not** qualify for this group.

There are three price categories for this group of end-consumers, all of which provide for a fixed daily charge, and one or more variable \$/kWh charges:

- NDH: End-consumers with consumption greater than 6,000 kWh per annum (High User), **and**
- NDL: End-consumers with consumption less than 6,000 kWh per annum (Low User), **and**
- TCU: End-consumers within the General category that elect to be on a TOU plan.

The allocation of an end-consumer to either the NDH or NDL price category is based on the consumption submitted in the previous calendar year. Unison reserves the right to reassess a consumer if there has been a change of behaviour at the installation during the current year and it could be reasonably assumed that the consumption for the coming 12 month period would clearly fit into a different category.

Continued on next page

General Price Category, Continued

10.2 General
 low user price
 codes:
 Price
 category NDL

Hawke's Bay

Hawkes Bay General Low User Price Codes – NDL				
Price Option	Price Code	Description	Units	Price 1 April 2018
	F-H-NDL	Low user, fixed charge	\$/day	\$ 1.5500
24UC	E-H-NDL-24UC	Low user, uncontrolled variable charge	\$/kWh	\$ 0.0690
AICO	E-H-NDL-AICO	Low user, all inclusive variable charge <i>- closed for all installations</i>	\$/kWh	Closed
CTRL	E-H-NDL-CTRL	Low user, controlled variable charge	\$/kWh	\$ 0.0325
CTUD	E-H-NDL-CTUD	Low user, day variable charge	\$/kWh	\$ 0.0880
NITE	E-H-NDL-NITE	Low user, night variable charge	\$/kWh	\$ 0.0240
PROJ	E-H-NDL-PROJ	Low user, projected variable charge <i>Cannot be selected by a customer</i>	\$/kWh	\$ 0.0690
DGEN	E-H-NDL-DGEN	Low user, distributed generation export variable charge	\$/kWh	\$ 0.0000

Rotorua/Taupo

Rotorua/Taupo General Low User Price Codes – NDL				
Price Option	Price Code	Description	Units	Price 1 April 2018
	F-R-NDL	Low user, fixed charge	\$/day	\$ 1.5500
24UC	E-R-NDL-24UC	Low user, uncontrolled variable charge	\$/kWh	\$ 0.0610
AICO	E-R-NDL-AICO	Low user, all inclusive variable charge <i>- closed for all installations</i>	\$/kWh	Closed
CTRL	E-R-NDL-CTRL	Low user, controlled variable charge	\$/kWh	\$ 0.0295
CTUD	E-R-NDL-CTUD	Low user, day variable charge	\$/kWh	\$ 0.0780
NITE	E-R-NDL-NITE	Low user, night variable charge	\$/kWh	\$ 0.0210
PROJ	E-R-NDL-PROJ	Low user, projected variable charge <i>Cannot be selected by a customer</i>	\$/kWh	\$ 0.0610
DGEN	E-R-NDL-DGEN	Low user, distributed generation export variable charge	\$/kWh	\$ 0.0000

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General Price Category, Continued

10.3 General
 high user
 price codes:
 Price
 category NDH

Hawke's Bay

Hawke's Bay General High User Price Codes - NDH				
Price Option	Price Code	Description	Units	Price 1 April 2018
	F-H-NDH	High user, fixed charge	\$/day	\$ 1.1500
24UC	E-H-NDH-24UC	High user, uncontrolled variable charge	\$/kWh	\$ 0.0940
AICO	E-H-NDH-AICO	High user, all inclusive variable charge <i>- closed for all installations</i>	\$/kWh	Closed
CTRL	E-H-NDH-CTRL	High user, controlled variable charge	\$/kWh	\$ 0.0470
CTUD	E-H-NDH-CTUD	High user, day variable charge	\$/kWh	\$ 0.1220
NITE	E-H-NDH-NITE	High user, night variable charge	\$/kWh	\$ 0.0326
PROJ	E-H-NDH-PROJ	High user, projected variable charge <i>Cannot be selected by a customer</i>	\$/kWh	\$ 0.0940
DGEN	E-H-NDH-DGEN	High user, distributed generation export variable charge	\$/kWh	\$ 0.0000

Rotorua/Taupo

Rotorua/Taupo General High User Price Codes - NDH				
Price Option	Price Code	Description	Units	Price 1 April 2018
	F-R-NDH	High user, fixed charge	\$/day	\$ 1.1500
24UC	E-R-NDH-24UC	High user, uncontrolled variable charge	\$/kWh	\$ 0.0850
AICO	E-R-NDH-AICO	High user, all inclusive variable charge <i>- closed for all installations</i>	\$/kWh	Closed
CTRL	E-R-NDH-CTRL	High user, controlled variable charge	\$/kWh	\$ 0.0465
CTUD	E-R-NDH-CTUD	High user, day variable charge	\$/kWh	\$ 0.1087
NITE	E-R-NDH-NITE	High user, night variable charge	\$/kWh	\$ 0.0297
PROJ	E-R-NDH-PROJ	High user, projected variable charge <i>Cannot be selected by a customer</i>	\$/kWh	\$ 0.0850
DGEN	E-R-NDH-DGEN	High user, distributed generation export variable charge	\$/kWh	\$ 0.0000

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General Price Category, Continued

10.4 General
 TOU price
 codes:
 Price
 category TCU

Hawke's Bay

Hawke's Bay General TOU Price Codes – TCU				
Price Option	Price Code	Description	Units	Price 1 April 2018
	F-H-TCU	Fixed charge	\$/day	\$ 1.1500
CTRL	E-H-TCU-CTRL	Controlled variable charge	\$/kWh	\$ 0.0470
OFFPK	E-H-TCU-OFFPK	Off peak variable charge	\$/kWh	\$ 0.0470
ONPK	E-H-TCU-ONPK	On peak variable charge	\$/kWh	\$ 0.1810
DGEN	E-H-TCU-DGEN	Distributed generation export variable charge	\$/kWh	\$ 0.0000
KVAR	E-H-TCU-KVAR	Power Factor charge	\$/kVAr /month	\$ 7.5500
PROJ	E-H-TCU-PROJ	Projected variable charge <i>Cannot be selected by a customer</i>	\$/kWh	\$ 0.1810

