

POWERNET LIMITED LINE PRICING METHODOLOGY FOR THE POWER COMPANY LIMITED NETWORK AS AT 1 APRIL 2007

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 2007 is \$256 million. The Use Charge of \$19.40 million is represented by depreciation of \$12.17 million, ownership costs of \$0.85 million and a gross return or net profit before tax of \$6.38 million, the later equating to 2.6% 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	159	102	22	43	57
396517TP-0FD	200	101	191	25	62	79
800105TP-315	10000	10815	47492	4741	11673	21311
800116TP-578	6000	2134	8048	877	2179	3524
800134TP-8A8	5000	5059	15011	1474	3446	7197
8001365TP-9E5	750	536	2340	238	632	999
800127TP-EC5	300	58	134	16	44	48
800139TP-7F3	300	182	437	65	150	202
800107TP-390	200	205	783	74	178	368
800118TP-6E3	150	150	21	4	9	13
800128TP-11B	100	100	68	10	22	45
8001281TP-B51	100	90	50	5	13	37
8001275TP-A4C	75	75	111	21	50	61
118447TP-ECC	150	135	153	18	44	110
800146TP-D70	22000	14320	62038	3269	8974	32404
502013TP-4D1	150	135	44	10	24	19
403101TP-231	50	32	81	12	26	18
382896TP-29B	200	72	26	1	1	17
304798TP-4EA	300	158	79	15	37	40
800186TP-A9F	750	748	1350	66	177	864
244381TP-3EE	50	10	67	1	1	41
8001708TP-54F	500	28	43	4	11	25
1819183TP-528	150	63	145	23	58	54
333040TP-1F2	200	119	93	7	20	53
482021TP-8E5	150	150	213	50	117	96
100109TP-F16	100	108	158	29	71	57
800158TP-446	3500	2143	4732	710	1960	1827
8001315TP-CB8	1500	1162	5062	446	1136	2442
437074TP-48B	50	10	1	1	1	1
437078TP-795	50	10	1	1	1	1
4370715TP-029	50	10	1	1	1	1
800155TP-B1D	300	316	2559	257	717	987
8001875TP-046	200	10	1	1	1	1
185015TP-7A4	200	84	43	8	22	16
5678995TP-502	200	99	332	29	115	85
800133TP-562	4500	257	79	5	14	41
141326TP-DAF	200	119	552	50	141	234
800163TP-D6A	300	193	427	49	110	199
444030TP-F7D	200	190	379	63	154	121
549615TP-72D	150	77	332	44	116	112
800124TP-205	1000	876	5184	555	1533	1849
556470TP-E14	300	288	1388	144	404	506
556472TP-E91	150	117	18	4	10	6
240526TP-6BD	150	108	370	48	118	166
8001505TP-013	300	95	266	24	65	118
5290993TP-D4F	150	71	99	20	43	38
221318TP-720	150	135	68	16	37	31
8001815TP-FB6	1000	906	3064	512	988	1193
8001801TP-411	1000	947	5366	585	1608	1962
800181TP-755	500	270	773	132	270	308
314914TP-C54	200	243	333	32	91	226
4004001TP-401	150	49	83	12	31	31
5672985TP-1EF	100	85	74	10	24	37
612680TP-5A5	100	55	147	20	51	67
141806TP-3F4	150	84	84	9	11	41
313732TP-2E5	200	214	279	25	81	181
362484TP-9C2	200	216	439	60	180	192
404955TP-F5E	100	65	103	17	45	40
405545TP-85F	150	109	224	21	66	150
405508TP-5A1	200	122	455	61	170	145

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
405350TP-9BB	150	96	352	46	110	143
800153TP-A92	500	175	172	19	65	91
8001305TP-615	30	44	83	13	32	50
116195TP-ECE	150	150	312	36	83	229
5791985TP-A1E	150	135	112	25	57	54
110146TP-A8C	200	83	117	15	40	59
241126TP-B1C	150	150	283	45	105	57
166724TP-C86	300	396	1712	188	513	656
690224TP-CD4	150	39	195	19	53	79
250351TP-0CD	300	150	580	70	189	215
177096TP-8F2	150	170	336	56	139	122
800151TP-A17	100	38	137	17	40	63
181105TP-28D	150	135	35	8	18	16
240375TP-473	150	135	301	49	114	167
8001245TP-DB4	500	598	320	32	112	203
517704TP-375	150	135	140	25	57	82
637250TP-A0B	750	194	587	7	16	350
1819179TP-7AE	150	110	292	41	116	148
625837TP-99A	150	163	221	45	104	98
800114TP-5FD	500	250	1607	163	454	620
556467TP-973	1000	429	1536	176	492	588
800103TP-29A	300	134	498	46	119	218
569640TP-BA7	200	209	117	12	33	49
800130TP-9A2	300	320	1657	211	558	659
568791TP-204	100	73	291	33	94	121
521003TP-551	75	60	288	33	90	128
564570TP-57C	50	30	101	11	33	44
5791016TP-030	50	37	129	14	41	56
181975TP-7DD	150	94	354	45	137	180
400440TP-B34	100	46	151	15	39	55
418284TP-E36	500	414	353	79	175	176
4182832TP-1BD	200	192	427	61	140	178
4182836TP-0B7	150	189	867	90	256	330
530906TP-856	300	163	424	63	157	126
800164TP-0A0	500	259	679	53	126	397
405190TP-453	150	74	219	24	58	113
319736TP-DAF	200	93	64	7	15	33
180710TP-2C9	150	150	67	12	28	39
8001695TP-CF7	500	385	1934	226	579	810
800147TP-135	150	122	511	68	174	208
800150TP-652	100	90	138	24	58	81
142817TP-7FC	150	135	94	17	40	39
589190TP-49A	150	138	193	29	81	71
116167TP-E5C	150	46	121	18	46	34
118468TP-C47	100	101	222	36	86	83
1015827TP-5C5	150	98	146	28	64	82
190101TP-AC6	150	135	125	24	56	69
800169TP-FFB	150	120	518	54	140	221
249945TP-521	150	82	215	18	48	115
364828TP-B0F	150	27	21	3	7	8
110197TP-B8B	150	125	222	24	68	130
426599TP-D2E	500	209	834	97	263	367
192544TP-A6D	300	308	1476	205	537	615
657599TP-EEF	100	45	87	14	30	24
192519TP-D3E	150	120	125	3	7	12
1186119TP-9E7	200	298	280	52	133	142
118615TP-C46	200	148	363	50	129	132
1186118TP-5A2	200	106	415	49	127	155
543645TP-165	200	190	33	3	7	17
6204408TP-3FB	750	531	2388	319	737	901
6204407TP-C25	500	472	1647	200	489	630
6204405TP-CA0	300	269	533	97	193	202
6204404TP-0E5	1000	563	1627	274	544	653

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
8001320TP-60F	300	180	201	37	77	85
620456TP-103	200	160	249	44	86	105
204735TP-7C2	50	90	146	22	63	51
525441TP-DF0	150	135	38	7	17	22
633604TP-988	200	96	180	14	40	83
3330513TP-914	150	110	62	1	1	42
333049TP-FA3	150	108	49	2	6	27
615269TP-92F	300	296	273	54	126	133
391339TP-C55	50	25	72	10	28	31
1819727TP-A3B	100	64	122	16	43	66
800152TP-6D7	1000	895	3700	262	688	1985
800170TP-B07	750	428	1529	158	405	542
182010TP-E8B	100	75	200	27	65	90
642956TP-513	200	36	146	13	41	61
800104TP-F50	500	485	2066	237	596	907
8001045TP-7B3	500	369	1422	181	410	634
5791226TP-DCF	300	94	550	46	121	152
549325TP-5D0	500	160	651	83	226	229
643847TP-B5F	500	201	342	69	145	149
6438485TP-221	200	47	79	8	24	32
6438465TP-89B	500	278	551	103	206	226
157641TP-7B1	150	135	62	10	23	38
800132TP-927	100	33	211	20	60	81
632751TP-46B	150	36	67	10	28	23
800113TP-837	100	40	139	15	42	51
331280TP-F5A	150	81	33	1	1	21
579184TP-AA1	100	47	230	12	26	28
568266TP-ADC	500	477	1415	130	365	429
5682737TP-04F	300	124	197	10	24	27
300360TP-C68	75	20	1	1	1	1
405769TP-C13	200	100	243	31	74	169
569639TP-0AB	150	80	36	6	15	21
617670TP-292	750	290	780	136	305	309
112267TP-BDF	150	89	53	10	34	12
800171TP-742	1500	627	1907	274	663	786
632798TP-DD5	100	50	66	3	9	37
634528TP-0A0	30	9	44	3	8	21
5552055TP-0DD	2000	1046	5261	591	1384	2258
176630TP-6C4	150	150	301	64	153	62
800121TP-F4A	2000	1261	6704	719	2073	2782
569934TP-OFF	150	150	96	18	40	55
482074TP-DA2	200	76	96	18	44	50
800125TP-E40	2000	1864	4304	585	1251	2226
8001011TP-EB1	300	264	533	67	190	198
400495TP-B39	200	95	396	40	108	182
800120TP-30F	30	5	10	1	2	2
595728TP-15B	500	268	106	18	36	56
184621TP-6F0	50	45	67	17	39	27
5791154TP-B14	150	135	205	35	81	124
482070TP-CA8	300	300	98	15	36	62
656382TP-D30	100	10	1	1	1	1
800131TP-5E7	2500	781	808	89	210	446
520373TP-2AF	1500	538	609	131	230	341
184687TP-F60	150	135	158	34	79	79
522002TP-BF4	150	110	250	40	100	140
150931TP-983	500	350	498	95	214	194
150925TP-224	150	150	424	62	144	145
3330508TP-D6D	300	109	48	5	15	20
405386TP-576	150	98	54	10	25	16
389997TP-83A	200	75	175	18	42	84
389990TP-5F0	150	81	253	20	48	135
389999TP-BA1	300	55	156	12	27	79
800167TP-C60	150	98	423	50	138	205

