POWERNET
LINE PRICING METHODOLOGY
FOR THE ELECTRICITY INVERCARGILL LIMITED NETWORK
AS AT 1 APRIL 2005

1. INTRODUCTION

1.1 PowerNet Limited (PNL) has a responsibility for the management of the network assets owned by Electricity Invercargill Limited (TPCL).

1.2 The total line charge is based on the following components:

(a) Transmission Grid Asset Management costs (Trans Power)
(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

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 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

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. This customer group is now closed to all domestic ICP’s.

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

Supply
Maintenance

The “supply” part is based on the depreciation and required return on the assets, the latter using the companies weighted average cost of capital.

The “maintenance” part is based on the 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	Contract Capacity	Peak Demand	Total Energy Reading	Winter Peak Reading	Winter Day Reading	Summer Day Reading

	kVA	Reading kVA	MWh	MWh	MWh	MWh
880323NV-EBD	150	77	304	36	109	104
9003081NV-0FF	200	155	476	72	205	212
740649NV-C13	75	66	137	23	64	65
900390NV-B86	300	270	303	39	98	128
880327NV-FB7	200	280	1075	147	384	432
8102959NV-5D5	300	195	534	82	224	190
900350NV-C69	100	91	253	41	118	96
810201NV-DAD	150	66	102	20	47	43
7341266NV-3A6	150	150	290	35	103	132
734355NV-C9C	300	150	393	38	99	177
784100NV-DD5	30	17	62	9	27	28
850948NV-9C2	30	22	83	12	37	38
900327NV-4FE	50	41	200	21	67	72
740385NV-DE7	200	108	359	43	152	188
8509006NV-D55	150	150	400	50	136	190
900360NV-B91	500	407	355	56	206	183
880344NV-C87	300	220	260	33	93	113
8305374NV-169	200	190	142	27	54	53
8803044NV-797	75	23	182	25	60	70
7433294NV-FC6	150	120	123	22	48	49
743331NV-CBF	150	120	109	21	47	43
900330NV-399	500	340	2222	242	799	949
740373NV-C7F	200	112	284	44	120	122
721862NV-A61	50	37	173	21	64	73
8803601NV-E7B	150	154	580	64	161	252
8548111NV-903	75	67	178	29	70	76
734326NV-501	200	100	173	40	101	25
734325NV-9C1	150	60	10	1	3	4
850920NV-426	50	37	77	9	34	36
9003114NV-B53	30	53	125	15	60	62
734165NV-163	750	282	966	164	461	516
722703NV-43B	200	180	118	17	45	55
90030815NV-060	500	52	705	26	74	89
734846NV-9FF	50	40	68	2	6	5
900356NV-DE6	300	240	543	69	172	235
8665558NV-6AF	200	87	233	33	98	86
8803767NV-900	150	146	356	48	115	148
880360NV-0D8	150	100	795	95	238	358
740394NV-B0F	200	140	270	37	92	110
9003071NV-0E8	300	325	1073	140	489	565
7302277NV-C3B	75	39	98	15	45	44
733379NV-6B7	50	9	33	3	11	14

8509026NV-000	500	170	593	77	270	301
7551948NV-7E0	300	163	484	80	214	164
7301627NV-AD2	100	73	156	26	75	56
9003385NV-2F6	150	98	304	49	158	139
9003117NV-793	300	124	797	80	215	244
7403085NV-205	200	95	303	42	121	123
900305NV-92E	750	175	883	72	210	204
744103NV-5A5	750	257	1134	147	462	527
734318NV-162	300	154	255	31	99	103
734470NV-384	300	120	298	44	111	112
754696NV-0EE	300	8	238	2	32	24
831121NV-B96	300	74	150	19	58	63
754690NV-161	150	128	12	3	5	6
9003083NV-07A	500	259	1294	145	484	527
900313NV-20C	300	249	694	108	325	208
880314NV-48F	300	122	200	21	94	116
880363NV-C18	200	106	293	42	143	119
880302NV-FAD	150	152	607	80	284	253
8803047NV-B57	150	98	228	32	102	79
73015753NV-A0E	150	78	298	37	120	118
900337NV-E53	100	47	109	8	31	33
8803625NV-224	100	41	152	17	61	71
9003212NV-9DF	100	50	178	21	70	75
7301102NV-5CA	100	30	104	12	38	42
880308NV-D3C	75	78	226	25	93	105
8803164NV-3C6	75	73	220	33	103	89
8803165NV-F83	50	42	140	18	56	66
9003603NV-336	300	208	645	96	282	257
9003051NV-DBD	300	285	771	122	376	321
7757907NV-783	300	274	545	93	260	209
744610NV-CCA	150	120	48	9	21	19
880336NV-95F	300	359	1097	159	355	473
880303NV-3E8	300	100	330	42	145	160
880321NV-E38	200	111	412	52	182	199
8665382NV-F7A	150	230	572	68	170	259
721876NV-1C6	200	61	98	11	27	63
750191NV-4A6	150	76	193	32	78	79
880317NV-84F	300	107	204	32	88	91
9003244NV-058	300	160	740	105	309	349
7447592NV-D72	150	71	242	34	101	119
7350104NV-691	75	29	51	9	27	23
743312NV-D2A	150	150	152	31	66	60
8665408NV-7A3	150	150	67	8	19	30
9003243NV-D92	200	153	769	62	197	257