Rotorua/Taupo

Rotorua/Taupo General TOU Price Codes – TCU				
Price Option	Price Code	Description	Units	Price 1 April 2018
	F-R-TCU	Fixed charge	\$/day	\$ 1.1500
CTRL	E-R-TCU-CTRL	Controlled variable charge	\$/kWh	\$ 0.0470
OFFPK	E-R-TCU-OFFPK	Off peak variable charge	\$/kWh	\$ 0.0470
ONPK	E-R-TCU-ONPK	On peak variable charge	\$/kWh	\$ 0.1580
DGEN	E-R-TCU-DGEN	Distributed generation export variable charge	\$/kWh	\$ 0.0000
KVAR	E-R-TCU-KVAR	Power Factor charge	\$/kVAr /month	\$ 7.5500
PROJ	E-R-TCU-PROJ	Projected variable charge <i>Cannot be selected by a customer</i>	\$/kWh	\$ 0.1580

11. Commercial Pricing

11.1 Introduction

The price categories in this section apply to end-consumers whose capacity is:

- greater than 1 and 2 phase 60 Amp and 3 phase 20 Amp, and
- less than or equal to 3 phase 1500 Amp.

The table in *point 2.4* is to be used to ensure end-consumers in this group are allocated to the correct price category for the capacity of their ICP.

Temporary Builders' Supplies do not qualify for this group of end-consumers.

11.2 Price option requirements

11.2.1 Overview

All price options for Commercial categories comprise a combination of a fixed daily charge and multiple variable charges based on consumption.

11.2.2 Time of Use Metering, Pricing and Billing

To accurately determine consumption and other service factors, Unison requires Time of Use meters and EIEP3 formatted data submissions are used for **all** end-consumers in the larger Commercial price categories MC3, MC5, MC6, MC7, MC8 and MC9.

For smaller commercial end-consumers in the MC1 and MC2 price categories, Unison provides the **option** of accumulative or TOU pricing. The latter is available where the end-consumer ICP has a TOU configured meter and register.

Where a MC1 or MC2 end-consumer has a TOU meter, the customer may elect one of the following two billing options:

- submit billing data as EIEP3 in which case the quantity will be billed on the time of use pricing outlined in this section, or
- submit billing data as EIEP1 in which case the quantity will be billed on the accumulative type prices.

Where data is submitted on EIEP3 format and therefore charged using TOU pricing it is the preference of Unison, where possible, that retailer switching occurs on the 1st day of the month. As TOU price options are monthly charges this will allow a more seamless billing process matching Customer Pricing Structures.

Within the Commercial price categories Time of Use price options may only apply where the structure of pricing charged to the end-consumer reasonably matches that which Unison charges the customer.

Unison accepts that the customer's definition of on peak and off peak periods may not match precisely with those of Unison. Unison has the discretion to determine whether the price charged to the end-consumer reasonably matches Unison's prices.

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Commercial Pricing, Continued

11.2 Price option requirements (cont)

11.2.3 Moratorium on Change of Billing Method

To protect both Unison and the consumer from fluctuation in distribution charges due to a change in the billing method, for instance a move from TOU to accumulative or vice versa, Unison instituted a moratorium on changes from 1 April 2016.

This means any ICP in either MC1 or MC2 price category as at 1 April 2016 must remain on the billing system that was in effect at that date. This moratorium will stay in effect until rescinded by Unison.

Unison is continuing to assess if there are more efficient, cost reflective pricing methodologies for MC1 and MC2 connections. While this process is being completed, it would be unreasonable to allow consumers to make decisions that may not be in their future best interests.

11.3 Small commercial price options

The following price options apply to end-consumers in the MC1 and MC2 price categories. These are end-consumers with capacity between 14 and 138 kVA.

End-consumers in these categories will pay a fixed daily charge together with multiple variable price options that match to the meter configuration for the ICP and wiring in to the customer's load control mechanism. Refer to *Section 4* for a detailed description of all the variable price options and *point 11.4* for details of the charges.

The variable price options for these categories may be combined to form the following **combinations**, provided the requirements outlined in *Section 4* are satisfied:

- 24UC only
- 24UC and CTRL
- 24UC and NITE
- NITE and CTUD, or
- SOPD, WOPD, DMND and KVAR (TOU ICPs).

Other price option combinations are available with the prior approval of Unison. Fixed daily charges also apply.

Continued on next page

Commercial Pricing, Continued

11.4 Small commercial price codes: Price categories MC1 and MC2

Hawke's Bay

Hawke's Bay Commercial Accumulative and TOU Price Codes – MC1 and MC2				
Price Option	Price Code	Description	Units	Price 1 April 2018
	F-H-MC1	Fixed charge >14 kVA and <=69 kVA	\$/day	\$ 3.5000
	F-H-MC2	Fixed charge >69 kVA and <=138 kVA	\$/day	\$ 9.0000
24UC	E-H-MC-24UC	Uncontrolled variable charge	\$/kWh	\$ 0.0740
CTRL	E-H-MC-CTRL	Controlled variable charge	\$/kWh	\$ 0.0370
CTUD	E-H-MC-CTUD	Day variable charge	\$/kWh	\$ 0.0970
NITE	E-H-MC-NITE	Night variable charge	\$/kWh	\$ 0.0270
SOPD	E-H-MC-SOPD	Summer On Peak Demand charge	\$/kW /month	\$ 3.5000
WOPD	E-H-MC-WOPD	Winter On Peak Demand charge	\$/kW /month	\$ 9.5000
DMND	E-H-MC-DMND	Anytime Maximum Demand charge	\$/kW /month	\$ 2.7000
KVAR	E-H-MC-KVAR	Power Factor charge	\$/kVAr /month	\$ 7.5500
PROJ	E-H-MC-PROJ	Projected variable charge <i>Cannot be selected by a customer</i>	\$/kWh	\$ 0.0740
DGEN	E-H-MC-DGEN	Distributed generation export variable charge	\$/kWh	\$ 0.0000

