

POWERNET LIMITED LINE PRICING METHODOLOGY FOR THE POWER COMPANY LIMITED NETWORK AS AT 1 APRIL 2006

1. INTRODUCTION

- 1.1 PowerNet Limited (PNL) has a responsibility for the management of the network assets owned by The Power Company Limited (TPCL).
- 1.2 The total line charge is based on the following components:
 - (a) Transmission Grid Asset Management costs (Transpower)
 - (b) Sub transmission costs – 66,000 and 33,000V line and cables and 30 zone substations
 - (c) Distribution costs - 11,000, 400V networks and distribution substations
 - (d) PowerNet overheads, Board costs, and System Control costs
 - (e) TPCL use charge comprising depreciation, return on investment and other costs of ownership.
- 1.3 The derivation of the line charges is based on six consumer profile parameters. They are:
 - (a) The Contract Capacity kVA (kW) of the installation
 - (b) The Winter Peak demand kVA (kW) (0700-1100 hours and 1700-2100 hours, each week day between June and August inclusive)
 - (c) The Winter Peak energy MWh (0700-1100 hours and 1700-2100 hours, each week day between May and September inclusive)
 - (d) The Winter Day energy MWh (0700-2300 hours, May to September inclusive)
 - (e) The Summer Day energy MWh (0700-2300 hours, October to April inclusive)
 - (f) The Total energy for the 12 month period MWh.
- 1.4 The basis of allocation of Transpower and sub transmission costs is on the after diversity maximum demand for each customer during the periods of network maximum demand. Similarly the allocation of the distribution costs is on an after diversity distribution capacity of the customer's installation.

The PowerNet methodology takes into account the duration that the customer impacts on the peak loading hours of the network. This is achieved by allocating some of the Transmission, sub transmission and distribution costs based on the Winter Peak energy and the Winter Day energy.

This in effect reduces the charges for a customer who incurs just one half hour peak for the whole winter or is only impacting on the peak hours for part of the winter and increases the charges for those customers who are impacting regularly on the peak periods during the whole winter.

It has the effect of integrating the peak demand over a longer period.

- 1.5 The Winter Peak demands for the various customers and customer groups have a diversity factor applied to them which reflects to some extent their impact on the total after diversity maximum demand on the network. These diversity factors, based on their peak demands, are as follows:

Up to 110kVA = 36%

Between 110kVA and 3000kVA = ramp function from 40% - 95%

Above 3000kVA = 95%.

These diversity factors reflect the increased diversity of a large number of smaller customers compared to less diversity for the larger customers.

- 1.6 Similarly diversity factors are applied to the contract capacities of the various customers. These diversity factors are as follows:

For connections up to 50kVA = 30%

For connections between 51kVA and 100kVA = 30% - 75%

For connections between 101kVA and 2500kVA = ramp function from 75% - 95%

For connections above 2500kVA = 95%.

These diversities reflect the differing impacts of the different sized customers on the local capacity of the reticulation system. There is an increased diversity between the smaller customers than with the large customers with respect to the capital investment in the local distribution network.

- 1.7 There are two defined types of consumers. They are as follows:

(a) Individual Consumers

These consumers have half-hour or time-of-use meters, including kVA maximum demand registers.

In most cases these installations have contract capacities in excess of 100kVA. Due to their size, these consumers have a higher impact on the network design and operation and therefore their geographic location is taken into account when calculating their individual line charges. This also provides a signal for future investment and through the correct pricing discourages network by-pass. In the case of these consumers, there are also individual calculated or estimated loss factors.

These consumers, through the half-hour or time-of-use metering, have individual profiles which are used to calculate the line charges. Metering of these consumers includes kVA demand metering which provides the winter or seasonal peak demand and also the anytime peak demand. The latter figures are used in the calculation of line charges and to determine the contract capacity. For these consumers, the contract capacity is based on the next highest standard transformer size above their anytime demand or, alternatively, as per the original contract if growth is predicted and the network has been designed and built to supply the increased level.

Irrigation Installations and Embedded Networks

Irrigation installations and embedded networks are a sub group of individual consumers. An “Irrigation Installation” is a connected customer’s installation, which is used solely for pumping water commercially for irrigating farmland. An “Embedded Network” is an electricity distribution network that is owned by someone other than The Power Company Limited and is connected to The Power Company’s network via a registered Network Supply Point. The embedded network must be metered with a compliant half hour meter at the NSP. Due to the uncertain nature of electricity consumption in both irrigation installations and embedded networks this sub group of installations will have their line charges calculated in the same way as individual customers, but will have the total line charge recovered with a fully fixed line charge.

(b) Group Consumers

For Group consumers, their individual meter readings or locations do not determine the initial line charges.

The bases for the different consumer groups are contract capacity and whether there is significant controllable load on the premises. The latter point qualifies the consumer for either an “all peak” or “with off peak” line charge. Different consumer groups are based on practical fuse sizes. The eligibility for a “with off peak” line charge is determined on the basis that at least 25% of the total energy consumption has to be separately metered and consumed between 23:00 and 07:00 hours or by an appropriate ripple controlled appliance, such as a water heater.

All domestic consumers are classed as single-phase irrespective of whether they are supplied two-phase or three-phase. This is due to the fact that for many of the consumers there was no choice in their method of supply and there are many older multi-phase domestic installations. All old domestic consumer installations are classed as “historic domestic”.

The 8kVA domestic consumer requires a 32-amp circuit breaker to be installed on the main switchboard to control the complete installation. This capacity is only allowed for single-phase installations.

The group consumer segments are divided into two areas taking into account the types of reticulation involved in their supply. These distinct groupings are classed as urban and rural.

The urban areas are defined areas within Southland including all the small townships and city areas.

The remaining areas are classified as rural and there is a price cap on the fixed charge component of the line charge.

1.8 The costs of the sub transmission and distribution components of the line charges are split into two categories:

1. Supply

The “supply” part is based on the depreciation of the network assets, other ownership costs and the cost of capital required to fund the assets. The Power Company Limited requires a “Use Charge (lease charge) for its assets from PowerNet (the asset manager). This Use Charge includes the allowance for depreciation for its assets and its required gross return. This is not the net return on investment but the gross return before expenses and tax. As it is a consumer trust, the required gross return is presently comparatively low as most of the consumer shareholders receive an implicit benefit in the way of reduced line charges.

The estimated carrying value of The Power Company network at 1 April 2006 is \$227 million. The Use Charge of \$18.65 million is represented by depreciation of \$9.98 million, ownership costs of \$0.91 million and a gross return or net profit before tax of \$7.76 million, the later equating to 3.4% of the carrying value of the assets.

Asset Impairment and Future Pricing

The Power Company Limited Directors recognize that the present levels of return are unsustainably low and that the ability of the Company to fund investment in the network, maintain the quality of supply and preserve the value of the assets may be jeopardized. Continuation of existing prices and levels of return would see the depreciated replacement cost value used for financial reporting purposes impaired and assets written down. This is due to the valuation not able to be supported by the cash flows generated from the assets.

The Directors have consulted with Trustees and industry experts regarding these issues and have no alternative other than moving away from implicit discounts and towards achieving a return which begins to approach the Company’s weighted average cost of capital. Planned price increases in excess of the CPI-X Commerce Commission price path threshold will be required in subsequent years to support the financial reporting valuation otherwise an impairment write down will be required.

2. Maintenance

The “maintenance” part is based on the Maintenance Works Programme for the current year.

Management costs for capital and maintenance work are allocated to Supply and Maintenance respectively.

1.9 The application of fixed and variable charges is not based on the derivation of the line charge but is an application of the line charge to the end-use consumer. The objectives behind the fixed and variable charges are as follows:

1. The 50:50 fixed:variable line charge is a compromise between a totally fixed charge which would benefit the large consumer within a load group and a totally variable charge which would benefit the small consumer within a load group. Due to the uncertain and variable consumption levels of irrigation supplies and embedded networks, the line charges for these consumer groups are recovered by a 100% fixed line charge.
2. As stated above, the fixed and variable charge allows the larger consumer in a load group to pay more which reflects to some extent their reduced diversity on the maximum demands seen at sub transmission and transmission level. Although the distribution network in the vicinity of the premises has to have enough capacity to supply the full capacity of the installation, the remainder of the network is designed to take into account the diversity between consumer demands. As a general rule, the less energy a consumer uses, the greater the diversity, hence the less capital investment required to supply. A totally fixed line charge does not take this into account so there would need to be more load sub-groups such as very small, small, medium, large and very large domestic consumers besides the existing All Peak and With Off Peak categories.
3. It is important to note that the variable charge is on daytime energy only, so domestic consumers with large night loads, such as storage or water heating, do not pay extra as this consumption is utilising network assets, the capacity of which is designed on the basis of and costs recovered by the peak load in daytime hours. This encourages better utilisation of the network and less capital investment.
4. Retailers may directly pass through a totally fixed charge to consumers.
5. It is a means whereby the line owner can share the risk of climatic variations and be responsive to changes in the local economy. It has been well received in the commercial market that when a consumer has a production downturn or invests in energy conservation measures, there is an immediate response through a reduction in the variable charges.
6. Consumers also have the opportunity to shift load to night time to receive immediate benefits.
7. If a consumer is expanding the business, the variable charges mean that the line owner can receive some immediate extra revenue and it can also cushion the increase in line charges for the following year.

The practical application of a variable component of the line charge for the group consumers resulted in a necessity for a uniform variable charge and individual fixed charges for each segment.

The variable charge component is based on daytime energy usage, i.e. between 07:00 and 23:00 hours. Hence, night time consumption does not contribute directly to the line charge account.

The profile parameters for determining the line charges for the individual customers are:

ICP Number	Contract Capacity kVA	Peak Demand Reading kVA	Total Energy Reading MWh	Winter Peak Reading MWh	Winter Day Reading MWh	Summer Day Reading MWh
396516TP-CB8	300	112	83	15	30	51

ICP Number	Contract Capacity kVA	Peak Demand Reading kVA	Total Energy Reading MWh	Winter Peak Reading MWh	Winter Day Reading MWh	Summer Day Reading MWh
396517TP-0FD	200	107	185	26	63	76
800105TP-315	10000	10456	41400	3676	9609	19252
800116TP-578	6000	1912	8457	871	2266	3657
800134TP-8A8	5000	4419	14675	1116	2854	7473
8001365TP-9E5	750	560	2352	242	642	997
800127TP-EC5	500	64	175	24	63	59
800139TP-7F3	300	190	393	52	123	201
800107TP-390	200	180	669	45	124	339
800118TP-6E3	150	150	20	3	8	12
800128TP-11B	100	100	209	40	87	121
8001281TP-B51	100	90	77	14	32	45
8001275TP-A4C	75	75	10	2	4	4
118447TP-ECC	150	135	156	28	65	91
800146TP-D70	22000	16000	58416	4306	9330	28598
502013TP-4D1	150	135	44	8	19	25
403101TP-231	50	50	40	7	15	15
382896TP-29B	200	150	375	3	5	261
304798TP-4EA	300	176	91	19	50	40
800186TP-A9F	750	734	1783	81	250	1116
244381TP-3EE	50	88	30	1	1	27
8001708TP-54F	500	250	123	15	50	67
1819183TP-528	150	66	154	24	58	56
333040TP-1F2	200	150	375	3	5	261
482021TP-8E5	150	150	213	50	117	96
100109TP-F16	100	114	148	27	70	50
800158TP-446	3500	2382	6306	946	2407	2451
8001315TP-CB8	1500	1184	5197	448	1136	2528
437074TP-48B	1000	852	2033	385	846	962
437078TP-795	1000	505	3274	343	940	1237
4370715TP-029	500	324	517	81	202	247
800155TP-B1D	300	308	2485	250	689	964
8001875TP-046	200	12	1	1	1	1
185015TP-7A4	200	150	72	10	25	28
5678995TP-502	200	162	388	40	149	106
800133TP-562	4500	248	99	9	23	45
141326TP-DAF	200	116	565	50	140	247
800163TP-D6A	300	133	389	39	88	190
444030TP-F7D	200	203	385	76	183	106
549615TP-72D	150	81	307	44	113	100
800124TP-205	1000	909	5550	562	1551	2083
556470TP-E14	300	269	1395	141	391	526
556472TP-E91	150	117	15	4	8	5
240526TP-6BD	150	121	391	50	121	179
8001505TP-013	300	84	235	18	44	119
5290993TP-D4F	150	71	100	19	41	41
221318TP-720	150	135	63	11	25	22
8001815TP-FB6	1000	881	3021	453	958	1184
8001801TP-411	1000	851	4774	512	1377	1783
800181TP-755	500	261	807	125	272	321
314914TP-C54	200	251	333	31	80	229
4004001TP-401	150	42	82	10	30	30
5672985TP-1EF	100	85	65	10	23	30
141806TP-3F4	150	130	375	3	5	261
313732TP-2E5	200	215	419	36	99	262
362484TP-9C2	200	221	460	70	180	206
404955TP-F5E	100	62	98	17	44	37
405545TP-85F	150	120	252	35	93	147
405508TP-5A1	200	123	469	59	162	163
405350TP-9BB	150	104	404	52	125	172
800153TP-A92	500	140	97	15	43	39
8001305TP-615	30	44	145	19	51	55
116195TP-ECE	150	150	293	40	94	199
5791985TP-A1E	150	135	106	23	55	51
110146TP-A8C	200	89	104	15	37	56