880361NV-C9D	500	319	1386	173	532	579
7302979NV-CAE	150	192	196	43	88	77
744655NV-320	200	80	386	47	149	145
7341276NV-90B	200	200	350	45	140	150
7341272NV-801	150	150	290	35	103	132
880316NV-40A	300	99	307	48	123	89
900325NV-47B	500	380	2339	276	880	1018
8803034NV-2CA	200	62	197	30	94	93
9003573NV-568	200	235	300	41	110	140
880375NV-73A	300	240	154	17	44	71
880309NV-179	300	100	382	49	127	157
8144266NV-0A8	200	30	127	15	39	47
880329NV-C2C	1,000	754	2790	330	967	1136
7205085NV-6A2	100	50	216	40	90	78
8305967NV-D0E	750	72	170	28	83	58
730158NV-F40	50	46	152	15	36	80
7501996NV-A4D	150	35	198	21	55	68
7341792NV-7BE	200	80	304	37	129	137
900381NV-D6E	200	190	62	12	26	24
9003235NV-940	500	348	1079	142	382	303
880397NV-D05	1,000	44	213	21	68	85
880398NV-2DB	500	17	50	6	19	21
722709NV-6AA	500	59	125	17	59	59
724187NV-3BD	150	75	244	38	80	115
754608NV-C92	50	50	19	3	7	8
760737NV-A1C	300	213	268	53	119	103
9003082NV-C3F	75	72	196	32	89	94
836516NV-9C5	200	57	71	10	23	35
9003995NV-251	300	141	452	65	159	136
724195NV-995	150	128	57	12	25	18
731878NV-ABC	150	150	134	27	50	61
8305977NV-7A3	200	190	285	54	122	111
825292NV-886	500	233	384	68	213	153
900384NV-021	500	382	1093	173	501	397
900383NV-DEB	500	400	811	81	176	110
730262NV-92A	100	100	131	25	57	51
7350005NV-3D0	75	60	79	16	35	22
734360NV-62B	75	75	339	41	101	153
735249NV-D8B	200	50	230	50	128	27
9003053NV-D38	300	255	759	95	271	253
850908NV-B67	750	273	1661	192	628	691
7501257NV-2E9	150	69	94	17	38	29
7350693NV-BBE	75	68	78	12	29	30
7447181NV-71E	75	25	95	11	39	47

900358NV-E7D	200	190	145	19	48	61
734460NV-929	200	90	400	55	131	148
8425758NV-FE5	150	139	385	61	181	144
7302953NV-36A	300	250	787	122	322	283
880330NV-8D0	200	144	439	57	133	216
900351NV-02C	200	113	739	66	223	252
7341793NV-BFB	100	63	169	25	81	75
7406224NV-B78	100	109	211	39	95	105
734188NV-482	300	224	855	124	364	345
800449NV-3FB	75	54	100	19	43	39
900308NV-675	1,250	204	1022	95	325	325
8305981NV-63B	200	124	188	35	82	70
750123NV-691	200	50	20	3	5	10
9003165NV-24B	100	85	192	30	86	90
832431NV-6DE	1,000	612	765	40	109	80
900319NV-09D	200	180	344	56	138	120
740630NV-71F	150	145	242	50	120	99
9003193NV-3D3	200	190	72	11	26	29
744586NV-1A1	150	143	71	10	24	30
744502NV-5E1	200	160	63	10	23	25
744592NV-A06	200	120	72	11	26	29
731881NV-4FA	200	190	213	30	74	87
8509025NV-CC0	300	70	70	12	25	35
8803032NV-345	150	87	233	37	107	86
931747NV-783	150	60	279	27	74	116
933534NV-759	200	127	322	22	97	208
931777NV-07B	750	401	2666	229	752	1171
931775NV-0FE	150	130	75	10	20	36
930503NV-F8B	150	55	84	11	33	33
930505NV-E04	100	38	12	1	2	4
920755NV-4EA	150	125	573	46	162	256
931776NV-C3E	150	128	208	26	66	90
930921NV-E57	200	150	112	21	48	44
931326NV-837	150	115	85	12	30	36
9406013NV-102	500	314	826	133	349	389
9406011NV-187	500	303	1165	128	425	460
9408016NV-48D	1,750	1301	5822	551	1796	2448
931706NV-963	300	122	151	13	33	80
931760NV-71C	150	120	13	2	6	5
934525NV-5D1	150	75	100	20	30	30

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	5	7	27	3	9	10
Small Domestic (8kVA 1 Phase) - With Off Peak	ND08Q	224	267	1,188	114	358	441
Standard Domestic (20kVA 1 Phase) - All Peak	ND20P	386	1,081	4,095	524	1,372	1,552
Standard Domestic (20kVA 1 Phase) - With Off Peak	ND20Q	13045	31,065	138,377	13,284	41,721	51,396
10% Fixed Charge Option - All Peak	NDL20P	20	56	94	12	32	36
10% Fixed Charge Option - With Off Peak	NDL20Q	239	569	1,127	108	340	419
Non-Domestic Single Phase							
Street Lights (1 Phase)	NS001L	4470	335	996	127	334	377
1 kVA 1 Phase - All Peak	NS001P	272	272	2,423	310	812	918
8 kVA 1 Phase - All Peak	NS008P	106	148	562	72	188	213
8 kVA 1 Phase - With Off Peak	NS008Q	26	31	138	13	42	51
20 kVA 1 Phase - All Peak	NS020P	378	1,059	4,010	513	1,343	1,520
20 kVA 1 Phase - With Off Peak	NS020Q	175	417	1,856	178	560	689
Non-Domestic Three Phase							
15 kVA 3 Phase - All Peak	NT015P	39	102	388	50	130	147
15 kVA 3 Phase - With Off Peak	NT015Q	13	29	129	12	39	48
30 kVA 3 Phase - All Peak	NT030P	487	2,905	7,821	1,001	2,620	2,964
30 kVA 3 Phase - With Off Peak	NT030Q	162	821	2,602	250	784	966
50 kVA 3 Phase - All Peak	NT050P	265	3,263	10,982	1,406	3,679	4,162
50 kVA 3 Phase - With Off Peak	NT050Q	88	921	3,647	350	1,100	1,355
75 kVA 3 Phase - All Peak	NT075P	93	2,131	5,739	735	1,923	2,175
75 kVA 3 Phase - With Off Peak	NT075Q	12	234	741	71	223	275
100 kVA 3 Phase - All Peak	NT100P	41	1,496	4,028	516	1,349	1,527
100 kVA 3 Phase - With Off Peak	NT100Q	7	217	688	66	207	255
EIL Bluff							