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
800161TP-DEF	500	202	763	103	223	322
8001611TP-8B7	30	37	110	16	37	36
143131TP-38F	200	228	96	11	26	59
181911TP-927	75	171	635	37	98	135
235545TP-814	200	133	445	76	168	181
6375055TP-7DC	500	300	372	18	44	180
150910TP-893	500	172	299	32	80	132
150912TP-816	750	137	392	17	46	188
624649TP-8F7	500	124	323	7	16	179
319705TP-697	150	106	63	8	16	32
141990TP-498	150	150	20	3	5	15
800166TP-025	200	157	466	42	113	224
416731TP-C0E	150	85	134	23	55	53
624606TP-58C	150	150	176	3	7	167
373002TP-847	200	100	76	11	25	51
1164012TP-00A	300	181	416	67	173	101
424510TP-575	500	253	448	75	184	236
4245295TP-206	150	62	75	17	41	27
800149TP-2AE	300	291	1468	188	495	577
8001015TP-FBB	300	269	1169	136	379	496

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	70	74	317	50	111	127
Small Domestic (8kVA 1 Phase) - With Off Peak	UD08Q	343	307	1552	184	491	612
Standard Domestic (20kVA 1 Phase) - All Peak	UD20P	1082	2850	12242	1932	4302	4924
Standard Domestic (20kVA 1 Phase) - With Off Peak	UD20Q	11774	26357	133212	15766	42133	52513
10% Fixed Charge Option - All Peak	UDL20P	226	595	1421	224	499	571
10% Fixed Charge Option - With Off Peak	UDL20Q	1059	2371	6656	788	2105	2624
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	3,143	801	2700	426	949	1086
1 kVA 1 Phase - All Peak	US001P	25	25	253	40	89	102
8 kVA 1 Phase - All Peak	US008P	158	166	715	113	251	288
8 kVA 1 Phase - With Off Peak	US008Q	28	25	127	15	40	50
20 kVA 1 Phase - All Peak	US020P	365	961	4130	652	1451	1661
20 kVA 1 Phase - With Off Peak	US020Q	140	313	1584	187	501	624
Non-Domestic Three Phase							
15 kVA 3 Phase - All Peak	UT015P	56	111	475	75	167	191
15 kVA 3 Phase - With Off Peak	UT015Q	17	29	144	17	46	57
30 kVA 3 Phase - All Peak	UT030P	566	2690	8218	1297	2888	3306
30 kVA 3 Phase - With Off Peak	UT030Q	112	452	1626	192	514	641
50 kVA 3 Phase - All Peak	UT050P	275	2914	11127	1756	3910	4476
50 kVA 3 Phase - With Off Peak	UT050Q	87	784	3520	417	1113	1388
75 kVA 3 Phase - All Peak	UT075P	94	1965	6004	947	2110	2415
75 kVA 3 Phase - With Off Peak	UT075Q	21	373	1341	159	424	529
100 kVA 3 Phase - All Peak	UT100P	12	415	1267	200	445	510
100 kVA 3 Phase - With Off Peak	UT100Q	1	29	106	12	33	42
TPC Rural							
Domestic							
Small Domestic (8kVA 1 Phase) - All Peak	RD08P	148	156	670	106	235	269
Small Domestic (8kVA 1 Phase) - With Off Peak	RD08Q	179	160	810	96	256	319
Standard Domestic (20kVA 1 Phase) - All Peak	RD20P	1047	2757	11846	1869	4163	4765
Standard Domestic (20kVA 1 Phase) - With Off Peak	RD20Q	6912	15473	78203	9256	24734	30828
10% Fixed Charge Option - All Peak	RDL20P	130	342	817	129	287	329
10% Fixed Charge Option - With Off Peak	RDL20Q	311	696	1955	231	618	771
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	517	132	444	70	156	179
1 kVA 1 Phase - All Peak	RS001P	132	132	1334	211	469	537
8 kVA 1 Phase - All Peak	RS008P	738	777	3340	527	1174	1343
8 kVA 1 Phase - With Off Peak	RS008Q	33	30	149	18	47	59
20 kVA 1 Phase - All Peak	RS020P	2,088	5499	23624	3728	8302	9503
20 kVA 1 Phase - With Off Peak	RS020Q	225	504	2546	301	805	1004
Non-Domestic Three Phase							
15 kVA 3 Phase - All Peak	RT015P	187	369	1587	250	558	638
15 kVA 3 Phase - With Off Peak	RT015Q	15	25	127	15	40	50
30 kVA 3 Phase - All Peak	RT030P	2,380	11311	34556	5453	12144	13900
30 kVA 3 Phase - With Off Peak	RT030Q	294	1188	4269	505	1350	1683
50 kVA 3 Phase - All Peak	RT050P	367	3889	14849	2343	5218	5973
50 kVA 3 Phase - With Off Peak	RT050Q	422	3801	17075	2021	5400	6731
75 kVA 3 Phase - All Peak	RT075P	49	1024	3130	494	1100	1259
75 kVA 3 Phase - With Off Peak	RT075Q	17	302	1086	129	343	428
100 kVA 3 Phase - All Peak	RT100P	24	830	2534	400	891	1019
100 kVA 3 Phase - With Off Peak	RT100Q	5	147	528	62	167	208

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 and EVA credits for each point of supply are:

		Connection	EVA Credit
(a)	Gore	\$225,158	-\$189,189
(b)	Edendale	\$542,031	-\$162,264
(c)	Invercargill	\$177,515	-\$185,762
(d)	North Makarewa	\$549,832	-\$298,778

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%

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	\$1,778,862
(b)	Edendale	\$1,282,628
(c)	Invercargill	\$1,497,596
(d)	North Makarewa	\$2,599,229
(f)	Monowai	\$253,527

The Power Company's share of the Invercargill interconnection charge of \$4,733,235 is \$1,497,596.

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%.

Total Transmission Charges

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	\$30.32	\$27.98	\$6.38
Edendale	\$51.73	\$57.89	\$13.22
Invercargill (TPCL)	\$29.83	\$23.32	\$5.29
North Makarewa	\$29.05	\$24.58	\$5.74
Monowai	\$29.05	\$24.58	\$5.74

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	\$31.98	\$27.08	\$6.22

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	\$1,773	\$443
50	10	\$5,262	\$526
75	4	\$6,688	\$1,672
100	19	\$22,426	\$1,180
150	61	\$144,847	\$2,375
200	33	\$92,531	\$2,804
300	26	\$148,581	\$5,715
500	23	\$167,834	\$7,297
750	7	\$76,816	\$10,974
1000	6	\$158,006	\$26,334
1500	3	\$103,581	\$34,527
2000	3	\$148,352	\$49,451
2500	1	\$14,944	\$14,944
3500	1	\$81,686	\$81,686
4500	1	\$3,617	\$3,617
5000	1	\$220,360	\$220,360
6000	1	\$78,795	\$78,795
10000	1	\$460,677	\$460,677
22000	1	\$1,201,267	\$1,201,267

