



## **Electricity Information Disclosure**

**Line Charges**

**Effective from 1 April 2006**

*pursuant to*

**The Electricity Information Disclosure  
Requirements 2004**

## DISCLOSURE OF LINE CHARGES: REQUIREMENT 26 AND 27

Other lines and Use of System charges or conditions may also apply. Please refer to the Powerco Pricing Schedule. Total line rates are quoted including their transmission component.

All charges exclude GST (Goods and Services Tax)

### VALLEY NETWORK

Grid Exit Points of Injection: Hinuera, Kinleith, Kopu, Waihou, Waikino

<b>UNMETERED</b>			
	Previous Line Charges	Estimated Number of Consumers	Line Charges effective 1 April 2006
	(c/kWh)		(c/kWh)
Unmetered supply other than street lighting (see note 1)	8.1025	115	8.711
Unmetered street lighting (see note 2)	8.1025	5	8.711
Unmetered street lighting, fittings owned by Powerco (see notes 2 & 3)	8.1025		8.711
	<b>\$/day</b>		<b>\$/day</b>
Temporary Builders Supplies – Single Phase 60 Amp (see note 4)	1.2664	337	1.2664
Temporary Builders Supplies – Three Phase 60 Amp (see note 4)	3.5933	6	3.5933

- Note 1. Consumption will be determined on a case-by-case basis, dependent on load profile. A minimum load factor of 10% will be applied to the input wattage.
- Note 2. Consumption will be determined by multiplying the input wattage with the number of night hours.
- Note 3. An additional charge of \$0.044 per light per day will apply where Powerco owns the streetlight fittings.
- Note 4. Price category closed to new consumers.

<b>RESIDENTIAL AND SMALL COMMERCIAL (CAPACITY LESS THAN 3 PHASE 60 AMPS)</b>						
Tariff Option		Previous Line Charges		Estimated Number of Consumers	Line Charges effective 1 April 2006	
		Fixed Rate (c/day)	Variable charge (c/kwh)		Fixed Rate (c/day)	Variable charge (c/kwh)
Low Usage (Residential only)	Controllable	15.00	8.1670	22,419	15.00	8.4209
	Controlled	15.00	6.3787		15.00	6.8578
	Uncontrolled		8.2574			8.5444
High Usage	Controllable	67.00	5.7945	35,644	67.00	6.0484
	Controlled	67.00	4.2224		67.00	4.5395
	Uncontrolled		5.7408			6.1719
Night Supply Only		1.3349			1.4351	

- These rates apply to all Residential and Small Commercial 1 and 2 phase 60 Amp and all 20 Amp customers.
- Options are mutually exclusive, both fixed and variable rates apply.
- Controlled tariff options are only available for consumers with consumer equipment (hot water cylinders, electric kilns, swimming and spa pool heaters) being permanently wired to a separate controlled meter. Both controlled and uncontrolled variable rates apply.
- Night rate only available for appliances permanently wired to a separate meter.

**END-CONSUMERS WITH CAPACITY 3 PHASE 60 AMPS AND GREATER**

Fixed and variable rates apply (see note 1)	Previous Line Charges			Estimated Number of Consumers	Line Charges effective 1 April 2006		
	Fixed Rate (\$/day)	Variable Rate (c/kWh)			Fixed Rate (\$/day)	Variable Rate (c/kWh)	
Residential low use three phase 60A	0.1500	19.1336		0	15.000	20.6221	
Commercial three phase 60A	3.7790	2.5763		5,027	4.0628	2.7698	
Commercial three phase 160A (see note 2)	16.8000	1.8200		260	18.0619	1.9567	
Commercial three phase 200A	24.5417	1.7022		91	26.3851	1.8300	
		24 hour supply	Controlled 17 hours on			24 hour supply	Controlled 17 hours on
> 200A up to 299 kVA (see note 2)	89.7804	2.3175	1.5160	26	96.5239	2.4915	1.6298

- Note 1. Existing consumers may also be subject to a transformer capacity charge  
 Note 2. A rebate off the daily fixed charge is available for selected ICPs.