Domestic							
Small Domestic (8kVA 1 Phase) - All Peak	BD08P	1	1	5	1	2	2
Small Domestic (8kVA 1 Phase) - With Off Peak	BD08Q	10	12	53	5	16	20
Standard Domestic (20kVA 1 Phase) - All Peak	BD20P	162	454	1,718	220	576	651
Standard Domestic (20kVA 1 Phase) - With Off Peak	BD20Q	664	1,581	7,043	676	2,124	2,616
10% Fixed Charge Option - All Peak	BDL20P	12	34	57	7	19	21
10% Fixed Charge Option - With Off Peak	BDL20Q	16	38	75	7	23	28
Non-Domestic Single Phase							
Street Lights (1 Phase)	BS001L	100	8	22	3	7	8
1 kVA 1 Phase - All Peak	BS001P	20	20	178	23	60	68
8 kVA 1 Phase - All Peak	BS008P	7	10	37	5	12	14
8 kVA 1 Phase - With Off Peak	BS008Q	2	2	11	1	3	4
20 kVA 1 Phase - All Peak	BS020P	35	98	371	48	124	141
20 kVA 1 Phase - With Off Peak	BS020Q	4	10	42	4	13	16
Non-Domestic Three Phase							
15 kVA 3 Phase - All Peak	BT015P	1	3	10	1	3	4
15 kVA 3 Phase - With Off Peak	BT015Q	1	2	10	1	3	4
30 kVA 3 Phase - All Peak	BT030P	39	233	626	80	210	237
30 kVA 3 Phase - With Off Peak	BT030Q	9	46	145	14	44	54
50 kVA 3 Phase - All Peak	BT050P	11	135	456	58	153	173
50 kVA 3 Phase - With Off Peak	BT050Q	5	52	207	20	62	77
75 kVA 3 Phase - All Peak	BT075P	10	229	617	79	207	234
75 kVA 3 Phase - With Off Peak	BT075Q	3	58	185	18	56	69
100 kVA 3 Phase - All Peak	BT100P	2	73	196	25	66	74
100 kVA 3 Phase - With Off Peak	BT100Q	1	31	98	9	30	36

2. TRANSMISSION CHARGES

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

Trans Power transmission charges have two components:

(a) Connection charge
(b) Interconnection charge

2.1 Connection Charge

The Trans Power connection charge is based on the Trans Power 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 $75,885. Electricity Invercargill's share is $44,355.

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) $0.53 per kVA Peak Demand.
(b) $0.25 per Winter Peak MWh.
(c) $0.08 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) $0.45 per kVA Peak Demand
(b) $0.24 per Winter Peak MWh
(c) $0.08 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 12 highest peak demands at the Invercargill point of supply on a rolling 12-month basis.

Electricity Invercargill's share of the Invercargill interconnection charge of $4,381,969 is $2,907,597.

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

Winter Peak Demand	60%
Winter Peak Energy	30%

Winter Day Energy 10%

For individual customers this equates to the following charges:

(a) $29.77 per kVA Winter Peak Demand.
(b) $24.17 per Winter Peak MWh.
(c) $5.06 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:

	Per kVA Peak Demand	Per Winter Peak MWh	Per Winter Day MWh
Electricity Invercargill	$27.98	$25.97	$5.86

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 Trans Power Revenue for Individual Customers

The total Trans Power 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	3	$2,113	$704
50	8	$5,559	$695
75	13	$16,284	$1,253
100	12	$17,598	$1,466
150	40	$92,065	$2,302
200	37	$100,913	$2,727
300	31	$134,067	$4,325
500	15	$113,462	$7,564
750	6	$48,886	$8,148
1000	3	$26,159	$8,720
1250	1	$6,123	$6,123
1750	1	$45,001	$45,001

2.5 Trans Power Revenue for Group Customers

The total Trans Power 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	5	$64.15	$321
Small Domestic (8kVA 1 Phase) - With Off Peak	ND08Q	224	$53.68	$12,024
Standard Domestic (20kVA 1 Phase) - All Peak	ND20P	386	$128.30	$49,523
Standard Domestic (20kVA 1 Phase) - With Off Peak	ND20Q	13045	$107.36	$1,400,464
10% Fixed Charge Option - All Peak	NDL20P	20	$101.28	$2,026
10% Fixed Charge Option - With Off Peak	NDL20Q	239	$85.33	$20,394
Non-Domestic Single Phase				
Street Lights (1 Phase)	NS001L	4470	$3.15	$14,097
1 kVA 1 Phase - All Peak	NS001P	272	$69.28	$18,845
8 kVA 1 Phase - All Peak	NS008P	106	$64.15	$6,800
8 kVA 1 Phase - With Off Peak	NS008Q	26	$53.68	$1,396
20 kVA 1 Phase - All Peak	NS020P	378	$128.30	$48,496
20 kVA 1 Phase - With Off Peak	NS020Q	175	$107.36	$18,787
				$0
Non-Domestic Three Phase				
15 kVA 3 Phase - All Peak	NT015P	39	$120.28	$4,691
15 kVA 3 Phase - With Off Peak	NT015Q	13	$100.65	$1,308
30 kVA 3 Phase - All Peak	NT030P	487	$243.24	$118,456
30 kVA 3 Phase - With Off Peak	NT030Q	162	$204.18	$33,078
50 kVA 3 Phase - All Peak	NT050P	265	$540.14	$143,138
50 kVA 3 Phase - With Off Peak	NT050Q	88	$452.50	$39,820
75 kVA 3 Phase - All Peak	NT075P	93	$934.61	$86,919
75 kVA 3 Phase - With Off Peak	NT075Q	12	$784.55	$9,415
100 kVA 3 Phase - All Peak	NT100P	41	$1,488.01	$61,009
100 kVA 3 Phase - With Off Peak	NT100Q	7	$1,249.10	$8,744
EIL Bluff				
Domestic				
Small Domestic (8kVA 1 Phase) - All Peak	BD08P	1	$64.15	$64