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	70	\$58	\$4,094
Small Domestic (8kVA 1 Phase) - With Off Peak	UD08Q	343	\$49	\$16,711
Standard Domestic (20kVA 1 Phase) - All Peak	UD20P	1,082	\$146	\$158,212
Standard Domestic (20kVA 1 Phase) - With Off Peak	UD20Q	11,774	\$122	\$1,434,054
10% Fixed Charge Option - All Peak	UDL20P	226	\$119	\$26,820
10% Fixed Charge Option - With Off Peak	UDL20Q	1,059	\$99	\$105,358
10% Fixed Charge Option (8kVA 1 Phase) - All Peak	UDL08P	0	\$58	\$0
10% Fixed Charge Option (8kVA 1 Phase) - With Off Peak	UDL08Q	0	\$49	\$0
Non-Domestic Single Phase				
Street Lights (1 Phase)	US001L	3,143	\$13	\$40,430
1 kVA 1 Phase - All Peak	US001P	25	\$87	\$2,184
8 kVA 1 Phase - All Peak	US008P	158	\$58	\$9,241
8 kVA 1 Phase - With Off Peak	US008Q	28	\$49	\$1,364
20 kVA 1 Phase - All Peak	US020P	365	\$146	\$53,371
20 kVA 1 Phase - With Off Peak	US020Q	140	\$122	\$17,052
Non-Domestic Three Phase				
15 kVA 3 Phase - All Peak	UT015P	56	\$110	\$6,141
15 kVA 3 Phase - With Off Peak	UT015Q	17	\$91	\$1,553
30 kVA 3 Phase - All Peak	UT030P	566	\$232	\$131,065
30 kVA 3 Phase - With Off Peak	UT030Q	112	\$194	\$21,687
50 kVA 3 Phase - All Peak	UT050P	275	\$561	\$154,158
50 kVA 3 Phase - With Off Peak	UT050Q	87	\$468	\$40,680
75 kVA 3 Phase - All Peak	UT075P	94	\$1,019	\$95,755
75 kVA 3 Phase - With Off Peak	UT075Q	21	\$852	\$17,888
100 kVA 3 Phase - All Peak	UT100P	12	\$1,684	\$20,208
100 kVA 3 Phase - With Off Peak	UT100Q	1	\$1,408	\$1,408
TPC Rural				
Domestic				
Small Domestic (8kVA 1 Phase) - All Peak	RD08P	148	\$58	\$8,656
Small Domestic (8kVA 1 Phase) - With Off Peak	RD08Q	179	\$49	\$8,721
Standard Domestic (20kVA 1 Phase) - All Peak	RD20P	1,047	\$146	\$153,095
Standard Domestic (20kVA 1 Phase) - With Off Peak	RD20Q	6,912	\$122	\$841,870
10% Fixed Charge Option - All Peak	RDL20P	130	\$119	\$15,428
10% Fixed Charge Option - With Off Peak	RDL20Q	311	\$99	\$30,941
10% Fixed Charge Option (8kVA 1 Phase) - All Peak	RDL08P	0	\$58	\$0
10% Fixed Charge Option (8kVA 1 Phase) - With Off Peak	RDL08Q	0	\$49	\$0
Non-Domestic Single Phase				
Street Lights (1 Phase)	RS001L	517	\$13	\$6,650
1 kVA 1 Phase - All Peak	RS001P	132	\$87	\$11,532
8 kVA 1 Phase - All Peak	RS008P	738	\$58	\$43,165
8 kVA 1 Phase - With Off Peak	RS008Q	33	\$49	\$1,608
20 kVA 1 Phase - All Peak	RS020P	2,088	\$146	\$305,312
20 kVA 1 Phase - With Off Peak	RS020Q	225	\$122	\$27,405
Non-Domestic Three Phase				
15 kVA 3 Phase - All Peak	RT015P	187	\$110	\$20,508
15 kVA 3 Phase - With Off Peak	RT015Q	15	\$91	\$1,370
30 kVA 3 Phase - All Peak	RT030P	2,380	\$232	\$551,120
30 kVA 3 Phase - With Off Peak	RT030Q	294	\$194	\$56,928
50 kVA 3 Phase - All Peak	RT050P	367	\$561	\$205,731
50 kVA 3 Phase - With Off Peak	RT050Q	422	\$468	\$197,319
75 kVA 3 Phase - All Peak	RT075P	49	\$1,019	\$49,915
75 kVA 3 Phase - With Off Peak	RT075Q	17	\$852	\$14,481
100 kVA 3 Phase - All Peak	RT100P	24	\$1,684	\$40,416
100 kVA 3 Phase - With Off Peak	RT100Q	5	\$1,408	\$7,041

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 \$9,584,756.

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 \$1,535,652.

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	\$113,455	\$18,214
Bluff	\$384,373	\$61,707
Centre Bush	\$218,821	\$35,129
Conical Hills	\$367,909	\$59,063
Dipton	\$115,204	\$18,495
Edendale	\$229,113	\$36,781
Glenham	\$132,459	\$21,265
Gorge Road	\$134,551	\$21,601
Hillside	\$326,524	\$52,420
Kelso	\$312,627	\$50,189
Kennington	\$124,175	\$19,935
Lumsden	\$441,043	\$70,804
Makarewa	\$232,553	\$37,334
Mataura	\$297,614	\$47,778
Monowai	\$75,262	\$12,082
Mossburn	\$391,621	\$62,870
NZMP	\$270,993	\$39,515
North Gore	\$215,870	\$34,655
Ohai	\$393,835	\$63,226
Orawia	\$479,375	\$76,958
Otatara	\$192,623	\$30,923
Otautau	\$507,317	\$81,444
Riversdale	\$398,587	\$63,988
Riverton	\$466,266	\$74,854
Seaward Bush	\$298,351	\$47,897
South Gore	\$183,613	\$29,477
Te Anau	\$808,687	\$129,825
Tokanui	\$217,033	\$34,842
Underwood	\$529,252	\$84,965
Waikiwi	\$284,843	\$45,728
Winton	\$432,429	\$69,421
ICC46	\$8,380	\$2,268

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	\$64.65	\$222.46	\$108.05	\$8.00	\$15.99	\$7.41
Bluff	\$57.44	\$25.44	\$7.82	\$0.97	\$1.94	\$6.59
Centre Bush	\$63.81	\$37.57	\$12.48	\$1.52	\$3.04	\$7.32
Conical Hills	\$56.48	\$37.30	\$12.54	\$1.58	\$3.15	\$6.48
Dipton	\$126.80	\$74.06	\$23.71	\$2.85	\$5.71	\$14.54
Edendale	\$29.11	\$16.97	\$5.64	\$0.53	\$1.05	\$3.34
Glenham	\$72.57	\$50.04	\$16.83	\$2.35	\$4.69	\$8.32
Gorge Road	\$63.24	\$39.09	\$13.04	\$1.58	\$3.17	\$7.25
Hillside	\$299.71	\$161.68	\$52.78	\$7.21	\$14.43	\$34.37
Kelso	\$58.08	\$27.22	\$9.19	\$1.18	\$2.35	\$6.66
Kennington	\$25.40	\$12.59	\$5.20	\$0.42	\$0.84	\$2.91
Lumsden	\$112.46	\$55.01	\$17.91	\$2.30	\$4.60	\$12.90
Makarewa	\$33.13	\$17.07	\$5.68	\$0.53	\$1.06	\$3.80
Mataura	\$26.75	\$20.46	\$6.99	\$0.48	\$0.97	\$3.07
Monowai	\$256.91	\$129.45	\$41.87	\$5.67	\$11.34	\$29.46
Mossburn	\$177.97	\$107.55	\$35.62	\$3.99	\$7.98	\$20.41
NZMP	\$14.34	\$12.34	\$5.15	\$0.16	\$0.32	\$1.49
North Gore	\$20.68	\$8.18	\$2.70	\$0.35	\$0.69	\$2.37
Ohai	\$145.21	\$61.53	\$20.22	\$2.42	\$4.84	\$16.65
Orawia	\$132.45	\$65.14	\$22.06	\$2.69	\$5.37	\$15.19
Otatara	\$42.10	\$18.62	\$6.48	\$1.00	\$1.99	\$4.83
Otautau	\$82.52	\$40.32	\$13.85	\$1.88	\$3.77	\$9.46
Riversdale	\$76.67	\$40.26	\$13.27	\$1.64	\$3.28	\$8.79
Riverton	\$80.12	\$32.75	\$10.86	\$1.45	\$2.89	\$9.19
Seaward Bush	\$24.85	\$9.91	\$3.16	\$0.31	\$0.63	\$2.85
South Gore	\$15.97	\$7.43	\$2.45	\$0.28	\$0.56	\$1.83
Te Anau	\$111.08	\$46.84	\$15.12	\$1.79	\$3.59	\$12.74
Tokanui	\$175.32	\$112.59	\$34.51	\$5.05	\$10.11	\$20.10
Underwood	\$20.92	\$20.80	\$6.93	\$0.41	\$0.82	\$2.40
Waikiwi	\$19.02	\$7.33	\$2.49	\$0.32	\$0.63	\$2.18
Waikaka	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Winton	\$30.07	\$13.74	\$4.45	\$0.50	\$1.00	\$3.45

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	\$51.54	\$27.57	\$9.25	\$0.98	\$1.97	\$5.58

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) Mataura
- (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 \$16,652,595.

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 supply and maintenance transformer charges for TPCL total \$5,201,240.

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

Number of transformers and transformer capacity	100%.
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4.4 Locational Individual Distribution Charges

(a)	Distribution Supply charge	\$2.27 per kVA km Urban
(b)	Distribution Supply charge	\$0.50 per kVA km Rural
(c)	Distribution Transformer charge	\$351 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 \$351 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	\$12.50 per kVA Contract Capacity
(b)	Distribution Supply charge	\$23.50 per Winter Peak MWh
(c)	Distribution Supply charge	\$7.64 per Winter Day MWh
(d)	Distribution Maintenance charge	\$0.56 per Domestic Total MWh
(e)	Distribution Maintenance charge	\$1.12 per Commercial Total MWh
(f)	Distribution Maintenance charge	\$0.79 per kVA Contract Capacity
(g)	Distribution Transformer charge	\$16.17 per kVA AD Transformer capacity