ICP Number	Contract Capacity kVA	Peak Demand Reading kVA	Total Energy Reading MWh	Winter Peak Reading MWh	Winter Day Reading MWh	Summer Day Reading MWh
241126TP-B1C	150	150	238	43	100	73
166724TP-C86	300	374	1680	197	521	617
690224TP-CD4	150	41	206	21	68	79
250351TP- OCD	300	149	586	74	184	193
177096TP-8F2	150	152	295	54	133	96
800151TP-A17	100	48	25	5	10	12
181105TP-28D	150	135	32	7	16	16
240375TP-473	150	135	284	51	119	144
8001245TP-DB4	500	557	338	31	99	234
517704TP-375	150	135	115	23	53	62
637250TP-A0B	750	226	566	45	109	240
1819179TP-7AE	150	109	304	44	143	155
625837TP-99A	150	161	198	42	96	88
800114TP-5FD	500	252	1665	166	451	660
556467TP-973	1000	480	2289	238	794	543
800103TP-29A	300	98	536	49	126	239
569640TP-BA7	200	130	109	12	35	42
800130TP-9A2	300	307	1532	205	531	611
568791TP-204	100	67	284	34	95	119
521003TP-551	75	56	272	30	84	123
564570TP-57C	50	29	96	11	30	42
5791016TP-030	50	34	133	14	42	57
181975TP-7DD	150	117	393	53	152	191
400440TP-B34	100	42	140	15	38	49
418284TP-E36	500	429	378	74	178	197
4182832TP-1BD	200	192	427	61	140	178
4182836TP-0B7	150	189	867	90	256	330
530906TP-856	300	190	421	54	133	145
800164TP-0A0	500	198	872	101	224	414
405190TP-453	150	65	214	23	60	107
319736TP-DAF	200	91	117	0	0	79
180710TP-2C9	150	150	66	12	29	38
8001695TP-CF7	500	362	1933	226	560	828
800147TP-135	150	110	489	70	158	206
800150TP-652	100	90	108	17	39	68
142817TP-7FC	150	135	82	15	35	31
589190TP-49A	150	144	187	34	82	66
116167TP-E5C	150	41	118	19	42	36
118468TP-C47	100	95	212	33	81	80
1015827TP-5C5	150	98	121	26	61	60
190101TP-AC6	150	135	92	16	36	47
800169TP-FFB	150	101	512	51	134	225
249945TP-521	150	57	213	16	44	118
364828TP-B0F	150	31	28	4	12	9
110197TP-B8B	150	125	222	24	68	130
426599TP-D2E	500	193	839	94	256	373
192544TP-A6D	300	303	1444	199	515	612
657599TP-EEF	100	50	70	15	35	30
192519TP-D3E	150	120	149	4	8	12
1186119TP-9E7	200	301	257	44	117	134
118615TP-C46	200	154	349	38	100	152
1186118TP-5A2	200	102	392	44	123	140
543645TP-165	200	190	56	8	18	21
6204408TP-3FB	750	504	2306	277	653	918
6204407TP-C25	500	370	1443	148	441	536
6204405TP-CA0	300	288	599	94	207	235
6204404TP-0E5	1000	561	1561	250	532	613
8001320TP-60F	300	126	117	18	41	56
620456TP-103	200	141	262	43	93	105
204735TP-7C2	50	103	135	25	64	45
525441TP-DF0	150	135	28	5	10	12
633604TP-988	200	83	136	8	24	69
3330513TP-914	150	111	73	3	0	49
333049TP-FA3	150	113	78	0	0	52

ICP Number	Contract Capacity kVA	Peak Demand Reading kVA	Total Energy Reading MWh	Winter Peak Reading MWh	Winter Day Reading MWh	Summer Day Reading MWh
615269TP-92F	300	314	262	50	112	137
1819727TP-A3B	100	100	200	30	79	99
800152TP-6D7	1000	896	3513	244	601	1947
800170TP-B07	750	472	1531	159	387	593
642956TP-513	200	41	163	15	45	68
800104TP-F50	500	462	2067	221	565	940
8001045TP-7B3	500	314	1341	152	364	629
5791226TP-DCF	300	94	550	46	121	152
549325TP-5D0	500	181	636	81	222	217
643847TP-B5F	500	196	260	52	117	110
6438485TP-221	200	70	80	13	30	27
6438465TP-89B	500	286	378	68	157	136
157641TP-7B1	150	135	64	14	33	31
800132TP-927	100	29	210	21	60	81
632751TP-46B	150	40	76	11	32	24
800113TP-837	100	39	188	16	45	82
331280TP-F5A	150	92	375	3	5	261
579184TP-AA1	100	40	222	12	27	26
568266TP-ADC	500	457	1384	131	350	409
5682737TP-04F	300	101	175	9	21	26
300360TP-C68	75	20	1	1	1	1
405769TP-C13	200	100	197	36	84	113
617670TP-292	750	274	698	121	274	291
112267TP-BDF	150	99	57	11	36	14
800171TP-742	1500	556	1291	167	404	581
632798TP-DD5	100	94	142	12	31	68
634528TP-0A0	30	6	39	4	9	17
5552055TP-0DD	2000	1500	6000	600	1500	2800
176643TP-F59	150	150	17	5	11	6
800121TP-F4A	2000	1297	7107	826	2229	2934
569934TP-OFF	150	150	144	25	60	77
482074TP-DA2	200	80	101	18	46	55
800125TP-E40	2000	1759	5105	606	1467	2551
8001011TP-EB1	300	266	502	66	180	192
400495TP-B39	200	95	396	40	108	182
800120TP-30F	30	5	10	1	2	2
595728TP-15B	500	259	137	27	59	63
184621TP-6F0	50	45	51	14	30	28
5791154TP-B14	150	135	214	41	95	118
482070TP-CA8	300	300	155	23	55	101
656382TP-D30	100	10	1	1	1	1
800131TP-5E7	2500	989	2867	480	1038	1043
520373TP-2AF	1500	931	418	115	194	195
184687TP-F60	150	135	146	30	71	76
150931TP-983	500	350	498	95	214	194
150925TP-224	150	150	424	62	144	145
3330508TP-D6D	300	300	200	3	8	150
405386TP-576	150	96	62	8	22	28
389997TP-83A	200	56	174	16	38	91
389990TP-5F0	150	87	246	23	53	127
389999TP-BA1	300	50	166	16	37	78
800167TP-C60	150	99	430	52	142	208
800161TP-DEF	500	137	632	84	186	262
8001611TP-8B7	30	36	103	15	40	33
143131TP-38F	200	207	266	55	121	120
181911TP-927	75	115	640	35	96	139
235545TP-814	200	128	493	68	170	207
637505TP-04E	500	300	372	18	44	180
150910TP-893	500	49	180	11	39	97
150912TP-816	750	132	363	15	38	182
624649TP-8F7	500	63	313	4	10	182
319705TP-697	150	150	375	3	5	261
141990TP-498	150	150	375	3	5	261
800166TP-025	200	108	385	36	97	179

ICP Number	Contract Capacity kVA	Peak Demand Reading kVA	Total Energy Reading MWh	Winter Peak Reading MWh	Winter Day Reading MWh	Summer Day Reading MWh
416731TP-C0E	150	92	119	23	52	45
624606TP-58C	150	150	5	1	2	2
1164012TP-00A	300	156	450	71	179	117
424510TP-575	500	280	490	62	188	275
4245295TP-206	150	64	72	16	39	28
800149TP-2AE	300	286	1397	183	477	543
8001015TP-FBB	300	287	1114	150	397	467

The profile parameters for determining the line charges for the Group customers are:

Consumer Capacity	Code	Number of Connections	After Diversity Peak 'Demand kW	Total Energy Group MWh	Winter Peak Group MWh	Winter Day Group MWh	Summer Day Group MWh
TPC Urban Domestic							
Small Domestic (8kVA 1 Phase) - All Peak	UD08P	36	26	146	20	47	59
Small Domestic (8kVA 1 Phase) - With Off Peak	UD08Q	377	231	1531	158	447	607
Standard Domestic (20kVA 1 Phase) - All Peak	UD20P	993	1787	10080	1385	3270	4079
Standard Domestic (20kVA 1 Phase) - With Off Peak	UD20Q	12455	19049	126432	13030	36910	50136
10% Fixed Charge Option - All Peak	UDL20P	129	232	727	100	236	294
10% Fixed Charge Option - With Off Peak	UDL20Q	471	720	2656	274	775	1053
10% Fixed Charge Option (8kVA 1 Phase) - All Peak	UDL08P	0	0	0	0	0	0
10% Fixed Charge Option (8kVA 1 Phase) - With Off Peak	UDL08Q	0	0	0	0	0	0
Non-Domestic Single Phase							
Street Lights (1 Phase)	US001L	4,326	1103	4881	671	1583	1975
1 kVA 1 Phase - All Peak	US001P	26	26	345	47	112	140
8 kVA 1 Phase - All Peak	US008P	168	121	682	94	221	276
8 kVA 1 Phase - With Off Peak	US008Q	38	23	154	16	45	61
20 kVA 1 Phase - All Peak	US020P	373	671	3786	520	1228	1532
20 kVA 1 Phase - With Off Peak	US020Q	156	239	1584	163	462	628
Non-Domestic Three Phase							
15 kVA 3 Phase - All Peak	UT015P	43	58	327	45	106	132
15 kVA 3 Phase - With Off Peak	UT015Q	19	22	145	15	42	57
30 kVA 3 Phase - All Peak	UT030P	566	1838	7373	1013	2392	2983
30 kVA 3 Phase - With Off Peak	UT030Q	121	334	1576	162	460	625
50 kVA 3 Phase - All Peak	UT050P	263	1904	9547	1312	3097	3863
50 kVA 3 Phase - With Off Peak	UT050Q	98	603	3558	367	1039	1411
75 kVA 3 Phase - All Peak	UT075P	93	1328	5330	732	1729	2157
75 kVA 3 Phase - With Off Peak	UT075Q	25	304	1433	148	418	568
100 kVA 3 Phase - All Peak	UT100P	7	165	663	91	215	268
100 kVA 3 Phase - With Off Peak	UT100Q	2	40	189	20	55	75
TPC Rural Domestic							
Small Domestic (8kVA 1 Phase) - All Peak	RD08P	50	36	203	28	66	82
Small Domestic (8kVA 1 Phase) - With Off Peak *	RD08Q	300	184	1218	126	356	483
Standard Domestic (20kVA 1 Phase) - All Peak	RD20P	1002	1803	10171	1398	3299	4116
Standard Domestic (20kVA 1 Phase) - With Off Peak	RD20Q	6896	10547	70002	7214	20436	27759
10% Fixed Charge Option - All Peak	RDL20P	83	149	468	64	152	189
10% Fixed Charge Option - With Off Peak	RDL20Q	141	216	795	82	232	315
10% Fixed Charge Option (8kVA 1 Phase) - All Peak	RDL08P	0	0	0	0	0	0
10% Fixed Charge Option (8kVA 1 Phase) - With Off Peak	RDL08Q	0	0	0	0	0	0
Non-Domestic Single Phase & Holiday Homes							
Street Lights (1 Phase)	RS001L	588	150	663	91	215	268
1 kVA 1 Phase - All Peak	RS001P	127	127	1686	232	547	682
8 kVA 1 Phase - All Peak	RS008P	671	483	2725	374	884	1102
8 kVA 1 Phase - With Off Peak	RS008Q	93	57	378	39	110	150
20 kVA 1 Phase - All Peak	RS020P	2,112	3800	21439	2946	6954	8675
20 kVA 1 Phase - With Off Peak	RS020Q	266	407	2700	278	788	1071
Non-Domestic Three Phase							
15 kVA 3 Phase - All Peak	RT015P	158	213	1203	165	390	487
15 kVA 3 Phase - With Off Peak	RT015Q	22	25	167	17	49	66
30 kVA 3 Phase - All Peak	RT030P	2,453	7965	31955	4391	10365	12930
30 kVA 3 Phase - With Off Peak	RT030Q	366	1010	4768	491	1392	1891
50 kVA 3 Phase - All Peak	RT050P	327	2367	11871	1631	3851	4803
50 kVA 3 Phase - With Off Peak	RT050Q	439	2701	15937	1642	4653	6320
75 kVA 3 Phase - All Peak	RT075P	57	814	3266	449	1060	1322
75 kVA 3 Phase - With Off Peak	RT075Q	13	158	745	77	217	295
100 kVA 3 Phase - All Peak	RT100P	18	425	1705	234	553	690
100 kVA 3 Phase - With Off Peak	RT100Q	1	20	95	10	28	38