Small Domestic (8kVA 1 Phase) - With Off Peak	BD08Q	10	$53.68	$537
Standard Domestic (20kVA 1 Phase) - All Peak	BD20P	162	$128.30	$20,784
Standard Domestic (20kVA 1 Phase) - With Off Peak	BD20Q	664	$107.36	$71,285
10% Fixed Charge Option - All Peak	BDL20P	12	$101.28	$1,215
10% Fixed Charge Option - With Off Peak	BDL20Q	16	$85.33	$1,365
Non-Domestic Single Phase				
Street Lights (1 Phase)	BS001L	100	$3.15	$315
1 kVA 1 Phase - All Peak	BS001P	20	$69.28	$1,386
8 kVA 1 Phase - All Peak	BS008P	7	$64.15	$449
8 kVA 1 Phase - With Off Peak	BS008Q	2	$53.68	$107
20 kVA 1 Phase - All Peak	BS020P	35	$128.30	$4,490
20 kVA 1 Phase - With Off Peak	BS020Q	4	$107.36	$429
Non-Domestic Three Phase				
15 kVA 3 Phase - All Peak	BT015P	1	$120.28	$120
15 kVA 3 Phase - With Off Peak	BT015Q	1	$100.65	$101
30 kVA 3 Phase - All Peak	BT030P	39	$243.24	$9,486
30 kVA 3 Phase - With Off Peak	BT030Q	9	$204.18	$1,838
50 kVA 3 Phase - All Peak	BT050P	11	$540.14	$5,942
50 kVA 3 Phase - With Off Peak	BT050Q	5	$452.50	$2,262
75 kVA 3 Phase - All Peak	BT075P	10	$934.61	$9,346
75 kVA 3 Phase - With Off Peak	BT075Q	3	$784.55	$2,354
100 kVA 3 Phase - All Peak	BT100P	2	$1,488.01	$2,976
100 kVA 3 Phase - With Off Peak	BT100Q	1	$1,249.10	$1,249

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 $770,990 and for the 33kV line and cables is $350,450 giving a total supply charge for EIL City of $1,121,440.

As EIL also wheels power for Bluff through The Power Company Limited 33kV line and Bluff zone substation there is a supply charge of $269,630 for this zone substation and subtransmission lines.

The supply charge totalling $1,121,440 for EIL City and $269,630 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 $247,287 and for EIL Bluff total $58,669.

The total subtransmission maintenance charges of $305,956 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 1.5:1.0. 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	$14.20 per kVA Winter Peak Demand
(b)	Subtransmission Supply charge	$6.92 per Winter Peak MWh
(c)	Subtransmission Supply charge	$2.18 per Winter Day MWh
(d)	Subtransmission Maintenance charge	$0.53 per Domestic Total MWh
(e)	Subtransmission Maintenance charge	$0.53 per Commercial Total MWh
(f)	Subtransmission Maintenance charge	$2.24 per kVA Winter Peak Demand

EIL Bluff

(a)	Subtransmission Supply charge	$57.19 per kVA Winter Peak Demand
(b)	Subtransmission Supply charge	$14.98 per Winter Peak MWh
(c)	Subtransmission Supply charge	$4.76 per Winter Day MWh
(d)	Subtransmission Maintenance charge	$1.03 per Domestic Total MWh
(e)	Subtransmission Maintenance charge	$1.03 per Commercial Total MWh
(f)	Subtransmission Maintenance charge	$8.89 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	$13.58 per kVA Winter Peak Demand
(b)	Subtransmission Supply charge	$7.54 per Winter Peak MWh
(c)	Subtransmission Supply charge	$2.54 per Winter Day MWh
(d)	Subtransmission Maintenance charge	$0.51 per Domestic Total MWh
(e)	Subtransmission Maintenance charge	$0.51 per Commercial Total MWh
(f)	Subtransmission Maintenance charge	$2.07 per kVA Winter Peak Demand

EIL Bluff

(a)	Subtransmission Supply charge	$72.13 per kVA Winter Peak Demand
(b)	Subtransmission Supply charge	$15.42 per Winter Peak MWh
(c)	Subtransmission Supply charge	$6.17 per Winter Day MWh
(d)	Subtransmission Maintenance charge	$1.03 per Domestic Total MWh
(e)	Subtransmission Maintenance charge	$1.03 per Commercial Total MWh
(f)	Subtransmission Maintenance charge	$7.41 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	$5,046,480
EIL Bluff	$210,270

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	$741,861
EIL Bluff	$117,136

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 1.5:1.0. 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	$630,810
EIL Maintenance	$195,227

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	$27.38 per kVA Contract Capacity
(b)	Distribution Supply charge	$31.12 per Winter Peak MWh
(c)	Distribution Supply charge	$6.01 per Winter Day MWh
(d)	Distribution Maintenance charge	$1.59 per Commercial Total MWh
(e)	Distribution Maintenance charge	$2.88 per kVA Contract Capacity

EIL Bluff

(a)	Distribution Supply charge	$16.35 per kVA Contract Capacity
(b)	Distribution Supply charge	$11.68 per Winter Peak MWh
(c)	Distribution Supply charge	$2.27 per Winter Day MWh
(d)	Distribution Maintenance charge	$2.06 per Commercial Total MWh
(e)	Distribution Maintenance charge	$6.51 per kVA Contract Capacity

Transformer Charges

(a)	Distribution Transformer supply charge	$300.16 per Transformer
(b)	Distribution Transformer maintenance charge	$503.16 per Transformer

The Transformer charge of $300.16 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	$30.33 per kVA Contract Capacity
(b)	Distribution Supply charge	$46.22 per Winter Peak MWh
(c)	Distribution Supply charge	$11.55 per Winter Day MWh
(d)	Distribution Maintenance charge	$1.70 per Domestic Total MWh
(e)	Distribution Maintenance charge	$1.70 per Commercial Total MWh
(f)	Distribution Maintenance charge	$3.10 per kVA Contract Capacity
(g)	Distribution Transformer charge	$4.64 per kVA Contract Capacity

EIL Bluff

(a)	Distribution Supply charge	$17.11 per kVA Contract Capacity
(b)	Distribution Supply charge	$25.76 per Winter Peak MWh
(c)	Distribution Supply charge	$6.72 per Winter Day MWh
(d)	Distribution Maintenance charge	$3.68 per Domestic Total MWh
(e)	Distribution Maintenance charge	$3.68 per Commercial Total MWh
(f)	Distribution Maintenance charge	$6.50 per kVA Contract Capacity
(g)	Distribution Transformer charge	$4.64 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 $750,097