TPC Rural

(a)	Distribution Supply charge	\$72.40 per kVA Contract Capacity
(b)	Distribution Supply charge	\$95.77 per Winter Peak MWh
(c)	Distribution Supply charge	\$33.57 per Winter Day MWh
(d)	Distribution Maintenance charge	\$4.14 per Domestic Total MWh
(e)	Distribution Maintenance charge	\$8.27 per Commercial Total MWh
(f)	Distribution Maintenance charge	\$9.09 per kVA Contract Capacity
(g)	Distribution Transformer charge	\$16.17 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	Subtransmission Charge	Distribution Charge	PowerNet Overhead Charge	Total PowerNet Charge
30	\$3,218	\$5,365	\$153	\$8,735
50	\$9,676	\$7,389	\$382	\$17,448
75	\$13,313	\$4,456	\$153	\$17,922
100	\$42,102	\$34,585	\$726	\$77,413
150	\$206,066	\$144,686	\$2,332	\$353,084
200	\$194,180	\$86,992	\$1,262	\$282,434
300	\$151,591	\$77,630	\$994	\$230,216
500	\$235,306	\$92,128	\$879	\$328,313
750	\$164,454	\$31,733	\$268	\$196,455
1000	\$135,074	\$28,798	\$229	\$164,101
1500	\$202,364	\$14,042	\$115	\$216,521
2000	\$119,276	\$52,197	\$115	\$171,588
2500	\$14,624	\$10	\$38	\$14,672
3500	\$170,722	\$683	\$38	\$171,443
4500	\$3,628	\$1,138	\$38	\$4,804
5000	\$224,592	\$1,896	\$38	\$226,527
6000	\$96,109	\$1,242	\$38	\$97,389
10000	\$442,288	\$3,134	\$38	\$445,460
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	UD08P	70	\$6,475	\$14,397	\$2,644	\$23,517
Small Domestic (8kVA 1 Phase) - With Off Peak	UD08Q	343	\$27,000	\$49,841	\$12,958	\$89,799
Standard Domestic (20kVA 1 Phase) - All Peak	UD20P	1082	\$250,207	\$456,597	\$40,876	\$747,680
Standard Domestic (20kVA 1 Phase) - With Off Peak	UD20Q	11774	\$2,317,043	\$3,989,447	\$444,796	\$6,751,287
10% Fixed Charge Option - All Peak	UDL20P	226	\$44,116	\$31,486	\$8,538	\$84,139
10% Fixed Charge Option - With Off Peak	UDL20Q	1059	\$175,849	\$114,206	\$40,007	\$330,062
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	3,143	\$67,719	\$95,187	\$2,375	\$165,281
1 kVA 1 Phase - All Peak	US001P	25	\$3,486	\$7,298	\$944	\$11,729
8 kVA 1 Phase - All Peak	US008P	158	\$14,615	\$32,497	\$5,969	\$53,081
8 kVA 1 Phase - With Off Peak	US008Q	28	\$2,204	\$4,069	\$1,058	\$7,331
20 kVA 1 Phase - All Peak	US020P	365	\$84,405	\$154,028	\$13,789	\$252,221
20 kVA 1 Phase - With Off Peak	US020Q	140	\$27,551	\$47,437	\$5,289	\$80,277
Non-Domestic Three Phase						
15 kVA 3 Phase - All Peak	UT015P	56	\$10,182	\$18,403	\$2,116	\$30,701
15 kVA 3 Phase - With Off Peak	UT015Q	17	\$2,652	\$4,165	\$642	\$7,459
30 kVA 3 Phase - All Peak	UT030P	566	\$220,393	\$261,636	\$21,382	\$503,412
30 kVA 3 Phase - With Off Peak	UT030Q	112	\$37,345	\$38,616	\$4,231	\$80,192
50 kVA 3 Phase - All Peak	UT050P	275	\$256,875	\$325,471	\$10,389	\$592,735
50 kVA 3 Phase - With Off Peak	UT050Q	87	\$69,671	\$84,259	\$3,287	\$157,217
75 kVA 3 Phase - All Peak	UT075P	94	\$161,018	\$229,575	\$3,551	\$394,144
75 kVA 3 Phase - With Off Peak	UT075Q	21	\$30,803	\$38,759	\$793	\$70,356
100 kVA 3 Phase - All Peak	UT100P	12	\$33,981	\$55,065	\$453	\$89,499
100 kVA 3 Phase - With Off Peak	UT100Q	1	\$2,425	\$3,532	\$38	\$5,994
TPC Rural						
Domestic						
Small Domestic (8kVA 1 Phase) - All Peak	RD08P	148	\$3,409	\$10,914	\$1,912	\$16,234
Small Domestic (8kVA 1 Phase) - With Off Peak	RD08Q	179	\$17,574	\$46,526	\$11,470	\$75,571
Standard Domestic (20kVA 1 Phase) - All Peak	RD20P	1047	\$170,769	\$454,307	\$38,310	\$663,386
Standard Domestic (20kVA 1 Phase) - With Off Peak	RD20Q	6912	\$1,009,946	\$2,389,599	\$263,659	\$3,663,204
10% Fixed Charge Option - All Peak	RDL20P	130	\$11,879	\$10,381	\$3,173	\$25,433
10% Fixed Charge Option - With Off Peak	RDL20Q	311	\$17,278	\$14,937	\$5,391	\$37,606
10% Fixed Charge Option (8kVA 1 Phase) - All Peak	RDL08P	0	\$0	\$0	\$0	\$0

Consumer Capacity	Code	Number of Connections	Sub transmission Charge	Distribution Charge	PowerNet Overheads	Total PowerNet Revenue
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	517	\$13,809	\$19,901	\$450	\$34,159
1 kVA 1 Phase - All Peak	RS001P	132	\$19,702	\$40,915	\$4,856	\$65,473
8 kVA 1 Phase - All Peak	RS008P	738	\$45,743	\$146,466	\$25,655	\$217,863
8 kVA 1 Phase - With Off Peak	RS008Q	33	\$5,448	\$14,423	\$3,556	\$23,427
20 kVA 1 Phase - All Peak	RS020P	2,088	\$359,944	\$957,581	\$80,749	\$1,398,275
20 kVA 1 Phase - With Off Peak	RS020Q	225	\$38,957	\$92,174	\$10,170	\$141,301
Non-Domestic Three Phase						
15 kVA 3 Phase - All Peak	RT015P	187	\$21,485	\$55,254	\$6,041	\$82,780
15 kVA 3 Phase - With Off Peak	RT015Q	15	\$2,596	\$5,689	\$841	\$9,126
30 kVA 3 Phase - All Peak	RT030P	2,380	\$710,127	\$1,306,284	\$93,787	\$2,110,198
30 kVA 3 Phase - With Off Peak	RT030Q	294	\$91,575	\$143,372	\$13,994	\$248,940
50 kVA 3 Phase - All Peak	RT050P	367	\$227,955	\$422,670	\$12,502	\$663,127
50 kVA 3 Phase - With Off Peak	RT050Q	422	\$265,184	\$447,718	\$16,785	\$729,687
75 kVA 3 Phase - All Peak	RT075P	49	\$72,590	\$166,225	\$2,179	\$240,994
75 kVA 3 Phase - With Off Peak	RT075Q	17	\$14,309	\$27,788	\$497	\$42,594
100 kVA 3 Phase - All Peak	RT100P	24	\$37,895	\$98,052	\$688	\$136,635
100 kVA 3 Phase - With Off Peak	RT100Q	5	\$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 \$61.13 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 \$61.13. This method of calculating the fixed charge accounts for the fact that some installations have negative fixed charges.

The Variable Charge of \$61.13 per MWh of daytime sales equates to \$53.23 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	\$10,509	\$2,627
50	10	\$22,710	\$2,271
75	4	\$24,610	\$6,152
100	19	\$99,839	\$5,255
150	61	\$497,931	\$8,163
200	33	\$374,965	\$11,363
300	26	\$378,796	\$14,569
500	23	\$496,147	\$21,572
750	7	\$273,271	\$39,039
1000	6	\$322,107	\$53,685
1500	3	\$320,103	\$106,701
2000	3	\$345,068	\$115,023
2500	1	\$29,616	\$29,616
3500	1	\$253,129	\$253,129
4500	1	\$8,422	\$8,422
5000	1	\$446,887	\$446,887
6000	1	\$176,184	\$176,184
10000	1	\$906,137	\$906,137
22000	1	\$1,521,823	\$1,521,823

