

Pricing Schedule and Policy

Version: v2020.1
 Effective: 1 April 2020

Service charges

In addition to the prices listed in this schedule, the Distributor also charges for other services such as reconciliation/allocation services, disconnection and reconnection services. The table below outlines the charges applicable to these other services. Unless stated otherwise all service charges below will be invoiced directly to the Retailer by the Distributor and not to the Consumer.

Fee	Description	Charge (exc.GST)
New connection or site visit fee	Payable for any site visit by the Distributor requested by the Retailer. Examples of site visits include, but are not limited to, energising a new point of connection for the first time, non-network call outs, temporary disconnection/reconnection, urgent after hours disconnection, and vacant site disconnection/reconnection.	\$120 per site visit
Late, incorrect or incomplete consumption data fee	This fee is payable where consumption data does not comply with the requirements of this agreement. It will be charged on the basis of the actual time spent by a billing analyst to review, correct, validate and reconcile the information and/or system time to bill or rebill the corrected or amended data.	\$100 per hour

All non-network fault work, Retailer or Consumer services not listed above will be charged to the Retailer on a time and materials basis at market prices.

Electricity network loss factors

In accordance with clause 7, the Distributor will calculate Loss Factors in accordance with the Loss factor guidelines, if such guidelines are available. Losses and Loss Factors may be reviewed and amended by Vector from time to time, on reasonable notice to the Retailer, to ensure that they reflect unaccounted for electricity on the Network.

Price schedule

Electricity Distribution Network

Applicable from 1 April 2020

Vector own the network lines that deliver power to Aucklanders, from Wellsford to Papakura. Our network consists of more than 18,000kms of overhead lines and underground cables.

This schedule describes Vector’s standard prices for providing electricity distribution services in respect of consumers on the Northern and Auckland electricity distribution networks.

The network that consumers are supplied from is determined by Vector from time to time based on the physical location of the point of connection of the consumer’s electrical installation. The approximate areas covered by the Northern and Auckland electricity distribution network are shown in the adjacent map.



Prices for residential and general consumers (excluding GST)

Consumer group	Price category type	Price category description	Price category code(s)	Daily	Daily	Volume anytime	Volume anytime	Volume off-peak	Volume peak	Volume injection
				\$/day	\$/day /fitting	\$/kWh	\$/kWh	\$/kWh	\$/kWh	\$/kWh
				-FIXD	-FIXD	-24UC	-AICO	-OFFPK	-PEAK	-INJT
Residential - low user	Time of use	Uncontrolled	ARHL, WRHL	0.15				0.0621	0.1542	-
		Controlled	ARHLC, WRHLC	0.15				0.0621	0.1354	-
	Exemption	Uncontrolled	ARUL, WRUL	0.15		0.0925				-
		Controlled	ARCL, WRCL	0.15			0.0863			-
Residential - standard	Time of use	Uncontrolled	ARHS, WRHS	1.01				0.0229	0.1150	-
		Controlled	ARHSC, WRHSC	1.01				0.0229	0.0962	-
	Exemption	Uncontrolled	ARUS, WRUS	1.01		0.0533				-
		Controlled	ARCS, WRCS	1.01			0.0471			-
General	Unmetered	Unmetered	ABSU, WBSU		0.08	0.0257				-
	Time of use	Uncontrolled	ABSH, WBSH	1.01				0.0229	0.1150	-
	Exemption	Uncontrolled	ABSN, WBSN	1.01		0.0533				-

Prices for commercial consumers (excluding GST)