The charge per customer is $37.53
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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	$998	$3,838	$113	$9,784
50	$2,768	$13,020	$300	$16,089
75	$7,685	$34,496	$488	$42,669
100	$8,952	$28,363	$450	$37,765
150	$57,549	$136,485	$1,501	$195,536
200	$54,384	$169,819	$1,389	$225,591
300	$68,125	$207,467	$1,164	$276,756
500	$69,747	$168,456	$563	$238,766
750	$36,708	$95,093	$225	$132,027
1000	$13,494	$71,545	$113	$85,152
1250	$3,177	$29,260	$38	$32,475
1750	$62,476	$36,149	$38	$98,662

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	5	$163	$901	$188	$1,251
Small Domestic (8kVA 1 Phase) - With Off Peak	ND08Q	224	$6,256	$33,574	$8,407	$48,237
Standard Domestic (20kVA 1 Phase) - All Peak	ND20P	386	$25,103	$155,006	$14,488	$194,596
Standard Domestic (20kVA 1 Phase) - With Off Peak	ND20Q	13045	$728,629	$4,196,141	$489,614	$5,414,384
10% Fixed Charge Option - All Peak	NDL20P	20	$1,065	$2,695	$751	$4,511
10% Fixed Charge Option - With Off Peak	NDL20Q	239	$10,882	$19,850	$8,970	$39,703
Non-Domestic Single Phase						
Street Lights (1 Phase)	NS001L	4470	$7,236	$89,435	$3,938	$100,609
1 kVA 1 Phase - All Peak	NS001P	272	$9,096	$71,876	$10,209	$91,181
8 kVA 1 Phase - All Peak	NS008P	106	$3,447	$19,095	$3,978	$26,521
8 kVA 1 Phase - With Off Peak	NS008Q	26	$726	$3,897	$976	$5,599
20 kVA 1 Phase - All Peak	NS020P	378	$24,583	$151,793	$14,187	$190,563
20 kVA 1 Phase - With Off Peak	NS020Q	175	$9,775	$56,292	$6,568	$72,635
Non-Domestic Three Phase						
15 kVA 3 Phase - All Peak	NT015P	39	$2,378	$13,310	$1,464	$17,151
15 kVA 3 Phase - With Off Peak	NT015Q	13	$681	$3,565	$488	$4,734
30 kVA 3 Phase - All Peak	NT030P	487	$61,086	$253,084	$18,278	$332,449
30 kVA 3 Phase - With Off Peak	NT030Q	162	$17,413	$67,865	$6,080	$91,359
50 kVA 3 Phase - All Peak	NT050P	265	$73,007	$350,758	$9,946	$433,711
50 kVA 3 Phase - With Off Peak	NT050Q	88	$20,805	$98,556	$3,303	$122,664
75 kVA 3 Phase - All Peak	NT075P	93	$44,823	$207,734	$3,491	$256,048
75 kVA 3 Phase - With Off Peak	NT075Q	12	$4,956	$22,686	$450	$28,093
100 kVA 3 Phase - All Peak	NT100P	41	$31,461	$121,738	$1,539	$154,739
100 kVA 3 Phase - With Off Peak	NT100Q	7	$4,603	$18,129	$263	$22,995
EIL Bluff						
Domestic						
Small Domestic (8kVA 1 Phase) - All Peak	BD08P	1	$134	$79	$38	$250
Small Domestic (8kVA 1 Phase) - With Off Peak	BD08Q	10	$1,147	$631	$375	$2,153
Standard Domestic (20kVA 1 Phase) - All Peak	BD20P	162	$43,456	$32,134	$6,080	$81,670
Standard Domestic (20kVA 1 Phase) - With Off Peak	BD20Q	664	$152,379	$98,295	$24,922	$275,596
10% Fixed Charge Option - All Peak	BDL20P	12	$2,916	$2,380	$450	$5,747
10% Fixed Charge Option - With Off Peak	BDL20Q	16	$3,315	$2,369	$601	$6,285

Non-Domestic Single Phase						
Street Lights (1 Phase)	BS001L	100	$692	$1,413	$145	$2,251
1 kVA 1 Phase - All Peak	BS001P	20	$2,354	$3,600	$751	$6,704
8 kVA 1 Phase - All Peak	BS008P	7	$939	$550	$263	$1,751
8 kVA 1 Phase - With Off Peak	BS008Q	2	$229	$126	$75	$431
20 kVA 1 Phase - All Peak	BS020P	35	$9,389	$6,943	$1,314	$17,645
20 kVA 1 Phase - With Off Peak	BS020Q	4	$918	$592	$150	$1,660
Non-Domestic Three Phase						
15 kVA 3 Phase - All Peak	BT015P	1	$251	$151	$38	$440
15 kVA 3 Phase - With Off Peak	BT015Q	1	$215	$111	$38	$364
30 kVA 3 Phase - All Peak	BT030P	39	$21,184	$3,976	$1,464	$26,623
30 kVA 3 Phase - With Off Peak	BT030Q	9	$4,175	$562	$338	$5,075
50 kVA 3 Phase - All Peak	BT050P	13	$15,039	$5,750	$488	$21,276
50 kVA 3 Phase - With Off Peak	BT050Q	5	$4,945	$1,837	$188	$6,970
75 kVA 3 Phase - All Peak	BT075P	10	$20,871	$6,286	$375	$27,532
75 kVA 3 Phase - With Off Peak	BT075Q	3	$5,348	$1,563	$113	$7,023
100 kVA 3 Phase - All Peak	BT100P	2	$6,646	$827	$75	$7,548
100 kVA 3 Phase - With Off Peak	BT100Q	1	$2,838	$409	$38	$3,285

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 $49.14 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 $49.14. This method of calculating the fixed charge accounts for the fact that some installations have negative fixed charges.