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	Line Charge Revenue per Consumer Group
TPC Urban					
Domestic					
Small Domestic (8kVA 1 Phase) - All Peak	UD08P	70	\$0.5825	\$53.23	\$27,592
Small Domestic (8kVA 1 Phase) - With Off Peak	UD08Q	343	\$0.3812	\$53.23	\$106,431
Standard Domestic (20kVA 1 Phase) - All Peak	UD20P	1,082	\$1.0484	\$53.23	\$905,167
Standard Domestic (20kVA 1 Phase) - With Off Peak	UD20Q	11,774	\$0.7308	\$53.23	\$8,178,626
10% Fixed Charge Option - All Peak	UDL20P	226	\$0.1500	\$73.42	\$110,808
10% Fixed Charge Option - With Off Peak	UDL20Q	1,059	\$-	\$73.42	\$434,817
10% Fixed Charge Option (8kVA 1 Phase) - All Peak	UDL08P	0	\$0.1500	\$91.94	\$0
10% Fixed Charge Option (8kVA 1 Phase) - With Off Peak	UDL08Q	0	\$-	\$91.94	\$0
Non-Domestic Single Phase					
Street Lights (1 Phase)	US001L	3,143	\$0.0847	\$53.23	\$205,507
1 kVA 1 Phase - All Peak	US001P	25	\$0.4130	\$53.23	\$13,907
8 kVA 1 Phase - All Peak	US008P	158	\$0.5825	\$53.23	\$62,279
8 kVA 1 Phase - With Off Peak	US008Q	28	\$0.3812	\$53.23	\$8,688
20 kVA 1 Phase - All Peak	US020P	365	\$1.0484	\$53.23	\$305,347
20 kVA 1 Phase - With Off Peak	US020Q	140	\$0.7095	\$53.23	\$97,249
Non-Domestic Three Phase					
15 kVA 3 Phase - All Peak	UT015P	56	\$0.8684	\$53.23	\$36,813.99
15 kVA 3 Phase - With Off Peak	UT015Q	17	\$0.5719	\$53.23	\$9,004.27
30 kVA 3 Phase - All Peak	UT030P	566	\$1.4720	\$53.23	\$633,791.60
30 kVA 3 Phase - With Off Peak	UT030Q	112	\$0.9849	\$53.23	\$101,763.57
50 kVA 3 Phase - All Peak	UT050P	275	\$2.9864	\$53.23	\$746,150.68
50 kVA 3 Phase - With Off Peak	UT050Q	87	\$2.0333	\$53.23	\$197,696.88
75 kVA 3 Phase - All Peak	UT075P	94	\$7.2436	\$53.23	\$489,398.67
75 kVA 3 Phase - With Off Peak	UT075Q	21	\$4.8820	\$53.23	\$88,148.54
100 kVA 3 Phase - All Peak	UT100P	12	\$13.4175	\$53.23	\$109,601.01
100 kVA 3 Phase - With Off Peak	UT100Q	1	\$9.3192	\$53.23	\$7,394.80
TPC Rural					
Domestic					
Small Domestic (8kVA 1 Phase) - All Peak	RD08P	148	\$0.6566	\$53.23	\$62,340.54
Small Domestic (8kVA 1 Phase) - With Off Peak	RD08Q	179	\$0.4448	\$53.23	\$59,698.10
Standard Domestic (20kVA 1 Phase) - All Peak	UD20P	1,047	\$1.2073	\$53.23	\$936,611.30
Standard Domestic (20kVA 1 Phase) - With Off Peak	UD20Q	6,912	\$0.8260	\$53.23	\$5,041,491.22
10% Fixed Charge Option - All Peak	RDL20P	130	\$0.1500	\$73.42	\$63,738.97
10% Fixed Charge Option - With Off Peak	RDL20Q	311	\$0.0500	\$73.42	\$133,369.75
10% Fixed Charge Option (8kVA 1 Phase) - All Peak	UDL08P	0	\$0.1500	\$91.94	\$0.00
10% Fixed Charge Option (8kVA 1 Phase) - With Off Peak	UDL08Q	0	\$0.0500	\$91.94	\$0.00
Non-Domestic Single Phase					
Street Lights (1 Phase)	RS001L	517	\$0.0953	\$53.23	\$35,804.56
1 kVA 1 Phase - All Peak	RS001P	132	\$0.4130	\$53.23	\$73,428.18
8 kVA 1 Phase - All Peak	RS008P	738	\$0.6566	\$53.23	\$310,860.26
8 kVA 1 Phase - With Off Peak	RS008Q	33	\$0.4448	\$53.23	\$11,005.80
20 kVA 1 Phase - All Peak	RS020P	2,088	\$1.2073	\$53.23	\$1,867,855.20
20 kVA 1 Phase - With Off Peak	RS020Q	225	\$0.8260	\$53.23	\$164,111.04
Non-Domestic Three Phase					
15 kVA 3 Phase - All Peak	RT015P	187	\$0.9849	\$53.23	\$130,884.13
15 kVA 3 Phase - With Off Peak	RT015Q	15	\$0.6672	\$53.23	\$8,466.71
30 kVA 3 Phase - All Peak	RT030P	2,380	\$1.6838	\$53.23	\$2,849,050.75
30 kVA 3 Phase - With Off Peak	RT030Q	294	\$1.1437	\$53.23	\$284,170.20
50 kVA 3 Phase - All Peak	RT050P	367	\$3.4206	\$53.23	\$1,053,935.26
50 kVA 3 Phase - With Off Peak	RT050Q	422	\$2.3404	\$53.23	\$1,006,246.11
75 kVA 3 Phase - All Peak	RT075P	49	\$8.6944	\$53.23	\$281,059.63
75 kVA 3 Phase - With Off Peak	RT075Q	17	\$5.8563	\$53.23	\$77,403.87
100 kVA 3 Phase - All Peak	RT100P	24	\$16.1180	\$53.23	\$242,858.40
100 kVA 3 Phase - With Off Peak	RT100Q	5	\$11.1830	\$53.23	\$40,375.45

10. LINE CHARGE TABLES

10.1 Line Charge Breakdown for Individual Customers

ICP Number	Contract Capacity kVA	Trans Power Charge	Subtransmission Charge	Distribution Charge	PowerNet Charge	Total Line Charge	Fixed Charge per annum	Variable Charge per Day MWh
396516TP-CB8	300	\$2,682	\$12,800	\$3,359	\$38	\$18,878	\$12,762	\$53.23
396517TP-0FD	200	\$1,902	\$8,910	\$2,737	\$38	\$13,587	\$4,959	\$53.23
800105TP-315	10000	\$460,677	\$442,288	\$3,134	\$38	\$906,137	\$453,068	\$13.74
800116TP-578	6000	\$78,795	\$96,109	\$1,242	\$38	\$176,184	\$88,092	\$15.45
800134TP-8A8	5000	\$220,360	\$224,592	\$1,896	\$38	\$446,887	\$223,444	\$20.99
8001365TP-9E5	750	\$17,730	\$18,581	\$243	\$38	\$36,592	\$18,296	\$11.22
800127TP-EC5	300	\$966	\$1,889	\$2,555	\$38	\$5,448	\$2,724	\$29.51
800139TP-7F3	300	\$4,833	\$4,839	\$2,401	\$38	\$12,111	\$6,056	\$17.20
800107TP-390	200	\$5,050	\$5,188	\$2,566	\$38	\$12,843	\$6,421	\$11.77
800118TP-6E3	150	\$1,919	\$2,450	\$2,134	\$38	\$6,542	\$5,246	\$53.23
800128TP-11B	100	\$1,433	\$2,755	\$2,114	\$38	\$6,341	\$2,262	\$53.23
8001281TP-B51	100	\$1,085	\$2,143	\$2,088	\$38	\$5,354	\$2,321	\$53.23
8001275TP-A4C	75	\$1,463	\$2,602	\$1,652	\$38	\$5,754	(\$1,041)	\$53.23
118447TP-ECC	150	\$2,492	\$2,516	\$2,026	\$38	\$7,071	(\$2,283)	\$53.23
800146TP-D70	22000	\$1,201,267	\$320,151	\$366	\$38	\$1,521,823	\$0	\$0.00
502013TP-4D1	150	\$1,960	\$1,136	\$2,119	\$38	\$5,253	\$2,607	\$53.23
403101TP-231	50	\$571	\$1,024	\$384	\$38	\$2,017	\$2,017	\$0.00
382896TP-29B	200	\$618	\$2,803	\$2,684	\$38	\$6,144	\$6,144	\$0.00
304798TP-4EA	300	\$2,436	\$2,657	\$3,763	\$38	\$8,894	\$4,447	\$57.26
800186TP-A9F	750	\$13,831	\$16,444	\$6,993	\$38	\$37,305	\$18,653	\$17.92
244381TP-3EE	50	\$67	\$268	\$1,703	\$38	\$2,076	\$2,076	\$0.00
8001708TP-54F	500	\$333	\$880	\$5,403	\$38	\$6,655	\$4,468	\$53.23
1819183TP-528	150	\$1,446	\$807	\$3,692	\$38	\$5,983	\$2,991	\$26.69
333040TP-1F2	200	\$1,665	\$7,310	\$3,032	\$38	\$12,045	\$12,045	\$0.00
482021TP-8E5	150	\$3,614	\$5,119	\$2,321	\$38	\$11,092	(\$2,026)	\$53.23
100109TP-F16	100	\$2,268	\$4,143	\$2,596	\$38	\$9,046	\$4,523	\$35.52
800158TP-446	3500	\$81,686	\$170,722	\$683	\$38	\$253,129	\$126,564	\$33.42
8001315TP-CB8	1500	\$73,623	\$41,548	\$13,533	\$38	\$128,742	\$64,371	\$17.99
437074TP-48B	50	\$67	\$113	\$670	\$38	\$888	\$444	\$222.05
437078TP-795	50	\$67	\$113	\$766	\$38	\$984	\$492	\$246.10
4370715TP-029	50	\$67	\$113	\$700	\$38	\$918	\$459	\$229.48
800155TP-B1D	300	\$15,559	\$7,572	\$4,323	\$38	\$27,492	\$13,746	\$8.06
8001875TP-046	200	\$71	\$66	\$2,734	\$38	\$2,910	\$2,787	\$53.23
185015TP-7A4	200	\$1,172	\$618	\$2,588	\$38	\$4,416	\$2,208	\$57.91
5678995TP-502	200	\$2,121	\$1,360	\$2,109	\$38	\$5,628	\$2,814	\$14.04