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Commercial Pricing, Continued

11.4 Small commercial price codes: Price categories MC1 and MC2 (cont)

Rotorua/Taupo

Rotorua/Taupo Commercial Accumulative and TOU Price Codes – MC1 and MC2				
Price Option	Price Code	Description	Units	Price 1 April 2018
	F-R-MC1	Fixed charge >14 kVA and <=69 kVA	\$/day	\$ 3.5000
	F-R-MC2	Fixed charge >69 kVA and <=138 kVA	\$/day	\$ 9.5000
24UC	E-R-MC-24UC	Uncontrolled variable charge	\$/kWh	\$ 0.0665
CTRL	E-R-MC-CTRL	Controlled variable charge	\$/kWh	\$ 0.0310
CTUD	E-R-MC-CTUD	Day variable charge	\$/kWh	\$ 0.0890
NITE	E-R-MC-NITE	Night variable charge	\$/kWh	\$ 0.0230
SOPD	E-R-MC-SOPD	Summer On Peak Demand charge	\$/kW /month	\$ 3.7000
WOPD	E-R-MC-WOPD	Winter On Peak Demand charge	\$/kW /month	\$ 10.0000
DMND	E-R-MC-DMND	Anytime Maximum Demand charge	\$/kW /month	\$ 2.7120
KVAR	E-R-MC-KVAR	Power Factor charge	\$/kVA _r /month	\$ 7.5500
PROJ	E-R-MC-PROJ	Projected variable charge <i>Cannot be selected by a customer</i>	\$/kWh	\$ 0.0665
DGEN	E-R-MC-DGEN	Distributed generation export variable charge	\$/kWh	\$ 0.0000

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Commercial Pricing, Continued

11.5 Large commercial price options

The following price options apply to commercial end-consumers MC3, MC5, MC6, MC7, MC8 and MC9 price categories.

ALL ICP's in these categories will pay fixed daily charges per the schedules below, together with the following combination of variable price options:

- SOPD
- WOPD
- DMND, and
- KVAR.

Time of Use meters and EIEP3 formatted data submissions are mandatory for **all** of these end-consumers.

In the event an end-consumer is in **breach** of this policy and does not have a TOU meter installed, and as such the SOPD, WOPD and DMND quantities cannot be calculated, the following combination of price options will apply, as well as fixed daily charges:

- DEFT, and
- KVAR.

See *Section 4* for details on each price option.

Continued on next page

Commercial Pricing, Continued

11.6 Large commercial price codes: Price categories MC3, MC5 to MC9

Hawke's Bay

Hawke's Bay Commercial Price Codes – MC3, MC5 to MC9				
Price Option	Price Code	Description	Units	Price 1 April 2018
	F-H-MC3	Fixed charge >138 kVA and <=277 kVA	\$/day	\$ 16.5000
	F-H-MC5	Fixed charge >277 kVA and <=436 kVA	\$/day	\$ 27.0000
	F-H-MC6	Fixed charge >436 kVA and <=554 kVA	\$/day	\$ 34.0000
	F-H-MC7	Fixed charge >554 kVA and <=693 kVA	\$/day	\$ 41.0000
	F-H-MC8	Fixed charge >693 kVA and <=866 kVA	\$/day	\$ 48.0000
	F-H-MC9	Fixed charge >866 kVA and <=1,039 kVA	\$/day	\$ 55.0000
SOPD	E-H-MC-SOPD	Summer On Peak Demand charge	\$/kW/month	\$ 3.5000
WOPD	E-H-MC-WOPD	Winter On Peak Demand charge	\$/kW/month	\$ 9.5000
DMND	E-H-MC-DMND	Anytime Maximum Demand charge	\$/kW/month	\$ 2.7000
KVAR	E-H-MC-KVAR	Power Factor charge	\$/kVAr/month	\$ 7.5500
DEFT	E-H-MC-DEFT	Default charge where TOU meter is required but not installed	\$/kWh	\$ 0.0890
DGEN	E-H-MC-DGEN	Distributed generation export variable charge	\$/kWh	\$ 0.0000

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Commercial Pricing, Continued

11.6 Large commercial price codes: Price categories MC3, MC5 to MC9 (cont)

Rotorua/Taupo

Rotorua/Taupo Commercial Price Codes – MC3, MC5 to MC9				
Price Option	Price Code	Description	Units	Price 1 April 2018
	F-R-MC3	Fixed charge >138 kVA and <=277 kVA	\$/day	\$ 17.6000
	F-R-MC5	Fixed charge >277 kVA and <=436 kVA	\$/day	\$ 28.0000
	F-R-MC6	Fixed charge >436 kVA and <=554 kVA	\$/day	\$ 36.0000
	F-R-MC7	Fixed charge >554 kVA and <=693 kVA	\$/day	\$ 44.0000
	F-R-MC8	Fixed charge >693 kVA and <=866 kVA	\$/day	\$ 52.0000
	F-R-MC9	Fixed charge >866 kVA and <=1,039 kVA	\$/day	\$ 60.0000
SOPD	E-R-MC-SOPD	Summer On Peak Demand charge	\$/kW/month	\$ 3.7000
WOPD	E-R-MC-WOPD	Winter On Peak Demand charge	\$/kW/month	\$ 10.0000
DMND	E-R-MC-DMND	Anytime Maximum Demand charge	\$/kW/month	\$ 2.7120
KVAR	E-R-MC-KVAR	Power Factor charge	\$/kVAr/month	\$ 7.5500
DEFT	E-R-MC-DEFT	Default charge where TOU meter is required but not installed	\$/kWh	\$ 0.0860
DGEN	E-R-MC-DGEN	Distributed generation export variable charge	\$/kWh	\$ 0.0000

Continued on next page

Commercial Pricing, Continued

11.7 Dedicated equipment charges

11.7.1 Introduction

This section applies to end-consumers in all commercial price categories that are connected to the High Voltage network via dedicated transformers owned by Unison. These end-consumers receive a higher level of service and as such attract a dedicated transformer charge to reflect this.