**TRANSMISSION COMPONENT (REQUIREMENT 25(2)(B))**

The component of each new line charge that is attributable to transmission charges is 19%. (Where the line charge is the total lines charge payable by each end-consumer and may be made up of different charge types including fixed, variable, demand and Transformer charges as detailed in the tables above.) This component includes recovery of Transpower's connection, interconnection and new investment charges.  
 Note: Transpower's loss rental rebates and Transpower's EVA rebate do not form a part of the individual line charges. These items will be paid or credited directly to Retailers on a monthly basis based on the actual amount invoiced or rebated by Transpower.

## VALLEY NETWORKS GROUPS 40 AND 60 CUSTOMERS

Group 40: half hourly metered with connected capacity typically greater than 300KVA.  
Group 60: half hourly metered with connected capacity typically greater than 1,500kVA.

The Demand charges given in the Transmission Charges table below are annual charges.  
The total calculated line charge is divided into equal daily amounts.

### Transmission Charges

*There are two components.*

1. A demand charge based on the customer "On Peak Demand" (OPD) and is made up of Transpower's Interconnection charge. The Customer's "On Peak Demand" (OPD) is the average of the maximum demands recorded (in kW) each month during the deemed "on peak period" of the year. For this Customer's point of supply the "on peak period" is as shown in the Table.  
To calculate the OPD, determine the maximum demand between the hours specified for each month in the "on peak period" (i.e. one maximum demand per month). Then calculate the average of these maximum demands. If there are more than three months in the "on peak period" then determine the average of only the highest three monthly demands.
2. A demand charge based on the Customer's maximum demand recorded any time during year (AMD) and is made up from Transpower's Connection charge and New Investment charge.  
Note: Rental Rebates and EVA rebates are not longer included in the charge and have been passed directly on to the Retailer.

Loss factors as shown apply to all demand based charges.

### Network Charges

This charge is derived from the following components:

1. A Network Assets, Depreciation and Maintenance Charge based on the Customer's maximum demand recorded any time during year (AMD).
2. A Network Indirect Demand Charge based on the customer on "On Peak Demand" (OPD) as defined above.
3. A Network Indirect Fixed Charge in \$/annum.

### Reactive Charge

Standard reactive charges apply where the power factor falls below 0.95. The charge is set at \$7.00/kVAR of the largest difference between the half hourly reactive demand and one third of the kW demand recorded in the same half hour. The charge is applicable only during weekdays, between 7am and 8pm.

### Dedicated Assets

Group 40: A separate charge is applied for those on-site assets provided by Powerco. The charge is based on the assets employed.

Group 60: A separate charge is applied for on-site assets provided by Powerco. A separate charge for the network assets employed, is calculated on a site-specific basis.

### **ON-PEAK DEMAND PERIODS**

Weekends and National Holidays are excluded

	<b>Morning Peak</b>	<b>Evening Peak</b>	<b>Months</b>
<b>Valley</b>			
Hinuera	6:30am – 10:00am	3:30pm – 8:30pm	Aug – Dec
Kinleith		5:00pm – 8:30pm	Jun – Sep
Kopu		5:00pm – 8:00pm	Jun – Aug
Waihou	6:00am – 9:30am	4:00pm – 8:00pm	Aug – Feb
Waikino	8:00am – 10:30am	4:30pm – 8:30pm	May – Sep

TRANSMISSION CHARGES GROUP 40 & 60								
	Previous Line Charges				Line Charges effective 1 April 2006			
	Rates		Loss Factors		Rates		Loss Factors	
Grid Exit Point	Any time Demand \$/kW	On peak Demand \$/kW	High Voltage	Low Voltage	Any time Demand \$/kW	On peak Demand \$/kW	High Voltage	Low Voltage
<b>Valley Network</b>								
Hinuera GXP	12.52	55.81	3.20%	4.65%	23.02	65.20	3.20%	4.65%
Kinleith GXP	6.54				14.48			
Kopu GXP	42.22				60.57			
Waihou GXP	11.14				19.82			
Waikino GXP	28.06				42.42			

### NETWORK CHARGES

GROUP 40 CONSUMERS				
	Network Asset and Maintenance Charge, based on Anytime Demand \$/kW	Network Indirect Demand Charge, based on On-Peak Demand \$/kW	Network Indirect Fixed Charge \$/Annum	Estimated Number of Customers
<b>New Charges</b>	98.85	9.58	4,977.45	57
<b>Previous Charges</b>	67.41	18.01	9,479.40	59