ICP Number	Contract Capacity kVA	Trans Power Charge	Subtransmission Charge	Distribution Charge	PowerNet Charge	Total Line Charge	Fixed Charge per annum	Variable Charge per Day MWh
800133TP-562	4500	\$3,617	\$3,628	\$1,138	\$38	\$8,422	\$4,211	\$76.71
141326TP-DAF	200	\$3,860	\$7,367	\$2,697	\$38	\$13,962	\$6,981	\$18.62
800163TP-D6A	300	\$4,032	\$15,428	\$3,310	\$38	\$22,809	\$11,404	\$36.93
444030TP-F7D	200	\$4,568	\$4,552	\$2,484	\$38	\$11,642	\$5,821	\$21.19
549615TP-72D	150	\$2,261	\$1,282	\$1,810	\$38	\$5,391	(\$8,605)	\$53.23
800124TP-205	1000	\$33,964	\$26,805	\$4,922	\$38	\$65,730	\$32,865	\$9.72
556470TP-E14	300	\$8,881	\$7,035	\$2,424	\$38	\$18,377	\$9,189	\$10.10
556472TP-E91	150	\$1,509	\$1,412	\$2,163	\$38	\$5,122	\$2,561	\$163.05
240526TP-6BD	150	\$3,430	\$1,988	\$3,663	\$38	\$9,120	(\$8,238)	\$53.23
8001505TP-013	300	\$1,990	\$1,251	\$5,277	\$38	\$8,556	(\$2,597)	\$53.23
5290993TP-D4F	150	\$1,284	\$754	\$1,893	\$38	\$3,969	(\$1,008)	\$53.23
221318TP-720	150	\$2,385	\$1,575	\$2,699	\$38	\$6,697	\$2,516	\$53.23
8001815TP-FB6	1000	\$31,360	\$30,797	\$7,053	\$38	\$69,248	\$37,067	\$15.87
8001801TP-411	1000	\$37,800	\$38,276	\$7,053	\$38	\$83,167	\$41,584	\$11.65
800181TP-755	500	\$7,827	\$7,572	\$4,554	\$38	\$19,991	\$9,995	\$17.31
314914TP-C54	200	\$4,360	\$21,811	\$3,031	\$38	\$29,240	\$9,983	\$53.23
4004001TP-401	150	\$751	\$2,543	\$2,081	\$38	\$5,413	\$1,609	\$53.23
5672985TP-1EF	100	\$1,186	\$2,269	\$1,285	\$38	\$4,777	\$1,053	\$53.23
612680TP-5A5	100	\$1,116	\$2,045	\$2,902	\$38	\$6,101	\$3,050	\$25.76
141806TP-3F4	150	\$1,133	\$3,111	\$2,352	\$38	\$6,634	\$6,634	\$0.00
313732TP-2E5	200	\$3,742	\$9,551	\$2,537	\$38	\$15,869	(\$64)	\$53.23
362484TP-9C2	200	\$5,260	\$5,309	\$3,236	\$38	\$13,843	\$6,922	\$18.61
404955TP-F5E	100	\$1,200	\$2,158	\$1,655	\$38	\$5,052	(\$171)	\$53.23
405545TP-85F	150	\$2,072	\$8,068	\$2,210	\$38	\$12,389	\$6,194	\$28.68
405508TP-5A1	200	\$3,989	\$13,661	\$2,489	\$38	\$20,176	\$811	\$53.23
405350TP-9BB	150	\$2,629	\$8,912	\$2,027	\$38	\$13,606	(\$1,871)	\$53.23
800153TP-A92	500	\$3,138	\$2,147	\$6,236	\$38	\$11,558	\$5,779	\$37.10
8001305TP-615	30	\$781	\$1,395	\$1,719	\$38	\$3,934	(\$1,072)	\$53.23
116195TP-ECE	150	\$3,457	\$2,212	\$3,103	\$38	\$8,810	(\$10,125)	\$53.23
5791985TP-A1E	150	\$2,494	\$1,592	\$2,049	\$38	\$6,173	(\$642)	\$53.23
110146TP-A8C	200	\$1,501	\$1,518	\$2,977	\$38	\$6,034	(\$13)	\$53.23
241126TP-B1C	150	\$3,860	\$1,889	\$2,966	\$38	\$8,754	(\$1,257)	\$53.23
166724TP-C86	300	\$13,584	\$6,779	\$2,544	\$38	\$22,945	\$11,472	\$9.82
690224TP-CD4	150	\$1,043	\$596	\$1,895	\$38	\$3,572	\$1,786	\$13.63
250351TP-0CD	300	\$5,164	\$3,007	\$3,943	\$38	\$12,152	(\$12,601)	\$53.23
177096TP-8F2	150	\$4,441	\$2,170	\$2,252	\$38	\$8,902	\$4,451	\$17.04
800151TP-A17	100	\$873	\$1,601	\$1,868	\$38	\$4,380	(\$1,907)	\$53.23
181105TP-28D	150	\$2,032	\$1,431	\$2,884	\$38	\$6,386	\$4,296	\$53.23
240375TP-473	150	\$3,832	\$1,836	\$2,387	\$38	\$8,093	(\$9,074)	\$53.23
8001245TP-DB4	500	\$9,855	\$21,599	\$4,242	\$38	\$35,734	\$17,867	\$56.76

ICP Number	Contract Capacity kVA	Trans Power Charge	Subtransmission Charge	Distribution Charge	PowerNet Charge	Total Line Charge	Fixed Charge per annum	Variable Charge per Day MWh
517704TP-375	150	\$2,494	\$1,613	\$2,091	\$38	\$6,236	(\$2,257)	\$53.23
637250TP-A0B	750	\$4,709	\$3,515	\$5,270	\$38	\$13,531	\$6,766	\$18.52
1819179TP-7AE	150	\$3,142	\$1,861	\$3,674	\$38	\$8,716	\$4,358	\$16.47
625837TP-99A	150	\$3,677	\$3,457	\$2,107	\$38	\$9,279	(\$3,125)	\$53.23
800114TP-5FD	500	\$9,373	\$10,883	\$609	\$38	\$20,903	\$10,451	\$9.73
556467TP-973	1000	\$12,151	\$9,757	\$4,477	\$38	\$26,423	\$13,211	\$12.23
800103TP-29A	300	\$3,175	\$2,098	\$194	\$38	\$5,505	\$2,752	\$8.17
569640TP-BA7	200	\$2,977	\$2,139	\$371	\$38	\$5,526	\$2,763	\$33.75
800130TP-9A2	300	\$11,137	\$5,987	\$2,480	\$38	\$19,642	\$9,821	\$8.07
568791TP-204	100	\$1,787	\$3,364	\$1,174	\$38	\$6,363	\$3,182	\$14.79
521003TP-551	75	\$1,676	\$3,140	\$967	\$38	\$5,821	\$2,911	\$13.34
564570TP-57C	50	\$564	\$1,055	\$592	\$38	\$2,249	\$1,125	\$14.56
5791016TP-030	50	\$753	\$1,422	\$565	\$38	\$2,778	\$1,389	\$14.35
181975TP-7DD	150	\$3,022	\$1,434	\$2,526	\$38	\$7,020	\$3,510	\$11.04
400440TP-B34	100	\$853	\$1,642	\$1,463	\$38	\$3,997	(\$1,748)	\$53.23
418284TP-E36	500	\$8,493	\$39,777	\$4,790	\$38	\$53,098	\$26,549	\$75.63
4182832TP-1BD	200	\$4,663	\$21,730	\$2,737	\$38	\$29,168	\$9,710	\$53.23
4182836TP-0B7	150	\$6,098	\$28,958	\$2,563	\$38	\$37,658	\$1,806	\$53.23
530906TP-856	300	\$4,183	\$10,825	\$2,395	\$38	\$17,442	\$8,721	\$30.88
800164TP-0A0	500	\$5,111	\$20,713	\$4,696	\$38	\$30,558	\$15,279	\$29.16
405190TP-453	150	\$1,470	\$5,220	\$2,206	\$38	\$8,935	(\$1,479)	\$53.23
319736TP-DAF	200	\$1,159	\$4,985	\$3,476	\$38	\$9,658	\$9,658	\$0.00
180710TP-2C9	150	\$2,413	\$1,316	\$2,121	\$38	\$5,889	\$1,793	\$53.23
8001695TP-CF7	500	\$12,864	\$12,034	\$3,049	\$38	\$27,984	\$13,992	\$10.07
800147TP-135	150	\$4,323	\$2,480	\$1,837	\$38	\$8,679	\$4,339	\$11.36
800150TP-652	100	\$1,824	\$3,304	\$2,121	\$38	\$7,288	(\$1,208)	\$53.23
142817TP-7FC	150	\$2,434	\$2,398	\$2,157	\$38	\$7,027	\$2,178	\$53.23
589190TP-49A	150	\$5,423	\$2,939	\$2,087	\$38	\$10,488	\$5,244	\$34.55
116167TP-E5C	150	\$1,040	\$567	\$1,943	\$38	\$3,588	\$1,794	\$22.28
118468TP-C47	100	\$2,328	\$4,177	\$1,582	\$38	\$8,126	(\$2,249)	\$53.23
1015827TP-5C5	150	\$2,291	\$4,051	\$2,520	\$38	\$8,901	(\$32)	\$53.23
190101TP-AC6	150	\$2,739	\$1,738	\$2,678	\$38	\$7,193	(\$459)	\$53.23
800169TP-FFB	150	\$3,259	\$3,117	\$2,041	\$38	\$8,455	\$4,227	\$11.72
249945TP-521	150	\$1,619	\$4,420	\$2,313	\$38	\$8,389	\$4,195	\$25.66
364828TP-B0F	150	\$214	\$215	\$2,574	\$38	\$3,041	\$1,521	\$95.89
110197TP-B8B	150	\$2,704	\$2,769	\$2,790	\$38	\$8,301	(\$3,759)	\$53.23
426599TP-D2E	500	\$6,224	\$6,251	\$4,565	\$38	\$17,078	\$8,539	\$13.56
192544TP-A6D	300	\$12,749	\$7,165	\$3,830	\$38	\$23,783	\$11,891	\$10.32
657599TP-EEF	100	\$746	\$1,342	\$113	\$38	\$2,238	\$2,238	\$0.00
192519TP-D3E	150	\$1,620	\$998	\$2,635	\$38	\$5,291	\$4,133	\$53.23