Note

These charges and discounts are in addition to other applicable charges.

Where an end-consumer's transformer is of a size that does not align to a specified price option the applicable price option is the one for the next highest specified transformer size. For example, a 250kVA transformer will be charged using the 300kVA transformer price option.

11.7.2 Dedicated Equipment Charges Price Codes

Hawke's Bay

Hawke's Bay Dedicated Equipment Charges – MC1 through to MC9				
Price Option	Price Code	Description	Units	Price 1 April 2018
T020	F-H-MC-T020	Dedicated transformer charge. Capacity 200kVA	\$/day	\$ 5.0000
T030	F-H-MC-T030	Dedicated transformer charge. Capacity 300kVA	\$/day	\$ 6.6000
T050	F-H-MC-T050	Dedicated transformer charge. Capacity 500kVA	\$/day	\$ 8.6500
T075	F-H-MC-T075	Dedicated transformer charge. Capacity 750kVA	\$/day	\$ 10.7500
T100	F-H-MC-T100	Dedicated transformer charge. Capacity 1,000kVA	\$/day	\$ 12.7500
T150	F-H-MC-T150	Dedicated transformer charge. Capacity 1,500kVA	\$/day	\$ 14.0000

Continued on next page

Commercial Pricing, Continued

11.7 Dedicated equipment charges (cont)

Rotorua/Taupo

Rotorua/Taupo Dedicated Equipment Charges – MC1 through to MC9				
Price Option	Price Code	Description	Units	Price 1 April 2018
T020	F-R-MC-T020	Dedicated transformer charge Capacity 200kVA	\$/day	\$ 5.0000
T030	F-R-MC-T030	Dedicated transformer charge Capacity 300kVA	\$/day	\$ 6.6000
T050	F-R-MC-T050	Dedicated transformer charge Capacity 500kVA	\$/day	\$ 8.6500
T075	F-R-MC-T075	Dedicated transformer charge Capacity 750kVA	\$/day	\$ 10.7500
T100	F-R-MC-T100	Dedicated transformer charge Capacity 1,000kVA	\$/day	\$ 12.7500
T150	F-R-MC-T150	Dedicated transformer charge Capacity 1,500kVA	\$/day	\$ 14.0000

11.8 Consumer owned asset discount

This section covers a discount applying to some end-consumers in *point 11.7*. The discount is intended to reflect the end-consumer's investment made in the purchase of transformer(s) **prior to 1 April 2011**.

The discount is a flat rate per end-consumer independent of the size or number of transformers that are owned by the end-consumer or third party, and is applied where:

- the end-consumer was in the L40 price category as at 1 April 2011
- the end-consumer, or a third party, owned the dedicated transformer as at 1 April 2011, **and**
- the ICP to which the discount is to apply was supplied by the dedicated transformer, or another dedicated transformer of the same kVA rating, as at 1 April 2011.

Note

This discount is in addition to all other applicable charges

Continued on next page

Commercial Pricing, Continued

**11.8
 Consumer
 owned asset
 discount
 (cont)**

Hawke's Bay

Hawke's Bay Consumer Owned Asset Discount				
Price Option	Price Code	Description	Units	Price 1 April 2018
COAD	F-H-MC-COAD	Discount for consumer or third party owned transformer	\$/day	\$ -1.9000

Rotorua/Taupo

Rotorua/Taupo Consumer Owned Asset Discount				
Price Option	Price Code	Description	Units	Price 1 April 2018
COAD	F-R-MC-COAD	Discount for consumer or third party owned transformer	\$/day	\$ -1.9000

12. Large Consumer Pricing

12.1 Introduction

The large consumer/I60 price category applies to end-consumers with capacity greater than 1037kVA.

Capacity refers to the capacity of the end-consumer's **site**. There may be more than one ICP on a site and individual ICPs within the site may or may not have capacity greater than 1037kVA. Unison will determine at its sole discretion the ICPs constituting the end-consumer's site and whether the site exceeds the 1037 kVA threshold.

Price category I60 may apply, at Unison's sole discretion, to other end-consumers with a capacity less than 1,037 kVA where:

- an end-consumer has a dedicated supply system which is quite different and separate from the remainder of the supply network, **or**
- an end-consumer is connected at, or close to, a transmission connection point and the inclusion of the cost of average shared network would increase their network price above stand-alone costs, **or**
- the site has embedded generation, **or**
- inequitable treatment of otherwise comparable consumers arising from the 1,037 kVA threshold (e.g. residential embedded networks), **or**
- the end-consumer's consumption results in Unison incurring transmission interconnection costs significantly different to transmission interconnection costs that result from otherwise comparable consumers, **or**
- the end-consumer's load profile is significantly different from otherwise comparable consumers, **or**
- the end-consumer and Unison agree the end-consumer will be individually priced.

Time of Use meters are mandatory for the I60 group of end-consumers.

A power factor charge also applies where the end-consumers power factor is less than 0.95 as outlined in *point 4.11*.

Continued on next page

Large Consumer Pricing, Continued

12.2 Large consumer price options

Delivery charges for the I60 price category are calculated on an individual basis, and may contain a mixture of fixed and variable rates.