  

GROUP 60 CONSUMERS					
	Network	Maintenance Charge, based on On-Peak Demand \$/kW	Network Indirect Demand Charge, based on On-Peak Demand \$/kW	Network Indirect Fixed Charge \$/Annum	Number of Customers
<b>New Charges</b>	<b>Valley</b>		1.87	11,626	19
	Hinuera GXP	6.27			
	Kinleith GXP	26.11			
	Kopu GXP	12.99			
	Waihou GXP	7.35			
	Waikino GXP	4.54			
<b>Previous Charges</b>	<b>Valley</b>		5.73	34,674.90	19
	Hinuera GXP	4.19			
	Kinleith GXP	21.03			
	Kopu GXP	8.27			
	Waihou GXP	3.32			
	Waikino GXP	3.60			

## TAURANGA NETWORK

Points of Supply: Tauranga, Mt Maunganui, Te Matai

<b>UNMETERED</b>			
	Previous Line Charges	Estimated Number of Consumers	Line Charges effective 1 April 2006
	(c/kWh)		(c/kWh)
Unmetered supply other than street lighting (see note 1)	7.3152	266	7.8646
Unmetered street lighting (see note 2)	7.3152	26	7.8646
	<b>\$/day</b>		<b>\$/day</b>
Temporary Builders Supplies – Single Phase 60 Amp (see note 3)	1.2664	78	1.2664
Temporary Builders Supplies – Three Phase 60 Amp (see note 3)	3.5933	0	3.5933

Note 1. Consumption will be determined on a case-by-case basis, dependent on load profile. A minimum load factor of 10% will be applied to the input wattage.

Note 2. Consumption will be determined by multiplying the input wattage with the number of night hours as published.

Note 3. Price category closed to new consumers

<b>RESIDENTIAL AND SMALL COMMERCIAL (CAPACITY LESS THAN 3 PHASE 60 AMPS)</b>						
Tariff Option		Previous Line Charges		Estimated number of Consumers	Line Charges effective 1 April 2006	
		Fixed Rate (c/day)	Variable charge (c/kwh)		Fixed Rate (c/day)	Variable charge (c/kwh)
Low Usage	Controllable	15.00	6.0996	31,685	15.00	6.7322
	Controlled	15.00	3.9667		15.00	4.2646
	Uncontrolled		6.8113			7.6138
High Usage	Controllable	32.02	5.3230	33,966	37.1240	5.7228
	Controlled	32.02	2.7509		37.1240	2.9575
	Uncontrolled		6.3277			6.8029
Night Supply Only		-	1.3291			1.4289

- These rates apply to all Residential and Small Commercial 1 and 2 phase 60 Amp and all 20 Amp customers.
- Options are mutually exclusive, both fixed and variable rates apply
- Controlled tariff options are only available for consumers with consumer equipment (hot water cylinders, electric kilns, swimming and spa pool heaters) being permanently wired to a separate controlled meter. Both controlled and uncontrolled variable rates apply.
- Night rate only available for appliances permanently wired to a separate meter.

**End-Consumers with capacity 3 phase 60 Amps and greater**

Capacity Less than 100kVA (both fixed and variable rates apply)

	Previous Line Charges	Estimated Number of Consumers	Line Rates Effective 1 April 2006
Fixed Rate (\$/day)	1.3070	1,300	1.4052
Variable Rate (c/kWh)			
• 24 hour supply uncontrolled	4.9908		5.3656
• Controlled 17 hours on	2.3222		2.4966
• Interrupted	4.5766		4.9203
• Day/Night – Day rate	4.9908		5.3656
• Day/Night – Night rate	1.2052		1.2957
• On peak controlled	17.6587		18.985
• Off peak controlled	4.4174		4.7491
<b>Residential low use only</b>		0	
Fixed Rate (\$/day)	0.1500		0.1500
Variable Rate (c/kWh)			
• 24 hour supply uncontrolled	10.6179		11.0923
• Controlled 17 hours on	7.0786		8.2233
• Interrupted	5.56482		10.6470
• Day/Night – Day rate	10.1261		11.0923
• Day/Night – Night rate	6.9147		7.0224
• On peak controlled	20.7983		24.7117
• Off peak controlled	16.1137	14.4758	