2. TRANSMISSION CHARGES

Transmission charges reflect the Transpower grid asset management costs incurred by The Power Company Ltd based on the five points of supply and also include the equivalent costs of the Pioneer Generation point of supply at Monowai Power Station in Western Southland.

The five points of supply are:

- (a) Gore
- (b) Edendale
- (c) Invercargill
- (d) North Makarewa
- (f) Monowai

Trans Power transmission charges have two components:

- (a) Connection charge
- (b) Interconnection charge

2.1 Connection Charge

The Transpower connection charge is based on the Transpower local assets utilised to provide the supply.

In the case of the Invercargill point of supply the connection charge is split between The Power Company Limited and Electricity Invercargill Limited, each network connected to the transmission grid there.

The total connection charges which includes Transpowers EVA credits for each point of supply are:

(a)	Gore	\$54,168.00
(b)	Edendale	\$396,371.76
(c)	Invercargill	\$15,294.36
(d)	North Makarewa	\$338,943.72
(f)	Monowai	\$29,784.00

The total connection charge for Invercargill is \$45,036. The Power Company's share is \$15,294.

The connection charges are applied to customers on the basis of the following allocation:

Winter Peak Demand	70%
Winter Peak Energy	20%
Winter Day Energy	10%

For individual customers this equates to:

Point of Supply	Per kVA Peak Demand	Per Winter Peak MWh	Per Winter Day MWh
Gore	\$1.09	\$0.51	\$0.17
Edendale	\$14.84	\$12.36	\$4.07
Invercargill (TPCL)	\$0.37	\$0.16	\$0.05
North Makarewa	\$4.64	\$2.51	\$0.82
Monowai	\$4.64	\$2.51	\$0.82

After the revenue from the individual customers has been subtracted from the total the remaining group customer charges are as follows:

	Per kVA Peak Demand	Per Winter Peak MWh	Per Winter Day MWh
All Points of Supply	\$2.59	\$1.27	\$0.41

The difference in the two sets of rates above reflects the difference in losses and diversity factors between the large individual customers and the smaller customer groups.

2.2 Interconnection Charge

This charge is based on the average of the 12 highest peak demands at each point of supply on a rolling 12 month basis.

The total interconnection charges for each point of supply are:

(a)	Gore	\$1,890,800
(b)	Edendale	\$1,176,338
(c)	Invercargill	\$1,621,812
(d)	North Makarewa	\$2,502,767
(f)	Monowai	\$206,000

The Power Company's share of the Invercargill interconnection charge of \$5,125,828 is \$1,621,812.

The interconnection charges are applied to customers on the basis of the following allocation:

Winter Peak Demand	60%
Winter Peak Energy	30%
Winter Day Energy	10%

For individual customers this equates to the following charges:

Point of Supply	Per kVA Peak Demand	Per Winter Peak MWh	Per Winter Day MWh
Gore	\$32.64	\$26.87	\$5.89
Edendale	\$37.74	\$55.03	\$12.08
Invercargill (TPCL)	\$33.37	\$25.22	\$5.62
North Makarewa	\$29.34	\$27.77	\$6.02
Monowai	\$29.34	\$27.77	\$6.02

After the revenue from the individual customers has been subtracted from the total the remaining group customer charges are as follows:

	Per kVA Peak Demand	Per Winter Peak MWh	Per Winter Day MWh
All Points of Supply	\$35.51	\$30.49	\$6.51

The differences in the above rates reflect the differences in losses and diversity factors between the large individual customers and the small customer groups.

2.3 Transpower Revenue for Individual Customers

The total Transpower revenue for individual customers grouped by capacity is shown in the following table:

Consumer Capacity kVA	Number of Connections	Line Charge Revenue per Consumer Group	Average Line Charge
30	4	\$2,596	\$649
50	6	\$7,075	\$1,179
75	4	\$6,467	\$1,617
100	17	\$28,608	\$1,683
150	59	\$155,924	\$2,643
200	32	\$105,276	\$3,290
300	25	\$157,103	\$6,284
500	25	\$190,220	\$7,609
750	7	\$89,461	\$12,780
1000	8	\$230,875	\$28,859
1500	3	\$119,315	\$39,772
1750	0	\$0	\$0
2000	3	\$177,845	\$59,282
2300	0	\$0	\$0
2500	1	\$35,557	\$35,557
3500	1	\$103,871	\$103,871
4500	1	\$3,914	\$3,914
5000	1	\$204,789	\$204,789
6000	1	\$85,536	\$85,536
10000	1	\$495,169	\$495,169
22000	1	\$1,044,592	\$1,044,592

2.4 Transpower Revenue for Group Customers

The total Transpower revenue for group customers is shown in the following table.

Consumer Capacity	Code	Number of Connections	TransPower Charge	TransPower Revenue per Consumer Group
TPC Urban				
Domestic				
Small Domestic (8kVA 1 Phase) - All Peak	UD08P	36	\$50	\$1,814
Small Domestic (8kVA 1 Phase) - With Off Peak	UD08Q	376	\$42	\$15,755
Standard Domestic (20kVA 1 Phase) - All Peak	UD20P	993	\$126	\$125,095
Standard Domestic (20kVA 1 Phase) - With Off Peak	UD20Q	12,455	\$105	\$1,304,698
10% Fixed Charge Option - All Peak	UDL20P	76	\$100	\$7,635
10% Fixed Charge Option - With Off Peak	UDL20Q	317	\$84	\$26,658
10% Fixed Charge Option (8kVA 1 Phase) - All Peak	UDL08P	0	\$50	\$0
10% Fixed Charge Option (8kVA 1 Phase) - With Off Peak	UDL08Q	0	\$42	\$0
Non-Domestic Single Phase				
Street Lights (1 Phase)	US001L	4,326	\$16	\$69,640

Consumer Capacity	Code	Number of Connections	TransPower Charge	TransPower Revenue per Consumer Group
1 kVA 1 Phase - All Peak	US001P	26	\$113	\$2,943
8 kVA 1 Phase - All Peak	US008P	168	\$50	\$8,466
8 kVA 1 Phase - With Off Peak	US008Q	38	\$42	\$1,592
20 kVA 1 Phase - All Peak	US020P	373	\$126	\$46,989
20 kVA 1 Phase - With Off Peak	US020Q	156	\$105	\$16,341
Non-Domestic Three Phase				
15 kVA 3 Phase - All Peak	UT015P	43	\$94	\$4,063
15 kVA 3 Phase - With Off Peak	UT015Q	19	\$79	\$1,493
30 kVA 3 Phase - All Peak	UT030P	566	\$197	\$111,732
30 kVA 3 Phase - With Off Peak	UT030Q	121	\$165	\$19,942
50 kVA 3 Phase - All Peak	UT050P	263	\$481	\$126,545
50 kVA 3 Phase - With Off Peak	UT050Q	98	\$401	\$39,265
75 kVA 3 Phase - All Peak	UT075P	93	\$868	\$80,763
75 kVA 3 Phase - With Off Peak	UT075Q	25	\$725	\$18,125
100 kVA 3 Phase - All Peak	UT100P	7	\$1,436	\$10,049
100 kVA 3 Phase - With Off Peak	UT100Q	2	\$1,199	\$2,397
TPC Rural				
Domestic				
Small Domestic (8kVA 1 Phase) - All Peak	RD08P	45	\$50	\$2,268
Small Domestic (8kVA 1 Phase) - With Off Peak	RD08Q	299	\$42	\$12,528
Standard Domestic (20kVA 1 Phase) - All Peak	RD20P	182	\$126	\$22,928
Standard Domestic (20kVA 1 Phase) - With Off Peak	RD20Q	472	\$105	\$49,443
10% Fixed Charge Option - All Peak	RDL20P	69	\$100	\$6,931
10% Fixed Charge Option - With Off Peak	RDL20Q	108	\$84	\$9,082
10% Fixed Charge Option (8kVA 1 Phase) - All Peak	RDL08P	0	\$50	\$0
10% Fixed Charge Option (8kVA 1 Phase) - With Off Peak	RDL08Q	0	\$42	\$0
Non-Domestic Single Phase				
Street Lights (1 Phase)	RS001L	588	\$16	\$9,466
1 kVA 1 Phase - All Peak	RS001P	127	\$113	\$14,375
8 kVA 1 Phase - All Peak	RS008P	671	\$50	\$33,812
8 kVA 1 Phase - With Off Peak	RS008Q	93	\$42	\$3,897
20 kVA 1 Phase - All Peak	RS020P	2,112	\$126	\$266,062
20 kVA 1 Phase - With Off Peak	RS020Q	266	\$105	\$27,864
Non-Domestic Three Phase				
15 kVA 3 Phase - All Peak	RT015P	158	\$94	\$14,928
15 kVA 3 Phase - With Off Peak	RT015Q	22	\$79	\$1,728
30 kVA 3 Phase - All Peak	RT030P	2,453	\$197	\$484,239
30 kVA 3 Phase - With Off Peak	RT030Q	366	\$165	\$60,320
50 kVA 3 Phase - All Peak	RT050P	327	\$481	\$157,340
50 kVA 3 Phase - With Off Peak	RT050Q	439	\$401	\$175,892
75 kVA 3 Phase - All Peak	RT075P	57	\$868	\$49,500
75 kVA 3 Phase - With Off Peak	RT075Q	13	\$725	\$9,425
100 kVA 3 Phase - All Peak	RT100P	18	\$1,436	\$25,841
100 kVA 3 Phase - With Off Peak	RT100Q	0	\$1,199	\$0

3. SUBTRANSMISSION CHARGES

Sub transmission charges are based on the sub transmission costs (66kV and 33kV network) and the zone substation costs.

There are two components making up the sub transmission charges:

- (a) Supply charge
- (b) Maintenance charge

3.1 Supply Charge

The sub transmission network was broken up into its constituent components including every line and every zone substation. These components were categorised, i.e. 66,000 and 33,000V, indoor and outdoor, size, number of transformers, circuit breakers, length of line etc.

Values for these sub transmission network components were based on the replacement value costs. These values were then amended by the ratio of the overall replacement cost to the asset value of the network. The appropriate share of the supply charge was allocated to each zone substation on this basis.