Charges are subject to periodic review based on site-specific information, which may include assets employed and/or AMD. Unison will give the customer 45 days' notice of new individual charges.

Hawke's Bay

Hawke's Bay Industrial Price Codes – I60				
Price Option	Price Code	Description	Units	Price 1 April 2018
	F-H-I60-xxx	Capacity >=1MVA. Individually priced	\$/day	\$ POA
KVAR	E-H-I60-KVAR	Power Factor charge	\$/kVAr/month	\$ 7.5500
DEFT	E-H-I60-DEFT	Default charge where TOU meter is required but not installed	\$/kWh	\$ 0.0890
DGEN	E-H-I60-DGEN	Distributed generation export variable charge	\$/kWh	\$ 0.0000

Rotorua/Taupo

Rotorua/Taupo Industrial Price Codes – I60				
Price Option	Price Code	Description	Units	Price 1 April 2018
	F-R-I60-xxx	Capacity >=1MVA. Individually priced	\$/day	\$ POA
KVAR	E-R-I60-KVAR	Power Factor charge	\$/kVAr/month	\$ 7.5500
DEFT	E-R-I60-DEFT	Default charge where TOU meter is required but not installed	\$/kWh	\$ 0.0860
DGEN	E-R-I60-DGEN	Distributed generation export variable charge	\$/kWh	\$ 0.0000

13. Load Management System – Technical Specification

13.1 Introduction

Unison's load management service supports the efficient and secure operation of the distribution network for the benefit of retailers and consumers. To maintain the integrity of this service it is important that the replacement and installation of new load control equipment by MEPs is coordinated with the characteristics of Unison's load management system in each network area. The technical specification for each of Unison's network areas is provided below.

13.2 Hawke's Bay

In Hawke's Bay Unison operates a load management system using ripple injection plants operating at 233 Hz. In older areas of Unison's Hawke's Bay network, a pilot wire network is also in operation. Details of these systems are outlined in the following technical specification.

Circuit No.	Operation	Program Time On/ Time Off	Area	GXP
Water Heating and Miscellaneous				
No. 1 HW	DC Pilot		Hastings Central	WTU
No. 2 HW	DC Pilot		Flaxmere	FHL
No. 3 HW	DC Pilot		Mahora, part on Ch 19 Ripple	WTU
No. 4 HW	DC Pilot		Whakatu, Clive, Haumoana, (Ch17 Te Awanga and Clifton)	WTU
No. 5 HW	RTU		Havelock & Arataki	WTU, FHL
No. 6 HW	DC Pilot		Hastings North East Area	WTU
No. 7 HW	DC Pilot		Camberley and Frimley	FHL
No. 8 HW	DC Pilot		Napier Central	RDF
No. 9 HW	DC Pilot		Taradale	RDF
No.10 HW	DC Pilot		Tannery/Piramai/Greenmeadows	RDF
No.11 HW	DC Pilot		Marewa, Westshore, Awatoto, Onekawa, Maraenui	WTU
No.12 HW	DC Pilot			RDF
CH 5	Ripple		All Areas VAD Control	
CH 6	Ripple		(exTOU easypay)	
CH 7	Ripple	23:00Hrs - 07:00Hrs	All Areas On - @ 23:00 Off @ 07:00	
CH 8	Ripple	23:00Hrs - 07:00Hrs	All Areas On - @ 23:00 Off @ 07:00	
CH 9	Ripple		Low Frequency Low Shed All Areas	
CH 11	Ripple		Low Frequency Low Shed All Areas	
Water Heating				
CH 10	Ripple		Substations ex pilots	
CH 12	Ripple			
CH 13	Ripple		RURAL HW All Areas	All
CH 14	Ripple		CITY HW	WTU
CH 15	Ripple		CITY HW, Marewa and Bluff	WTU
CH 16	Ripple		Napier HW - LFLS Capable	RDF
CH 17	Ripple		Hastings HW - LFLS Capable	FHL

Continued on next page

Load Management System – Technical Specification, Continued

13.2 Hawke’s Bay (cont)

Circuit No.	Operation	Program Time On/ Time Off	Area	GXP
CH 18	Ripple		Napier HW - LFLS Capable	RDF
CH 19	Ripple		Hastings HW - LFLS Capable	WTU
CH 20	Ripple		Hastings HW - LFLS Capable	FHL
Space Heating Circuits				
CH 23	Ripple	Storage/ Panel Comb.	Northern Area	
CH 24	Ripple		Southern Area	
CH 25	Ripple		All Areas	
Street Light Circuits				
CH 21	Ripple	Dusk/Dawn	Street lighting	
CH 22	Ripple	Dusk/23:00hrs	Under veranda lighting	
ALL (A02)	Ripple	14:30hrs every day	All channels	

Unison is progressively decommissioning the legacy pilot wire network in the course of its asset management activities. Any new or replacement load control equipment installed at a consumer’s premise should be ripple receiving equipment able to comply with this technical specification.

13.3 Taupo

In Taupo, Unison operates a load management system using ripple injection plants operating at 725 Hz. Details of these systems are outlined in the following technical specification.

Channel	Type	Description
01	D01	
02	D02	
03	D03	
04	D04	
05	D05	
06	D06	23:00 - 07:00 Daily: (Night)
07	D07	Community Lighting
08	D08	23:00 - 07:00 Weekdays and 23:00 Friday - 07:00 Monday (not used)
09	D09	Street Lighting
10	D10	Hot Water - Load Sedding
11	D11	Hot Water
12	D12	Hot Water
13	D13	Hot Water
14	D14	Hot Water
15	D15	Hot Water
16	D16	

Continued on next page

Load Management System – Technical Specification, Continued

13.3 Taupo (cont)

Channel	Type	Description
17	D17	
18	D18	
19	D19	
20	D20	Load Control
21	D21	Night controlled with afternoon boost; Available 00:00-7:00 and 14:00-16:00
22	D22	Spare
23	D23	
24	D24	
25	D25	

13.4 Rotorua

In Rotorua Unison operates a load management system using ripple injection plant operating at 317 Hz and 500 Hz. Details of these systems are outlined in the following technical specification.