Capacity 100 – 199kVA (Fixed service, transformer capacity (where applicable) and variable rates apply)

	Previous Line Charges	Estimated Number of Consumers	Line Rates Effective 1 April 2006
Fixed Rate (\$/day)	6.0449	109	6.4989
Variable Rate (c/kWh)			
• 24 hour supply	4.8087		5.1698
• Controlled 17 hours on	2.2153		2.3816
• Day/Night – Day rate	4.8087		5.3656
• Day/Night – Night rate	1.1496	1.2957	

Capacity 200 kVA and greater (Fixed service, transformer, capacity (where applicable) and variable rates apply)

	Previous Line Charges		Estimated Number of Consumers	Line Rates Effective 1 April 2006	
	Line Rates (See Note 3)			Line Rates (See Note 3)	
	End-Consumers with Time of Use meters			End-Consumers with Time of Use meters	
	\$/day			\$/day	
<b>Fixed Service Charge</b>	20.2676	34	21.7899		
<b>Transformer Capacity Charge</b>	<b>\$/day</b>		<b>\$/day</b>		
Large commercial/industrial with capacity 200 KVA	7.6641	73	8.2398		
Large commercial/industrial with capacity 300 KVA	8.9096	55	9.5788		
Large commercial/industrial with capacity 500 KVA	10.4477	66	11.2324		
Large commercial/industrial with capacity 750 KVA	12.6810	30	13.6335		
Large commercial/industrial with capacity 1,000 KVA	13.9480	15	14.9957		
<b>Variable Rate (c/kWh)</b>					
Summer night (2300-0700)	0.6396		0.6876		
Summer day (0700-2300)	2.3558		2.5327		
Winter night (2300-0700)	0.8528		0.9168		
Winter day	4.1253		4.4351		
Winter morning peak (0800-1100)	8.7197		9.3746		
Winter evening peak (1700-2000)	15.0410		16.1707		
24 hour supply	4.4455		4.7794		
Controlled 17 hours on	2.0480		2.2018		

Note 3. End-consumers with capacity greater than 300kVA must have a Time of Use meter (half-hourly logger) installed.

**TRANSMISSION COMPONENT (REQUIREMENT 25(2)(B))**

The component of each new line charge that is attributable to transmission charges is 24%. (Where the line charge is the total lines charge payable by each end-consumer and may be made up of different charge types including fixed, variable, demand and Transformer charges as detailed in the tables above.) This component includes recovery of Transpower's connection, interconnection and new investment charges.

Note: Transpower's loss rental rebates and Transpower's EVA rebate do not form a part of the individual line charges. These items will be paid or credited directly to Retailers on a monthly basis based on the actual amount invoiced or rebated by Transpower.



## TAURANGA NETWORKS GROUPS T50 AND 60T CUSTOMERS

Group T50: half hourly metered with connected capacity typically greater than 300KVA.

Group T60: half hourly metered with connected capacity typically greater than 1,500kVA.

The Demand charges given in the Transmission Charges table below are annual charges.

The total calculated line charge is divided into equal daily amounts.

### **Transmission Charges**

*There are two components.*

1. A demand charge based on the customer "On Peak Demand" (OPD) and is made up of Transpower's Interconnection charge. The Customer's "On Peak Demand" (OPD) is the average of the maximum demands recorded (in kW) each month during the deemed "on peak period" of the year. For this Customer's point of supply the "on peak period" is as shown in the Table.  
To calculate the OPD, determine the maximum demand between the hours specified for each month in the "on peak period" (i.e. one maximum demand per month). Then calculate the average of these maximum demands. If there are more than three months in the "on peak period" then determine the average of only the highest three monthly demands.
2. A demand charge based on the Customer's maximum demand recorded any time during year (AMD) and is made up from Transpower's Connection charge and New Investment charge.  
Note: Rental Rebates, a component of this demand charge in previous years are no longer included in the charge as it has been passed directly on to the Retailer.

Loss factors as shown apply to all demand based charges.