Consumer group	Price category description	Price category code	Daily	Volume anytime	Capacity	Demand	Excess demand	Power factor	Volume injection
			\$/day	\$/kWh	\$/kVA/day	\$/kVA/day	\$/kVA/day	\$/kVAr/day	\$/kWh
			-FIXD	-24UC	-CAPY	-DAMD	-DEXA	-PWRF	-INJT
Low voltage	Non time of use	ALVN	1.78	0.0541	0.0421			0.2917	-
		WLVN	5.74	0.0335	0.0339			0.2917	-
	Time of use	ALVT		0.0120	0.0421	0.2917		0.2917	-
		WLVH	10.82	0.0050	0.0339	0.2628		0.2917	-
Transformer	Non time of use	ATXN	1.74	0.0530	0.0412			0.2917	-
		WTXN	5.63	0.0328	0.0332			0.2917	-
	Time of use	ATXT		0.0117	0.0412	0.2858		0.2917	-
		WTXH	10.61	0.0049	0.0332	0.2575		0.2917	-
High voltage	Non time of use	AHVN	1.68	0.0514	0.0399			0.2917	-
		WHVN	5.46	0.0318	0.0322			0.2917	-
	Time of use	AHVT		0.0113	0.0399	0.2772	0.8778	0.2917	-
		WHVH	10.30	0.0048	0.0322	0.2498	0.7084	0.2917	-

Loss Factors

For the purpose of calculating the Distributor's charges for Distribution Services, unless otherwise specified, the Loss Factors detailed in this section do not need to be applied to the electricity measured at each Consumer's Point of Connection. These tables show the distribution loss percentages and Loss Factors for each Loss Factor code and the Loss Factor codes for each price category depending on metering configuration.

Loss Factor code	Distribution losses with respect to the GXP meter	Distribution Loss Factors with respect to the Consumer meter
VECA1	3.95%	1.0413
VECA2	2.87%	1.0303
VECA3	2.87%	1.0303
VECA4	1.40%	1.0148
VECW1	4.61%	1.0514
VECW2	3.69%	1.0408
VECW3	3.69%	1.0408
VECW4	1.67%	1.0208

Auckland Network

Consumer Type	Price category	Loss Factor code (LV metered)	Loss Factor code (HV metered)
Residential	ARCL, ARUL, ARHL, ARHLC, ARCS, ARUS, ARHS, ARHSC	VECA1	VECA1
General	ABSU, ABSN, ABSH	VECA1	VECA1
	ALVN	VECA1	VECA1
Commercial	ATXN, AHVN	VECA2	VECA4
	ALVT, ATXT, AHVT	VECA3	VECA4

Northern Network

Consumer Type	Price category	Loss Factor code (LV metered)	Loss Factor code (HV metered)
Residential	WRCL, WRUL, WRHL, WRHLC, WRCS, WRUS, WRHS, WRHSC	VECW1	VECW1
General	WBSU, WBSN, WBSH	VECW1	VECW1
	WLVN	VECW1	VECW1
Commercial	WTXN, WHVN	VECW2	VECW4
	WLVH, WTXH, WHVH	VECW3	VECW4

Price category codes

First letter of code	Network
A	Auckland
W	Northern

Consumer definitions

Consumer type	Definition
Residential	The consumer's point of connection is for a home, not normally used for any business activity, and not a building ancillary to a person's principal place of residence (for example, a shed, pump or garage) that is separately metered
General	The consumer is not a residential consumer and has a capacity less than or equal to 69kVA
Commercial	The consumer is not a residential consumer and has a capacity greater than 69kVA

¹ Exemptions will be provided at the sole discretion of Vector. Retailers are required to request an exemption for persistent metering data exceptions including non-interval capable or non-communicating meters via the standard EIEP8 process with an appropriate reason detailed.

² The Northern network controlled price categories (WRHLC, WRHSC) are closed to all consumers, except those migrating from equivalent non-time of use price categories, are connected to Vector's gas distribution network or specified by Vector as qualifying for these price categories.

Eligibility criteria for price categories

Vector will allocate price categories to consumers. Where a consumer meets the eligibility criteria for more than one price category, the retailer may request the allocation of an alternative eligible price category to a consumer.