The Variable Charge of $49.14 per MWh of daytime sales equates to $46.92per 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	3	$7,061	$2,354
50	8	$21,648	$2,706
75	13	$58,954	$4,535
100	12	$55,363	$4,614
150	40	$287,601	$7,190
200	37	$326,504	$8,824
300	31	$410,823	$13,252
500	15	$352,228	$23,482
750	6	$180,913	$30,152
1000	3	$111,310	$37,103
1250	1	$38,598	$38,598
1750	1	$143,663	$143,663

9.3 Line Charge Revenue for Group Customers

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

Consumer Capacity	Code	Number of Connections	Fixed Charge per Day	Variable Charge per Day MWh Sales	Line Charge Revenue per Consumer Group
Domestic					
Small Domestic (8kVA 1 Phase) - All Peak	ND08P	5	$0.44	$49.14	$1,572
Small Domestic (8kVA 1 Phase) - With Off Peak	ND08Q	224	$0.30	$49.14	$60,261
Standard Domestic (20kVA 1 Phase) - All Peak	ND20P	386	$0.81	$49.14	$242,202
Standard Domestic (20kVA 1 Phase) - With Off Peak	ND20Q	13045	$0.56	$49.14	$6,804,538
10% Fixed Charge Option - All Peak	NDL20P	20	$0.15	$83.01	$6,536
10% Fixed Charge Option - With Off Peak	NDL20Q	239	$0.00	$83.01	$60,097
Non-Domestic Single Phase					
Street Lights (1 Phase)	NS001L	4470	$0.06	$49.14	$114,707
1 kVA 1 Phase - All Peak	NS001P	272	$0.31	$49.14	$110,026
8 kVA 1 Phase - All Peak	NS008P	106	$0.44	$49.14	$33,320
8 kVA 1 Phase - With Off Peak	NS008Q	26	$0.30	$49.14	$6,995
20 kVA 1 Phase - All Peak	NS020P	378	$0.81	$49.14	$237,182
20 kVA 1 Phase - With Off Peak	NS020Q	175	$0.56	$49.14	$91,284
Non-Domestic Three Phase					
15 kVA 3 Phase - All Peak	NT015P	39	$0.67	$49.14	$21,282
15 kVA 3 Phase - With Off Peak	NT015Q	13	$0.44	$49.14	$6,042
30 kVA 3 Phase - All Peak	NT030P	487	$1.13	$49.14	$447,201
30 kVA 3 Phase - With Off Peak	NT030Q	162	$0.77	$49.14	$124,436
50 kVA 3 Phase - All Peak	NT050P	265	$2.31	$49.14	$576,850
50 kVA 3 Phase - With Off Peak	NT050Q	88	$1.57	$49.14	$160,638
75 kVA 3 Phase - All Peak	NT075P	93	$4.75	$49.14	$342,966
75 kVA 3 Phase - With Off Peak	NT075Q	12	$3.45	$49.14	$37,508
100 kVA 3 Phase - All Peak	NT100P	41	$5.78	$49.14	$210,485
100 kVA 3 Phase - With Off Peak	NT100Q	7	$4.19	$49.14	$31,739
EIL Bluff					
Domestic					
Small Domestic (8kVA 1 Phase) - All Peak	BD08P	1	$0.44	$49.14	$314
Small Domestic (8kVA 1 Phase) - With Off Peak	BD08Q	10	$0.30	$49.14	$2,690
Standard Domestic (20kVA 1 Phase) - All Peak	BD20P	162	$0.81	$49.14	$101,650
Standard Domestic (20kVA 1 Phase) - With Off Peak	BD20Q	664	$0.56	$49.14	$346,356

10% Fixed Charge Option - All Peak	BDL20P	12	$0.15	$83.01	$3,922
10% Fixed Charge Option - With Off Peak	BDL20Q	16	$0.00	$83.01	$4,023
Non-Domestic Single Phase					
Street Lights (1 Phase)	BS001L	100	$0.06	$49.14	$2,566
1 kVA 1 Phase - All Peak	BS001P	20	$0.31	$49.14	$8,090
8 kVA 1 Phase - All Peak	BS008P	7	$0.44	$49.14	$2,200
8 kVA 1 Phase - With Off Peak	BS008Q	2	$0.30	$49.14	$538
20 kVA 1 Phase - All Peak	BS020P	35	$0.81	$49.14	$21,961
20 kVA 1 Phase - With Off Peak	BS020Q	4	$0.56	$49.14	$2,086
Non-Domestic Three Phase					
15 kVA 3 Phase - All Peak	BT015P	1	$0.67	$49.14	$560
15 kVA 3 Phase - With Off Peak	BT015Q	1	$0.44	$49.14	$465
30 kVA 3 Phase - All Peak	BT030P	39	$1.13	$49.14	$36,109
30 kVA 3 Phase - With Off Peak	BT030Q	9	$0.77	$49.14	$6,913
50 kVA 3 Phase - All Peak	BT050P	13	$2.31	$49.14	$28,298
50 kVA 3 Phase - With Off Peak	BT050Q	5	$1.57	$49.14	$9,232
75 kVA 3 Phase - All Peak	BT075P	10	$4.75	$49.14	$36,878
75 kVA 3 Phase - With Off Peak	BT075Q	3	$3.45	$49.14	$9,377
100 kVA 3 Phase - All Peak	BT100P	2	$5.78	$49.14	$10,524
100 kVA 3 Phase - With Off Peak	BT100Q	1	$4.19	$49.14	$4,534