### **Network Charges**

This charge is derived from the following components:

1. A Network Assets, Depreciation and Maintenance Charge based on the Customer's maximum demand recorded any time during year (AMD).
2. A Network Indirect Demand Charge based on the customer on "On Peak Demand" (OPD) as defined above.
3. A Network Indirect Fixed Charge in \$/annum.

### **Reactive Charge**

Standard reactive charges apply where the power factor falls below 0.95. The charge is set at \$7.00/kVAr of the largest difference between the half hourly reactive demand and one third of the kW in each month. The charge is applicable only during weekdays, between 7am and 8pm.

### **Dedicated Assets**

Group T50: A separate charge is applied for those on-site assets provided by Powerco. The charge is based on the assets employed.

Group T60: A separate charge is applied for on-site assets provided by Powerco. A separate charge for the network assets employed, is calculated on a site-specific basis.

### **ON-PEAK DEMAND PERIODS**

Weekends and National Holidays are excluded

	<b>Morning Peak</b>	<b>Evening Peak</b>	<b>Months</b>
Mt Maunganui	7:30am – 10:30am	4:30pm – 9:00pm	May – Aug
Tauranga	7:00am – 11:00am	4:30pm – 9:00pm	May – Aug
Te Matai	7:00am – 9:30am	4:00pm – 9:00pm	May – Aug

<b>TRANSMISSION CHARGES GROUP T50 &amp; T60</b>								
	<b>Previous Line Charges</b>				<b>Line Charges effective 1 April 2006</b>			
	<b>Rates</b>		<b>Loss Factors</b>		<b>Rates</b>		<b>Loss Factors</b>	
<b>Grid Exit Point</b>	<b>Any time Demand \$/kW</b>	<b>On peak Demand \$/kW</b>	<b>High Voltage</b>	<b>Low Voltage</b>	<b>Any time Demand \$/kW</b>	<b>On peak Demand \$/kW</b>	<b>High Voltage</b>	<b>Low Voltage</b>
11kV GXP			2.80%	4.30%			2.80%	4.30%
33kV GXP			3.30%	4.80%			3.30%	4.80%
<b>Tauranga Network</b>								
Mt Maunganui	6.91	55.81			13.91	65.20		
Tauranga	8.17				10.30			
Te Matai	5.63				13.47			

## NETWORK CHARGES

<b>GROUP T50 CONSUMERS</b>					
	<b>Network Asset and Maintenance Charge, \$/kW</b>	<b>Network Indirect Demand Charge, based on On-Peak Demand \$/kW</b>	<b>Network Indirect Fixed Charge \$/Annum</b>	<b>Estimated Number of Customers</b>	
<b>New Charges</b>	81.81	10.45	67.18	8	
<b>Previous Charges</b>	83.60	10.53	55.98	4	
<b>GROUP T60 CONSUMERS</b>					
	<b>Network</b>	<b>Maintenance Charge, based on On-Peak Demand \$/kW</b>	<b>Network Indirect Demand Charge, based on On-Peak Demand \$/kW</b>	<b>Network Indirect Fixed Charge \$/Annum</b>	<b>Number of Customers</b>
<b>New Charges</b>	<b>Tauranga</b>				
	Mt Maunganui GXP	10.55	2.75	8,304	3
	Tauranga GXP	21.64			
	Te Matai GXP	poa			
<b>Previous Charges</b>	<b>Tauranga</b>				
	Mt Maunganui GXP	3.88	7.60	16,121	2
	Tauranga GXP	7.59			
	Te Matai GXP	5.33			
<b>60T ( Closed)</b>					
Capacity 1000 kVA and greater (Fixed service, transformer, capacity (where applicable) and variable rates apply)					
	<b>Previous Rates</b>		<b>Line Rates Effective 1 April 2006</b>		
	<b>\$/day</b>		<b>\$/day</b>		
<b>Fixed Service Charge</b>	3.8850		4.1768		
<b>Variable Rate (c/kWh)</b>					
Summer night (2300-0700)	0.0550		0.0591		
Summer day (0700-2300)	0.6270		0.6740		
Winter night (2300-0700)	0.1100		0.1182		
Winter day	3.5750		3.8435		
Winter morning peak (0800-1100)	8.7890		9.4491		
Winter evening peak (1700-2000)	16.1590		17.3727		