The share of the sub transmission lines by each zone substation was determined using the superposition theorem and calculating load flows through the interconnected mesh network.

The total supply charge for all the TPCL zone substations is \$8,508,410.

The supply charge for TPCL is allocated across all customers connected to each zone substation on the following basis:

Winter Peak Demand	70%
Winter Peak Energy	20%
Winter Day Energy	10%

3.2 Maintenance Charge

The sub transmission maintenance charges for TPC total \$1,565,518.

These maintenance charges are allocated across the customers on the following basis:

Total Energy	50%
Winter Peak Demand	50%

In this case the commercial customers incur a weighting compared to domestic customers of 2:1. This reflects the higher level of importance for commercial customers of the maintenance to the network. This weighted ratio only applies to the total energy component, i.e. 50% of the cost.

3.3 Total Sub transmission Charges

The total sub transmission charges allocated to each zone substation are shown in the following table.

Zone Substation	Total Supply Charge	Total Maintenance Charge
Awarua	\$88,790	\$15,655
Bluff	\$328,302	\$65,040
Centre Bush	\$208,562	\$36,773
Conical Hills	\$264,887	\$49,163
Dipton	\$119,213	\$21,019
Edendale	\$221,616	\$39,075
Glenham	\$117,808	\$20,772
Gorge Road	\$143,211	\$25,251
Hillside	\$269,567	\$47,530
Kelso	\$291,663	\$51,426
Kennington	\$134,329	\$23,685
Lumsden	\$428,853	\$75,615
Makarewa	\$232,124	\$40,928
Manapouri	\$225,078	\$39,685
Mataura	\$322,205	\$56,811
Monowai	\$85,743	\$15,118
Mossburn	\$283,569	\$55,554
NZMP	\$270,993	\$39,515
North Gore	\$160,351	\$35,341
Ohai	\$402,034	\$83,395
Orawia	\$461,636	\$90,439
Otatara	\$145,096	\$25,583
Otautau	\$437,335	\$77,110
Riversdale	\$305,173	\$53,808
Riverton	\$417,899	\$73,683
Seaward Bush	\$280,487	\$49,455
South Gore	\$188,790	\$33,287
Te Anau	\$549,096	\$138,308
Tokanui	\$199,727	\$35,216
Underwood	\$440,861	\$64,777
Waikiwi	\$231,529	\$40,823
Winton	\$244,049	\$43,030
ICC46	\$7,832	\$2,827

3.4 Sub transmission Charges for Individual Customers above 100 kVA

The sub transmission charges relating to each zone substation are shown in the following table.

Zone Substation	Supply Charge per kVA Winter Peak Demand	Supply Charge per Winter Peak MWh	Supply Charge per Winter Day MWh	Maintenance Charge per Domestic Total MWh	Maintenance Charge per Commercial Total MWh	Maintenance Charge per kVA Winter Peak Demand
Awarua	\$50.59	\$174.10	\$84.56	\$8.15	\$16.31	\$6.37
Bluff	\$43.72	\$15.05	\$7.46	\$0.94	\$1.88	\$6.19
Centre Bush	\$60.44	\$31.41	\$17.88	\$1.70	\$3.40	\$7.61
Conical Hills	\$57.71	\$30.55	\$11.94	\$1.33	\$2.66	\$7.65
Dipton	\$98.12	\$48.45	\$15.31	\$2.32	\$4.63	\$12.36
Edendale	\$36.48	\$8.69	\$4.22	\$0.56	\$1.11	\$4.59
Glenham	\$67.75	\$35.32	\$20.13	\$2.28	\$4.57	\$8.53
Gorge Road	\$78.58	\$33.95	\$10.41	\$1.67	\$3.35	\$9.90
Hillside	\$399.36	\$307.86	\$94.37	\$15.17	\$30.35	\$50.30
Kelso	\$51.48	\$17.95	\$9.96	\$1.15	\$2.30	\$6.48
Kennington	\$28.43	\$11.79	\$4.14	\$0.40	\$0.80	\$3.58
Lumsden	\$118.93	\$46.15	\$25.46	\$2.73	\$5.46	\$14.98
Makarewa	\$36.18	\$12.84	\$6.87	\$0.57	\$1.14	\$4.56
Manapouri	\$185.25	\$129.35	\$39.65	\$6.38	\$12.75	\$23.33
Mataura	\$28.52	\$12.34	\$6.39	\$0.51	\$1.03	\$3.59
Monowai	\$317.57	\$175.74	\$53.87	\$8.66	\$17.32	\$40.00
Mossburn	\$176.37	\$68.56	\$37.86	\$3.39	\$6.78	\$24.68
NZMP	\$14.34	\$12.34	\$5.15	\$0.17	\$0.33	\$1.49
North Gore	\$13.20	\$6.09	\$2.04	\$0.34	\$0.69	\$2.08
Ohai	\$129.31	\$63.58	\$19.96	\$3.46	\$6.93	\$19.16
Orawia	\$127.21	\$43.41	\$23.16	\$2.89	\$5.77	\$17.80
Otatara	\$33.31	\$12.53	\$7.41	\$0.93	\$1.86	\$4.19
Otautau	\$80.99	\$39.71	\$14.39	\$1.66	\$3.31	\$10.20
Riversdale	\$84.51	\$30.01	\$9.19	\$1.37	\$2.73	\$10.64
Riverton	\$88.44	\$28.89	\$9.14	\$1.38	\$2.77	\$11.14
Seaward Bush	\$23.09	\$11.00	\$3.73	\$0.36	\$0.72	\$2.91
South Gore	\$15.81	\$6.37	\$3.36	\$0.34	\$0.68	\$1.99
Te Anau	\$79.75	\$32.77	\$10.09	\$1.90	\$3.80	\$14.35
Tokanui	\$161.34	\$103.61	\$31.76	\$5.11	\$10.21	\$20.32
Underwood	\$22.68	\$15.65	\$8.28	\$0.36	\$0.72	\$2.38
Waikiwi	\$18.47	\$8.26	\$2.57	\$0.34	\$0.67	\$2.33
Winton	\$21.27	\$10.46	\$3.36	\$0.40	\$0.80	\$2.68

3.5 Sub transmission Charges for Group Customers

After the revenue from the individual customers has been subtracted from the total the remaining group customer charges are as follows:

	Supply Charge per kVA Winter Peak Demand	Supply Charge per Winter Peak MWh	Supply Charge per Winter Day MWh	Maintenance Charge per Domestic Total MWh	Maintenance Charge per Commercial Total MWh	Maintenance Charge per kVA Winter Peak Demand
Group Consumers	\$54.13	\$22.43	\$10.15	\$1.07	\$2.14	\$6.45

4. DISTRIBUTION CHARGES

Distribution charges are based on the distribution costs which include 11,000 and 400V line and cables and distribution substations and transformers.

All individual customers have location based distribution charges. These customers pay their distribution charges based on four factors - the radial distance from the zone substation, the contract capacity of the installation and the number and size of transformers used to supply them.

The group customers have non locational distribution charges. For these customers the costs of the distribution network are averaged. These customers are identified as belonging to one of two groups, Urban and Rural.

The urban customers are located in the following areas:

- (a) Invercargill
- (b) Gore
- (c) Te Anau
- (d) Winton
- (e) Maitai
- (f) Riverton
- (g) Otautau
- (h) Tuatapere
- (i) Ohai
- (j) Nightcaps
- (k) Mossburn
- (l) Lumsden
- (m) Riversdale
- (n) Manapouri
- (o) Tapanui
- (p) Edendale
- (q) Wyndham
- (r) Wallacetown
- (s) Otatara

The remaining customers are classified as rural.

There are three components making up the distribution charges

- (a) Supply charge
- (b) Maintenance charge
- (c) Transformer charge

4.1 Supply Charge

The supply charge is based on the use charge which is the required return on the assets by the shareholder and depreciation.

The total supply charge for TPCL totals \$15,162,195.

The non locational supply charges are allocated across customers on the following basis:

Contract Capacity	70%
Winter Peak Energy	20%
Winter Day Energy	10%

4.2 Maintenance Charge

The maintenance charges for TPCL total \$2,685,754.

The maintenance portion of the non-locational distribution charges is allocated across customers on the following basis:

Total Energy	50%
Contract Capacity	50%

4.3 Transformer Charge

The transformer charges for TPCL total \$4,211,721.

The transformer portion of the distribution charges is allocated across consumers on the following basis:

Number of transformers and transformer capacity	100%.
-------------------------------------------------	-------

4.4 Locational Individual Distribution Charges

(a)	Distribution Supply charge	\$2.27 per kVAkm Urban
(b)	Distribution Supply charge	\$0.50 per kVAkm Rural
(c)	Distribution Transformer charge	\$320 per Transformer
(d)	Distribution Maintenance charge	\$1,068 per km Urban
(e)	Distribution Maintenance charge	\$441 per km Rural
(f)	Distribution Transformer charge	\$448 per Transformer for capacity ≥ 75 kVA
(g)	Distribution Transformer charge	\$28 per Transformer for capacity < 75 kVA

The Transformer charge of \$320 per transformer is multiplied by a price ratio depending on the size of the transformer. The ratios for the different sized transformers are shown below.

Transformer Size	Ratio applied
15kVA Transformer	1.00
30kVA Transformer	1.44
50kVA Transformer	1.88
75kVA Transformer	2.30
100kVA Transformer	2.80
150kVA Transformer	3.50
200kVA Transformer	4.40
300kVA Transformer	5.16
500kVA Transformer	7.20
750kVA Transformer	8.80
1000kVA Transformer	9.96
1250kVA Transformer	13.20
1500kVA Transformer	15.60

In calculating the distribution maintenance charges an allowance is made for the fact that customers above 150kVA have less use of the 400V network than smaller customers, i.e. they often have their own local transformer or exclusive supply cables from a transformer. The line portion of the distribution maintenance charges is multiplied by a factor of 70%.

Individual commercial customers incur a weighting on the transformer portion of the maintenance charge of 5:1. This reflects the importance of the maintenance to the network for commercial customers.

4.4 Distribution Charges for Group Customers

After the revenue from the individual customers has been subtracted from the total the remaining group customer charges are as follows:

TPC Urban

(a) Distribution Supply charge	\$11.37 per kVA Contract Capacity
(b) Distribution Supply charge	\$26.47 per Winter Peak MWh
(c) Distribution Supply charge	\$7.81 per Winter Day MWh
(d) Distribution Maintenance charge	\$0.60 per Domestic Total MWh
(e) Distribution Maintenance charge	\$1.20 per Commercial Total MWh
(f) Distribution Maintenance charge	\$0.79 per kVA Contract Capacity
(g) Distribution Transformer charge	\$15.04 per kVA AD Transformer capacity

TPC Rural

(a) Distribution Supply charge	\$67.18 per kVA Contract Capacity
(b) Distribution Supply charge	\$113.08 per Winter Peak MWh
(c) Distribution Supply charge	\$35.94 per Winter Day MWh
(d) Distribution Maintenance charge	\$4.64 per Domestic Total MWh
(e) Distribution Maintenance charge	\$9.28 per Commercial Total MWh
(f) Distribution Maintenance charge	\$9.27 per kVA Contract Capacity
(g) Distribution Transformer charge	\$15.04 per kVA AD Transformer capacity

The model applies an 8% discount for rural single phase group customers and a 10% discount for urban single phase group customers compared to three phase customers of similar size. This is to reflect the reduced investment in network assets for single phase customers.

With respect to the maintenance charges for group customers the commercial customers incur a weighting to domestic customers of 2:1. This represents a higher level of importance for commercial customers of the maintenance to the network. This weighted ratio only applies to the total energy component i.e. 50% of the charge.

5. POWERNET OVERHEADS

The PowerNet overhead charges are based on those costs which cannot be allocated directly to either capital or maintenance.

These costs include the following:

- (a) Executive Management
- (b) Directors Fees
- (c) System Control
- (d) Miscellaneous overheads, e.g. buildings, rates, etc.

These charges are split equally over the total customer base.