Channel	Type	Description
100-00	D00	Domestic Water Heating
100-01	D01	+ K22/2 Domestic Water Heating
100-02	D02	+ K22/6 Domestic Water Heating
100-03	D03	+ K22/10 Domestic Water Heating
100-04	D04	+ K22/14 Domestic Water Heating
100-05	D05	Domestic Water Heating
100-06	D06	+ K22/22 Domestic Water Heating
100-07	D07	Domestic Water Heating
100-08	D08	Domestic Water Heating
100-09	D09	Commercial Water Heating
100-10	D10	Commercial Water Heating
100-11	D11	Domestic Water Heating
100-12	D12	Domestic Water Heating
100-13	D13	Domestic Water Heating
100-14	D14	+ K22/18 Domestic Water Heating
103-15	D15	Street Lights Ngongotaha
103-16	D16	Street Lights Koutu and Kawaha Point
103-17	D17	Street Lights Western Heights
103-18	D18	Street Lights Central City
103-19	D19	Street Lights Sunset Road
103-20	D20	Street Lights Pukehangi Rd Gem St
103-21	D21	Street Lights Ranolf St Hillcrest
103-22	D22	Street Lights Westbrook
103-23	D23	Street Lights Springfield
103-24	D24	Street Lights Sophia Street Tihitonga
103-25	D25	Street Lights Fenton Park Whaka
103-26	D26	Street Lights Lynmore
103-27	D27	Street Lights Rural North and East
103-28	D28	Street Lights Rural North and West
103-29	D29	+ K22/5 Street Lights General

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Load Management System – Technical Specification, Continued

13.4 Rotorua (cont)

Channel	Type	Description
106-30	D30	+ K22/9 Spa Pool
106-31	D31	Spare
106-32	D32	Commercial Water Heating
106-33	D33	Commercial Water Heating
106-34	D34	Commercial Water Heating
107-35	D35	Spare
107-36	D36	Storage Load from 2100-1700
107-37	D37	Spare
107-38	D38	Spare
107-39	D39	Spare
109-47	D47	+ K22/3 Under Veranda lighting
110-50	D50	Night Store Heating
110-51	D50	Night Store Heating
110-52	D50	Night Store Heating
110-53	D50	Night Store Heating
110-54	D50	Spare
110-55	D50	Two Rate Metering 2300-0700
110-56	D50	Night Store Heating (Sun-Thurs)
110-57	D50	Super 10 & KP
110-58	D50	Dual Rate 2200-0700
110-59	D50	Dual Rate 2000-0700 (Sun -Thurs)
112-60	61	HW Channel
112-61	61	HW Channel
112-62	62	HW Channel
112-63	63	HW Channel
112-64	64	HW Channel
112-65	65	HW Channel
112-66	66	HW Channel
112-67	67	HW Channel
112-68	68	HW Channel
112-69	69	HW Channel
114-70	70	HW Channel
114-71	71	HW Channel
114-72	72	HW Channel
114-73	73	HW Channel
114-74	74	HW Channel
114-75	75	HW Channel
114-76	76	HW Channel
114-77	77	HW Channel
114-78	78	HW Channel
114-79	79	HW Channel
116-80	80	HW Channel
116-81	81	HW Channel
116-82	82	HW Channel
116-83	83	HW Channel
116-84	84	HW Channel
117-85	85	HW Channel

Continued on next page

Load Management System – Technical Specification, Continued

13.4 Rotorua (cont)

Channel	Type	Description
117-86	86	HW Channel
117-87	87	HW Channel
117-88	88	HW Channel
117-89	89	HW Channel
118-90	90	HW Channel
118-91	91	HW Channel
118-92	92	HW Channel
118-93	93	HW Channel
118-94	94	HW Channel
95	95	HW Channel
96	96	HW Channel
97	97	HW Channel
98	98	HW Channel
99	99	HW Channel

Unison is progressively decommissioning the 500 Hz load signalling equipment in the course of its asset management activities. The Owhata 500 Hz ripple injection plant is expected to be decommissioned in 2019 due to age and reliability issues. The Arawa 500 Hz plant is expected to be decommissioned in 2020.

MEP's should ensure sites have load control equipment capable of receiving 317 Hz. To avoid consumer issues identified during recent outages, those sites not equipped for this standard should be identified by MEP's and suitable equipment installed prior to 2019.

In Rotorua, Unison has a zone or feeder based load management system. Any new or replacement load control equipment installed at a consumer's premises should be ripple receiving equipment able to receive 317 Hz and comply with this specification. Each new or replacement ripple receiver must have the appropriate channel for the load control zone where the ICP is located. MEPs should contact Unison for a list of ICPs in each load control zone.

14. Billing and Settlement Process

14.1 General To achieve an efficient billing and settlement process both Unison and retailer recognise that the timely supply of accurate information facilitates the process of calculating accurate delivery charges and providing these to retailers.

14.2 Retailer’s responsibility for points of connection

14.2.1 Responsibilities

When establishing or altering the physical status of a point of connection the retailer will adhere to the processes set out in the Use of System Agreement and any relevant Unison policy.

Unison will maintain a database of points of connection. This database will be:

- referenced by installation control points, and
- aligned to the information held by the Registry appointed under the Code to identify:
 - which retailer is responsible for an installation control point, and
 - the status of the point of connection.

The retailer may request, for all installation control points where Unison has the retailer listed as being responsible, an electronic copy of the relevant part of the database.

14.2.2 Monthly Data Provision and Billing Timeline

The table below lists the monthly data provision and billing timelines.