ICP Number	Contract Capacity kVA	Trans Power Charge	Subtransmission Charge	Distribution Charge	PowerNet Charge	Total Line Charge	Fixed Charge per annum	Variable Charge per Day MWh
1186119TP-9E7	200	\$6,382	\$6,284	\$2,125	\$38	\$14,829	(\$2,033)	\$53.23
118615TP-C46	200	\$4,152	\$4,181	\$2,125	\$38	\$10,496	(\$5,516)	\$53.23
1186118TP-5A2	200	\$3,207	\$3,325	\$2,125	\$38	\$8,695	\$4,347	\$15.39
543645TP-165	200	\$2,405	\$5,378	\$2,202	\$38	\$10,023	\$8,565	\$53.23
6204408TP-3FB	750	\$18,068	\$16,545	\$3,796	\$38	\$38,447	\$19,223	\$11.74
6204407TP-C25	500	\$13,287	\$12,455	\$3,163	\$38	\$28,943	\$14,472	\$12.94
6204405TP-CA0	300	\$6,415	\$5,779	\$2,383	\$38	\$14,615	\$7,308	\$18.47
6204404TP-0E5	1000	\$16,575	\$14,885	\$4,271	\$38	\$35,769	\$17,884	\$14.94
8001320TP-60F	300	\$3,342	\$3,096	\$2,383	\$38	\$8,860	\$4,430	\$27.45
620456TP-103	200	\$3,278	\$2,996	\$2,087	\$38	\$8,400	\$4,200	\$21.99
204735TP-7C2	50	\$1,713	\$3,185	\$1,430	\$38	\$6,366	\$3,183	\$27.75
525441TP-DF0	150	\$1,850	\$1,702	\$2,088	\$38	\$5,678	\$3,292	\$53.23
633604TP-988	200	\$2,936	\$1,728	\$2,248	\$38	\$6,949	\$3,475	\$28.18
3330513TP-914	150	\$1,305	\$6,017	\$2,724	\$38	\$10,085	\$10,085	\$0.00
333049TP-FA3	150	\$1,289	\$5,782	\$2,657	\$38	\$9,766	\$9,766	\$0.00
615269TP-92F	300	\$5,834	\$15,839	\$3,281	\$38	\$24,993	\$9,110	\$53.23
391339TP-C55	50	\$464	\$840	\$3	\$38	\$1,345	\$672	\$11.39
1819727TP-A3B	100	\$1,085	\$2,033	\$2,158	\$38	\$5,313	\$2,657	\$24.35
800152TP-6D7	1000	\$26,156	\$14,554	\$1,022	\$38	\$41,770	\$20,885	\$7.81
800170TP-B07	750	\$11,656	\$82,826	\$3,923	\$38	\$98,443	\$49,222	\$51.99
182010TP-E8B	100	\$1,627	\$3,006	\$2,137	\$38	\$6,809	\$3,404	\$21.96
642956TP-513	200	\$672	\$791	\$2,271	\$38	\$3,773	\$1,886	\$18.45
800104TP-F50	500	\$14,873	\$9,360	\$3,410	\$38	\$27,681	\$13,841	\$9.21
8001045TP-7B3	500	\$10,825	\$6,719	\$3,421	\$38	\$21,003	\$10,502	\$10.06
5791226TP-DCF	300	\$2,408	\$1,558	\$2,635	\$38	\$6,639	\$3,320	\$12.16
549325TP-5D0	500	\$5,154	\$3,086	\$3,588	\$38	\$11,866	(\$16,050)	\$53.23
643847TP-B5F	500	\$4,682	\$5,293	\$3,578	\$38	\$13,592	\$6,796	\$23.09
6438485TP-221	200	\$639	\$755	\$2,253	\$38	\$3,685	\$260	\$53.23
6438465TP-89B	500	\$6,770	\$7,684	\$3,578	\$38	\$18,071	\$9,036	\$20.91
157641TP-7B1	150	\$2,122	\$1,167	\$2,286	\$38	\$5,613	\$1,892	\$53.23
800132TP-927	100	\$1,027	\$1,960	\$2,588	\$38	\$5,613	\$2,806	\$19.90
632751TP-46B	150	\$1,274	\$601	\$2,248	\$38	\$4,161	\$1,024	\$53.23
800113TP-837	100	\$827	\$1,553	\$1,428	\$38	\$3,846	(\$1,848)	\$53.23
331280TP-F5A	150	\$748	\$5,451	\$2,987	\$38	\$9,225	\$9,225	\$0.00
579184TP-AA1	100	\$651	\$1,540	\$1,123	\$38	\$3,352	\$1,676	\$31.20
568266TP-ADC	500	\$11,204	\$7,555	\$3,410	\$38	\$22,207	\$11,104	\$14.00
5682737TP-04F	300	\$1,788	\$1,339	\$2,531	\$38	\$5,697	\$2,848	\$55.82
300360TP-C68	75	\$110	\$197	\$703	\$38	\$1,048	\$925	\$53.23
405769TP-C13	200	\$2,261	\$8,173	\$6,072	\$38	\$16,544	\$1,770	\$53.23
569639TP-0AB	150	\$915	\$629	\$1,903	\$38	\$3,485	\$1,742	\$48.40

ICP Number	Contract Capacity kVA	Trans Power Charge	Subtransmission Charge	Distribution Charge	PowerNet Charge	Total Line Charge	Fixed Charge per annum	Variable Charge per Day MWh
617670TP-292	750	\$8,389	\$21,053	\$6,365	\$38	\$35,845	\$17,923	\$29.17
112267TP-BDF	150	\$1,432	\$1,417	\$2,163	\$38	\$5,050	\$2,196	\$53.23
800171TP-742	1500	\$18,706	\$88,956	\$433	\$38	\$108,133	\$54,066	\$37.32
632798TP-DD5	100	\$441	\$950	\$2,107	\$38	\$3,537	\$1,768	\$38.39
634528TP-OA0	30	\$143	\$312	\$1,650	\$38	\$2,143	\$1,071	\$36.34
5552055TP-ODD	2000	\$41,278	\$29,560	\$26,521	\$38	\$122,526	\$175,609	\$0.00
176630TP-6C4	150	\$4,520	\$2,093	\$2,014	\$38	\$8,664	\$4,332	\$20.15
800121TP-F4A	2000	\$48,749	\$39,304	\$5,221	\$38	\$93,312	\$46,656	\$9.61
569934TP-OFF	150	\$2,364	\$1,602	\$1,899	\$38	\$5,903	\$2,952	\$31.07
482074TP-DA2	200	\$1,265	\$1,851	\$2,698	\$38	\$5,852	\$2,926	\$30.87
800125TP-E40	2000	\$58,324	\$50,413	\$20,455	\$38	\$129,231	\$64,615	\$18.58
8001011TP-EB1	300	\$5,752	\$3,731	\$2,577	\$38	\$12,098	\$6,049	\$15.59
400495TP-B39	200	\$2,469	\$8,763	\$3,021	\$38	\$14,292	(\$3,397)	\$53.23
800120TP-30F	30	\$58	\$112	\$1,618	\$38	\$1,826	\$0	\$0.00
595728TP-15B	500	\$4,001	\$4,990	\$4,394	\$38	\$13,424	\$7,808	\$53.23
184621TP-6F0	50	\$930	\$1,545	\$576	\$38	\$3,089	(\$979)	\$53.23
5791154TP-B14	150	\$2,863	\$1,794	\$1,790	\$38	\$6,485	(\$6,032)	\$53.23
482070TP-CA8	300	\$4,362	\$7,026	\$3,300	\$38	\$14,726	\$8,750	\$53.23
656382TP-D30	100	\$69	\$116	\$2,081	\$38	\$2,305	\$2,183	\$53.23
800131TP-5E7	2500	\$14,944	\$14,624	\$10	\$38	\$29,616	\$14,808	\$22.56
520373TP-2AF	1500	\$11,253	\$71,860	\$76	\$38	\$83,228	\$41,614	\$72.86
184687TP-F60	150	\$3,174	\$1,546	\$1,990	\$38	\$6,749	(\$2,947)	\$53.23
522002TP-BF4	150	\$2,637	\$2,066	\$2,254	\$38	\$6,995	\$0	\$0.00
150931TP-983	500	\$8,576	\$15,763	\$3,971	\$38	\$28,348	\$14,174	\$34.71
150925TP-224	150	\$4,380	\$7,894	\$2,317	\$38	\$14,629	\$7,315	\$25.29
3330508TP-D6D	300	\$1,424	\$6,161	\$3,460	\$38	\$11,084	\$11,084	\$0.00
405386TP-576	150	\$1,374	\$5,401	\$2,308	\$38	\$9,122	\$4,561	\$110.91
389997TP-83A	200	\$1,236	\$4,557	\$2,488	\$38	\$8,318	\$647	\$53.23
389990TP-5F0	150	\$1,400	\$5,403	\$2,244	\$38	\$9,085	(\$2,019)	\$53.23
389999TP-BA1	300	\$738	\$2,881	\$3,313	\$38	\$6,970	\$3,485	\$33.00
800167TP-C60	150	\$3,103	\$10,696	\$2,255	\$38	\$16,092	(\$4,859)	\$53.23
800161TP-DEF	500	\$5,959	\$21,056	\$4,475	\$38	\$31,529	\$15,765	\$28.92
8001611TP-8B7	30	\$791	\$1,399	\$378	\$38	\$2,606	(\$1,875)	\$53.23
143131TP-38F	200	\$3,412	\$3,405	\$2,846	\$38	\$9,701	\$4,851	\$57.13
181911TP-927	75	\$3,439	\$7,375	\$1,134	\$38	\$11,987	\$5,993	\$25.75
235545TP-814	200	\$4,628	\$2,576	\$3,060	\$38	\$10,302	\$5,151	\$14.79
6375055TP-7DC	500	\$8,229	\$5,251	\$4,295	\$38	\$17,813	\$8,907	\$39.76
150910TP-893	500	\$3,514	\$6,940	\$4,062	\$38	\$14,554	\$7,277	\$34.44
150912TP-816	750	\$2,434	\$5,491	\$5,144	\$38	\$13,108	\$6,554	\$28.09
624649TP-8F7	500	\$1,683	\$1,387	\$3,845	\$38	\$6,954	\$3,477	\$17.84