Residential time of use

The table below sets out the eligibility criteria for residential time of use price categories. To be eligible for a particular price category, a residential consumer must meet the criteria in both the applicable row and column. Vector expects all retailers to reconcile with Vector on these price categories unless a specific exemption has been provided.¹

		Low user	Standard
All	Consumer has metering capable of recording half hourly data	Connection is at a consumer's principal place of residence	<i>No additional criteria</i>
Uncontrolled	<i>No additional criteria</i>	ARHL, WRHL	ARHS, WRHS
Controlled ^{2,3}	Consumer has an electrical hot water cylinder ⁴ connected to Vector's load control system or have an active gas ICP connection to Vector's gas distribution network	ARHLC, WRHLC	ARHSC, WRHSC

³ For consumers in these price categories with load connected to Vector's load control system, Vector may control this load at any time for a maximum of 5 hours in any 24 hour period.

⁴ An electrical hot water cylinder must be in excess of 50 litres but may be substituted with fittings of a similar rating and load profile at Vector's discretion.

Residential non-time of use

The table below sets out the eligibility criteria for residential non-time of use price categories. To be eligible for a particular price category, a residential consumer must meet the criteria in both the applicable row and column and an exemption from the residential time of use price categories must have been provided by Vector.

		Low user	Standard
All	Vector has provided exemption from time of use price categories	Connection is at a consumer's principal place of residence	No additional criteria
Uncontrolled	No additional criteria	ARUL, WRUL	ARUS, WRUS
Controlled ^{5,6}	Consumer has an electrical hot water cylinder ⁷ connected to Vector's load control system or have an active gas ICP connection to Vector's gas distribution network	ARCL, WRCL	ARCS, WRCS

⁵ The Northern network controlled price categories (WRCL, WRCS) are closed to all consumers, except those migrating from equivalent time of use price categories, are connected to Vector's gas distribution network or specified by Vector as qualifying for these price categories.

⁶ For consumers in these price categories with load connected to Vector's load control system, Vector may control this load at any time for a maximum of 5 hours in any 24 hour period.

General

The table below sets out the eligibility criteria for general price categories. Vector expects all retailers to reconcile consumers with a metered point of connection with Vector on time of use price categories unless a specific exemption has been provided.⁸

Type	Price category codes	Eligibility criteria
Unmetered	ABSU, WBSU	Consumer's point of connection: <ul style="list-style-type: none"> • does not have a meter measuring consumption; • has a capacity less than 1kVA; and • consists of fixed wired equipment with a predictable annual electricity usage⁹
Exemption	ABSN, WBSN	Consumer has a metered point of connection and Vector has provided exemption from time of use price categories
Time of use	ABSH, WBSH	Consumer has metering capable of recording half hourly data

⁷ An electrical hot water cylinder must be in excess of 50 litres but may be substituted with fittings of a similar rating and load profile at Vector's discretion.

⁸ Exemptions will be provided at the sole discretion of Vector. Retailers are required to request an exemption for persistent metering data exceptions including non-interval capable or non-communicating meters via the standard EIEP8 process with an appropriate reason detailed.

⁹ Where any of these criteria are not met, the consumer will be required to install a meter and will be placed on the appropriate metered price category.

Commercial

The following table sets out the eligibility criteria for price categories for commercial consumers. To be eligible for a particular price category, a commercial consumer must meet the criteria in both the applicable row and column.

		Non time of use	Time of use
		Capacity of consumer's connection is less than or equal to 345 kVA	Consumer has metering capable of recording half hourly data which contains at least two of the following channels: kWh, kVArh, kVAh
Low voltage	Consumer is connected to Vector's low voltage (400V three phase or 230V single phase) network	ALVN, WLVN	ALVT, WLVH
Transformer	Consumer's low voltage (400V three phase or 230V single phase) network is supplied directly from transformers owned by Vector	ATXN, WTXN	ATXT, WTXH
High voltage	Consumer is supplied directly from Vector's high voltage (11kV or higher) network	AHVN, WHVN	AHVT, WHVH

¹⁰ Vector will allocate a price category to the consumer. The retailer may request allocation of an alternative eligible price category.

