

ELECTRICITY LINE CHARGES

Existing Line Charges at commencement (8 May 2004) of Electricity Information Disclosure Requirements 2004



Line Charges

Vector introduced new electricity line charges to its Auckland Region customers on 1 April 2004. This was the first time that Vector had increased its charges in several years and, in fact, many customers received price reductions in 2002. Unfortunately, increases in transmission charges and other operating expenses have meant that Vector is unable to further absorb these cost increases.

Who is Vector?

Vector is responsible for the design, development and maintenance of the electricity lines network that delivers power to homes and businesses in Auckland City, Manukau City and parts of the Papakura District. Vector's electricity line charges are a component of the electricity account you receive from your electricity retailer. These charges cover the delivery of your electricity including transmission charges from Transpower (who operate the national grid), as well as upgrades and maintenance of the network.

Disclosure pursuant to Electricity Information Disclosure Requirements 2004. Part 6 - Disclosure of line charges, Requirement 25 and 26

AUCKLAND REGION

Points of supply: Hepburn Road, Mangere, Otahuhu, Pakuranga, Penrose, Roskill, Takanini, Wiri

All charges are exclusive of GST and are subject to a 10% discount if paid by the due date.

RESIDENTIAL CUSTOMERS

Pricing plan	Previous line charges		Estimated number of consumers (May 2004)	Line charges effective 1 April 2004	
	Fixed charge (cents/day)	Variable charge (cents/kWh)		Fixed charge (cents/day)	Variable charge (cents/kWh)
Eversure (24 hours supply)	10.00	5.50	30,543	10.47	5.76
Vector Saver (Interruptible supply)	10.00	4.70	223,403	10.47	4.92

BUSINESS CUSTOMERS

Connection capacity	Previous line charges		Estimated number of consumers (May 2004)	Line charges effective 1 April 2004	
	Fixed charge (cents/day)	Variable charge (cents/kWh)		Fixed charge (cents/day)	Variable charge (cents/kWh)
Less than 14 kVA	19.50	5.50	15,868	20.42	5.76
14 - 70 kVA	55.00	5.50	18,504	57.59	5.76

COMMERCIAL AND INDUSTRIAL CUSTOMERS

Connection type	Previous line charges								Estimated number of consumers (May 2004)	Line charges effective 1 April 2004							
	Fixed charges (cents/kVA/day)		Demand charge		Variable charges (cents/kWh)					Fixed charges (cents/kVA/day)		Demand charge		Variable charges (cents/kWh)			
	Capacity charge		Demand charge		Summer (1 October - 30 April)		Winter (1 May - 30 September)			Capacity charge		Demand charge		Summer (1 October - 30 April)		Winter (1 May - 30 September)	
	Up to the first 1,000 kVA	Remainder above 1,000 kVA	Up to the first 1,000 kVA	Remainder above 1,000 kVA	Day (7am - 10pm)	Night (10pm - 7am)	Day (7am - 10pm)	Night (10pm - 7am)		Up to the first 1,000 kVA	Remainder above 1,000 kVA	Up to the first 1,000 kVA	Remainder above 1,000 kVA	Day (7am - 10pm)	Night (10pm - 7am)	Day (7am - 10pm)	Night (10pm - 7am)
High Voltage Zone 1		1.65		11.28				42		1.67		11.45					
High Voltage Zone 2	3.05	2.51		17.29				32	3.10	2.55		17.55					
High Voltage Zone 3		2.99		21.53				78		3.03		21.85					
Transformer Zone 1		2.00		11.28				168		2.03		11.45					
Transformer Zone 2	3.38	2.95	23.57	17.29		0.72	0.20	220	3.43	2.99	23.92	17.55	0.72	0.20	4.06	0.20	
Transformer Zone 3		3.37		21.53				464		3.42		21.85					
Low Voltage - three phase Zone 1		2.09		11.28				581		2.12		11.45					
Low Voltage - three phase Zone 2	3.54	3.09		17.29				439	3.59	3.14		17.55					
Low Voltage - three phase Zone 3		3.53		21.53				1,762		3.58		21.85					

UNMETERED CUSTOMERS

Pricing plan	Previous line charges		Estimated number of consumers (May 2004)	Line charges effective 1 April 2004	
	Fixed charge (cents/day)	Variable charge (cents/kWh)		Fixed charge (cents/day)	Variable charge (cents/kWh)
Unmetered	12.66		680	12.85	

LOCAL COUNCIL UTILITY RATE

Pricing plan	Previous line charges		Estimated number of connections (May 2004)	Line charges effective 1 April 2004	
	Fixed charge (\$/network connection/day)	Variable charge (\$/kWh)		Fixed charge (\$/network connection/day)	Variable charge (\$/kWh)
Council utility rate	N/A		0	0.00	