The total overhead costs are \$1,219,741

The charge per customer is \$38.23.

6. POWERNET CHARGES

6.1 PowerNet Revenue for Individual Customers

The total PowerNet revenue for individual customers grouped by capacity is shown in the following table.

Consumer Capacity kVA	Sub transmission Charge	Distribution Charge	PowerNet Overhead Charge	Total PowerNet Revenue
30	\$6,310	\$9,115	\$153	\$15,578
50	\$27,065	\$12,264	\$153	\$39,482
75	\$19,826	\$5,849	\$153	\$25,827
100	\$266,661	\$41,592	\$574	\$308,827
150	\$378,797	\$152,357	\$1,912	\$533,066
200	\$311,611	\$80,384	\$1,032	\$393,027
300	\$158,889	\$80,706	\$879	\$240,474
500	\$346,930	\$56,462	\$918	\$404,310
750	\$48,313	\$17,492	\$268	\$66,072
1000	\$47,213	\$21,473	\$306	\$68,992
1500	\$12,365	\$6,511	\$115	\$18,990
2000	\$10,072	\$4,952	\$76	\$15,100
2500	\$2,826	\$1,966	\$38	\$4,830
3500	\$630	\$3,586	\$38	\$4,254
4500	\$20,621	\$4,897	\$38	\$25,556
5000	\$200,055	\$1,896	\$38	\$201,989
6000	\$91,462	\$1,242	\$38	\$92,742
10000	\$399,533	\$3,134	\$38	\$402,705
22000	\$320,151	\$366	\$38	\$320,556

6.2 PowerNet Revenue for Group Customers

The total PowerNet revenue for group customers is shown in the following table.

Consumer Capacity	Code	Number of Connections	Sub transmission Charge	Distribution Charge	PowerNet Overheads	Total PowerNet Revenue
TPC Urban						
Domestic						
Small Domestic (8kVA 1 Phase) - All Peak - Closed *	UD08P	36	\$2,454	\$6,938	\$1,376	\$10,769
Small Domestic (8kVA 1 Phase) - With Off Peak - Closed *	UD08Q	377	\$22,085	\$50,212	\$14,414	\$86,711
Standard Domestic (20kVA 1 Phase) - All Peak	UD20P	993	\$169,235	\$395,860	\$37,966	\$603,061
Standard Domestic (20kVA 1 Phase) - With Off Peak	UD20Q	12455	\$1,824,083	\$3,906,755	\$476,200	\$6,207,038
10% Fixed Charge Option - All Peak	UDL20P	129	\$18,463	\$16,134	\$4,932	\$39,529
10% Fixed Charge Option - With Off Peak	UDL20Q	471	\$57,715	\$41,300	\$18,008	\$117,024
10% Fixed Charge Option (8kVA 1 Phase) - All Peak	UDL08P	0	\$0	\$0	\$0	\$0
10% Fixed Charge Option (8kVA 1 Phase) - With Off Peak	UDL08Q	0	\$0	\$0	\$0	\$0
Non-Domestic Single Phase						
Street Lights (1 Phase)	US001L	4,326	\$101,592	\$130,623	\$3,308	\$235,523
1 kVA 1 Phase - All Peak	US001P	26	\$4,034	\$8,376	\$994	\$13,404
8 kVA 1 Phase - All Peak	US008P	168	\$11,453	\$32,379	\$6,423	\$50,255
8 kVA 1 Phase - With Off Peak	US008Q	38	\$2,226	\$5,061	\$1,453	\$8,740
20 kVA 1 Phase - All Peak	US020P	373	\$63,570	\$148,696	\$14,261	\$226,527
20 kVA 1 Phase - With Off Peak	US020Q	156	\$22,847	\$48,932	\$5,964	\$77,744
Non-Domestic Three Phase						
15 kVA 3 Phase - All Peak	UT015P	43	\$5,847	\$13,311	\$1,644	\$20,802
15 kVA 3 Phase - With Off Peak	UT015Q	19	\$2,242	\$4,289	\$726	\$7,258
30 kVA 3 Phase - All Peak	UT030P	566	\$163,853	\$260,091	\$21,640	\$445,585
30 kVA 3 Phase - With Off Peak	UT030Q	121	\$30,275	\$40,774	\$4,626	\$75,675
50 kVA 3 Phase - All Peak	UT050P	263	\$183,340	\$300,587	\$10,055	\$493,982
50 kVA 3 Phase - With Off Peak	UT050Q	98	\$59,198	\$89,573	\$3,747	\$152,518
75 kVA 3 Phase - All Peak	UT075P	93	\$118,437	\$224,704	\$3,556	\$346,697
75 kVA 3 Phase - With Off Peak	UT075Q	25	\$27,517	\$45,043	\$956	\$73,516
100 kVA 3 Phase - All Peak	UT100P	7	\$14,737	\$31,616	\$268	\$46,620
100 kVA 3 Phase - With Off Peak	UT100Q	2	\$3,639	\$6,868	\$76	\$10,583
TPC Rural						
Domestic						
Small Domestic (8kVA 1 Phase) - All Peak - Closed *	RD08P	50	\$3,409	\$10,914	\$1,912	\$16,234
Small Domestic (8kVA 1 Phase) - With Off Peak - Closed *	RD08Q	300	\$17,574	\$46,526	\$11,470	\$75,571
Standard Domestic (20kVA 1 Phase) - All Peak	RD20P	1002	\$170,769	\$454,307	\$38,310	\$663,386
Standard Domestic (20kVA 1 Phase) - With Off Peak	RD20Q	6896	\$1,009,946	\$2,389,599	\$263,659	\$3,663,204
10% Fixed Charge Option - All Peak	RDL20P	83	\$11,879	\$10,381	\$3,173	\$25,433
10% Fixed Charge Option - With Off Peak	RDL20Q	141	\$17,278	\$14,937	\$5,391	\$37,606

Consumer Capacity	Code	Number of Connections	Sub transmission Charge	Distribution Charge	PowerNet Overheads	Total PowerNet Revenue
10% Fixed Charge Option (8kVA 1 Phase) - All Peak	RDL08P	0	\$0	\$0	\$0	\$0
10% Fixed Charge Option (8kVA 1 Phase) - With Off Peak	RDL08Q	0	\$0	\$0	\$0	\$0
Non-Domestic Single Phase & Holiday Homes						
Street Lights (1 Phase)	RS001L	588	\$13,809	\$19,901	\$450	\$34,159
1 kVA 1 Phase - All Peak	RS001P	127	\$19,702	\$40,915	\$4,856	\$65,473
8 kVA 1 Phase - All Peak	RS008P	671	\$45,743	\$146,466	\$25,655	\$217,863
8 kVA 1 Phase - With Off Peak	RS008Q	93	\$5,448	\$14,423	\$3,556	\$23,427
20 kVA 1 Phase - All Peak	RS020P	2,112	\$359,944	\$957,581	\$80,749	\$1,398,275
20 kVA 1 Phase - With Off Peak	RS020Q	266	\$38,957	\$92,174	\$10,170	\$141,301
Non-Domestic Three Phase						
15 kVA 3 Phase - All Peak	RT015P	158	\$21,485	\$55,254	\$6,041	\$82,780
15 kVA 3 Phase - With Off Peak	RT015Q	22	\$2,596	\$5,689	\$841	\$9,126
30 kVA 3 Phase - All Peak	RT030P	2,453	\$710,127	\$1,306,284	\$93,787	\$2,110,198
30 kVA 3 Phase - With Off Peak	RT030Q	366	\$91,575	\$143,372	\$13,994	\$248,940
50 kVA 3 Phase - All Peak	RT050P	327	\$227,955	\$422,670	\$12,502	\$663,127
50 kVA 3 Phase - With Off Peak	RT050Q	439	\$265,184	\$447,718	\$16,785	\$729,687
75 kVA 3 Phase - All Peak	RT075P	57	\$72,590	\$166,225	\$2,179	\$240,994
75 kVA 3 Phase - With Off Peak	RT075Q	13	\$14,309	\$27,788	\$497	\$42,594
100 kVA 3 Phase - All Peak	RT100P	18	\$37,895	\$98,052	\$688	\$136,635
100 kVA 3 Phase - With Off Peak	RT100Q	1	\$1,820	\$4,076	\$38	\$5,934

7. TRANSMISSION GRID OPERATOR SERVICES COSTS

These costs which relate to frequency, voltage support and black start on the National Grid are for security of energy supply and not to transmission. Accordingly they are excluded from the transmission charges and are allocated each month to the retailers on the basis of each Retailer's total energy consumption for that month.

8. LOSS CONSTRAINT EXCESS PAYMENT

Loss Constraint Excess Payments are credits rebated by Transpower as a result of money received from the Clearing Manager for the Wholesale Electricity Market and are excluded from the Transmission Charges. The payments are allocated each month to the retailers on the basis of total energy consumption for the month in which the rebate applied.

9. TOTAL LINE CHARGE REVENUE

9.1 Fixed, Variable and Metering Charges

The total line charge is charged as a split fixed and variable charge. This allows PowerNet to share some of the risk with the Energy Trader. The fixed/variable split is approximately 50:50.

For the installations with ½ hour metering the total line charge is halved to establish the fixed charge per annum. The variable charge is calculated as the remaining charge divided by the number of Day MWh in the customer energy profile to give a variable charge in dollars per Day MWh.

In the case of all other installations the variable charge is a standard charge of \$57.72 per Day MWh. The fixed charge is then calculated as the difference between the total charge and the number of Day MWh for the installation times \$57.72. This method of calculating the fixed charge accounts for the fact that some installations have negative fixed charges.

The Variable Charge of \$57.72 per MWh of daytime sales equates to \$50.26 per MWh of daytime purchases at the grid exit point.

For rural group customers with capacities less than 75kVA the fixed line charge is capped at 15% higher than the equivalent urban charge, for capacities greater than or equal to 75kVA the cap is set at 20%.

9.2 Line Charge Revenue for Individual Customers

The line charge revenue for individual customers grouped by capacity is shown in the following table.

Consumer Capacity kVA	Number of Connections	Line Charge Revenue per Consumer Group	Average Line Charge
30	4	\$11,222	\$2,806
50	6	\$22,513	\$3,752
75	4	\$21,139	\$5,285
100	17	\$98,370	\$5,786
150	59	\$490,671	\$8,316
200	32	\$359,483	\$11,234
300	25	\$374,940	\$14,998
500	25	\$517,933	\$20,717
750	7	\$273,831	\$39,119
1000	8	\$525,593	\$65,699
1500	3	\$310,293	\$103,431
2000	3	\$362,653	\$120,884
2500	1	\$65,313	\$65,313
3500	1	\$305,801	\$305,801
4500	1	\$8,894	\$8,894
5000	1	\$406,778	\$406,778
6000	1	\$178,278	\$178,278
10000	1	\$897,874	\$897,874
22000	1	\$1,365,148	\$1,365,148

9.3 Line Charge Revenue for Group Customers

The line charge revenue for group customers is shown in the following table.

Consumer Capacity	Code	Number of Connections	Fixed Charge per Day	Variable Charge per Day MWh Sales	Line Charge Revenue per Consumer Group
TPC Urban					
Domestic					
Small Domestic (8kVA 1 Phase) - All Peak	UD08P	36	\$0.55	\$57.72	\$12,583
Small Domestic (8kVA 1 Phase) - With Off Peak	UD08Q	376	\$0.36	\$57.72	\$102,236
Standard Domestic (20kVA 1 Phase) - All Peak	UD20P	993	\$0.99	\$57.72	\$728,155
Standard Domestic (20kVA 1 Phase) - With Off Peak	UD20Q	12,455	\$0.69	\$57.72	\$7,511,736
10% Fixed Charge Option - All Peak	UDL20P	76	\$0.15	\$98.36	\$30,923
10% Fixed Charge Option - With Off Peak	UDL20Q	317	\$0.00	\$98.36	\$105,419
10% Fixed Charge Option (8kVA 1 Phase) - All Peak	UDL08P	0	\$0.15	\$79.50	\$0
10% Fixed Charge Option (8kVA 1 Phase) - With Off Peak	UDL08Q	0	\$0.00	\$79.50	\$0
Non-Domestic Single Phase					
Street Lights (1 Phase)	US001L	4,326	\$0.08	\$57.72	\$305,163
1 kVA 1 Phase - All Peak	US001P	26	\$0.39	\$57.72	\$16,347
8 kVA 1 Phase - All Peak	US008P	168	\$0.55	\$57.72	\$58,720
8 kVA 1 Phase - With Off Peak	US008Q	38	\$0.36	\$57.72	\$10,332
20 kVA 1 Phase - All Peak	US020P	373	\$0.99	\$57.72	\$273,517
20 kVA 1 Phase - With Off Peak	US020Q	156	\$0.67	\$57.72	\$94,085
Non-Domestic Three Phase					
15 kVA 3 Phase - All Peak	UT015P	43	\$0.82	\$57.72	\$24,864.91
15 kVA 3 Phase - With Off Peak	UT015Q	19	\$0.54	\$57.72	\$8,750.36
30 kVA 3 Phase - All Peak	UT030P	566	\$1.39	\$57.72	\$557,316.99
30 kVA 3 Phase - With Off Peak	UT030Q	121	\$0.93	\$57.72	\$95,616.92
50 kVA 3 Phase - All Peak	UT050P	263	\$2.82	\$57.72	\$620,527.86
50 kVA 3 Phase - With Off Peak	UT050Q	98	\$1.92	\$57.72	\$191,783.25
75 kVA 3 Phase - All Peak	UT075P	93	\$6.84	\$57.72	\$427,459.39
75 kVA 3 Phase - With Off Peak	UT075Q	25	\$4.61	\$57.72	\$91,641.26
100 kVA 3 Phase - All Peak	UT100P	7	\$12.67	\$57.72	\$56,669.59
100 kVA 3 Phase - With Off Peak	UT100Q	2	\$8.80	\$57.72	\$12,980.25
TPC Rural					
Domestic					
Small Domestic (8kVA 1 Phase) - All Peak	RD08P	45	\$0.62	\$57.72	\$16,878.39
Small Domestic (8kVA 1 Phase) - With Off Peak	RD08Q	299	\$0.42	\$57.72	\$87,847.41
Standard Domestic (20kVA 1 Phase) - All Peak	UD20P	993	\$1.14	\$57.72	\$782,522.16
Standard Domestic (20kVA 1 Phase) - With Off Peak	UD20Q	12,455	\$0.78	\$57.72	\$7,920,883.08
10% Fixed Charge Option - All Peak	RDL20P	69	\$0.15	\$98.36	\$28,074.74
10% Fixed Charge Option - With Off Peak	RDL20Q	108	\$0.05	\$98.36	\$37,886.75
10% Fixed Charge Option (8kVA 1 Phase) - All Peak	UDL08P	0	\$0.15	\$79.50	\$0.00
10% Fixed Charge Option (8kVA 1 Phase) - With Off Peak	UDL08Q	0	\$0.05	\$79.50	\$0.00
Non-Domestic Single Phase					
Street Lights (1 Phase)	RS001L	588	\$0.09	\$57.72	\$43,624.61
1 kVA 1 Phase - All Peak	RS001P	127	\$0.39	\$57.72	\$79,847.54
8 kVA 1 Phase - All Peak	RS008P	671	\$0.62	\$57.72	\$251,675.57
8 kVA 1 Phase - With Off Peak	RS008Q	93	\$0.42	\$57.72	\$27,323.78
20 kVA 1 Phase - All Peak	RS020P	2,112	\$1.14	\$57.72	\$1,664,337.15
20 kVA 1 Phase - With Off Peak	RS020Q	266	\$0.78	\$57.72	\$169,165.39
Non-Domestic Three Phase					
15 kVA 3 Phase - All Peak	RT015P	158	\$0.93	\$57.72	\$97,707.80
15 kVA 3 Phase - With Off Peak	RT015Q	22	\$0.63	\$57.72	\$10,854.69
30 kVA 3 Phase - All Peak	RT030P	2,453	\$1.59	\$57.72	\$2,594,437.50
30 kVA 3 Phase - With Off Peak	RT030Q	366	\$1.08	\$57.72	\$309,259.93
50 kVA 3 Phase - All Peak	RT050P	327	\$3.23	\$57.72	\$820,466.38
50 kVA 3 Phase - With Off Peak	RT050Q	439	\$2.21	\$57.72	\$905,578.84
75 kVA 3 Phase - All Peak	RT075P	57	\$8.21	\$57.72	\$290,494.09
75 kVA 3 Phase - With Off Peak	RT075Q	13	\$5.53	\$57.72	\$52,018.85
100 kVA 3 Phase - All Peak	RT100P	18	\$15.22	\$57.72	\$162,475.30
100 kVA 3 Phase - With Off Peak	RT100Q	0	\$10.56	\$57.72	\$7,132.53

10. LINE CHARGE TABLES

10.1 Line Charge Breakdown for Individual Customers

ICP Number	Contract Capacity kVA	Transpower Charge	Subtransmission Charge	Distribution Charge	PowerNet Charge	Total Line Charge	Fixed Charge per annum	Variable Charge per Day MWh
396516TP-CB8	300	\$2,190	\$8,435	\$3,193	\$38	\$13,856	\$9,192	\$50.26
396517TP-0FD	200	\$2,427	\$8,800	\$2,596	\$38	\$13,861	\$5,825	\$50.26
800105TP-315	10000	\$495,169	\$399,533	\$3,134	\$38	\$897,874	\$448,937	\$15.55
800116TP-578	6000	\$85,536	\$91,462	\$1,242	\$38	\$178,278	\$89,139	\$15.05
800134TP-8A8	5000	\$204,789	\$200,055	\$1,896	\$38	\$406,778	\$203,389	\$19.70
8001365TP-9E5	750	\$18,808	\$17,529	\$243	\$38	\$36,619	\$18,309	\$11.17
800127TP-EC5	500	\$1,450	\$1,922	\$3,217	\$38	\$6,628	\$3,314	\$27.25
800139TP-7F3	300	\$4,644	\$4,218	\$2,235	\$38	\$11,135	\$5,567	\$17.17
800107TP-390	200	\$4,545	\$3,893	\$2,425	\$38	\$10,900	\$5,450	\$11.79
800118TP-6E3	150	\$2,242	\$2,670	\$1,993	\$38	\$6,943	\$5,806	\$50.26
800128TP-11B	100	\$3,289	\$4,442	\$1,973	\$38	\$9,742	(\$2,263)	\$50.26
8001281TP-B51	100	\$1,815	\$2,653	\$1,946	\$38	\$6,453	\$2,003	\$50.26
8001275TP-A4C	75	\$924	\$1,459	\$1,510	\$38	\$3,932	\$3,468	\$50.26
118447TP-ECC	150	\$3,028	\$2,691	\$1,919	\$38	\$7,676	(\$1,334)	\$50.26
800146TP-D70	22000	\$1,044,592	\$320,151	\$366	\$38	\$1,365,148	\$1,365,148	\$0.00
502013TP-4D1	150	\$2,166	\$1,077	\$1,977	\$38	\$5,258	\$2,741	\$50.26
304798TP-4EA	300	\$3,345	\$1,044	\$384	\$38	\$9,185	\$4,593	\$51.05
800186TP-A9F	750	\$16,969	\$10,817	\$2,543	\$38	\$36,207	\$18,104	\$13.25
8001708TP-54F	500	\$4,272	\$2,206	\$3,597	\$38	\$21,097	\$10,548	\$90.63
1819183TP-528	150	\$1,537	\$12,491	\$6,710	\$38	\$5,791	\$2,896	\$25.61
482021TP-8E5	150	\$4,052	\$1,882	\$1,561	\$38	\$10,455	(\$1,931)	\$50.26
100109TP-F16	100	\$3,019	\$11,616	\$5,171	\$38	\$9,942	\$4,971	\$41.54
800158TP-446	3500	\$103,871	\$630	\$3,586	\$38	\$305,801	\$152,901	\$31.47
8001315TP-CB8	1500	\$82,005	\$10,817	\$2,891	\$38	\$138,927	\$69,463	\$18.96
437074TP-48B	1000	\$31,568	\$4,185	\$2,179	\$38	\$113,532	\$56,766	\$31.38
437078TP-795	1000	\$23,694	\$4,360	\$2,525	\$38	\$91,062	\$45,531	\$20.92
4370715TP-029	500	\$8,362	\$201,210	\$683	\$38	\$33,918	\$16,959	\$37.78
800155TP-B1D	300	\$15,133	\$43,853	\$13,031	\$38	\$27,113	\$13,557	\$8.20
8001875TP-046	200	\$94	\$74,460	\$7,466	\$38	\$2,780	\$2,664	\$50.26
5678995TP-502	200	\$4,226	\$58,517	\$8,812	\$38	\$8,703	(\$6,131)	\$50.26
800133TP-562	4500	\$3,914	\$20,621	\$4,897	\$38	\$8,894	\$4,447	\$65.10
141326TP-DAF	200	\$3,882	\$7,785	\$4,157	\$38	\$12,932	\$6,466	\$16.67
800163TP-D6A	300	\$3,478	\$55	\$2,592	\$38	\$15,414	\$7,707	\$27.74
444030TP-F7D	200	\$6,228	\$1,295	\$2,447	\$38	\$12,325	\$6,163	\$21.32
549615TP-72D	150	\$2,532	\$2,471	\$1,967	\$38	\$5,629	(\$6,730)	\$50.26
800124TP-205	1000	\$38,927	\$3,803	\$1,138	\$38	\$72,427	\$36,213	\$9.97

ICP Number	Contract Capacity kVA	Transpower Charge	Subtransmission Charge	Distribution Charge	PowerNet Charge	Total Line Charge	Fixed Charge per annum	Variable Charge per Day MWh
556470TP-E14	300	\$9,432	\$6,457	\$2,555	\$38	\$18,707	\$9,353	\$10.21
556472TP-E91	150	\$1,722	\$8,754	\$3,144	\$38	\$5,111	\$2,556	\$195.30
240526TP-6BD	150	\$3,805	\$3,717	\$2,342	\$38	\$9,025	(\$8,278)	\$50.26
8001505TP-013	300	\$1,544	\$1,355	\$1,704	\$38	\$7,432	(\$1,910)	\$50.26
5290993TP-D4F	150	\$1,398	\$28,859	\$4,602	\$38	\$3,987	(\$764)	\$50.26
221318TP-720	150	\$2,307	\$6,978	\$2,258	\$38	\$5,959	\$3,232	\$50.26
8001815TP-FB6	1000	\$35,285	\$1,329	\$2,022	\$38	\$63,733	\$34,310	\$14.87
8001801TP-411	1000	\$39,354	\$1,624	\$3,557	\$38	\$70,887	\$35,443	\$11.22
800181TP-755	500	\$9,081	\$738	\$5,111	\$38	\$18,914	\$9,457	\$15.96
314914TP-C54	200	\$5,174	\$763	\$1,787	\$38	\$24,782	\$7,082	\$50.26
4004001TP-401	150	\$773	\$1,022	\$2,592	\$38	\$4,485	\$1,008	\$50.26
5672985TP-1EF	100	\$1,529	\$21,677	\$6,732	\$38	\$5,068	\$1,990	\$50.26
313732TP-2E5	200	\$4,903	\$24,762	\$6,732	\$38	\$18,034	(\$2,659)	\$50.26
362484TP-9C2	200	\$6,613	\$5,473	\$4,322	\$38	\$13,807	\$6,903	\$17.88
404955TP-F5E	100	\$1,477	\$16,680	\$2,889	\$38	\$5,127	\$425	\$50.26
405545TP-85F	150	\$3,232	\$1,699	\$1,975	\$38	\$12,997	\$6,498	\$27.08
405508TP-5A1	200	\$4,687	\$2,286	\$1,214	\$38	\$17,567	(\$1,262)	\$50.26
405350TP-9BB	150	\$3,611	\$6,406	\$2,210	\$38	\$13,515	(\$3,629)	\$50.26
800153TP-A92	500	\$2,548	\$10,698	\$2,396	\$38	\$9,716	\$4,858	\$59.85
8001305TP-615	30	\$1,338	\$4,061	\$3,094	\$38	\$4,791	(\$1,362)	\$50.26
116195TP-ECE	150	\$3,780	\$2,027	\$1,585	\$38	\$8,407	(\$8,431)	\$50.26
5791985TP-A1E	150	\$2,771	\$7,623	\$2,104	\$38	\$6,335	\$213	\$50.26
110146TP-A8C	200	\$1,646	\$10,495	\$2,347	\$38	\$6,008	\$645	\$50.26
241126TP-B1C	150	\$3,891	\$7,946	\$1,920	\$38	\$8,660	(\$1,397)	\$50.26
166724TP-C86	300	\$13,717	\$1,126	\$6,004	\$38	\$23,042	\$11,521	\$10.13
690224TP-CD4	150	\$1,215	\$1,838	\$1,578	\$38	\$3,571	\$1,785	\$12.15
250351TP-0CD	300	\$5,279	\$1,627	\$2,961	\$38	\$11,336	(\$10,483)	\$50.26
177096TP-8F2	150	\$4,219	\$1,583	\$1,943	\$38	\$8,427	\$4,213	\$18.42
800151TP-A17	100	\$626	\$1,488	\$2,836	\$38	\$3,365	\$2,093	\$50.26
181105TP-28D	150	\$2,136	\$1,870	\$2,860	\$38	\$5,906	\$4,079	\$50.26
240375TP-473	150	\$4,014	\$6,910	\$2,378	\$38	\$8,227	(\$6,964)	\$50.26
8001245TP-DB4	500	\$10,394	\$530	\$1,788	\$38	\$30,019	\$15,009	\$45.04
517704TP-375	150	\$2,746	\$2,242	\$3,777	\$38	\$6,351	(\$311)	\$50.26
637250TP-A0B	750	\$9,272	\$2,024	\$2,146	\$38	\$19,690	\$9,845	\$28.24
1819179TP-7AE	150	\$3,400	\$903	\$1,797	\$38	\$8,417	\$4,209	\$14.12
625837TP-99A	150	\$4,212	\$954	\$2,778	\$38	\$9,421	(\$1,250)	\$50.26
800114TP-5FD	500	\$11,345	\$1,895	\$2,281	\$38	\$23,122	\$11,561	\$10.41
556467TP-973	1000	\$17,832	\$15,576	\$4,010	\$38	\$35,146	\$17,573	\$13.14
800103TP-29A	300	\$2,831	\$1,581	\$1,985	\$38	\$4,754	\$2,377	\$6.51
569640TP-BA7	200	\$2,252	\$5,392	\$4,987	\$38	\$4,037	\$2,018	\$26.39
800130TP-9A2	300	\$11,891	\$1,412	\$3,568	\$38	\$19,789	\$9,895	\$8.67
568791TP-204	100	\$2,212	\$3,206	\$1,966	\$38	\$6,491	\$3,245	\$15.21

ICP Number	Contract Capacity kVA	Transpower Charge	Subtransmission Charge	Distribution Charge	PowerNet Charge	Total Line Charge	Fixed Charge per annum	Variable Charge per Day MWh
521003TP-551	75	\$1,959	\$11,130	\$609	\$38	\$5,712	\$2,856	\$13.82
564570TP-57C	50	\$666	\$13,120	\$4,156	\$38	\$2,214	\$1,107	\$15.29
5791016TP-030	50	\$935	\$1,691	\$194	\$38	\$2,854	\$1,427	\$14.47
181975TP-7DD	150	\$3,823	\$1,375	\$371	\$38	\$8,171	\$4,086	\$11.89
400440TP-B34	100	\$1,036	\$5,547	\$2,314	\$38	\$3,950	(\$1,075)	\$50.26
418284TP-E36	500	\$10,273	\$3,138	\$1,103	\$38	\$53,653	\$26,826	\$71.42
4182832TP-1BD	200	\$5,578	\$2,801	\$914	\$38	\$28,380	\$10,007	\$50.26
4182836TP-0B7	150	\$7,326	\$953	\$556	\$38	\$36,687	\$2,836	\$50.26
530906TP-856	300	\$5,298	\$1,350	\$529	\$38	\$19,760	\$3,669	\$50.26
800164TP-0A0	500	\$7,062	\$1,890	\$2,419	\$38	\$28,179	\$14,090	\$22.10
405190TP-453	150	\$1,638	\$1,484	\$1,393	\$38	\$7,505	(\$2,107)	\$50.26
180710TP-2C9	150	\$2,587	\$38,784	\$4,558	\$38	\$5,935	\$2,109	\$50.26
8001695TP-CF7	500	\$13,800	\$20,168	\$2,596	\$38	\$28,168	\$14,084	\$10.14
800147TP-135	150	\$4,156	\$26,901	\$2,421	\$38	\$7,653	\$3,827	\$10.51
800150TP-652	100	\$1,972	\$12,195	\$2,229	\$38	\$6,859	\$668	\$50.26
142817TP-7FC	150	\$2,489	\$16,615	\$4,464	\$38	\$6,858	\$2,996	\$50.26
589190TP-49A	150	\$6,369	\$3,729	\$2,100	\$38	\$11,625	\$5,812	\$39.18
116167TP-E5C	150	\$985	\$4,887	\$3,334	\$38	\$3,253	\$1,627	\$20.73
118468TP-C47	100	\$2,728	\$1,330	\$1,980	\$38	\$8,045	(\$1,285)	\$50.26
1015827TP-5C5	150	\$2,284	\$11,513	\$2,817	\$38	\$8,120	\$1,116	\$50.26
190101TP-AC6	150	\$2,507	\$1,727	\$1,731	\$38	\$6,214	\$1,423	\$50.26
800169TP-FFB	150	\$3,161	\$2,869	\$1,980	\$38	\$7,796	\$3,898	\$10.88
249945TP-521	150	\$1,207	\$2,280	\$2,051	\$38	\$6,345	\$3,173	\$19.56
364828TP-B0F	150	\$346	\$3,236	\$1,981	\$38	\$3,028	\$1,514	\$72.94
110197TP-B8B	150	\$2,814	\$394	\$1,837	\$38	\$8,127	(\$3,260)	\$50.26
426599TP-D2E	500	\$7,101	\$3,767	\$1,511	\$38	\$15,893	\$7,947	\$12.63
192544TP-A6D	300	\$13,335	\$3,384	\$2,414	\$38	\$22,542	(\$42,624)	\$50.26
192519TP-D3E	150	\$1,777	\$1,097	\$2,572	\$38	\$5,384	\$4,236	\$50.26
1186119TP-9E7	200	\$6,416	\$2,698	\$1,899	\$38	\$14,298	(\$222)	\$50.26
118615TP-C46	200	\$3,828	\$2,929	\$2,171	\$38	\$9,388	(\$5,142)	\$50.26
1186118TP-5A2	200	\$3,054	\$211	\$2,433	\$38	\$7,874	\$3,937	\$14.96
543645TP-165	200	\$2,962	\$2,626	\$2,648	\$38	\$9,445	\$7,212	\$50.26
6204408TP-3FB	750	\$18,186	\$4,420	\$4,333	\$38	\$37,032	\$18,516	\$11.78
6204407TP-C25	500	\$11,606	\$5,505	\$3,664	\$38	\$24,624	\$12,312	\$12.61
6204405TP-CA0	300	\$7,557	\$1,446	\$113	\$38	\$16,209	\$8,105	\$18.33
6204404TP-0E5	1000	\$17,948	\$1,039	\$2,529	\$38	\$36,868	\$18,434	\$16.10
204735TP-7C2	50	\$2,595	\$5,861	\$1,983	\$38	\$7,751	\$3,875	\$35.70
525441TP-DF0	150	\$2,028	\$3,539	\$1,983	\$38	\$5,579	\$4,337	\$50.26
633604TP-988	200	\$2,219	\$2,799	\$1,983	\$38	\$5,769	\$2,885	\$30.79
615269TP-92F	300	\$7,008	\$4,385	\$2,060	\$38	\$27,528	\$13,135	\$50.26
800152TP-6D7	1000	\$26,267	\$15,295	\$3,513	\$38	\$41,938	\$20,969	\$8.23
800170TP-B07	750	\$14,639	\$10,049	\$2,931	\$38	\$97,388	\$48,694	\$49.67

ICP Number	Contract Capacity kVA	Transpower Charge	Subtransmission Charge	Distribution Charge	PowerNet Charge	Total Line Charge	Fixed Charge per annum	Variable Charge per Day MWh
642956TP-513	200	\$932	\$6,397	\$2,217	\$38	\$4,014	\$2,007	\$17.72
800104TP-F50	500	\$15,637	\$14,932	\$3,950	\$38	\$28,015	\$14,007	\$9.31
8001045TP-7B3	500	\$10,249	\$2,114	\$2,217	\$38	\$19,423	\$9,712	\$9.78
5791226TP-DCF	300	\$2,847	\$2,907	\$1,945	\$38	\$7,067	(\$8,708)	\$50.26
549325TP-5D0	500	\$5,970	\$3,723	\$1,395	\$38	\$12,721	(\$12,721)	\$50.26
643847TP-B5F	500	\$4,902	\$1,566	\$1,947	\$38	\$13,205	\$6,603	\$29.11
6438485TP-221	200	\$1,276	\$1,406	\$2,106	\$38	\$4,690	\$1,368	\$50.26
6438465TP-89B	500	\$7,024	\$6,589	\$2,583	\$38	\$17,638	\$8,819	\$30.09
157641TP-7B1	150	\$2,448	\$6,674	\$2,515	\$38	\$5,901	\$2,187	\$50.26
800132TP-927	100	\$1,285	\$17,367	\$3,115	\$38	\$5,595	\$2,798	\$19.97
632751TP-46B	150	\$1,650	\$4,005	\$2,016	\$38	\$4,395	\$1,140	\$50.26
800113TP-837	100	\$1,096	\$14,611	\$1,022	\$38	\$4,149	(\$3,159)	\$50.26
579184TP-AA1	100	\$786	\$79,070	\$3,640	\$38	\$3,267	\$1,633	\$30.83
568266TP-ADC	500	\$12,181	\$914	\$2,130	\$38	\$22,773	\$11,387	\$15.00
5682737TP-04F	300	\$1,369	\$9,161	\$3,178	\$38	\$4,679	\$2,339	\$49.51
300360TP-C68	75	\$142	\$5,947	\$3,189	\$38	\$1,031	\$915	\$50.26
405769TP-C13	200	\$2,927	\$1,713	\$2,469	\$38	\$15,288	\$3,931	\$50.26
617670TP-292	750	\$9,175	\$3,357	\$3,356	\$38	\$34,953	\$17,476	\$30.96
112267TP-BDF	150	\$1,744	\$4,919	\$3,346	\$38	\$5,401	\$2,474	\$50.26
800171TP-742	1500	\$16,336	\$1,264	\$2,111	\$38	\$84,357	\$42,178	\$42.85
632798TP-DD5	100	\$1,769	\$7,229	\$3,346	\$38	\$6,599	\$3,300	\$33.58
634528TP-0A0	30	\$189	\$1,235	\$2,180	\$38	\$2,019	\$1,009	\$38.56
176643TP-F59	150	\$2,270	\$1,826	\$2,446	\$38	\$5,408	\$4,416	\$50.26
800121TP-F4A	2000	\$58,814	\$601	\$2,107	\$38	\$107,048	\$53,524	\$10.37
482074TP-DA2	200	\$1,506	\$1,657	\$1,357	\$38	\$5,728	\$2,864	\$28.52
800125TP-E40	2000	\$64,259	\$9,471	\$2,845	\$38	\$133,040	\$66,520	\$16.56
8001011TP-EB1	300	\$6,436	\$1,390	\$1,053	\$38	\$12,637	\$6,319	\$16.97
400495TP-B39	200	\$2,973	\$7,376	\$3,178	\$38	\$12,788	(\$3,914)	\$50.26
800120TP-30F	30	\$75	\$906	\$2,365	\$38	\$1,697	\$849	\$209.04
595728TP-15B	500	\$5,013	\$200	\$650	\$38	\$14,715	\$7,652	\$50.26
184621TP-6F0	50	\$1,021	\$6,392	\$5,931	\$38	\$2,890	(\$473)	\$50.26
5791154TP-B14	150	\$3,465	\$19,658	\$6,082	\$38	\$7,107	(\$5,242)	\$50.26
482070TP-CA8	300	\$5,342	\$1,596	\$2,022	\$38	\$14,515	\$5,586	\$50.26
656382TP-D30	100	\$90	\$67,549	\$433	\$38	\$2,183	\$2,067	\$50.26
800131TP-5E7	2500	\$35,557	\$2,826	\$1,966	\$38	\$65,313	\$32,656	\$15.69
520373TP-2AF	1500	\$20,974	\$283	\$1,509	\$38	\$87,009	\$43,505	\$111.75
184687TP-F60	150	\$3,136	\$41,735	\$26,019	\$38	\$6,572	(\$1,894)	\$50.26
150931TP-983	500	\$9,242	\$1,192	\$1,908	\$38	\$27,137	\$3,449	\$50.26
150925TP-224	150	\$4,700	\$42,975	\$5,221	\$38	\$14,027	(\$2,731)	\$50.26
389997TP-83A	200	\$1,148	\$1,738	\$1,793	\$38	\$6,303	(\$1,098)	\$50.26
389990TP-5F0	150	\$1,899	\$1,628	\$2,556	\$38	\$8,762	(\$1,566)	\$50.26
389999TP-BA1	300	\$1,001	\$48,288	\$20,455	\$38	\$6,587	\$3,294	\$28.64