To aid with interpretation of the eligibility criteria for commercial price categories, the following table presents as an example the price categories available to low voltage consumers on the Auckland network for different capacities and metering configurations.

		Consumer has metering capable of recording half hourly data which contains at least two of the following channels: kWh, kVArh, kVAh?	
		Yes	No
Consumer capacity	Less than or equal to 345kVA	ALVN, ALVT ¹⁰	ALVN
	Greater than 345kVA	ALVT	Not available ¹¹

¹¹ Consumers must either: reduce their connection capacity to 345kVA or lower; or install metering capable of recording half hourly data which contains at least two of the following channels: kWh, kVArh, kVAh.

Price component definitions

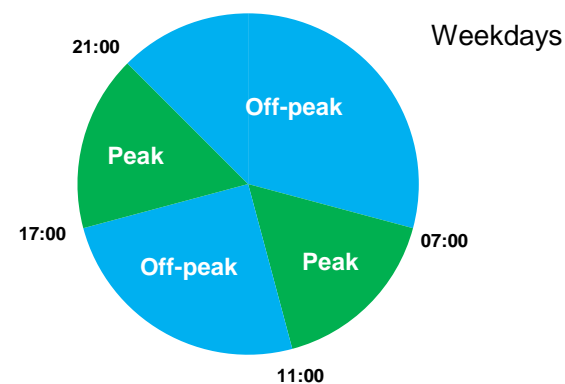
Description	Price component code(s)	Applies to
Daily	-FIXD	The number of days each consumer's point of connection is energised ¹²
Volume	-24UC, -AICO	All electricity distributed to each consumer
Volume off-peak	-OFFPK	Electricity distributed to each consumer during off-peak periods
Volume peak	-PEAK	Electricity distributed to each consumer during peak periods
Volume injection	-INJT	All electricity injected into the network by each consumer
Capacity	-CAPY	The capacity of each consumer's connection to Vector's network
Demand	-DAMD	The average of each consumer's ten highest kVA demands (twice the kVAh half hourly reading) between 08:00 and 20:00 (time periods 17 to 40) on weekdays including public holidays in any one month
Excess demand	-DEXA	The difference between the anytime maximum kVA demand (twice the maximum kVAh half hourly reading) and the nominated capacity in any one month, where the consumer's anytime maximum demand is greater than the nominated capacity
Power factor	-PWRF	The power factor amount

¹² Except for the daily prices ABSU-FIXD and WBSU-FIXD, which apply to the number of days each consumer's unmetered point of connection or fitting is energised.

Peak and off-peak periods for residential and general time of use price categories

Period type	Days	Times	Period numbers
Peak	Monday to Friday (including public holidays)	07:00 – 11:00	15 – 22
		17:00 – 21:00	35 – 42
Off-peak	Monday to Friday (including public holidays)	11:00 – 17:00	23 – 34
		21:00 – 07:00	43 – 14
	Saturday and Sunday	All times	All periods

The following chart shows the times on weekdays to which the peak and off-peak volume prices apply for the half hourly price categories:



Consumption for the unmetered price category (ABSU, WBSU)

Consumption for non-streetlight unmetered consumers is determined by Vector based on load profile and fitting input wattages.

Consumption for streetlight unmetered consumers is determined by multiplying the input wattage of each fitting in a database administered by Vector, with the load factor, the number of days in each month and the night hours per day stated in the adjacent table:

A minimum load factor of 1.1 is applied to the input wattage for non-streetlight appliances and 1.0 for streetlight appliances.

Month	Night hours per day
January	9.61
February	10.57
March	11.61
April	12.87
May	13.81
June	14.33
July	14.13
August	13.29
September	12.17
October	11.00
November	9.93
December	9.32

Power factor prices

Vector's distribution code requires consumers to maintain a power factor of greater than 0.95 lagging. If the consumer's power factor is below 0.95 lagging, Vector may apply power factor prices. Where the consumer's metering equipment does not record power factor, Vector may install power factor monitoring equipment and monitor the consumer's power factor.