Billing Timeline	Data Provision
Fifth (5 th) working day of the month	Traders provide consumption data in EIEP1 and EIEP3 format.
Sixth (6 th) working day of the month	Traders to provide EIEP4 CUSIN file.
Tenth (10 th) working day of the month	Invoices produced for traders and direct customers.

Each trader must provide consumption data for the month to be billed on or before the fifth (5th) working day of the following month. This data is to be submitted through the secure Electricity registry portal.

The data should be provided in one of the following preferred formats:

- incremental normalised format
- replacement normalised methodology, or
- incremental replacement normalised methodology.

Continued on next page

Billing and Settlement Process, Continued

14.2 Retailer's responsibility for points of connection (cont)

The data is adjusted to reflect a start and end date that matches the start and end date of the month to be billed. This must be compliant with the Electricity Authority EIEP1 and EIEP3 protocols.

Retailers may not switch between submission types without consultation with, and approval by Unison.

If a trader has not submitted a compliant file by the fifth (5th) working day of the month, Unison may estimate volume for those ICPs.

Unison will calculate monthly line charges based on the consumption data provided by each trader, or where these are unavailable, using the volumes estimated by Unison as detailed below.

For any active ICPs where consumption data is:

- not provided
- incomplete
- materially incorrect, or
- not in compliant format.

Unison may estimate consumption for that month based on historical consumption data for the ICP in question.

Unison will provide an output file of all amounts invoiced with each invoice issued. The detail file will be in the relevant Electricity Authority EIEP file format.

14.3 Revision cycles

Both Unison and the retailer recognise 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.

Each revision cycle will account for changes in fixed and variable line charges due, based on retailer switches, status changes and replacement data submitted by retailers.

The retailer may submit replacement data up to 14 months from the consumption month to which the replacement data relates.

Where Unison reasonably considers an additional revision cycle is required, it may, at its discretion or the request of Unison, perform an additional month's revision in addition to the three (3), seven (7) and 14 month revisions.

Continued on next page

Billing and Settlement Process, Continued

14.4 Data submission

Consumption data must be submitted by the retailer for each end-consumer using:

- a price option within a price category in accordance with the Pricing Policy, and
- the tables containing Unison Electricity Distribution Delivery Prices that are in effect and published on Unison's website www.unison.co.nz.

Each monthly volume quantity submitted will incorporate for each ICP a volume for each meter register code as per the price options.

Where a customer submits data against a charge, which does not appear in the current published pricing schedule as found at www.unison.co.nz, these quantities will be charged at the projected rate for the price category, which Unison deems appropriate, at Unison's sole discretion.

Examples of data which will be charged at the projected rate include (but are not limited to):

- data submitted under a price option code which does not apply to the end-consumer's price category (e.g. AICO data submitted for a MC1 end-consumer), and
- data submitted under unapproved combinations (e.g. data being submitted for a M11 end-consumer under both the AICO and CTRL price options).

Note

As outlined in *Section 4*, where an end-consumer is required to have a TOU meter but does not, the Default price option will apply.

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Billing and Settlement Process, Continued

14.5 Under- payment recovery charge

Underpayment recovery charge applies if, (notwithstanding and independent of the procedure for selection of a price category or price option set out in *point 5.1*) at any time Unison is satisfied (acting reasonably) that a price category or price option has been at any time incorrectly allocated to an end-consumer's ICP (that is, the end-consumer or its ICP does not meet the criteria for the price category or price option which has been allocated) and as a result the customer has underpaid Unison.

Unison:

- may charge the customer any underpayment by the customer for the incorrect allocation. Interest is calculated at the interest rate on the first day of the period the price category and price option was incorrectly allocated for the period from such day to the date of payment of the charge (such charge and interest being referred to in this Pricing Policy as the Underpayment recovery charge)
 - may move the end-consumer from the incorrect price category or price option to the appropriate price category or price option, and
 - adjust the delivery charges historically accordingly.
-

15. Other Charges

15.1 Charges All charges below will be invoiced directly to the customer.

All non-distribution network fault work or customer services not listed below will be charged to the customer on a time and materials basis at market rates.

Price Category Change Fee	Charge \$
Payable by the retailer when an end-consumer's price category or option, within the residential/general end-consumer's price category, is changed more than once in any 12-month period.	\$30 per end-consumer's point of connection (payable for the second and each subsequent instance).

Fixed Charge Recovery Fee	Charge \$
Payable by the customer when either:	
An end-consumer's price category is changed more than once in any 12 month period when the end-consumer has at any time during that 12 month period been allocated to any of the MC1, MC2, MC3, MC5, MC6, MC7, MC8, MC9 or I60 price categories.	<p>Calculated as the difference between:</p> <ul style="list-style-type: none"> the fixed charges due over the 12 month period if the end-consumer had been in the higher price category for the entire 12 month period <p>and</p> <ul style="list-style-type: none"> the fixed charges actually charged to the customer over the 12 month period. <p>The charge will be applied using the prices current on the date that the second or subsequent price category change was made.</p>
An ICP is disconnected for seasonality reasons and reconnected in any 12 month period where that ICP has at any time during that 12 month period been allocated to any of the MC1, MC2, MC3, MC5, MC6, MC7, MC8, MC9 or I60 price categories.	The fixed charges due over the 12 month period if the end-consumer had not seasonally disconnected.
This charge applies at Unison's sole discretion.	

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Other Charges, Continued

15.1 Charges (cont)

Non-Network Fault Callout Fee	Charge \$
Payable when a customer requests a fault service call that, upon investigation, is determined to be a non-network fault (i.e. 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.	Time and materials basis at market rates.

Energising Fee	Charge \$
This charge is payable when Unison energises a new end-consumer's point of connection for the first time, by inserting the fuse, or re-energises the point of connection where the end-consumer's equipment has been materially modified.	\$30 per end-consumer's point of connection

Communications Fee	Charge \$
This is payable where the customer chooses not to request services from Unison using Unison's electronic communication process and instead uses email and fax communication. The charge will not be charged until Unison has made the electronic communication process available for use.	\$15 per inbound request

Ad hoc Reporting Fee	Charge \$
Payable where a customer requests an ad hoc report that is not generally supplied by Unison.	\$90 per hour or such other fee as may be agreed.