ICP Number	Contract Capacity kVA	Trans Power Charge	Subtransmission Charge	Distribution Charge	PowerNet Charge	Total Line Charge	Fixed Charge per annum	Variable Charge per Day MWh
319705TP-697	150	\$1,433	\$6,121	\$2,578	\$38	\$10,170	\$10,170	\$0.00
141990TP-498	150	\$1,994	\$5,590	\$3,274	\$38	\$10,896	\$10,896	\$0.00
800166TP-025	200	\$3,441	\$13,351	\$2,549	\$38	\$19,379	\$9,690	\$28.77
416731TP-C0E	150	\$1,688	\$7,642	\$2,563	\$38	\$11,931	\$5,301	\$53.23
624606TP-58C	150	\$1,889	\$1,495	\$2,149	\$38	\$5,571	(\$4,874)	\$53.23
373002TP-847	200	\$1,469	\$7,190	\$2,338	\$38	\$11,035	\$6,409	\$53.23
1164012TP-00A	300	\$5,096	\$3,011	\$2,426	\$38	\$10,570	\$5,285	\$19.30
424510TP-575	500	\$5,859	\$5,909	\$4,797	\$38	\$16,603	\$8,301	\$19.73
4245295TP-206	150	\$1,068	\$1,008	\$2,404	\$38	\$4,519	\$2,260	\$32.81
800149TP-2AE	300	\$11,805	\$6,732	\$3,941	\$38	\$22,517	\$11,259	\$10.50
8001015TP-FBB	300	\$8,246	\$5,105	\$2,604	\$38	\$15,993	\$7,997	\$9.15

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
TPC Urban								
Domestic								
Small Domestic (8kVA 1 Phase) - All Peak	UD08P	70	\$4,094	\$6,469	\$14,384	\$2,644	\$0.5825	\$53.23
Small Domestic (8kVA 1 Phase) - With Off Peak	UD08Q	343	\$16,711	\$26,977	\$49,786	\$12,958	\$0.3812	\$53.23
Standard Domestic (20kVA 1 Phase) - All Peak	UD20P	1,082	\$158,212	\$249,990	\$456,089	\$40,876	\$1.0484	\$53.23
Standard Domestic (20kVA 1 Phase) - With Off Peak	UD20Q	11,774	\$1,434,054	\$2,315,043	\$3,984,732	\$444,796	\$0.7308	\$53.23
10% Fixed Charge Option - All Peak	UDL20P	226	\$26,820	\$44,119	\$31,331	\$8,538	\$0.1500	\$73.42
10% Fixed Charge Option - With Off Peak	UDL20Q	1,059	\$105,358	\$175,863	\$113,589	\$40,007	\$-	\$73.42
10% Fixed Charge Option (8kVA 1 Phase) - All Peak	UDL08P	0	\$0	\$0	\$0	\$0	\$0.1500	\$91.94
10% Fixed Charge Option (8kVA 1 Phase) - With Off Peak	UDL08Q	0	\$0	\$0	\$0	\$0	\$-	\$91.94
Non-Domestic Single Phase								
Street Lights (1 Phase)	US001L	3,143	\$40,430	\$67,677	\$95,024	\$2,375	\$0.0847	\$53.23
1 kVA 1 Phase - All Peak	US001P	25	\$2,184	\$3,477	\$7,301	\$944	\$0.4130	\$53.23
8 kVA 1 Phase - All Peak	US008P	158	\$9,241	\$14,602	\$32,467	\$5,969	\$0.5825	\$53.23
8 kVA 1 Phase - With Off Peak	US008Q	28	\$1,364	\$2,202	\$4,064	\$1,058	\$0.3812	\$53.23
20 kVA 1 Phase - All Peak	US020P	365	\$53,371	\$84,331	\$153,856	\$13,789	\$1.0484	\$53.23
20 kVA 1 Phase - With Off Peak	US020Q	140	\$17,052	\$27,527	\$47,381	\$5,289	\$0.7095	\$53.23
Non-Domestic Three Phase								
15 kVA 3 Phase - All Peak	UT015P	56	\$6,141	\$10,171	\$18,386	\$2,116	\$0.8684	\$53.23
15 kVA 3 Phase - With Off Peak	UT015Q	17	\$1,553	\$2,649	\$4,160	\$642	\$0.5719	\$53.23
30 kVA 3 Phase - All Peak	UT030P	566	\$131,065	\$220,293	\$261,051	\$21,382	\$1.4720	\$53.23
30 kVA 3 Phase - With Off Peak	UT030Q	112	\$21,687	\$37,327	\$38,519	\$4,231	\$0.9849	\$53.23
50 kVA 3 Phase - All Peak	UT050P	275	\$154,158	\$256,661	\$324,943	\$10,389	\$2.9864	\$53.23
50 kVA 3 Phase - With Off Peak	UT050Q	87	\$40,680	\$69,611	\$84,119	\$3,287	\$2.0333	\$53.23
75 kVA 3 Phase - All Peak	UT075P	94	\$95,755	\$160,945	\$229,147	\$3,551	\$7.2436	\$53.23
75 kVA 3 Phase - With Off Peak	UT075Q	21	\$17,888	\$30,788	\$38,679	\$793	\$4.8820	\$53.23
100 kVA 3 Phase - All Peak	UT100P	12	\$20,208	\$33,965	\$54,975	\$453	\$13.4175	\$53.23
100 kVA 3 Phase - With Off Peak	UT100Q	1	\$1,408	\$2,424	\$3,525	\$38	\$9.3192	\$53.23
TPC Rural								
Domestic								
Small Domestic (8kVA 1 Phase) - All Peak	RD08P	148	\$8,656	\$13,678	\$34,415	\$5,591	\$0.6566	\$53.23
Small Domestic (8kVA 1 Phase) - With Off Peak	RD08Q	179	\$8,721	\$14,078	\$30,137	\$6,762	\$0.4448	\$53.23
Standard Domestic (20kVA 1 Phase) - All Peak	RD20P	1,047	\$153,095	\$241,903	\$502,060	\$39,553	\$1.2073	\$53.23
Standard Domestic (20kVA 1 Phase) - With Off Peak	RD20Q	6,912	\$841,870	\$1,359,061	\$2,579,440	\$261,120	\$0.8260	\$53.23
10% Fixed Charge Option - All Peak	RDL20P	130	\$15,428	\$25,378	\$18,022	\$4,911	\$0.1500	\$73.42

Consumer Capacity	Code	Number of Connections	TransPower Charge	Sub transmission Charge	Distribution Charge	PowerNet Overheads	Fixed Charge per Day	Variable Charge per Day MWh
10% Fixed Charge Option - With Off Peak	RDL20Q	311	\$30,941	\$51,646	\$39,034	\$11,749	\$0.0500	\$73.42
10% Fixed Charge Option (8kVA 1 Phase) - All Peak	RDL08P	0	\$0	\$0	\$0	\$0	\$0.1500	\$91.94
10% Fixed Charge Option (8kVA 1 Phase) - With Off Peak	RDL08Q	0	\$0	\$0	\$0	\$0	\$0.0500	\$91.94
Non-Domestic Single Phase & Holiday Homes								
Street Lights (1 Phase)	RS001L	517	\$6,650	\$11,132	\$17,631	\$391	\$0.0953	\$53.23
1 kVA 1 Phase - All Peak	RS001P	132	\$11,532	\$18,359	\$38,550	\$4,987	\$0.4130	\$53.23
8 kVA 1 Phase - All Peak	RS008P	738	\$43,165	\$68,204	\$171,611	\$27,880	\$0.6566	\$53.23
8 kVA 1 Phase - With Off Peak	RS008Q	33	\$1,608	\$2,595	\$5,556	\$1,247	\$0.4448	\$53.23
20 kVA 1 Phase - All Peak	RS020P	2,088	\$305,312	\$482,420	\$1,001,243	\$78,880	\$1.2073	\$53.23
20 kVA 1 Phase - With Off Peak	RS020Q	225	\$27,405	\$44,240	\$83,966	\$8,500	\$0.8260	\$53.23
Non-Domestic Three Phase								
15 kVA 3 Phase - All Peak	RT015P	187	\$20,508	\$33,965	\$69,347	\$7,064	\$0.9849	\$53.23
15 kVA 3 Phase - With Off Peak	RT015Q	15	\$1,370	\$2,337	\$4,193	\$567	\$0.6672	\$53.23
30 kVA 3 Phase - All Peak	RT030P	2,380	\$551,120	\$926,321	\$1,281,698	\$89,911	\$1.6838	\$53.23
30 kVA 3 Phase - With Off Peak	RT030Q	294	\$56,928	\$97,983	\$118,153	\$11,107	\$1.1437	\$53.23
50 kVA 3 Phase - All Peak	RT050P	367	\$205,731	\$342,525	\$491,815	\$13,864	\$3.4206	\$53.23
50 kVA 3 Phase - With Off Peak	RT050Q	422	\$197,319	\$337,655	\$455,330	\$15,942	\$2.3404	\$53.23
75 kVA 3 Phase - All Peak	RT075P	49	\$49,915	\$83,897	\$145,397	\$1,851	\$8.6944	\$53.23
75 kVA 3 Phase - With Off Peak	RT075Q	17	\$14,481	\$24,924	\$37,357	\$642	\$5.8563	\$53.23
100 kVA 3 Phase - All Peak	RT100P	24	\$40,416	\$67,930	\$133,606	\$907	\$16.1180	\$53.23
100 kVA 3 Phase - With Off Peak	RT100Q	5	\$7,041	\$12,118	\$21,028	\$189	\$11.1830	\$53.23