The power factor amount is determined each month where a consumer's power factor is less than 0.95 lagging. This power factor amount (kVAR) is represented by twice the largest difference between the consumer's kVARh recorded in any one half-hour period and the kWh demand divided by three recorded in the same half-hour period, during each month. The price is applicable between 08:00 and 20:00 (time periods 17 to 40) on weekdays including public holidays.

Consumer capacity

Price category	Capacity charging basis
All except AHVT, WHVH	The nearest standard capacity of each consumer's point of connection as determined by Vector.
AHVT, WHVH	Capacity nominated by the retailer.

The following conditions apply to all price categories:

- Vector may require the consumer's demand not to exceed the capacity of their point of connection at any time;
- Changes to the capacity of the consumer's point of connection may be requested by the retailer;
- Vector may pass some or all of the costs associated with the change in capacity on to the retailer (including removal of stranded assets such as transformers); and
- Changes to the consumer's capacity are subject to the agreement of Vector and the availability of spare capacity on Vector's network and may be subject to additional charges (such as capital contributions).

The following condition applies all price categories except AHVT and WHVH:

- Any change to the consumer's capacity requires the current limiting device (such as a fuse or transformer) to be changed by Vector to the nearest standard capacity.

The following conditions apply to the AHVT and WHVH price categories:

- The nominated capacity may only be changed once in each 12 month period ending on 31 March each year;

- Nominated capacities must reasonably estimate the capacity requirement of each high voltage consumer connected to Vector's network;
- Vector does not guarantee the availability of increased nominated capacity at any time; and
- The application of excess demand prices does not imply or guarantee the availability of increased nominated capacity above the consumer's existing nominated capacity.

Extent of prices

Vector's prices published in this schedule relate to the cost of owning, operating and maintaining the distribution network as it currently exists but do not include amongst other things, energy charges for the electricity consumers use, metering equipment charges, load control equipment located at the point of connection to the network, the cost of reading meters and the cost of consumer electrical installations or fittings.

In order for Vector to supply any new or changed distribution service, including but not limited to; changes to service standards, distributed generation, the connection to the network of additional points of connection and the modification, increased capacity, relocation or removal of current points of connection, Vector may apply non-standard prices other than those outlined in this schedule, or require a capital contribution on a case by case basis.

Vector's prices do not include ancillary service charges and loss constraint excess payments from the system operator and transmission provider respectively. These costs may be passed through by Vector directly to electricity retailers.

Should Vector forecast a potential price breach under the regulated price path, then Vector may provide a refund or rebate of electricity distribution charges directly to the electricity retailer in order to avoid such a breach.

All prices are exclusive of GST.

Provision of billing information

The consumer's retailer must provide Vector with consumption data for each residential consumer and for each price as described in this schedule.

Where more than one meter at a point of connection is in use, but a single volume price applies, consumption data must be aggregated by the retailer before submitting to Vector.

For residential and general consumers, where a half hourly meter is fitted, consumption data must be aggregated by the retailer to match the appropriate prices and time periods before submitting the data to Vector.

For commercial consumers, where a half hourly meter is fitted and the consumer's price category requires half hourly data, the consumer's retailer must submit half hourly consumption information. Half hourly data provided by the retailer must contain at least two of the following channels: kWh, kVAh and kVAh.

Vector electricity distribution networks

High Voltage nominated capacity request form

Please provide the following information and send to vector.billing@vector.co.nz or directly to your Vector account manager.

Business name:

Contact person:

Connection network: Auckland / Northern

Connection address:

Postal address (if different from connection address):

Email address:

Phone number:

Fax number:

ICP number:

Installed capacity (kVA):

Nominated capacity request (kVA):

Energy retailer (at time of application):

Request date from which nominated capacity is to apply:

Signed on behalf of:

By:

Signature of Customer:

Name of signatory:

Date: