

POWERNET LIMITED LINE PRICING METHODOLOGY FOR THE ELECTRICITY INVERCARGILL LIMITED NETWORK AS AT 1 APRIL 2010

1. INTRODUCTION

- 1.1 PowerNet Limited (PNL) has a responsibility for the management of the network assets owned by Electricity Invercargill Limited (EIL).
- 1.2 The total line charge is based on the following components:
 - (a) Transmission Grid Asset Management costs (Transpower)
 - (b) Subtransmission 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) EIL Use Charge comprising depreciation, return of investment and other costs of ownership.
- 1.3 The derivation of the line charges is based on seven 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 weekday between June and August inclusive)
 - (c) The Winter Peak energy MWh (0700-1100 hours and 1700-2100 hours, each weekday 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.
 - (g) Coincident Peak demand with Transpowers 100 highest peaks for the lower South Island (kVA), half hour metered customers only
- 1.4 The basis of allocation of Transpower and subtransmission 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, subtransmission 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 21kVA = 17%

Between 21kVA and 110kVA = ramp function from 17% - 37.5%

Between 110kVA and 2000kVA = ramp function from 37.5% - 75%

Above 2000kVA = 75%.

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 16kVA = 25%

For connections between 16kVA and 100kVA = ramp function from 25% - 33%

For connections between 101kVA and 2000kVA = ramp function from 33% - 70%

For connections above 2000kVA = 70%.

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.

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.

(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.

- 1.8 The costs of the subtransmission 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 required return on the assets, the latter using the companies weighted average cost of capital. The estimated carrying value of EIL’s network at 1 April 2010 is \$65.67 million. The overall Use Charge of \$8.67 million is made up of the depreciation of \$2.47 million, asset write downs of \$0.15 million, ownership costs of \$1.00 million and a gross return or net profit before tax of \$5.053 million. The latter equating to 7.7% of the carrying value of the assets.

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.
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

subtransmission 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 Non Half Hour Metered	Contract Capacity kVA	Peak Demand Reading kVA	Total Energy Reading MWh	Winter Peak Reading MWh	Winter Day Reading MWh	Summer Day Reading MWh
721876NV-1C6	200	72	67	6	16	45
722703NV-43B	200	180	180	25	60	70
7302313NV-BC5	75	22	36	6	15	16
7341272NV-801	150	47	182	25	72	60
7341276NV-90B	200	69	200	29	76	98
7341792NV-7BE	200	74	248	29	93	117
734325NV-9C1	150	60	77	14	29	30
734360NV-62B	75	75	310	35	81	125
7350005NV-3D0	75	59	112	18	40	28
740385NV-DE7	200	124	354	42	124	183
743331NV-CBF	150	120	190	50	104	80
744608NV-473	300	211	612	87	227	262
744610NV-CCA	150	150	166	31	80	60
744611NV-08F	300	290	400	100	150	100
750191NV-4A6	150	90	203	59	120	69
760735NV-A99	150	89	141	24	58	47
7757907NV-783	300	287	566	95	243	207
800449NV-3FB	75	70	102	22	43	31
8144266NV-0A8	200	180	409	56	142	135
825292NV-886	500	334	745	139	338	310
8305375NV-D2C	100	36	50	8	22	19
8305981NV-63B	500	345	744	141	336	229
832431NV-6DE	1000	530	665	39	96	74
835083NV-C88	300	134	53	25	38	8
836516NV-9C5	200	29	51	8	17	24
8425758NV-FE5	150	130	422	59	157	145
850948NV-9C2	30	21	89	12	33	40
8541431NV-DF3	150	120	84	16	34	28
8548111NV-903	75	67	183	27	68	73
8803032NV-345	150	85	224	35	86	82
8803044NV-797	75	75	1	1	1	1
880309NV-179	300	106	434	54	144	180
8803165NV-F83	50	51	139	19	48	64
880317NV-84F	300	75	202	32	72	94
880327NV-FB7	300	290	124	155	409	491
8803283NV-7B5	150	166	549	61	158	252

ICP Number Non Half Hour Metered	Contract Capacity kVA	Peak Demand Reading kVA	Total Energy Reading MWh	Winter Peak Reading MWh	Winter Day Reading MWh	Summer Day Reading MWh
8803601NV-E7B	150	155	494	56	140	202
880397NV-D05	1000	105	354	37	97	163
880398NV-2DB	500	46	141	13	37	65
9003053NV-D38	300	327	785	107	222	270
900306NV-5EE	750	270	371	62	163	123
90030815NV-060	500	51	490	19	50	89
9003114NV-B53	50	52	118	16	52	48
9003117NV-793	300	310	835	92	214	277
900319NV-09D	200	200	340	70	150	155
9003244NV-058	300	166	860	107	262	330
900327NV-4FE	50	40	210	21	57	80
900330NV-399	500	356	2260	274	665	929
900384NV-021	500	364	1199	179	449	455
930921NV-E57	200	150	115	17	39	46
931326NV-837	150	115	72	12	26	28
931706NV-963	30	10	1	1	1	1
931749NV-418	300	137	360	34	93	180
931760NV-71C	150	120	111	20	29	36
931775NV-0FE	150	130	49	6	19	27
931776NV-C3E	150	128	175	26	54	76
931777NV-07B	750	516	2835	267	744	1171
934525NV-5D1	150	70	135	18	46	37
9406011NV-187	500	336	1587	178	465	523
9406013NV-102	500	359	1469	237	521	644
9408016NV-48D	1750	1172	5468	523	1433	2336

ICP Number Half Hour Metered	Contract Capacity kVA	Coincident Peak Demand Reading kVA	Peak Demand Reading kVA	Total Energy Reading MWh	Winter Peak Reading MWh	Winter Day Reading MWh	Summer Day Reading MWh
7205085NV-6A2	100	29	65	242	24	62	73
721862NV-A61	50	32	65	296	33	88	125
721876NV-1C6	200	23	72	67	6	16	45
722709NV-6AA	500	5	17	38	4	10	12
7229001NV-0AF	200	31	89	139	21	46	67
724179NV-031	100	9	22	29	4	10	13
7301102NV-5CA	100	11	28	89	10	27	33
7301164NV-BB5	150	30	67	246	31	98	104
73015753NV-A0E	150	37	93	303	39	108	121
7301908NV-756	75	40	62	265	35	101	129
7302313NV-BC5	75	10	22	36	6	15	16
7302953NV-36A	300	49	75	291	40	98	120
7317032NV-617	200	86	138	295	53	144	115
734110NV-971	300	81	165	332	58	142	175
7341266NV-3A6	150	21	39	122	16	45	61
7341272NV-801	150	35	47	182	25	72	60
7341276NV-90B	200	37	69	200	29	76	98
734165NV-163	750	211	313	982	147	401	529
7341792NV-7BE	200	47	74	248	29	93	117
7341793NV-BFB	100	32	60	137	18	54	67
734188NV-482	300	157	213	1157	134	367	510
734318NV-162	300	75	267	265	37	100	101
734460NV-929	200	86	109	502	62	153	196
734802NV-A50	150	82	132	312	42	141	78
7403085NV-205	200	64	95	337	48	116	134
740373NV-C7F	200	67	135	219	37	90	97
740385NV-DE7	200	68	124	354	42	124	183
740630NV-71F	150	69	156	266	57	113	104
740649NV-C13	75	33	55	119	21	49	54
7406951NV-064	50	20	41	111	15	42	35
744103NV-5A5	750	167	242	989	131	351	434
744608NV-473	300	102	211	612	87	227	262
744611NV-08F	300	150	290	400	100	150	100
744655NV-320	200	52	75	365	45	120	137
7447181NV-71E	75	17	27	110	14	37	53
7447592NV-D72	150	27	45	96	13	34	42
754696NV-OEE	100	51	96	374	48	126	79
7551948NV-7E0	300	85	153	445	73	169	152
760735NV-A99	150	33	89	141	24	58	47

ICP Number Half Hour Metered	Contract Capacity kVA	Coincident Peak Demand Reading kVA	Peak Demand Reading kVA	Total Energy Reading MWh	Winter Peak Reading MWh	Winter Day Reading MWh	Summer Day Reading MWh
760737NV-A1C	500	156	335	538	106	240	196
7757907NV-783	300	126	287	566	95	243	207
7757994NV-4A4	200	72	195	211	43	97	78
810201NV-DAD	150	25	59	110	19	42	47
8102959NV-5D5	300	110	290	593	95	222	204
8144266NV-0A8	200	48	180	409	56	142	135
825292NV-886	500	152	334	745	139	338	310
8305375NV-D2C	100	11	36	50	8	22	19
8305967NV-D0E	750	25	429	183	31	77	65
8305981NV-63B	500	171	345	744	141	336	229
831121NV-B96	300	32	94	114	16	42	46
832431NV-6DE	1000	47	530	665	39	96	74
835083NV-C88	300	1	134	53	25	38	8
8365737NV-155	500	134	288	700	100	232	325
8425758NV-FE5	150	67	130	422	59	157	145
8509006NV-D55	150	46	62	319	38	107	145
8509025NV-CC0	300	156	193	807	102	291	426
8509026NV-000	500	108	162	574	72	217	306
850908NV-B67	750	270	353	2070	231	638	854
850948NV-9C2	30	16	21	89	12	33	40
8509962NV-AA6	75	9	25	74	8	25	36
8548111NV-903	75	36	67	183	27	68	73
8665558NV-6AF	200	49	90	212	30	68	84
880302NV-FAD	150	51	77	363	44	127	175
8803032NV-345	150	47	85	224	35	86	82
880303NV-3E8	300	45	99	329	42	120	159
8803047NV-B57	150	25	71	120	19	47	47
880308NV-D3C	75	36	77	264	31	92	124
880309NV-179	300	66	106	434	54	144	180
880314NV-48F	300	51	80	297	40	113	109
8803164NV-3C6	75	46	78	227	38	93	102
8803165NV-F83	50	26	51	139	19	48	64
880316NV-40A	300	49	91	302	46	106	89
880317NV-84F	300	72	75	202	32	72	94
880321NV-E38	200	56	109	379	51	146	191
880323NV-EBD	150	42	61	313	35	89	97
8803283NV-7B5	150	94	166	549	61	158	252
8803298NV-3CC	500	142	242	513	86	183	252
880329NV-C2C	1000	491	687	2876	350	787	1181
880330NV-8D0	200	106	157	375	53	120	170

ICP Number Half Hour Metered	Contract Capacity kVA	Coincident Peak Demand Reading kVA	Peak Demand Reading kVA	Total Energy Reading MWh	Winter Peak Reading MWh	Winter Day Reading MWh	Summer Day Reading MWh
880361NV-C9D	500	204	244	1433	167	443	612
8803625NV-224	100	18	48	143	17	49	66
880363NV-C18	200	36	67	226	30	89	94
880397NV-D05	1000	65	105	354	37	97	163
880398NV-2DB	500	28	46	141	13	37	65
9003051NV-DBD	300	194	296	857	139	366	334
9003053NV-D38	300	97	327	785	107	222	270
900305NV-92E	750	94	152	981	64	156	189
900306NV-5EE	750	72	270	371	62	163	123
9003071NV-0E8	300	236	399	1225	151	481	622
90030815NV-060	500	26	51	490	19	50	89
9003081NV-0FF	200	104	124	410	62	149	195
9003082NV-C3F	75	66	96	256	42	103	123
9003083NV-07A	500	133	381	948	128	339	377
900308NV-675	1250	127	319	1037	138	341	348
9003114NV-B53	50	27	52	118	16	52	48
9003117NV-793	300	120	310	835	92	214	277
900313NV-20C	300	119	175	603	96	267	149
9003212NV-9DF	100	28	60	194	26	73	80
9003235NV-940	500	213	392	1493	194	498	506
9003244NV-058	300	111	166	860	107	262	330
900325NV-47B	500	364	402	2477	286	750	1051
900327NV-4FE	50	23	40	210	21	57	80
900330NV-399	500	293	356	2260	274	665	929
900337NV-E53	100	11	33	47	9	22	14
9003385NV-2F6	150	49	85	296	38	112	129
900342NV-641	100	91	141	398	61	145	178
9003503NV-035	200	36	114	257	45	104	68
900350NV-C69	100	51	92	222	37	91	87
900351NV-02C	200	100	124	906	82	230	321
9003603NV-336	300	158	303	903	121	311	361
900383NV-DEB	500	64	256	232	54	120	75
900384NV-021	500	194	364	1199	179	449	455
920755NV-4EA	150	84	125	537	51	120	233
930503NV-F8B	100	21	54	84	11	30	33
931749NV-418	300	150	137	360	34	93	180
931777NV-07B	750	304	516	2835	267	744	1171
933534NV-759	200	129	164	406	26	73	286
9406011NV-187	500	269	336	1587	178	465	523
9406013NV-102	500	294	359	1469	237	521	644

ICP Number Half Hour Metered	Contract Capacity kVA	Coincident Peak Demand Reading kVA	Peak Demand Reading kVA	Total Energy Reading MWh	Winter Peak Reading MWh	Winter Day Reading MWh	Summer Day Reading MWh
9408016NV-48D	1750	722	1172	5468	523	1433	2336

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
Domestic							
Small Domestic (8kVA 1 Phase) - All Peak	ND08P	14	20	80	15	32	30
Small Domestic (8kVA 1 Phase) - With Off Peak	ND08Q	164	200	933	130	341	344
Standard Domestic (20kVA 1 Phase) - All Peak	ND20P	557	1599	6336	1176	2576	2385
Standard Domestic (20kVA 1 Phase) - With Off Peak	ND20Q	11106	27101	126328	17589	46224	46609
10% Fixed Charge Option - All Peak	NDL20P	142	408	718	133	292	270
10% Fixed Charge Option - With Off Peak	NDL20Q	2191	5346	11076	1542	4053	4087
10% Fixed Charge Option (8kVA 1 Phase) - All Peak	NDL08P	3	4	15	3	6	6
10% Fixed Charge Option (8kVA 1 Phase) - With Off Peak	NDL08Q	45	55	227	32	83	84
Non-Domestic Single Phase							
Street Lights (1 Phase)	NS001L	2	0	0	0	0	0
1 kVA 1 Phase - All Peak	NS001P	32	32	298	55	121	112
8 kVA 1 Phase - All Peak	NS008P	152	218	864	160	351	325
8 kVA 1 Phase - With Off Peak	NS008Q	13	16	74	10	27	27
20 kVA 1 Phase - All Peak	NS020P	285	818	3242	602	1318	1220
20 kVA 1 Phase - With Off Peak	NS020Q	117	286	1331	185	487	491
Non-Domestic Three Phase							
15 kVA 3 Phase - All Peak	NT015P	55	148	587	109	238	221
15 kVA 3 Phase - With Off Peak	NT015Q	9	21	96	13	35	35

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
30 kVA 3 Phase - All Peak	NT030P	526	3215	9058	1682	3683	3410
30 kVA 3 Phase - With Off Peak	NT030Q	153	795	2635	367	964	972
50 kVA 3 Phase - All Peak	NT050P	273	3445	12132	2252	4932	4568
50 kVA 3 Phase - With Off Peak	NT050Q	79	847	3511	489	1285	1295
75 kVA 3 Phase - All Peak	NT075P	99	2325	6551	1216	2663	2466
75 kVA 3 Phase - With Off Peak	NT075Q	16	319	1059	147	387	391
100 kVA 3 Phase - All Peak	NT100P	60	2243	6321	1174	2570	2380
100 kVA 3 Phase - With Off Peak	NT100Q	8	254	843	117	308	311
EIL Bluff							
Domestic							
Small Domestic (8kVA 1 Phase) - All Peak	BD08P	3	4	17	3	7	6
Small Domestic (8kVA 1 Phase) - With Off Peak	BD08Q	6	7	34	5	12	13
Standard Domestic (20kVA 1 Phase) - All Peak	BD20P	130	373	1479	275	601	557
Standard Domestic (20kVA 1 Phase) - With Off Peak	BD20Q	591	1442	6722	936	2460	2480
10% Fixed Charge Option - All Peak	BDL20P	55	158	278	52	113	105
10% Fixed Charge Option - With Off Peak	BDL20Q	102	249	516	72	189	190
10% Fixed Charge Option (8kVA 1 Phase) - All Peak	BDL08P	1	1	5	1	2	2
10% Fixed Charge Option (8kVA 1 Phase) - With Off Peak	BDL08Q	2	2	10	1	4	4
Non-Domestic Single Phase							
Street Lights (1 Phase)	BS001L	1	0	0	0	0	0
1 kVA 1 Phase - All Peak	BS001P	0	0	0	0	0	0
8 kVA 1 Phase - All Peak	BS008P	9	13	51	10	21	19

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
8 kVA 1 Phase - With Off Peak	BS008Q	0	0	0	0	0	0
20 kVA 1 Phase - All Peak	BS020P	31	89	353	65	143	133
20 kVA 1 Phase - With Off Peak	BS020Q	2	5	23	3	8	8
Non-Domestic Three Phase							
15 kVA 3 Phase - All Peak	BT015P	3	8	32	6	13	12
15 kVA 3 Phase - With Off Peak	BT015Q	1	2	11	1	4	4
30 kVA 3 Phase - All Peak	BT030P	36	220	620	115	252	233
30 kVA 3 Phase - With Off Peak	BT030Q	7	36	121	17	44	44
50 kVA 3 Phase - All Peak	BT050P	11	139	489	91	199	184
50 kVA 3 Phase - With Off Peak	BT050Q	4	43	178	25	65	66
75 kVA 3 Phase - All Peak	BT075P	8	188	529	98	215	199
75 kVA 3 Phase - With Off Peak	BT075Q	1	20	66	9	24	24
100 kVA 3 Phase - All Peak	BT100P	4	150	421	78	171	159
100 kVA 3 Phase - With Off Peak	BT100Q	0	0	0	0	0	0

2. TRANSMISSION CHARGES

Transmission charges reflect the Transpower grid asset management costs incurred by Electricity Invercargill Limited based on the Invercargill point of supply.

Transpower 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 charge for Invercargill is \$1,113,974. Electricity Invercargill's share is of the connection charge is \$746,568.

The connection charges which include the Transpower EVA credits 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:

- (a) \$8.25 per kVA Peak Demand.
- (b) \$3.54 per Winter Peak MWh.
- (c) \$1.18 per Winter Day MWh

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

- (a) \$7.97 per kVA Peak Demand
- (b) \$3.88 per Winter Peak MWh
- (c) \$1.30 per Winter Day MWh

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 coincident 100 highest peak demands recorded for Transpower's lower south island region during the assessment period 1 September to 31 August each year at the Invercargill grid exit point.

Electricity Invercargill's share of the Invercargill interconnection charge of \$5,203,423 is \$3,564,345.

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

Half Hour Metered:

Coincident peak with lower south island region 100%

Non Half Hour Metered:

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

For individual non half hour metered customers this equates to the following charges:

- (a) \$33.76 per kVA Winter Peak Demand.
- (b) \$25.37 per Winter Peak MWh.
- (c) \$5.64 per Winter Day MWh.

For individual Half Hour Metered customers this equates to the following charges:

Point of Supply	Per kVA Coincident Peak Demand
Invercargill	\$69.12

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
Electricity Invercargill	\$29.98	\$25.55	\$5.69

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	2	\$1,293.69	\$646.84
50	7	\$11,663.26	\$1,666.18
75	14	\$29,273.17	\$2,090.94
100	13	\$30,118.13	\$2,316.78
150	42	\$137,763.33	\$3,280.08
200	34	\$150,543.73	\$4,427.76
300	34	\$260,912.78	\$7,673.91
500	18	\$233,652.81	\$12,980.71
750	7	\$92,519.86	\$13,217.12
1000	3	\$47,071.90	\$15,690.63

Consumer Capacity kVA	Number of Connections	Line Charge Revenue per Consumer Group	Average Line Charge
1250	1	\$10,658.61	\$10,658.61
1750	1	\$58,667.14	\$58,667.14

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
Domestic				
Small Domestic (8kVA 1 Phase) - All Peak	ND08P	14	\$94.32	\$1,320.45
Small Domestic (8kVA 1 Phase) - With Off Peak	ND08Q	164	\$78.61	\$12,891.66
Standard Domestic (20kVA 1 Phase) - All Peak	ND20P	557	\$188.64	\$105,069.95
Standard Domestic (20kVA 1 Phase) - With Off Peak	ND20Q	11106	\$157.22	\$1,746,034.12
10% Fixed Charge Option - All Peak	NDL20P	142	\$144.36	\$20,499.79
10% Fixed Charge Option - With Off Peak	NDL20Q	2191	\$121.32	\$265,814.87
10% Fixed Charge Option (8kVA 1 Phase) - All Peak	NDL08P	3	\$89.89	\$269.67
10% Fixed Charge Option (8kVA 1 Phase) - With Off Peak	NDL08Q	45	\$75.02	\$3,375.82
Non-Domestic Single Phase				
Street Lights (1 Phase)	NS001L	2	\$4.48	\$8.96
1 kVA 1 Phase - All Peak	NS001P	32	\$103.26	\$3,304.39
8 kVA 1 Phase - All Peak	NS008P	152	\$94.32	\$14,336.30
8 kVA 1 Phase - With Off Peak	NS008Q	13	\$78.61	\$1,021.90
20 kVA 1 Phase - All Peak	NS020P	285	\$188.64	\$53,761.11
20 kVA 1 Phase - With Off Peak	NS020Q	117	\$157.22	\$18,394.20
Non-Domestic Three Phase				

Consumer Capacity	Code	Number of Connections	Transpower Charge	Transpower Revenue per Consumer Group
15 kVA 3 Phase - All Peak	NT015P	55	\$176.85	\$9,726.52
15 kVA 3 Phase - With Off Peak	NT015Q	9	\$147.39	\$1,326.50
30 kVA 3 Phase - All Peak	NT030P	526	\$352.60	\$185,468.48
30 kVA 3 Phase - With Off Peak	NT030Q	153	\$294.98	\$45,132.03
50 kVA 3 Phase - All Peak	NT050P	273	\$790.18	\$215,719.76
50 kVA 3 Phase - With Off Peak	NT050Q	79	\$659.45	\$52,096.30
75 kVA 3 Phase - All Peak	NT075P	99	\$1,354.84	\$134,128.97
75 kVA 3 Phase - With Off Peak	NT075Q	16	\$1,133.43	\$18,134.95
100 kVA 3 Phase - All Peak	NT100P	60	\$2,157.07	\$129,424.11
100 kVA 3 Phase - With Off Peak	NT100Q	8	\$1,804.57	\$14,436.53
EIL Bluff				
Domestic				
Small Domestic (8kVA 1 Phase) - All Peak	BD08P	3	\$94.32	\$282.95
Small Domestic (8kVA 1 Phase) - With Off Peak	BD08Q	6	\$78.61	\$471.65
Standard Domestic (20kVA 1 Phase) - All Peak	BD20P	130	\$188.64	\$24,522.61
Standard Domestic (20kVA 1 Phase) - With Off Peak	BD20Q	591	\$157.22	\$92,914.30
10% Fixed Charge Option - All Peak	BDL20P	55	\$144.36	\$7,940.06
10% Fixed Charge Option - With Off Peak	BDL20Q	102	\$121.32	\$12,374.77
10% Fixed Charge Option (8kVA 1 Phase) - All Peak	BDL08P	1	\$89.89	\$89.89
10% Fixed Charge Option (8kVA 1 Phase) - With Off Peak	BDL08Q	2	\$75.02	\$150.04

Consumer Capacity	Code	Number of Connections	Transpower Charge	Transpower Revenue per Consumer Group
Non-Domestic Single Phase				
Street Lights (1 Phase)	BS001L	1	\$4.48	\$4.48
1 kVA 1 Phase - All Peak	BS001P	0	\$103.26	\$0.00
8 kVA 1 Phase - All Peak	BS008P	9	\$94.32	\$848.86
8 kVA 1 Phase - With Off Peak	BS008Q	0	\$78.61	\$0.00
20 kVA 1 Phase - All Peak	BS020P	31	\$188.64	\$5,847.70
20 kVA 1 Phase - With Off Peak	BS020Q	2	\$157.22	\$314.43
Non-Domestic Three Phase				
15 kVA 3 Phase - All Peak	BT015P	3	\$176.85	\$530.54
15 kVA 3 Phase - With Off Peak	BT015Q	1	\$147.39	\$147.39
30 kVA 3 Phase - All Peak	BT030P	36	\$352.60	\$12,693.66
30 kVA 3 Phase - With Off Peak	BT030Q	7	\$294.98	\$2,064.86
50 kVA 3 Phase - All Peak	BT050P	11	\$790.18	\$8,692.01
50 kVA 3 Phase - With Off Peak	BT050Q	4	\$659.45	\$2,637.79
75 kVA 3 Phase - All Peak	BT075P	8	\$1,354.84	\$10,838.70
75 kVA 3 Phase - With Off Peak	BT075Q	1	\$1,133.43	\$1,133.43
100 kVA 3 Phase - All Peak	BT100P	4	\$2,157.07	\$8,628.27
100 kVA 3 Phase - With Off Peak	BT100Q	0	\$1,804.57	\$0.00

3. SUBTRANSMISSION CHARGES

Subtransmission charges are based on the subtransmission costs (66kV and 33kV network) and the zone substation costs.

There are two components making up the subtransmission charges:

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

3.1 Supply Charge

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

All the costs of the subtransmission network and zone substations are averaged and the use charge allocated on the basis of the relative asset value compared to the total network asset value.

The supply charge for the EIL city area zone substations is \$957,990 and for the 33kV line and cables is \$435,450 giving a total supply charge for EIL City of \$1,393,440.

As EIL also wheels power for Bluff through The Power Company Limited 33kV line and Bluff zone substation there is a supply charge of \$446,421 for this zone substation and subtransmission lines.

The supply charge totalling \$1,393,440 for EIL City and \$446,421 for EIL Bluff is allocated across all customers on the following basis:

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

3.2 Maintenance Charge

The maintenance charges for the EIL city zone substations and subtransmission system total \$264,387 and for EIL Bluff total \$64,043.

The total subtransmission maintenance charges of \$328,430 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 1.5:1. 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 components, i.e. 50% of the cost.

3.3 Subtransmission Charges for Individual Customers above 100 kVA

EIL City

(a)	Subtransmission Supply charge	\$16.45 per kVA Winter Peak Demand
(b)	Subtransmission Supply charge	\$7.27 per Winter Peak MWh
(c)	Subtransmission Supply charge	\$2.43per Winter Day MWh
(e)	Subtransmission Maintenance charge	\$0.51 per Commercial Total MWh
(f)	Subtransmission Maintenance charge	\$2.23 per kVA Winter Peak Demand

EIL Bluff

(a)	Subtransmission Supply charge	\$65.94 per kVA Winter Peak Demand
(b)	Subtransmission Supply charge	\$29.20 per Winter Peak MWh
(c)	Subtransmission Supply charge	\$8.98 per Winter Day MWh
(e)	Subtransmission Maintenance charge	\$2.10 per Commercial Total MWh
(f)	Subtransmission Maintenance charge	\$7.25 per kVA Winter Peak Demand

3.4 Subtransmission 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:

EIL City

(a)	Subtransmission Supply charge	\$15.98 per kVA Winter Peak Demand
(b)	Subtransmission Supply charge	\$7.92 per Winter Peak MWh
(c)	Subtransmission Supply charge	\$2.64 per Winter Day MWh
(d)	Subtransmission Maintenance charge	\$0.52 per Domestic Total MWh
(e)	Subtransmission Maintenance charge	\$0.52 per Commercial Total MWh
(f)	Subtransmission Maintenance charge	\$2.10 per kVA Winter Peak Demand

EIL Bluff

(a)	Subtransmission Supply charge	\$78.31 per kVA Winter Peak Demand
(b)	Subtransmission Supply charge	\$41.77 per Winter Peak MWh
(c)	Subtransmission Supply charge	\$13.29 per Winter Day MWh
(d)	Subtransmission Maintenance charge	\$0.91 per Domestic Total MWh
(e)	Subtransmission Maintenance charge	\$0.91 per Commercial Total MWh
(f)	Subtransmission Maintenance charge	\$4.58 per kVA Winter Peak Demand

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.

There are three components making up the distribution charges

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

In calculating the distribution charges an allowance is made for the fact that customers above 150kVA have normally 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 distribution charges are multiplied by a factor of 60% for both EIL City and EIL Bluff.

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.

All the costs of the distribution network are averaged and the supply charge is allocated on the basis of the relative asset value compared to the total network asset value.

The supply charges are as follows:

- (a) *Overhead lines, Underground Cables & Distribution Substations*

EIL City	\$6,270,480
EIL Bluff	\$261,270

The supply charge is allocated across all customers on the following basis:

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

4.2 Maintenance Charge

The maintenance charges are as follows:

- (a) *Overhead lines, Underground Cables & Distribution Substations*

EIL City	\$793,161
EIL Bluff	\$125,236

The maintenance portion is allocated across all customers on the following basis:

Total Energy	50%
Contract Capacity	50%

With respect to the maintenance charges, the commercial customers incur a weighting compared to domestic customers of 1.5:1. This reflects a higher level of importance for commercial customers of the maintenance to the network. This weighted ratio only applies to the total energy components, i.e. 50% of the cost.

4.3 Distribution Transformers

The transformer charges are as follows:

EIL Supply	\$783,810
EIL Maintenance	\$208,727

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

Number of transformers and transformer capacity 100%.

4.4 Distribution Charges for Individual Customers

EIL City

(a) Distribution Supply charge	\$34.03 per kVA Contract Capacity
(b) Distribution Supply charge	\$32.74 per Winter Peak MWh
(c) Distribution Supply charge	\$6.56 per Winter Day MWh
(d) Distribution Maintenance charge	\$1.54 per Commercial Total MWh
(e) Distribution Maintenance charge	\$3.07 per kVA Contract Capacity

EIL Bluff

(a) Distribution Supply charge	\$20.32 per kVA Contract Capacity
(b) Distribution Supply charge	\$18.25 per Winter Peak MWh
(c) Distribution Supply charge	\$3.55 per Winter Day MWh
(d) Distribution Maintenance charge	\$2.68 per Commercial Total MWh
(e) Distribution Maintenance charge	\$6.96 per kVA Contract Capacity

Transformer Charges

(a) Distribution Transformer supply charge	\$321.81 per Transformer
(b) Distribution Transformer maintenance charge	\$473.3 per Transformer

The Transformer charge of \$321.81 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

4.5 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:

EIL City

- | | | |
|-----|---------------------------------|-----------------------------------|
| (a) | Distribution Supply charge | \$36.00 per kVA Contract Capacity |
| (b) | Distribution Supply charge | \$38.35 per Winter Peak MWh |
| (c) | Distribution Supply charge | \$12.81 per Winter Day MWh |
| (d) | Distribution Maintenance charge | \$1.78 per Domestic Total MWh |
| (e) | Distribution Maintenance charge | \$1.78 per Commercial Total MWh |
| (f) | Distribution Maintenance charge | \$3.17 per kVA Contract Capacity |
| (g) | Distribution Transformer charge | \$5.62 per kVA Contract Capacity |

EIL Bluff

- | | | |
|-----|---------------------------------|-----------------------------------|
| (a) | Distribution Supply charge | \$20.33 per kVA Contract Capacity |
| (b) | Distribution Supply charge | \$21.55 per Winter Peak MWh |
| (c) | Distribution Supply charge | \$7.48 per Winter Day MWh |
| (d) | Distribution Maintenance charge | \$3.71 per Domestic Total MWh |
| (e) | Distribution Maintenance charge | \$3.71 per Commercial Total MWh |
| (f) | Distribution Maintenance charge | \$6.42 per kVA Contract Capacity |
| (g) | Distribution Transformer charge | \$5.62 per kVA Contract Capacity |

The model applies a 2.5% discount for the 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.

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 \$1,180,505.

The charge per customer is \$67.99.

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 Charge
30	\$437.69	\$1,785.67	\$135.99	\$3,653.04
50	\$3,659.99	\$14,608.94	\$475.96	\$30,408.15
75	\$9,032.20	\$38,842.42	\$951.93	\$78,099.71
100	\$10,570.31	\$31,323.38	\$883.93	\$72,895.75
150	\$71,917.17	\$153,733.14	\$2,855.78	\$366,269.42
200	\$56,792.58	\$165,753.32	\$2,311.82	\$375,401.45
300	\$90,176.84	\$252,739.20	\$2,311.82	\$606,140.64
500	\$106,627.56	\$225,423.52	\$1,223.90	\$566,927.79
750	\$60,733.03	\$122,930.84	\$475.96	\$276,659.70
1000	\$13,795.60	\$79,980.92	\$203.98	\$141,052.40
1250	\$4,614.43	\$33,618.40	\$67.99	\$48,959.43
1750	\$86,843.85	\$42,737.69	\$67.99	\$188,316.67

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
Domestic						
Small Domestic (8kVA 1 Phase) - All Peak	ND08P	14	\$568.73	\$3,335.86	\$951.93	\$4,856.52
Small Domestic (8kVA 1 Phase) - With Off Peak	ND08Q	164	\$5,694.87	\$30,555.86	\$11,151.13	\$47,401.86
Standard Domestic (20kVA 1 Phase) - All Peak	ND20P	557	\$45,255.05	\$287,129.36	\$37,873.03	\$370,257.44
Standard Domestic (20kVA 1 Phase) - With Off Peak	ND20Q	11106	\$771,308.26	\$4,663,760.69	\$755,148.83	\$6,190,217.77
10% Fixed Charge Option - All Peak	NDL20P	142	\$9,223.92	\$19,453.41	\$9,655.24	\$38,332.57
10% Fixed Charge Option - With Off Peak	NDL20Q	2191	\$121,351.79	\$203,180.11	\$148,976.33	\$473,508.23
10% Fixed Charge Option (8kVA 1 Phase) - All Peak	NDL08P	3	\$116.98	\$463.71	\$203.98	\$784.68
10% Fixed Charge Option (8kVA 1 Phase) - With Off Peak	NDL08Q	45	\$1,499.33	\$4,594.96	\$3,059.76	\$9,154.05
Non-Domestic Single Phase						
Street Lights (1 Phase)	NS001L	2	\$3.91	\$62.76	\$3.19	\$69.86
1 kVA 1 Phase - All Peak	NS001P	32	\$1,347.85	\$10,677.01	\$2,175.83	\$14,200.69
8 kVA 1 Phase - All Peak	NS008P	152	\$6,174.84	\$36,217.94	\$10,335.19	\$52,727.97
8 kVA 1 Phase - With Off Peak	NS008Q	13	\$451.42	\$2,422.11	\$883.93	\$3,757.46
20 kVA 1 Phase - All Peak	NS020P	285	\$23,155.64	\$146,915.38	\$19,378.48	\$189,449.50
20 kVA 1 Phase - With Off Peak	NS020Q	117	\$8,125.61	\$49,132.00	\$7,955.38	\$65,212.99

Consumer Capacity	Code	Number of Connections	Sub transmission Charge	Distribution Charge	PowerNet Overheads	Total PowerNet Revenue
Non-Domestic Three Phase						
15 kVA 3 Phase - All Peak	NT015P	55	\$4,189.34	\$24,366.71	\$3,739.71	\$32,295.76
15 kVA 3 Phase - With Off Peak	NT015Q	9	\$585.98	\$3,156.04	\$611.95	\$4,353.97
30 kVA 3 Phase - All Peak	NT030P	526	\$81,501.12	\$355,689.38	\$35,765.20	\$472,955.69
30 kVA 3 Phase - With Off Peak	NT030Q	153	\$20,240.72	\$84,444.28	\$10,403.18	\$115,088.19
50 kVA 3 Phase - All Peak	NT050P	273	\$93,579.92	\$481,266.56	\$18,562.55	\$593,409.03
50 kVA 3 Phase - With Off Peak	NT050Q	79	\$23,137.99	\$118,430.55	\$5,371.58	\$146,940.12
75 kVA 3 Phase - All Peak	NT075P	99	\$58,940.80	\$293,541.11	\$6,731.47	\$359,213.38
75 kVA 3 Phase - With Off Peak	NT075Q	16	\$8,133.13	\$40,468.33	\$1,087.91	\$49,689.37
100 kVA 3 Phase - All Peak	NT100P	60	\$56,873.33	\$238,911.95	\$4,079.68	\$299,864.96
100 kVA 3 Phase - With Off Peak	NT100Q	8	\$6,474.47	\$27,950.86	\$543.96	\$34,969.29
EIL Bluff						
Domestic						
Small Domestic (8kVA 1 Phase) - All Peak	BD08P	3	\$555.00	\$281.70	\$203.98	\$1,040.68
Small Domestic (8kVA 1 Phase) - With Off Peak	BD08Q	6	\$939.36	\$386.89	\$407.97	\$1,734.21
Standard Domestic (20kVA 1 Phase) - All Peak	BD20P	130	\$48,099.68	\$29,476.58	\$8,839.31	\$86,415.56
Standard Domestic (20kVA 1 Phase) - With Off Peak	BD20Q	591	\$185,053.10	\$104,171.26	\$40,184.85	\$329,409.21
10% Fixed Charge Option - All Peak	BDL20P	55	\$16,315.76	(\$5,208.34)	\$3,739.71	\$14,847.12
10% Fixed Charge Option - With Off Peak	BDL20Q	102	\$25,657.05	(\$10,548.76)	\$6,935.46	\$22,043.74
10% Fixed Charge Option (8kVA 1 Phase) - All Peak	BDL08P	1	\$177.66	\$15.90	\$67.99	\$261.56

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	BDL08Q	2	\$300.80	(\$29.95)	\$135.99	\$406.85
Non-Domestic Single Phase						
Street Lights (1 Phase)	BS001L	1	\$8.92	\$23.37	\$2.64	\$34.93
1 kVA 1 Phase - All Peak	BS001P	0	\$0.00	\$0.00	\$0.00	\$0.00
8 kVA 1 Phase - All Peak	BS008P	9	\$1,664.99	\$845.11	\$611.95	\$3,122.05
8 kVA 1 Phase - With Off Peak	BS008Q	0	\$0.00	\$0.00	\$0.00	\$0.00
20 kVA 1 Phase - All Peak	BS020P	31	\$11,469.92	\$7,029.03	\$2,107.83	\$20,606.79
20 kVA 1 Phase - With Off Peak	BS020Q	2	\$626.24	\$352.53	\$135.99	\$1,114.75
Non-Domestic Three Phase						
15 kVA 3 Phase - All Peak	BT015P	3	\$1,040.62	\$516.98	\$203.98	\$1,761.59
15 kVA 3 Phase - With Off Peak	BT015Q	1	\$293.55	\$122.23	\$67.99	\$483.77
30 kVA 3 Phase - All Peak	BT030P	36	\$25,435.42	\$4,486.37	\$2,447.81	\$32,369.59
30 kVA 3 Phase - With Off Peak	BT030Q	7	\$4,189.29	\$600.22	\$475.96	\$5,265.47
50 kVA 3 Phase - All Peak	BT050P	11	\$17,179.28	\$5,983.04	\$747.94	\$23,910.25
50 kVA 3 Phase - With Off Peak	BT050Q	4	\$5,288.40	\$1,879.62	\$271.98	\$7,440.01
75 kVA 3 Phase - All Peak	BT075P	8	\$21,718.48	\$6,764.91	\$543.96	\$29,027.34
75 kVA 3 Phase - With Off Peak	BT075Q	1	\$2,299.56	\$738.03	\$67.99	\$3,105.59
100 kVA 3 Phase - All Peak	BT100P	4	\$17,289.24	\$2,429.78	\$271.98	\$19,991.00
100 kVA 3 Phase - With Off Peak	BT100Q	0	\$0.00	\$0.00	\$0.00	\$0.00

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 \$58.80 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 \$58.80. This method of calculating the fixed charge accounts for the fact that some installations have negative fixed charges.

The Variable Charge of \$58.80 per MWh of daytime sales equates to \$56.15 per MWh of daytime purchases at the grid exit point.

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	2	\$1,293.69	\$646.84
50	7	\$11,663.26	\$1,666.18
75	14	\$29,273.17	\$2,090.94
100	13	\$30,118.13	\$2,316.78
150	42	\$137,763.33	\$3,280.08
200	34	\$150,543.73	\$4,427.76
300	34	\$260,912.78	\$7,673.91
500	18	\$233,652.81	\$12,980.71
750	7	\$92,519.86	\$13,217.12
1000	3	\$47,071.90	\$15,690.63
1250	1	\$10,658.61	\$10,658.61
1750	1	\$58,667.14	\$58,667.14

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 Purchases	Line Charge Revenue per Consumer Group
Domestic					
Small Domestic (8kVA 1 Phase) - All Peak	ND08P	14	\$0.5237	\$56.1465	\$6,176.97
Small Domestic (8kVA 1 Phase) - With Off Peak	ND08Q	164	\$0.3643	\$56.1465	\$60,293.52
Standard Domestic (20kVA 1 Phase) - All Peak	ND20P	557	\$0.9678	\$56.1465	\$475,327.40
Standard Domestic (20kVA 1 Phase) - With Off Peak	ND20Q	11106	\$0.6719	\$56.1465	\$7,936,251.90
10% Fixed Charge Option - All Peak	NDL20P	142	\$0.1500	\$90.8336	\$58,832.37
10% Fixed Charge Option - With Off Peak	NDL20Q	2191	\$0.0000	\$90.8336	\$739,323.10
10% Fixed Charge Option (8kVA 1 Phase) - All Peak	NDL08P	3	\$0.1500	\$74.9547	\$1,054.35
10% Fixed Charge Option (8kVA 1 Phase) - With Off Peak	NDL08Q	45	\$0.0000	\$74.9547	\$12,529.87
Non-Domestic Single Phase					
Street Lights (1 Phase)	NS001L	2	\$0.0799	\$56.1465	\$166,354.16
1 kVA 1 Phase - All Peak	NS001P	32	\$0.3757	\$56.1465	\$17,505.08
8 kVA 1 Phase - All Peak	NS008P	152	\$0.5237	\$56.1465	\$67,064.27
8 kVA 1 Phase - With Off Peak	NS008Q	13	\$0.3643	\$56.1465	\$4,779.36
20 kVA 1 Phase - All Peak	NS020P	285	\$0.9678	\$56.1465	\$243,210.61
20 kVA 1 Phase - With Off Peak	NS020Q	117	\$0.6719	\$56.1465	\$83,607.19
Non-Domestic Three Phase					
15 kVA 3 Phase - All Peak	NT015P	55	\$0.8087	\$56.1465	\$42,022.27
15 kVA 3 Phase - With Off Peak	NT015Q	9	\$0.5237	\$56.1465	\$5,680.48

Consumer Capacity	Code	Number of Connections	Fixed Charge per Day	Variable Charge per Day MWh Purchases	Line Charge Revenue per Consumer Group
30 kVA 3 Phase - All Peak	NT030P	526	\$1.3550	\$56.1465	\$658,424.17
30 kVA 3 Phase - With Off Peak	NT030Q	153	\$0.9222	\$56.1465	\$160,220.21
50 kVA 3 Phase - All Peak	NT050P	273	\$2.7669	\$56.1465	\$809,128.80
50 kVA 3 Phase - With Off Peak	NT050Q	79	\$1.8788	\$56.1465	\$199,036.42
75 kVA 3 Phase - All Peak	NT075P	99	\$5.6818	\$56.1465	\$493,342.35
75 kVA 3 Phase - With Off Peak	NT075Q	16	\$4.1333	\$56.1465	\$67,824.33
100 kVA 3 Phase - All Peak	NT100P	60	\$6.9115	\$56.1465	\$429,289.07
100 kVA 3 Phase - With Off Peak	NT100Q	8	\$5.0100	\$56.1465	\$49,405.82
EIL Bluff					
Domestic					
Small Domestic (8kVA 1 Phase) - All Peak	BD08P	3	\$0.5237	\$56.1465	\$1,323.64
Small Domestic (8kVA 1 Phase) - With Off Peak	BD08Q	6	\$0.3643	\$56.1465	\$2,205.86
Standard Domestic (20kVA 1 Phase) - All Peak	BD20P	130	\$0.9678	\$56.1465	\$110,938.17
Standard Domestic (20kVA 1 Phase) - With Off Peak	BD20Q	591	\$0.6719	\$56.1465	\$422,323.51
10% Fixed Charge Option - All Peak	BDL20P	55	\$0.1500	\$90.8336	\$22,787.19
10% Fixed Charge Option - With Off Peak	BDL20Q	102	\$0.0000	\$90.8336	\$34,418.51
10% Fixed Charge Option (8kVA 1 Phase) - All Peak	BDL08P	1	\$0.1500	\$74.9547	\$351.45
10% Fixed Charge Option (8kVA 1 Phase) - With Off Peak	BDL08Q	2	\$0.0000	\$74.9547	\$556.88
Non-Domestic Single Phase					
Street Lights (1 Phase)	BS001L	1	\$0.0799	\$56.1465	\$13,872.70
1 kVA 1 Phase - All Peak	BS001P	0	\$0.3757	\$56.1465	\$547.03
8 kVA 1 Phase - All Peak	BS008P	9	\$0.5237	\$56.1465	\$3,970.91
8 kVA 1 Phase - With Off Peak	BS008Q	0	\$0.3643	\$56.1465	\$0.00

Consumer Capacity	Code	Number of Connections	Fixed Charge per Day	Variable Charge per Day MWh Purchases	Line Charge Revenue per Consumer Group
20 kVA 1 Phase - All Peak	BS020P	31	\$0.9678	\$56.1465	\$26,454.49
20 kVA 1 Phase - With Off Peak	BS020Q	2	\$0.6719	\$56.1465	\$1,429.18
Non-Domestic Three Phase					
15 kVA 3 Phase - All Peak	BT015P	3	\$0.8087	\$56.1465	\$2,292.12
15 kVA 3 Phase - With Off Peak	BT015Q	1	\$0.5237	\$56.1465	\$631.16
30 kVA 3 Phase - All Peak	BT030P	36	\$1.3550	\$56.1465	\$45,063.25
30 kVA 3 Phase - With Off Peak	BT030Q	7	\$0.9222	\$56.1465	\$7,330.34
50 kVA 3 Phase - All Peak	BT050P	11	\$2.7669	\$56.1465	\$32,602.26
50 kVA 3 Phase - With Off Peak	BT050Q	4	\$1.8788	\$56.1465	\$10,077.79
75 kVA 3 Phase - All Peak	BT075P	8	\$5.6818	\$56.1465	\$39,866.05
75 kVA 3 Phase - With Off Peak	BT075Q	1	\$4.1333	\$56.1465	\$4,239.02
100 kVA 3 Phase - All Peak	BT100P	4	\$6.9115	\$56.1465	\$28,619.27
100 kVA 3 Phase - With Off Peak	BT100Q	0	\$5.0100	\$56.1465	\$6,175.73

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
880323NV-EBD	150	\$3,195.09	\$829.25	\$3,882.23	\$67.99	\$7,974.56	\$3,987.28	\$21.44
9003081NV-OFF	200	\$7,933.22	\$1,792.02	\$5,641.93	\$67.99	\$15,435.16	\$7,717.58	\$22.45
8803298NV-3CC	500	\$11,081.99	\$2,996.28	\$11,035.81	\$67.99	\$25,182.07	\$12,591.03	\$28.95
740649NV-C13	75	\$2,516.83	\$568.84	\$2,697.68	\$67.99	\$5,851.34	\$2,925.67	\$28.49
900390NV-B86	300	\$6,576.29	\$2,684.94	\$6,620.98	\$67.99	\$15,950.21	\$3,045.87	\$56.15

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
880327NV-FB7	300	\$11,545.89	\$4,134.85	\$9,324.59	\$67.99	\$25,073.32	(\$27,574.40)	\$56.15
8102959NV-5D5	300	\$8,572.10	\$2,402.90	\$7,993.81	\$67.99	\$19,036.80	\$9,518.40	\$22.33
900350NV-C69	100	\$4,018.85	\$1,134.71	\$2,904.54	\$67.99	\$8,126.09	\$4,063.05	\$22.87
810201NV-DAD	150	\$1,956.53	\$550.73	\$3,233.01	\$67.99	\$5,808.27	\$2,904.13	\$32.57
7341266NV-3A6	150	\$1,612.03	\$419.93	\$3,209.36	\$67.99	\$5,309.32	\$2,654.66	\$25.11
734802NV-A50	150	\$6,381.44	\$1,677.49	\$4,213.75	\$67.99	\$12,340.68	\$6,170.34	\$28.18
734355NV-C9C	300	\$2,552.11	\$1,141.75	\$5,679.41	\$67.99	\$9,441.26	(\$1,039.69)	\$56.15
850948NV-9C2	30	\$1,207.86	\$272.95	\$1,289.71	\$67.99	\$2,838.52	\$1,419.26	\$19.47
900327NV-4FE	50	\$1,820.64	\$546.55	\$2,320.77	\$67.99	\$4,755.96	\$2,377.98	\$17.37
8803283NV-7B5	150	\$7,355.72	\$2,206.73	\$4,827.97	\$67.99	\$14,458.41	\$7,229.21	\$17.62
740385NV-DE7	200	\$5,225.95	\$1,309.44	\$5,156.39	\$67.99	\$11,759.77	\$5,879.88	\$19.14
9003503NV-035	200	\$3,102.82	\$1,434.64	\$5,029.99	\$67.99	\$9,635.44	\$4,817.72	\$28.05
8509006NV-D55	150	\$3,559.43	\$945.74	\$4,008.77	\$67.99	\$8,581.93	\$4,290.97	\$17.01
880344NV-C87	300	\$7,235.72	\$2,937.47	\$8,403.68	\$67.99	\$18,644.86	(\$13,024.52)	\$56.15
8803044NV-797	75	\$748.77	\$350.99	\$1,490.08	\$67.99	\$2,657.83	\$2,540.72	\$56.15
7433294NV-FC6	150	\$3,036.04	\$1,230.98	\$3,595.75	\$67.99	\$7,930.77	(\$1,141.64)	\$56.15
743331NV-CBF	150	\$3,709.53	\$1,423.53	\$4,076.03	\$67.99	\$9,277.08	(\$1,510.14)	\$56.15
900330NV-399	500	\$23,006.41	\$7,121.19	\$17,804.95	\$67.99	\$48,000.55	\$24,000.27	\$15.06
740373NV-C7F	200	\$5,234.72	\$1,492.92	\$4,796.27	\$67.99	\$11,591.90	\$5,795.95	\$31.07
721862NV-A61	50	\$2,573.77	\$910.30	\$2,997.07	\$67.99	\$6,549.14	\$3,274.57	\$15.40
8803601NV-E7B	150	\$4,807.80	\$2,019.03	\$4,614.91	\$67.99	\$11,509.73	(\$8,478.48)	\$56.15
8548111NV-903	75	\$2,808.34	\$779.20	\$3,100.27	\$67.99	\$6,755.80	\$3,377.90	\$23.90
734326NV-501	200	\$3,408.74	\$1,299.10	\$5,163.29	\$67.99	\$9,939.12	\$457.30	\$56.15
734325NV-9C1	150	\$779.50	\$295.48	\$3,061.86	\$67.99	\$4,204.83	\$750.94	\$56.15
9003114NV-B53	50	\$2,053.10	\$526.20	\$1,991.05	\$67.99	\$4,638.34	\$2,319.17	\$23.15
734165NV-163	750	\$16,542.25	\$4,730.13	\$18,313.27	\$67.99	\$39,653.65	\$19,826.83	\$21.32

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
8541431NV-DF3	150	\$2,516.69	\$1,058.55	\$3,120.82	\$67.99	\$6,764.05	\$3,130.44	\$56.15
722703NV-43B	200	\$3,408.01	\$1,442.39	\$4,439.24	\$67.99	\$9,357.64	\$1,751.90	\$56.15
90030815NV-060	500	\$2,024.31	\$680.10	\$9,344.20	\$67.99	\$12,116.60	\$6,058.30	\$43.58
734846NV-9FF	50	\$355.48	\$202.44	\$1,152.28	\$67.99	\$1,778.20	\$1,309.80	\$56.15
900356NV-DE6	300	\$6,568.71	\$2,722.63	\$7,033.04	\$67.99	\$16,392.37	(\$3,242.21)	\$56.15
8665558NV-6AF	200	\$3,756.89	\$994.43	\$4,579.03	\$67.99	\$9,398.35	\$4,699.18	\$30.95
8803767NV-900	150	\$743.83	\$303.69	\$3,118.43	\$67.99	\$4,233.95	(\$962.50)	\$56.15
880360NV-0D8	150	\$3,312.73	\$1,293.99	\$4,306.17	\$67.99	\$8,980.88	(\$3,722.82)	\$56.15
740394NV-B0F	200	\$2,779.96	\$1,101.21	\$4,823.06	\$67.99	\$8,772.23	(\$1,175.53)	\$56.15
9003071NV-0E8	300	\$18,687.97	\$5,879.09	\$10,605.98	\$67.99	\$35,241.04	\$17,620.52	\$15.98
8509026NV-000	500	\$8,441.56	\$2,397.90	\$11,003.98	\$67.99	\$21,911.44	\$10,955.72	\$20.92
7551948NV-7E0	300	\$6,748.75	\$2,137.68	\$7,268.47	\$67.99	\$16,222.89	\$8,111.45	\$25.27
9003385NV-2F6	150	\$3,817.99	\$1,146.24	\$4,011.65	\$67.99	\$9,043.88	\$4,521.94	\$18.75
9003117NV-793	300	\$9,852.64	\$3,863.18	\$8,145.32	\$67.99	\$21,929.12	\$10,964.56	\$22.33
7403085NV-205	200	\$4,942.29	\$1,330.49	\$5,204.26	\$67.99	\$11,545.02	\$5,772.51	\$23.07
900305NV-92E	750	\$7,361.78	\$2,335.67	\$15,918.32	\$67.99	\$25,683.77	\$12,841.89	\$37.22
900306NV-5EE	750	\$6,233.21	\$2,983.30	\$15,332.05	\$67.99	\$24,616.54	\$12,308.27	\$43.04
744103NV-5A5	750	\$13,109.79	\$3,909.54	\$17,847.83	\$67.99	\$34,935.16	\$17,467.58	\$22.23
734318NV-162	300	\$5,566.17	\$883.36	\$6,220.64	\$67.99	\$12,738.16	\$6,369.08	\$31.71
734470NV-384	300	\$922.85	\$364.01	\$5,395.46	\$67.99	\$6,750.32	\$3,180.48	\$56.15
754696NV-0EE	100	\$4,073.75	\$1,326.96	\$3,269.17	\$67.99	\$8,737.87	\$4,368.94	\$21.33
831121NV-B96	300	\$2,556.54	\$847.85	\$5,484.69	\$67.99	\$8,957.07	\$4,478.54	\$50.92
754690NV-161	150	\$2,373.34	\$1,040.79	\$2,822.35	\$67.99	\$6,304.48	\$5,306.21	\$56.15
9003083NV-07A	500	\$11,279.41	\$5,078.70	\$12,788.88	\$67.99	\$29,214.98	\$14,607.49	\$20.40
900313NV-20C	300	\$9,366.94	\$2,766.10	\$8,216.58	\$67.99	\$20,417.61	\$10,208.81	\$24.53
880314NV-48F	300	\$3,980.61	\$1,110.19	\$6,343.64	\$67.99	\$11,502.44	\$5,751.22	\$25.94

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
880363NV-C18	200	\$2,827.95	\$851.73	\$4,693.40	\$67.99	\$8,441.08	\$4,220.54	\$23.12
880302NV-FAD	150	\$3,973.12	\$1,177.09	\$4,237.82	\$67.99	\$9,456.02	\$4,728.01	\$15.66
8803047NV-B57	150	\$1,995.08	\$662.83	\$3,259.02	\$67.99	\$5,984.92	\$2,992.46	\$31.66
73015753NV-A0E	150	\$3,069.45	\$1,225.06	\$4,020.19	\$67.99	\$8,382.70	\$4,191.35	\$18.33
900337NV-E53	100	\$841.36	\$257.33	\$1,998.85	\$67.99	\$3,165.53	\$1,582.76	\$43.11
7301164NV-BB5	150	\$2,424.10	\$889.88	\$3,793.86	\$67.99	\$7,175.83	\$3,587.92	\$17.77
8803625NV-224	100	\$1,413.84	\$510.12	\$2,326.07	\$67.99	\$4,318.03	\$2,159.02	\$18.69
9003212NV-9DF	100	\$2,232.43	\$736.44	\$2,626.34	\$67.99	\$5,663.21	\$2,831.60	\$18.43
7301102NV-5CA	100	\$883.47	\$273.97	\$2,073.86	\$67.99	\$3,299.29	\$1,649.64	\$27.50
7301908NV-756	75	\$3,105.42	\$919.72	\$3,672.00	\$67.99	\$7,765.14	\$3,882.57	\$16.92
880308NV-D3C	75	\$2,881.01	\$990.46	\$3,490.58	\$67.99	\$7,430.05	\$3,715.03	\$17.22
8803164NV-3C6	75	\$3,614.78	\$1,023.02	\$3,638.70	\$67.99	\$8,344.49	\$4,172.25	\$21.38
8803165NV-F83	50	\$1,985.23	\$534.53	\$2,074.40	\$67.99	\$4,662.15	\$2,331.08	\$20.85
744611NV-08F	300	\$11,785.74	\$3,332.30	\$7,595.92	\$67.99	\$22,781.95	\$11,390.98	\$45.56
9003603NV-336	300	\$12,644.67	\$4,234.31	\$9,091.31	\$67.99	\$26,038.29	\$13,019.14	\$19.36
9003051NV-DBD	300	\$15,230.51	\$4,381.84	\$9,576.75	\$67.99	\$29,257.10	\$14,628.55	\$20.90
7757907NV-783	300	\$10,194.59	\$3,607.99	\$8,059.16	\$67.99	\$21,929.73	\$10,964.87	\$24.37
7757994NV-4A4	200	\$5,853.19	\$2,010.30	\$4,927.80	\$67.99	\$12,859.29	\$6,429.64	\$36.72
744610NV-CCA	150	\$3,195.92	\$1,296.89	\$3,638.80	\$67.99	\$8,199.60	(\$9.08)	\$56.15
880336NV-95F	300	\$12,963.34	\$5,160.64	\$10,601.20	\$67.99	\$28,793.17	(\$20,873.70)	\$56.15
880303NV-3E8	300	\$3,645.30	\$1,345.98	\$6,437.94	\$67.99	\$11,497.22	\$5,748.61	\$20.64
880321NV-E38	200	\$4,506.26	\$1,601.79	\$5,422.21	\$67.99	\$11,598.25	\$5,799.12	\$17.19
8665382NV-F7A	150	\$7,150.30	\$2,886.95	\$5,242.71	\$67.99	\$15,347.96	(\$6,101.25)	\$56.15
721876NV-1C6	200	\$1,769.02	\$497.68	\$3,835.93	\$67.99	\$6,170.63	\$3,085.31	\$50.64
750191NV-4A6	150	\$3,486.45	\$1,274.03	\$4,303.77	\$67.99	\$9,132.24	(\$1,963.42)	\$56.15
880317NV-84F	300	\$5,337.34	\$868.70	\$5,950.13	\$67.99	\$12,224.16	\$6,112.08	\$36.86

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
8365737NV-155	500	\$10,774.07	\$3,684.95	\$11,643.20	\$67.99	\$26,170.21	\$13,085.10	\$23.49
9003244NV-058	300	\$8,808.47	\$2,872.59	\$8,615.75	\$67.99	\$20,364.82	\$10,182.41	\$17.18
7447592NV-D72	150	\$1,999.47	\$397.94	\$3,088.07	\$67.99	\$5,553.48	\$2,776.74	\$36.41
743312NV-D2A	150	\$3,375.08	\$1,397.66	\$3,378.37	\$67.99	\$8,219.11	\$2,476.52	\$56.15
8665408NV-7A3	150	\$3,319.65	\$1,378.01	\$3,319.97	\$67.99	\$8,085.63	\$3,152.28	\$56.15
9003243NV-D92	200	\$5,795.24	\$2,520.90	\$6,065.26	\$67.99	\$14,449.39	(\$11,040.23)	\$56.15
880361NV-C9D	500	\$15,854.14	\$4,582.11	\$14,331.36	\$67.99	\$34,835.60	\$17,417.80	\$16.50
7302979NV-CAE	150	\$5,235.62	\$2,107.43	\$4,435.65	\$67.99	\$11,846.69	(\$2,212.38)	\$56.15
744655NV-320	200	\$4,069.70	\$1,147.74	\$5,196.20	\$67.99	\$10,481.64	\$5,240.82	\$20.34
7341276NV-90B	200	\$2,874.25	\$814.03	\$4,592.03	\$67.99	\$8,348.31	\$4,174.16	\$24.04
7341272NV-801	150	\$2,672.76	\$615.34	\$3,527.79	\$67.99	\$6,883.89	\$3,441.94	\$25.97
880316NV-40A	300	\$3,859.21	\$1,231.04	\$6,417.11	\$67.99	\$11,575.35	\$5,787.68	\$29.77
900325NV-47B	500	\$28,244.08	\$7,949.44	\$18,567.34	\$67.99	\$54,828.85	\$27,414.42	\$15.22
8509962NV-AA6	75	\$740.22	\$236.96	\$2,098.46	\$67.99	\$3,143.63	\$1,571.81	\$25.78
7317032NV-617	200	\$6,677.16	\$1,775.48	\$5,355.50	\$67.99	\$13,876.13	\$6,938.07	\$26.78
9003573NV-568	200	\$5,978.45	\$2,446.55	\$5,196.38	\$67.99	\$13,689.38	(\$232.83)	\$56.15
880375NV-73A	300	\$3,637.50	\$1,588.56	\$5,433.14	\$67.99	\$10,727.19	\$4,188.14	\$56.15
880309NV-179	300	\$5,185.03	\$1,604.20	\$6,842.98	\$67.99	\$13,700.21	\$6,850.10	\$21.13
8144266NV-0A8	200	\$4,183.72	\$2,101.88	\$5,504.95	\$67.99	\$11,858.55	\$5,929.27	\$21.42
880329NV-C2C	1000	\$38,563.19	\$11,615.04	\$34,749.07	\$67.99	\$84,995.29	\$42,497.65	\$21.60
7406951NV-064	50	\$1,575.55	\$426.42	\$1,905.62	\$67.99	\$3,975.59	\$1,987.80	\$25.56
7205085NV-6A2	100	\$2,301.11	\$707.77	\$2,479.82	\$67.99	\$5,556.69	\$2,778.34	\$20.62
8305967NV-D0E	750	\$3,483.42	\$3,965.38	\$14,284.07	\$67.99	\$21,800.88	\$10,900.44	\$76.76
730158NV-F40	50	\$1,299.49	\$513.55	\$2,167.74	\$67.99	\$4,048.77	(\$1,104.83)	\$56.15
7501996NV-A4D	150	\$1,130.34	\$466.44	\$3,339.12	\$67.99	\$5,003.89	(\$1,798.73)	\$56.15
7341792NV-7BE	200	\$3,613.95	\$925.12	\$4,705.63	\$67.99	\$9,312.70	\$4,656.35	\$22.14

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
9003235NV-940	500	\$17,200.72	\$6,217.94	\$15,065.06	\$67.99	\$38,551.71	\$19,275.86	\$19.20
7229001NV-0AF	200	\$2,513.15	\$843.78	\$4,270.63	\$67.99	\$7,695.55	\$3,847.77	\$34.08
880397NV-D05	1000	\$4,984.07	\$1,233.89	\$24,289.11	\$67.99	\$30,575.06	\$15,287.53	\$58.82
880398NV-2DB	500	\$2,086.47	\$435.62	\$8,865.68	\$67.99	\$11,455.76	\$5,727.88	\$56.04
722709NV-6AA	500	\$369.66	\$120.94	\$8,501.93	\$67.99	\$9,060.53	\$4,530.26	\$209.56
724187NV-3BD	150	\$2,887.70	\$1,085.08	\$4,156.23	\$67.99	\$8,197.01	(\$4,568.14)	\$56.15
760737NV-A1C	500	\$12,514.08	\$4,068.97	\$11,621.42	\$67.99	\$28,272.46	\$14,136.23	\$32.43
9003082NV-C3F	75	\$5,104.37	\$1,261.85	\$3,873.88	\$67.99	\$10,308.09	\$5,154.05	\$22.76
836516NV-9C5	200	\$499.58	\$197.84	\$3,851.80	\$67.99	\$4,617.21	\$2,232.54	\$56.15
9003995NV-251	300	\$4,106.30	\$1,694.19	\$6,720.66	\$67.99	\$12,589.15	(\$3,500.01)	\$56.15
835083NV-C88	300	\$566.55	\$1,203.84	\$5,558.36	\$67.99	\$7,396.75	\$3,698.37	\$80.40
825292NV-886	500	\$12,434.78	\$4,590.01	\$12,772.93	\$67.99	\$29,865.72	\$14,932.86	\$23.04
900384NV-021	500	\$15,705.78	\$5,597.70	\$14,335.33	\$67.99	\$35,706.81	\$17,853.40	\$19.73
7302313NV-BC5	75	\$729.14	\$165.23	\$1,911.49	\$67.99	\$2,873.85	\$1,436.93	\$45.79
900383NV-DEB	500	\$5,574.09	\$2,638.86	\$9,971.69	\$67.99	\$18,252.63	\$9,126.32	\$46.90
730262NV-92A	100	\$1,612.86	\$736.07	\$1,915.99	\$67.99	\$4,332.91	\$2,867.41	\$56.15
7350005NV-3D0	75	\$1,214.10	\$507.92	\$2,405.77	\$67.99	\$4,195.79	\$207.39	\$56.15
734360NV-62B	75	\$2,140.68	\$930.10	\$3,473.60	\$67.99	\$6,612.38	(\$5,423.43)	\$56.15
735249NV-D8B	200	\$2,947.69	\$1,200.82	\$4,566.08	\$67.99	\$8,782.58	\$2,206.34	\$56.15
9003053NV-D38	300	\$8,366.98	\$4,088.46	\$8,386.18	\$67.99	\$20,909.61	\$10,454.80	\$21.22
850908NV-B67	750	\$21,227.73	\$6,705.91	\$21,721.87	\$67.99	\$49,723.51	\$24,861.76	\$16.66
734110NV-971	300	\$6,446.82	\$2,028.28	\$6,809.70	\$67.99	\$15,352.80	\$7,676.40	\$24.21
7501257NV-2E9	150	\$1,283.58	\$503.83	\$3,203.41	\$67.99	\$5,058.82	\$894.19	\$56.15
7350693NV-BBE	75	\$888.25	\$363.25	\$2,079.67	\$67.99	\$3,399.16	\$877.42	\$56.15
7447181NV-71E	75	\$1,301.16	\$330.27	\$2,389.16	\$67.99	\$4,088.58	\$2,044.29	\$22.54
900358NV-E7D	200	\$4,071.02	\$1,695.52	\$4,473.45	\$67.99	\$10,307.99	\$3,106.87	\$56.15

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
734460NV-929	200	\$6,543.58	\$1,627.37	\$5,752.76	\$67.99	\$13,991.71	\$6,995.85	\$20.00
724179NV-031	100	\$706.23	\$136.49	\$1,849.21	\$67.99	\$2,759.93	\$1,379.96	\$58.35
8425758NV-FE5	150	\$5,403.24	\$1,850.95	\$4,674.15	\$67.99	\$11,996.34	\$5,998.17	\$19.88
7302953NV-36A	300	\$3,816.25	\$1,025.23	\$6,283.00	\$67.99	\$11,192.48	\$5,596.24	\$25.72
880330NV-8D0	200	\$8,116.91	\$1,902.90	\$5,331.36	\$67.99	\$15,419.17	\$7,709.58	\$26.58
900351NV-02C	200	\$7,787.81	\$2,362.39	\$6,775.98	\$67.99	\$16,994.18	\$8,497.09	\$15.43
7341793NV-BFB	100	\$2,476.40	\$608.09	\$2,362.35	\$67.99	\$5,514.83	\$2,757.42	\$22.95
734188NV-482	300	\$12,356.57	\$3,815.43	\$9,787.48	\$67.99	\$26,027.47	\$13,013.74	\$14.83
800449NV-3FB	75	\$1,480.11	\$604.40	\$2,521.08	\$67.99	\$4,673.58	\$333.88	\$56.15
900308NV-675	1250	\$10,658.61	\$4,614.43	\$33,618.40	\$67.99	\$48,959.43	\$24,479.71	\$35.53
8305981NV-63B	500	\$13,761.46	\$4,694.80	\$12,796.76	\$67.99	\$31,321.01	\$15,660.50	\$27.72
832431NV-6DE	1000	\$3,524.64	\$946.67	\$20,942.74	\$67.99	\$25,482.04	\$12,741.02	\$74.70
8305375NV-D2C	100	\$845.03	\$270.83	\$1,991.41	\$67.99	\$3,175.26	\$1,587.63	\$38.93
760735NV-A99	150	\$2,654.28	\$893.16	\$3,408.66	\$67.99	\$7,024.10	\$3,512.05	\$33.42
900319NV-09D	200	\$5,292.59	\$2,073.48	\$5,711.20	\$67.99	\$13,145.26	(\$4,709.71)	\$56.15
740630NV-71F	150	\$5,548.49	\$1,840.62	\$4,297.48	\$67.99	\$11,754.58	\$5,877.29	\$27.10
9003193NV-3D3	200	\$3,372.26	\$1,464.12	\$3,942.61	\$67.99	\$8,846.99	\$5,807.01	\$56.15
744586NV-1A1	150	\$2,592.92	\$1,114.87	\$2,973.22	\$67.99	\$6,749.00	\$3,765.83	\$56.15
744502NV-5E1	200	\$2,524.69	\$1,074.29	\$3,992.33	\$67.99	\$7,659.31	\$4,672.66	\$56.15
744592NV-A06	200	\$2,481.40	\$1,041.39	\$4,053.99	\$67.99	\$7,644.77	\$4,245.36	\$56.15
731881NV-4FA	200	\$4,578.22	\$1,867.60	\$4,847.84	\$67.99	\$11,361.64	\$1,105.44	\$56.15
8509025NV-CC0	300	\$12,013.91	\$3,106.33	\$8,600.94	\$67.99	\$23,789.18	\$11,894.59	\$16.58
8803032NV-345	150	\$3,594.80	\$802.81	\$3,777.95	\$67.99	\$8,243.56	\$4,121.78	\$24.54
900342NV-641	100	\$7,097.47	\$1,929.43	\$3,698.34	\$67.99	\$12,793.24	\$6,396.62	\$19.78
744608NV-473	300	\$8,216.36	\$2,908.50	\$7,901.80	\$67.99	\$19,094.66	\$9,547.33	\$19.52
933534NV-759	200	\$9,584.43	\$6,758.37	\$4,249.72	\$67.99	\$20,660.51	\$10,330.25	\$28.78

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
931777NV-07B	750	\$24,561.68	\$36,103.10	\$19,513.41	\$67.99	\$80,246.19	\$40,123.09	\$20.95
931749NV-418	300	\$10,998.05	\$6,202.44	\$5,333.39	\$67.99	\$22,601.88	\$11,300.94	\$41.40
931775NV-0FE	150	\$2,345.56	\$4,020.27	\$2,505.32	\$67.99	\$8,939.14	\$6,250.47	\$56.15
930503NV-F8B	100	\$1,615.33	\$1,942.11	\$1,827.44	\$67.99	\$5,452.87	\$2,726.43	\$43.78
930505NV-E04	150	\$4,261.73	\$6,779.48	\$3,905.98	\$67.99	\$15,015.18	(\$2,408.43)	\$56.15
920755NV-4EA	150	\$6,502.81	\$6,853.23	\$3,965.25	\$67.99	\$17,389.28	\$8,694.64	\$24.61
931776NV-C3E	150	\$3,028.15	\$4,992.84	\$2,980.05	\$67.99	\$11,069.04	\$3,470.28	\$56.15
930921NV-E57	200	\$2,288.92	\$3,792.84	\$3,604.85	\$67.99	\$9,754.61	\$4,781.89	\$56.15
931326NV-837	150	\$1,523.10	\$2,500.43	\$2,615.38	\$67.99	\$6,706.90	\$3,540.43	\$56.15
9406013NV-102	500	\$22,519.70	\$21,798.44	\$12,727.25	\$67.99	\$57,113.39	\$28,556.70	\$24.51
9406011NV-187	500	\$20,780.10	\$21,973.62	\$12,245.75	\$67.99	\$55,067.47	\$27,533.74	\$27.87
9408016NV-48D	1750	\$58,667.14	\$86,843.85	\$42,737.69	\$67.99	\$188,316.67	\$94,158.34	\$24.98
931706NV-963	30	\$85.83	\$164.74	\$495.96	\$67.99	\$814.52	\$697.42	\$56.15
931760NV-71C	150	\$2,364.36	\$3,887.90	\$2,760.89	\$67.99	\$9,081.14	\$5,279.43	\$56.15
934525NV-5D1	150	\$1,587.57	\$2,574.00	\$2,820.95	\$67.99	\$7,050.51	\$2,185.60	\$56.15

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 Purchases
Domestic								
Small Domestic (8kVA 1 Phase) - All Peak	ND08P	14	\$1,320.45	\$568.73	\$3,335.86	\$951.93	\$0.52	\$56.15
Small Domestic (8kVA 1 Phase) - With Off Peak	ND08Q	164	\$12,891.66	\$5,694.87	\$30,555.86	\$11,151.13	\$0.36	\$56.15
Standard Domestic (20kVA 1 Phase) - All Peak	ND20P	557	\$105,069.95	\$45,255.05	\$287,129.36	\$37,873.03	\$0.97	\$56.15
Standard Domestic (20kVA 1 Phase) - With Off Peak	ND20Q	11106	\$1,746,034.12	\$771,308.26	\$4,663,760.69	\$755,148.83	\$0.67	\$56.15
10% Fixed Charge Option - All Peak	NDL20P	142	\$20,499.79	\$9,223.92	\$19,453.41	\$9,655.24	\$0.15	\$90.83
10% Fixed Charge Option - With Off Peak	NDL20Q	2191	\$265,814.87	\$121,351.79	\$203,180.11	\$148,976.33	\$0.00	\$90.83
10% Fixed Charge Option (8kVA 1 Phase) - All Peak	NDL08P	3	\$269.67	\$116.98	\$463.71	\$203.98	\$0.15	\$74.95
10% Fixed Charge Option (8kVA 1 Phase) - With Off Peak	NDL08Q	45	\$3,375.82	\$1,499.33	\$4,594.96	\$3,059.76	\$0.00	\$74.95
Non-Domestic Single Phase								
Street Lights (1 Phase)	NS001L	2	\$8.96	\$3.91	\$62.76	\$3.19	\$0.08	\$56.15
1 kVA 1 Phase - All Peak	NS001P	32	\$3,304.39	\$1,347.85	\$10,677.01	\$2,175.83	\$0.38	\$56.15
8 kVA 1 Phase - All Peak	NS008P	152	\$14,336.30	\$6,174.84	\$36,217.94	\$10,335.19	\$0.52	\$56.15
8 kVA 1 Phase - With Off Peak	NS008Q	13	\$1,021.90	\$451.42	\$2,422.11	\$883.93	\$0.36	\$56.15
20 kVA 1 Phase - All Peak	NS020P	285	\$53,761.11	\$23,155.64	\$146,915.38	\$19,378.48	\$0.97	\$56.15
20 kVA 1 Phase - With Off Peak	NS020Q	117	\$18,394.20	\$8,125.61	\$49,132.00	\$7,955.38	\$0.67	\$56.15
Non-Domestic Three Phase								
15 kVA 3 Phase - All Peak	NT015P	55	\$9,726.52	\$4,189.34	\$24,366.71	\$3,739.71	\$0.81	\$56.15
15 kVA 3 Phase - With Off Peak	NT015Q	9	\$1,326.50	\$585.98	\$3,156.04	\$611.95	\$0.52	\$56.15
30 kVA 3 Phase - All Peak	NT030P	526	\$185,468.48	\$81,501.12	\$355,689.38	\$35,765.20	\$1.36	\$56.15
30 kVA 3 Phase - With Off Peak	NT030Q	153	\$45,132.03	\$20,240.72	\$84,444.28	\$10,403.18	\$0.92	\$56.15

Consumer Capacity	Code	Number of Connections	Transpower Charge	Sub transmission Charge	Distribution Charge	PowerNet Overheads	Fixed Charge per Day	Variable Charge per Day MWh Purchases
50 kVA 3 Phase - All Peak	NT050P	273	\$215,719.76	\$93,579.92	\$481,266.56	\$18,562.55	\$2.77	\$56.15
50 kVA 3 Phase - With Off Peak	NT050Q	79	\$52,096.30	\$23,137.99	\$118,430.55	\$5,371.58	\$1.88	\$56.15
75 kVA 3 Phase - All Peak	NT075P	99	\$134,128.97	\$58,940.80	\$293,541.11	\$6,731.47	\$5.68	\$56.15
75 kVA 3 Phase - With Off Peak	NT075Q	16	\$18,134.95	\$8,133.13	\$40,468.33	\$1,087.91	\$4.13	\$56.15
100 kVA 3 Phase - All Peak	NT100P	60	\$129,424.11	\$56,873.33	\$238,911.95	\$4,079.68	\$6.91	\$56.15
100 kVA 3 Phase - With Off Peak	NT100Q	8	\$14,436.53	\$6,474.47	\$27,950.86	\$543.96	\$5.01	\$56.15
EIL Bluff								
Domestic								
Small Domestic (8kVA 1 Phase) - All Peak	BD08P	3	\$282.95	\$555.00	\$281.70	\$203.98	\$0.52	\$56.15
Small Domestic (8kVA 1 Phase) - With Off Peak	BD08Q	6	\$471.65	\$939.36	\$386.89	\$407.97	\$0.36	\$56.15
Standard Domestic (20kVA 1 Phase) - All Peak	BD20P	130	\$24,522.61	\$48,099.68	\$29,476.58	\$8,839.31	\$0.97	\$56.15
Standard Domestic (20kVA 1 Phase) - With Off Peak	BD20Q	591	\$92,914.30	\$185,053.10	\$104,171.26	\$40,184.85	\$0.67	\$56.15
10% Fixed Charge Option - All Peak	BDL20P	55	\$7,940.06	\$16,315.76	(\$5,208.34)	\$3,739.71	\$0.15	\$90.83
10% Fixed Charge Option - With Off Peak	BDL20Q	102	\$12,374.77	\$25,657.05	(\$10,548.76)	\$6,935.46	\$0.00	\$90.83
10% Fixed Charge Option (8kVA 1 Phase) - All Peak	BDL08P	1	\$89.89	\$177.66	\$15.90	\$67.99	\$0.15	\$74.95
10% Fixed Charge Option (8kVA 1 Phase) - With Off Peak	BDL08Q	2	\$150.04	\$300.80	(\$29.95)	\$135.99	\$0.00	\$74.95
Non-Domestic Single Phase								
Street Lights (1 Phase)	BS001L	1	\$4.48	\$8.92	\$23.37	\$2.64	\$0.08	\$56.15
1 kVA 1 Phase - All Peak	BS001P	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.38	\$56.15
8 kVA 1 Phase - All Peak	BS008P	9	\$848.86	\$1,664.99	\$845.11	\$611.95	\$0.52	\$56.15
8 kVA 1 Phase - With Off Peak	BS008Q	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.36	\$56.15
20 kVA 1 Phase - All Peak	BS020P	31	\$5,847.70	\$11,469.92	\$7,029.03	\$2,107.83	\$0.97	\$56.15

Consumer Capacity	Code	Number of Connections	Transpower Charge	Sub transmission Charge	Distribution Charge	PowerNet Overheads	Fixed Charge per Day	Variable Charge per Day MWh Purchases
20 kVA 1 Phase - With Off Peak	BS020Q	2	\$314.43	\$626.24	\$352.53	\$135.99	\$0.67	\$56.15
Non-Domestic Three Phase								
15 kVA 3 Phase - All Peak	BT015P	3	\$530.54	\$1,040.62	\$516.98	\$203.98	\$0.81	\$56.15
15 kVA 3 Phase - With Off Peak	BT015Q	1	\$147.39	\$293.55	\$122.23	\$67.99	\$0.52	\$56.15
30 kVA 3 Phase - All Peak	BT030P	36	\$12,693.66	\$25,435.42	\$4,486.37	\$2,447.81	\$1.36	\$56.15
30 kVA 3 Phase - With Off Peak	BT030Q	7	\$2,064.86	\$4,189.29	\$600.22	\$475.96	\$0.92	\$56.15
50 kVA 3 Phase - All Peak	BT050P	11	\$8,692.01	\$17,179.28	\$5,983.04	\$747.94	\$2.77	\$56.15
50 kVA 3 Phase - With Off Peak	BT050Q	4	\$2,637.79	\$5,288.40	\$1,879.62	\$271.98	\$1.88	\$56.15
75 kVA 3 Phase - All Peak	BT075P	8	\$10,838.70	\$21,718.48	\$6,764.91	\$543.96	\$5.68	\$56.15
75 kVA 3 Phase - With Off Peak	BT075Q	1	\$1,133.43	\$2,299.56	\$738.03	\$67.99	\$4.13	\$56.15
100 kVA 3 Phase - All Peak	BT100P	4	\$8,628.27	\$17,289.24	\$2,429.78	\$271.98	\$6.91	\$56.15
100 kVA 3 Phase - With Off Peak	BT100Q	0	\$0.00	\$0.00	\$0.00	\$0.00	\$5.01	\$56.15