AUCKLAND EMBEDDED NETWORKS - RESIDENTIAL AND COMMERCIAL CUSTOMERS

Tariff option (see Note 1)	Previous line charges				Estimated number of consumers	Line charges effective 1 April 2004	
	Fixed charges (\$/day)		Variable charges (\$/kWh)				
	Line	Transformer	Single meter with control	Single meter without control			Single meter with dedicated control
Unmetered supply - non street lighting < 5 kVA				0.0924		6	Unmetered customers
Unmetered supply - street lighting < 5 kVA				0.0924		3	Unmetered customers
Unmetered supply - 1ø temporary builders supply < 60A	1.2300					9	Unmetered customers
Unmetered supply - 3ø temporary builders supply < 60A	3.4900						Commercial and Industrial customers
Residential low usage - single meter, 3ø <= 20A & 1ø or 2ø <= 60A	0.0997		0.0567		0.0129	967	Residential customers (Eversure or Vector Saver)
Residential low usage - two meter, 3ø <= 20A & 1ø or 2ø <= 60A	0.1006		0.0623		0.0482	1	Residential customers (Eversure or Vector Saver)
Residential high usage - single meter, 3ø <= 20A & 1ø or 2ø <= 60A	0.4877		0.0390		0.0482	1,253	Residential customers (Eversure or Vector Saver)
Residential high usage - two meter, 3ø <= 20A & 1ø or 2ø <= 60A	0.4877		0.0436		0.0321	4	Residential customers (Eversure or Vector Saver)
Small Commercial low usage - single meter, 3ø <= 20A & 1ø or 2ø <= 60A	0.0997		0.0567		0.0129	21	Business customers (Less than 14 kVA or 14 - 70 kVA)
Small Commercial low usage - two meter, 3ø <= 20A & 1ø or 2ø <= 60A	0.1006		0.0623		0.0482		Business customers (Less than 14 kVA or 14 - 70 kVA)
Small Commercial high usage - single meter, 3ø <= 20A & 1ø or 2ø <= 60A	0.4877		0.0390		0.0129	33	Business customers (Less than 14 kVA or 14 - 70 kVA)
Small Commercial high usage - two meter, 3ø <= 20A & 1ø or 2ø <= 60A	0.4877		0.0436		0.0321		Business customers (Less than 14 kVA or 14 - 70 kVA)
Commercial - 3ø > 20A & 3ø <= 60A & 1ø or 2ø > 60A	2.1812		0.0189			14	Business customers (Less than 14 kVA or 14 - 70 kVA)
Commercial - 3ø > 60A & <= 100A	7.8705		0.0153			17	Business customers (Less than 14 kVA or 14 - 70 kVA)
Commercial - 3ø > 100A & <= 160A	14.0423		0.0141			3	Commercial and Industrial customers
Commercial - 3ø > 160A & <= 200A	20.2241		0.0128			1	Commercial and Industrial customers
Commercial - 3ø > 200A & < 300kVA	40.5100	4.2642		0.0154	0.0108		Commercial and Industrial customers
Commercial - 3ø = 300kVA	40.5100	4.9982		0.0154	0.0108		Commercial and Industrial customers

AUCKLAND EMBEDDED NETWORKS - LARGE COMMERCIAL CUSTOMERS

Tariff option (see note 1)	Previous Line Charges								Estimated number of consumers	Line charges effective 1 April 2004
	Capacity based variable tariffs (AIC)		Monthly max demand based variable tariffs (AMD) Workdays (8am - 8pm)		TOU metering (TAIC)					
	Up to the first 1,000 kVA	Remainder above 1,000 kVA	Up to the first 1,000 kVA	Remainder above 1,000 kVA	Summer (1 October - 30 April)		Winter (1 May - 30 September)			
					Day (7am - 10pm)	Night (10pm - 7am)	Day (7am - 10pm)	Night (10pm - 7am)		
Commercial - 3ø, transformer connection > 200A, TOU meter - Zone 1	1.1619	0.6844							19	Commercial and Industrial customers
Commercial - 3ø, high voltage supply > 200A, TOU meter - Zone 1	0.9095	0.4958		0.1015						Commercial and Industrial customers
Commercial - 3ø, transformer connection > 200A, TOU meter - Zone 2	1.1619	0.9186							2	Commercial and Industrial customers
Commercial - 3ø, high voltage supply > 200A, TOU meter - Zone 2	0.9095	0.7300	0.2122	0.1556	0.0018	0.0065	0.0018	0.0365		Commercial and Industrial customers
Commercial - 3ø, transformer connection > 200A, TOU meter - Zone 3	1.1619	1.0433		0.1938						Commercial and Industrial customers
Commercial - 3ø, high voltage supply > 200A, TOU meter - Zone 3	0.9095	0.8547								Commercial and Industrial customers

Note 1. The previous line charges are no longer available to Auckland embedded networks customers. These are effectively decommissioned from 1 April 2004.

DISTRIBUTION LOSS

Loss factor code	Customers metering voltage	Capacity ranges to allocate LV metering	Previous line charges		Line charges effective 1 April 2004		
			Distribution loss ratios with respect to the Injection Point meter	Distribution loss factors with respect to the ICP meter	Distribution loss ratios with respect to the Injection Point meter	Distribution loss factors with respect to the ICP meter	
VECA1	LV	<= 45 kVA		5.84%	1.0620	5.84%	1.0620
VECA2	LV	> 45 kVA, <= 300 kVA		3.85%	1.0620	3.85%	1.0620
VECA3	LV	> 300 kVA		3.85%	1.0400	3.85%	1.0400
VECA4	HV			2.34%	1.0240	2.34%	1.0240

TRANSMISSION COMPONENT - Requirement 25(b)

The transmission component equates to an average percentage of the standard line charges listed above as follows: Auckland 23%. This component includes recovery of Transpower's connection, interconnection, voltage support charges and new investment charges, and avoided transmission costs. Transpower's ancillary service charges and loss rental rebates, along with some Electricity Commission levies, are passed on transparently to electricity retailers.