ICP Number	Contract Capacity kVA	Transpower Charge	Subtransmission Charge	Distribution Charge	PowerNet Charge	Total Line Charge	Fixed Charge per annum	Variable Charge per Day MWh
800167TP-C60	150	\$3,846	\$3,752	\$2,411	\$38	\$14,563	(\$5,626)	\$50.26
800161TP-DEF	500	\$5,419	\$6,897	\$2,880	\$38	\$21,862	\$10,931	\$24.42
8001611TP-8B7	30	\$995	\$108	\$1,476	\$38	\$2,715	(\$1,525)	\$50.26
143131TP-38F	200	\$4,937	\$5,501	\$4,163	\$38	\$12,013	\$6,006	\$24.94
181911TP-927	75	\$3,441	\$1,290	\$540	\$38	\$10,465	\$5,232	\$22.30
235545TP-814	200	\$4,453	\$1,919	\$1,684	\$38	\$9,278	\$4,639	\$12.30
150910TP-893	500	\$825	\$6,001	\$3,134	\$38	\$6,219	\$3,109	\$22.74
150912TP-816	750	\$2,411	\$115	\$1,940	\$38	\$11,943	\$5,971	\$27.17
624649TP-8F7	500	\$706	\$29,707	\$10	\$38	\$4,988	\$2,494	\$12.97
800166TP-025	200	\$3,059	\$65,920	\$76	\$38	\$13,085	\$6,543	\$23.66
416731TP-COE	150	\$2,133	\$1,514	\$1,884	\$38	\$12,055	\$6,426	\$50.26
624606TP-58C	150	\$2,100	\$14,117	\$3,739	\$38	\$5,464	\$5,233	\$50.26
1164012TP-00A	300	\$4,984	\$7,113	\$2,176	\$38	\$9,342	\$4,671	\$15.75
424510TP-575	500	\$7,158	\$19,430	\$3,294	\$38	\$16,371	\$8,185	\$17.70
800149TP-2AE	300	\$11,604	\$3,934	\$2,202	\$38	\$20,311	\$10,155	\$9.96
8001015TP-FBB	300	\$9,891	\$2,771	\$2,346	\$38	\$17,919	\$8,960	\$10.37

10.2 Line Charge Breakdown for Group Customers

Consumer Capacity	Code	Number of Connections	TransPower Charge	Sub transmission Charge	Distribution Charge	PowerNet Overheads	Fixed Charge per Day	Variable Charge per Day MWh Sales
TPC Urban								
Domestic								
Small Domestic (8kVA 1 Phase) - All Peak	UD08P	36	\$1,814	\$2,454	\$5,013	\$1,376	\$0.55	\$57.72
Small Domestic (8kVA 1 Phase) - With Off Peak	UD08Q	377	\$15,797	\$22,085	\$38,964	\$14,414	\$0.36	\$57.72
Standard Domestic (20kVA 1 Phase) - All Peak	UD20P	993	\$125,095	\$169,235	\$312,166	\$37,966	\$0.99	\$57.72
Standard Domestic (20kVA 1 Phase) - With Off Peak	UD20Q	12455	\$1,304,698	\$1,824,083	\$3,105,156	\$476,200	\$0.69	\$57.72
10% Fixed Charge Option - All Peak	UDL20P	129	\$12,959	\$18,463	\$16,134	\$4,932	\$0.15	\$98.36
10% Fixed Charge Option - With Off Peak	UDL20Q	471	\$39,609	\$57,715	\$41,300	\$18,008	\$0.00	\$98.36
10% Fixed Charge Option (8kVA 1 Phase) - All Peak	UDL08P	0	\$0	\$0	\$0	\$0	\$0.15	\$79.50
10% Fixed Charge Option (8kVA 1 Phase) - With Off Peak	UDL08Q	0	\$0	\$0	\$0	\$0	\$0.00	\$79.50
Non-Domestic Single Phase								
Street Lights (1 Phase)	US001L	4,326	\$69,640	\$101,592	\$89,504	\$3,308	\$0.08	\$57.72
1 kVA 1 Phase - All Peak	US001P	26	\$2,943	\$4,034	\$7,432	\$994	\$0.39	\$57.72
8 kVA 1 Phase - All Peak	US008P	168	\$8,466	\$11,453	\$23,392	\$6,423	\$0.55	\$57.72
8 kVA 1 Phase - With Off Peak	US008Q	38	\$1,592	\$2,226	\$3,927	\$1,453	\$0.36	\$57.72
20 kVA 1 Phase - All Peak	US020P	373	\$46,989	\$63,570	\$117,259	\$14,261	\$0.99	\$57.72
20 kVA 1 Phase - With Off Peak	US020Q	156	\$16,341	\$22,847	\$38,892	\$5,964	\$0.67	\$57.72
Non-Domestic Three Phase								
15 kVA 3 Phase - All Peak	UT015P	43	\$4,063	\$5,847	\$10,198	\$1,644	\$0.82	\$57.72
15 kVA 3 Phase - With Off Peak	UT015Q	19	\$1,493	\$2,242	\$3,410	\$726	\$0.54	\$57.72
30 kVA 3 Phase - All Peak	UT030P	566	\$111,732	\$163,853	\$192,461	\$21,640	\$1.39	\$57.72
30 kVA 3 Phase - With Off Peak	UT030Q	121	\$19,942	\$30,275	\$31,289	\$4,626	\$0.93	\$57.72
50 kVA 3 Phase - All Peak	UT050P	263	\$126,545	\$183,340	\$237,235	\$10,055	\$2.82	\$57.72
50 kVA 3 Phase - With Off Peak	UT050Q	98	\$39,265	\$59,198	\$73,610	\$3,747	\$1.92	\$57.72
75 kVA 3 Phase - All Peak	UT075P	93	\$80,763	\$118,437	\$171,268	\$3,556	\$6.84	\$57.72
75 kVA 3 Phase - With Off Peak	UT075Q	25	\$18,125	\$27,517	\$35,351	\$956	\$4.61	\$57.72
100 kVA 3 Phase - All Peak	UT100P	7	\$10,049	\$14,737	\$24,194	\$268	\$12.67	\$57.72
100 kVA 3 Phase - With Off Peak	UT100Q	2	\$2,397	\$3,639	\$5,391	\$76	\$8.80	\$57.72
TPC Rural								
Domestic								
Small Domestic (8kVA 1 Phase) - All Peak	RD08P	50	\$2,520	\$3,409	\$8,066	\$1,912	\$0.62	\$57.72
Small Domestic (8kVA 1 Phase) - With Off Peak	RD08Q	300	\$12,570	\$17,574	\$35,576	\$11,470	\$0.42	\$57.72
Standard Domestic (20kVA 1 Phase) - All Peak	RD20P	1002	\$126,228	\$170,769	\$356,639	\$38,310	\$1.14	\$57.72
Standard Domestic (20kVA 1 Phase) - With Off Peak	RD20Q	6896	\$722,376	\$1,009,946	\$1,913,182	\$263,659	\$0.78	\$57.72

Consumer Capacity	Code	Number of Connections	TransPower Charge	Sub transmission Charge	Distribution Charge	PowerNet Overheads	Fixed Charge per Day	Variable Charge per Day MWh Sales
10% Fixed Charge Option - All Peak	RDL20P	83	\$8,338	\$11,879	\$10,381	\$3,173	\$0.15	\$98.36
10% Fixed Charge Option - With Off Peak	RDL20Q	141	\$11,857	\$17,278	\$12,364	\$5,391	\$0.05	\$98.36
10% Fixed Charge Option (8kVA 1 Phase) - All Peak	RDL08P	0	\$0	\$0	\$0	\$0	\$0.15	\$79.50
10% Fixed Charge Option (8kVA 1 Phase) - With Off Peak	RDL08Q	0	\$0	\$0	\$0	\$0	\$0.05	\$79.50
Non-Domestic Single Phase & Holiday Homes								
Street Lights (1 Phase)	RS001L	588	\$9,466	\$13,809	\$13,903	\$450	\$0.09	\$57.72
1 kVA 1 Phase - All Peak	RS001P	127	\$14,375	\$19,702	\$36,689	\$4,856	\$0.39	\$57.72
8 kVA 1 Phase - All Peak	RS008P	671	\$33,812	\$45,743	\$108,250	\$25,655	\$0.62	\$57.72
8 kVA 1 Phase - With Off Peak	RS008Q	93	\$3,897	\$5,448	\$11,029	\$3,556	\$0.42	\$57.72
20 kVA 1 Phase - All Peak	RS020P	2,112	\$266,062	\$359,944	\$751,718	\$80,749	\$1.14	\$57.72
20 kVA 1 Phase - With Off Peak	RS020Q	266	\$27,864	\$38,957	\$73,797	\$10,170	\$0.78	\$57.72
Non-Domestic Three Phase								
15 kVA 3 Phase - All Peak	RT015P	158	\$14,928	\$21,485	\$42,848	\$6,041	\$0.93	\$57.72
15 kVA 3 Phase - With Off Peak	RT015Q	22	\$1,728	\$2,596	\$4,446	\$841	\$0.63	\$57.72
30 kVA 3 Phase - All Peak	RT030P	2,453	\$484,239	\$710,127	\$976,824	\$93,787	\$1.59	\$57.72
30 kVA 3 Phase - With Off Peak	RT030Q	366	\$60,320	\$91,575	\$108,974	\$13,994	\$1.08	\$57.72
50 kVA 3 Phase - All Peak	RT050P	327	\$157,340	\$227,955	\$333,637	\$12,502	\$3.23	\$57.72
50 kVA 3 Phase - With Off Peak	RT050Q	439	\$175,892	\$265,184	\$365,165	\$16,785	\$2.21	\$57.72
75 kVA 3 Phase - All Peak	RT075P	57	\$49,500	\$72,590	\$126,882	\$2,179	\$8.21	\$57.72
75 kVA 3 Phase - With Off Peak	RT075Q	13	\$9,425	\$14,309	\$21,750	\$497	\$5.53	\$57.72
100 kVA 3 Phase - All Peak	RT100P	18	\$25,841	\$37,895	\$75,045	\$688	\$15.22	\$57.72
100 kVA 3 Phase - With Off Peak	RT100Q	1	\$1,199	\$1,820	\$3,190	\$38	\$10.56	\$57.72