Auckland electricity distribution network

Price schedule for high voltage consumers

Applicable from 1 April 2016

This schedule describes Vector's standard prices for providing electricity distribution services in respect of high voltage consumers on the Auckland network. Vector offers two price categories for high voltage consumers on the Auckland network depending on the consumer's metering type.

High voltage consumer definitions

A high voltage consumer is where: the consumer is not a residential consumer (as defined in Vector's price schedule for residential consumers); the consumer's metered point of connection has a capacity greater than 69kVA and is supplied directly from Vector's high voltage (6.6kV or higher) network.

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 area covered by the Auckland electricity distribution network is shown in green on the following map.

Distribution prices and pass-through and recoverable cost prices

In the following pricing tables the "Delivery Price" column represents the Tariff Rate for Distribution Services and is the sum of the following components:

- "Dist. Price" is an indicative value for the distribution component of prices. These relate to Vector's costs of owning and operating our network; and
- "Pass. Price" is an indicative value for the pass-through and recoverable component of prices which relates to the costs from third parties including but not limited to: Council rates, Electricity Authority, Commerce Act and Electricity and Gas Complaints Commissioner levies, and transmission charges from Transpower.

High voltage price category AHVN

The AHVN price category is available to high voltage consumers where the consumer's metered point of connection is less than or equal to 345kVA.

Price category AHVN					
Description	Code	Units	Dist. Price	Pass. Price	Delivery Price
Fixed	AHVN-FIXD	$/day	1.4800	-	1.4800
Volume	AHVN-24UC	$/kWh	0.0398	0.0204	0.0602
Capacity	AHVN-CAPY	$/kVA/day	0.0351	-	0.0351
Power factor	AHVN-PWRF	$/kVAr/day	0.2917	-	0.2917
Volume, injection	AHVN-INJT	$/kWh	-	-	-

- The fixed price (AHVN-FIXD) applies to the number of days each AHVN high voltage consumer's point of connection is energised.
- The volume price (AHVN-24UC) applies to all electricity distributed to each AHVN high voltage consumer.
- The capacity price (AHVN-CAPY) applies to the installed capacity of each AHVN high voltage consumer connected to Vector's network.
- The power factor price (AHVN-PWRF) is a daily price applied to the power factor amount.
- The volume injection price (AHVN-INJT) applies to all electricity injected into the network by each AHVN high voltage consumer.

High voltage price category AHVT

The AHVT price category is available to high voltage consumers with metering capable of recording half hourly data.

Price category AHVT					
Description	Code	Units	Dist. Price	Pass. Price	Delivery Price
Volume	AHVT-24UC	$/kWh	0.0158	-	0.0158
Capacity	AHVT-CAPY	$/kVA/day	0.0351	-	0.0351
Demand	AHVT-DAMD	$/kVA/day	0.0437	0.2480	0.2917
Excess demand	AHVT-DEXA	$/kVA/day	0.7722	-	0.7722
Power factor	AHVT-PWRF	$/kVAr/day	0.2917	-	0.2917
Volume, injection	AHVT-INJT	$/kWh	-	-	-

- The volume price (AHVT-24UC) applies to all electricity distributed to each AHVT high voltage consumer.
- The capacity price (AHVT-CAPY) applies to the nominated capacity of each AHVT high voltage consumer connected to Vector's network.
- The demand price (AHVT-DAMD) is a daily price applied to the average of each AHVT high voltage 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.
- The excess demand price (AHVT-DEXA) is a daily price applied to 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 AHVT high voltage consumer's anytime maximum demand is greater than the nominated capacity.
- The power factor price (AHVT-PWRF) is a daily price applied to the power factor amount.
- The volume injection price (AHVT-INJT) applies to all electricity injected into the network by each AHVT high voltage consumer.

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

For high voltage consumers, the capacity used for calculating charges cannot always be determined based on physical capacity limiting devices. For this reason Vector has a process for retailers to nominate the capacity of high voltage consumer point of connections subject to the following conditions:

- Vector may require the consumer's demand not to exceed the nominated capacity of their point of connection at any time;
- Changes to the consumer's nominated capacity may be requested by the retailer;
- 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;
- Changes to the nominated capacity are subject to the agreement of Vector and the availability of spare capacity on Vector's network;
- Vector may pass some or all of the costs associated with the change in nominated capacity on to the retailer;
- 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 high voltage 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.

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 should contain the following channels; kWh, kVArh and kVAh, but must contain no less than two of these.

Auckland electricity distribution network

High voltage nominated capacity request form

Please provide the following information and send to vector.billing@vector.co.nz or directly to the consumer's Vector key account manager:

Business name: _____

Contact person: _____

Point of connection address: _____

_____

_____

Postal address (if different from point of connection address): _____

_____

_____

Email address: _____ Fax number: _____

Phone 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 Retailer: _____

Name of Signatory: _____

Date: _____