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 Overhead Charge	Total Line Charge	Fixed Charge per annum	Variable Charge per Day MWh
880323NV-EBD	150	$1,907	$940	$3,732	$38	$6,617	$3,309	$15.58
9003081NV-0FF	200	$4,376	$2,120	$5,761	$38	$12,294	$6,147	$14.75
740649NV-C13	75	$1,404	$664	$2,696	$38	$4,801	$2,401	$18.59
900390NV-B86	300	$4,469	$2,348	$5,770	$38	$12,625	$1,582	$46.92
880327NV-FB7	200	$8,530	$4,186	$8,284	$38	$21,038	($18,863)	$46.92
8102959NV-5D5	300	$3,736	$1,726	$7,188	$38	$12,687	$6,344	$15.33
900350NV-C69	100	$2,477	$1,168	$2,961	$38	$6,644	$3,322	$15.48
810201NV-DAD	150	$1,213	$577	$3,035	$38	$4,863	$2,431	$26.86
7341266NV-3A6	150	$3,010	$1,552	$3,689	$38	$8,287	$4,144	$17.60
734355NV-C9C	300	$2,346	$1,225	$5,849	$38	$9,457	($4,009)	$46.92
784100NV-DD5	30	$445	$203	$1,057	$38	$1,743	$871	$15.70
850948NV-9C2	30	$592	$271	$1,230	$38	$2,130	$1,065	$14.23
900327NV-4FE	50	$1,118	$546	$2,253	$38	$3,955	$1,977	$14.23
740385NV-DE7	200	$2,461	$1,204	$4,967	$38	$8,670	$4,335	$12.73
8509006NV-D55	150	$3,492	$1,767	$4,172	$38	$9,468	$4,734	$14.52
900360NV-B91	500	$7,603	$3,944	$9,458	$38	$21,042	$10,521	$27.00
880344NV-C87	300	$3,819	$2,003	$5,610	$38	$11,469	$1,400	$46.92
8305374NV-169	200	$2,974	$1,530	$4,101	$38	$8,643	$3,407	$46.92
8803044NV-797	75	$1,007	$452	$2,700	$38	$4,198	($2,158)	$46.92
7433294NV-FC6	150	$2,005	$1,016	$3,093	$38	$6,150	$1,405	$46.92
743331NV-CBF	150	$1,972	$998	$3,053	$38	$6,061	$1,686	$46.92
900330NV-399	500	$13,570	$6,775	$16,685	$38	$37,068	$18,534	$10.60
740373NV-C7F	200	$2,808	$1,372	$4,772	$38	$8,989	$4,495	$18.58
721862NV-A61	50	$1,055	$502	$2,177	$38	$3,772	$1,886	$13.81

8803601NV-E7B	150	$3,961	$2,027	$4,679	$38	$10,704	($9,458)	$46.92
8548111NV-903	75	$1,587	$743	$2,974	$38	$5,341	($1,799)	$46.92
734326NV-501	200	$2,271	$1,046	$4,527	$38	$7,882	$1,681	$46.92
734325NV-9C1	150	$219	$117	$2,467	$38	$2,840	$2,493	$46.92
850920NV-426	50	$627	$307	$1,514	$38	$2,487	$1,243	$17.74
9003114NV-B53	30	$1,076	$524	$1,551	$38	$3,189	$1,594	$13.03
734165NV-163	750	$9,321	$4,409	$16,990	$38	$30,758	$15,379	$15.74
722703NV-43B	200	$2,317	$1,219	$3,879	$38	$7,452	$2,564	$46.92
90030815NV-060	500	$1,246	$882	$8,799	$38	$10,965	$5,482	$33.59
734846NV-9FF	50	$289	$181	$1,058	$38	$1,566	$1,028	$46.92
900356NV-DE6	300	$5,246	$2,682	$6,790	$38	$14,755	($5,127)	$46.92
8665558NV-6AF	200	$2,046	$1,002	$4,455	$38	$7,540	$3,770	$20.57
8803767NV-900	150	$2,847	$1,410	$4,013	$38	$8,307	($4,544)	$46.92
880360NV-0D8	150	$4,129	$2,000	$5,700	$38	$11,866	($17,235)	$46.92
740394NV-B0F	200	$2,168	$1,068	$4,540	$38	$7,813	($2,051)	$46.92
9003071NV-0E8	300	$9,599	$4,755	$9,718	$38	$24,109	$12,055	$11.44
7302277NV-C3B	75	$837	$391	$2,295	$38	$3,561	$1,780	$19.92
733379NV-6B7	50	$177	$89	$1,126	$38	$1,429	$714	$28.34
8509026NV-000	500	$5,022	$2,472	$10,294	$38	$17,825	$8,912	$15.59
7551948NV-7E0	300	$4,690	$2,244	$7,077	$38	$14,049	$7,024	$18.59
7301627NV-AD2	100	$1,624	$770	$2,447	$38	$4,878	$2,439	$18.67
9003385NV-2F6	150	$2,895	$1,372	$4,149	$38	$8,454	$4,227	$14.21
9003117NV-793	300	$4,207	$2,151	$7,392	$38	$13,788	$6,894	$15.02
7403085NV-205	200	$2,489	$1,216	$4,765	$38	$8,507	$4,254	$17.46
900305NV-92E	750	$4,648	$2,498	$14,422	$38	$21,606	$10,803	$26.12
744103NV-5A5	750	$8,625	$4,223	$16,881	$38	$29,766	$14,883	$15.05
734318NV-162	300	$1,379	$654	$5,595	$38	$7,666	$3,833	$18.97
734470NV-384	300	$1,643	$737	$5,898	$38	$8,315	($2,595)	$46.92
754696NV-0EE	300	$244	$237	$4,842	$38	$5,361	$2,680	$48.29
831121NV-B96	300	$1,348	$681	$5,126	$38	$7,193	$3,597	$29.85