Data Management Fee	Charge \$
This charge is payable where data required from the customer to Unison does not comply with the requirements of the Network Agreement. The customer will be charged based on the actual time spent by a billing analyst to review, correct, validate and reconcile the information.	\$90 per hour

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Other Charges, Continued

15.1 Charges (cont)

Load Management Fee	Charge \$
Unless otherwise agreed with the customer, Unison will provide load controlling and load shifting between Grid Exit Points on a case-by-case basis.	To be negotiated

Power Factor Assessment Fee	Charge \$
Payable by the customer where the customer or end-consumer requests an assessment of the end-consumer's power factor.	Time and materials basis at market rates.

Capacity Change Fee	Charge \$
<p>In the event an end-consumer requires a capacity increase, and the capacity of the ICP has been decreased within the preceding two years, the customer will be required to back pay up to two years at the highest price that has applied during that two year period.</p> <p>Unison may waive this requirement or shorten the time period to which back payments apply, at Unison's sole discretion, if Unison believes that there has been a genuine change in end-consumer at the ICP during this two year window.</p>	Individually priced

16. Loss Factors

16.1 Disclosure of calculated loss factors

Unison regularly calculates and discloses electrical loss factors representing any loss of electricity as a result of transporting and distributing it across Unison's network and network assets.

These include losses consumed during the delivery to end-consumers' point of connection (technical loss factors).

Anyone wanting information on the methodology, calculation or values of loss factors attributable to Unison's network is welcome to review the System Loss Allocation Standards and System Loss Allocation Spreadsheet available on Unison's public website:

<https://www.unison.co.nz/tell-me-about/unison-group/publications-disclosures>

Appendix A – Summary of Document Changes

Date	Version No.	Changes to Document	Creator	Authoriser	Approver
25/09/2006	1.0	New format, new methodologies and new rates to take effect 1 Dec. 2006.	Commercial Analyst	GM Finance & Commercial	Chief Executive
12/10/2006	1.1	Changes only to Rotorua/Taupo region. Mass Market rates, methodology and structure adjusted back to as applied from 1 April 2006. Changes to proposed Large Commercial rates.	Commercial Analyst	GM Finance & Commercial	Chief Executive
31/01/2007	1.2	New rates effective 1 Apr 2007. Updated pricing methodology described further in Section 15.	Commercial Analyst	GM Finance & Commercial	Chief Executive
19/04/2007	2.0	Made tables bigger and easier to read, made the power factor charges more obvious in the policy.	Commercial Analyst	GM Finance & Commercial	Chief Executive
25/01/2008	3.0	Updated tables with new rates effective 1 April 2008. Removed 100kVA dedicated transformer charges. Removed Disconnection/Reconnection rates from other charges.	Commercial Analyst	GM Finance & Commercial	Chief Executive
03/03/2009	4.0	Renamed document & Updated tables with new rates effective 1 April 2009.	Commercial Specialist	Commercial Manager	Chief Executive
31/03/2010	5.0	Introduced new commercial, seasonal and TOU Tariffs. New rates to take effect 1 April 2010.	Commercial Specialist	Commercial Manager	Chief Executive
07/04/2010	5.1	Section 13 Loss Factors – addition of the new price categories to the Loss Factor tables in 13.1.1.	Commercial Specialist	Commercial Manager	Chief Executive
31/1/2011	6.0	Revised the residential TOU controlled thresholds, lowered the TOU tariff threshold, New rates to take effect 1 April 2011.	Customer Pricing & Billing Manager	Commercial Manager	Group Chief Executive
31/1/2012	7.0	New rates to take effect 1 April 2012. Inclusion of DEFT rates and TCU TOU price category. Removal of L40 price category.	Pricing Analyst	GM Pricing and Regulatory	Group Chief Executive
31/1/2013	8.0	New Policy Format. Distributed generation requirements added. MC4 price category replaced by MC5-MC9.	Pricing Analyst	GM Pricing and Regulatory	Group Chief Executive

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Appendix A – Summary of Document Changes, Continued

Date	Version No.	Changes to Document	Creator	Authoriser	Approver
26/03/2014	9.0	Limits for unmetered supplies. AICO closed to new installations and alterations to existing installations. Eligibility checks for DNR installations.	Pricing Analyst	GM Business Assurance	Group Chief Executive
30/03/2015	10.0	Alteration to Section 5, change of ICP details. Include tariffs in tariff code tables. Addition of Section 15 to cover billing requirements.	Pricing Analyst	GM Business Assurance	Group Chief Executive
30/03/2016	11.0	Replacement of the word 'tariff' with 'price' as recommended by ENA Distribution Pricing Working Group. Non-Domestic price category renamed to the General price category. AICO price option closed for General price category. Introduction of the G11 and G12 Generation price categories. Introduction of a fixed daily charge to the U03 Unmetered price category.	Pricing Analyst	GM Business Assurance	Group Chief Executive
21/03/2017	12.0	Eligibility for DG connections extended to include THU and TLU. CTRL, CTUD and NITE price options included to G11 and G12 categories. Updated prices to those applying from 1 April 2017.	Pricing Analyst	GM Business Assurance	Group Chief Executive

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Appendix A – Summary of Document Changes, Continued

Date	Version No.	Changes to Document	Creator	Authoriser	Approver
26/03/2018	13.0	Eligibility for Time of Use pricing updated. Clarified codes for use in charging EV's at place of residence Re-order of content to better clarify eligibility criteria and open/closing dates of key options. Update to definitions.	Pricing Manager	GM Business Assurance	Group Chief Executive