754690NV-161	150	$1,398	$761	$2,504	$38	$4,701	$4,163	$46.92
9003083NV-07A	500	$8,730	$4,370	$12,933	$38	$26,071	$13,035	$12.89
900313NV-20C	300	$6,991	$3,396	$8,176	$38	$18,600	$9,300	$17.44
880314NV-48F	300	$2,340	$1,219	$5,367	$38	$8,963	$4,482	$21.32
880363NV-C18	200	$2,811	$1,374	$4,847	$38	$9,070	$4,535	$17.25
880302NV-FAD	150	$4,918	$2,398	$5,440	$38	$12,793	$6,397	$11.92
8803047NV-B57	150	$2,243	$1,109	$3,575	$38	$6,964	$3,482	$19.22
73015753NV-A0E	150	$2,129	$1,040	$3,803	$38	$7,009	$3,505	$14.70
900337NV-E53	100	$667	$359	$1,934	$38	$2,998	$1,499	$23.48
8803625NV-224	100	$1,002	$484	$2,249	$38	$3,773	$1,886	$14.31
9003212NV-9DF	100	$1,237	$596	$2,381	$38	$4,252	$2,126	$14.61
7301102NV-5CA	100	$661	$319	$2,028	$38	$3,045	$1,523	$18.93
880308NV-D3C	75	$1,795	$892	$3,103	$38	$5,828	$2,914	$14.71
8803164NV-3C6	75	$1,963	$922	$3,378	$38	$6,302	$3,151	$16.39
8803165NV-F83	50	$1,006	$477	$2,014	$38	$3,536	$1,768	$14.42
9003603NV-336	300	$5,970	$2,901	$7,770	$38	$16,679	$8,339	$15.47
9003051NV-DBD	300	$8,041	$3,906	$8,673	$38	$20,658	$10,329	$14.82
7757907NV-783	300	$6,688	$3,276	$7,534	$38	$17,536	$8,768	$18.69
744610NV-CCA	150	$1,303	$681	$2,703	$38	$4,725	$2,780	$46.92
880336NV-95F	300	$9,766	$4,829	$9,527	$38	$24,160	($16,293)	$46.92
880303NV-3E8	300	$2,710	$1,338	$6,030	$38	$10,115	$5,058	$16.61
880321NV-E38	200	$3,311	$1,629	$5,287	$38	$10,265	$5,133	$13.49
8665382NV-F7A	150	$5,080	$2,613	$4,770	$38	$12,501	($8,445)	$46.92
721876NV-1C6	200	$858	$446	$3,691	$38	$5,033	$2,517	$27.96
750191NV-4A6	150	$1,760	$838	$3,443	$38	$6,079	($1,602)	$46.92
880317NV-84F	300	$2,331	$1,154	$5,521	$38	$9,044	$4,522	$25.23
9003244NV-058	300	$5,677	$2,719	$8,116	$38	$16,549	$8,275	$12.58
7447592NV-D72	150	$1,848	$890	$3,609	$38	$6,384	$3,192	$14.50
7350104NV-691	75	$522	$240	$1,943	$38	$2,743	$1,372	$27.42
743312NV-D2A	150	$2,727	$1,366	$3,339	$38	$7,469	$1,302	$46.92

8665408NV-7A3	150	$2,006	$1,090	$2,695	$38	$5,828	$3,436	$46.92
9003243NV-D92	200	$4,103	$2,200	$5,862	$38	$12,202	($9,981)	$46.92
880361NV-C9D	500	$10,423	$5,154	$13,680	$38	$29,294	$14,647	$13.18
7302979NV-CAE	150	$3,626	$1,801	$3,664	$38	$9,129	$1,050	$46.92
744655NV-320	200	$2,499	$1,220	$5,037	$38	$8,794	$4,397	$14.98
7341276NV-90B	200	$4,052	$2,079	$4,940	$38	$11,108	$5,554	$19.15
7341272NV-801	150	$3,010	$1,552	$3,689	$38	$8,287	$4,144	$17.60
880316NV-40A	300	$2,694	$1,294	$6,017	$38	$10,042	$5,021	$23.60
900325NV-47B	500	$15,306	$7,540	$17,675	$38	$40,559	$20,279	$10.68
8803034NV-2CA	200	$1,611	$762	$4,356	$38	$6,767	$3,383	$18.16
9003573NV-568	200	$4,275	$2,218	$4,707	$38	$11,237	($980)	$46.92
880375NV-73A	300	$3,498	$1,896	$5,052	$38	$10,483	$4,869	$46.92
880309NV-179	300	$2,756	$1,360	$6,126	$38	$10,280	($3,601)	$46.92
8144266NV-0A8	200	$683	$333	$3,832	$38	$4,886	$677	$46.92
880329NV-C2C	1000	$23,416	$11,910	$32,124	$38	$67,487	$33,744	$16.04
7205085NV-6A2	100	$1,706	$741	$2,706	$38	$5,191	($3,034)	$46.92
8305967NV-D0E	750	$1,651	$786	$12,498	$38	$14,972	$7,486	$53.11
730158NV-F40	50	$846	$431	$1,813	$38	$3,127	($2,527)	$46.92
7501996NV-A4D	150	$941	$469	$3,179	$38	$4,626	($1,385)	$46.92
7341792NV-7BE	200	$2,199	$1,079	$4,723	$38	$8,038	$4,019	$15.11
900381NV-D6E	200	$2,515	$1,342	$3,664	$38	$7,558	$5,085	$46.92
9003235NV-940	500	$9,396	$4,702	$12,269	$38	$26,404	$13,202	$19.29
880397NV-D05	1000	$1,054	$531	$20,993	$38	$22,616	$11,308	$73.73
880398NV-2DB	500	$308	$151	$7,603	$38	$8,100	$4,050	$102.04
722709NV-6AA	500	$1,124	$553	$8,013	$38	$9,727	$4,864	$41.15
724187NV-3BD	150	$1,879	$894	$3,600	$38	$6,410	($3,113)	$46.92
754608NV-C92	50	$439	$235	$1,065	$38	$1,777	$1,058	$46.92
760737NV-A1C	300	$4,272	$2,119	$6,045	$38	$12,474	$1,605	$46.92
9003082NV-C3F	75	$1,844	$860	$3,222	$38	$5,963	$2,981	$16.23
836516NV-9C5	200	$702	$353	$3,632	$38	$4,725	$1,893	$46.92

9003995NV-251	300	$3,809	$1,865	$6,582	$38	$12,293	($2,151)	$46.92
724195NV-995	150	$1,617	$840	$2,774	$38	$5,269	$3,161	$46.92
731878NV-ABC	150	$2,559	$1,298	$3,193	$38	$7,087	$1,662	$46.92
8305977NV-7A3	200	$4,010	$1,974	$4,952	$38	$10,973	($447)	$46.92
825292NV-886	500	$5,363	$2,634	$9,717	$38	$17,752	$8,876	$24.21
900384NV-021	500	$11,195	$5,438	$13,263	$38	$29,934	$14,967	$16.68
900383NV-DEB	500	$7,839	$4,195	$10,206	$38	$22,278	$11,139	$38.95
730262NV-92A	100	$1,894	$928	$2,338	$38	$5,198	($80)	$46.92
7350005NV-3D0	75	$941	$439	$2,120	$38	$3,537	$742	$46.92
734360NV-62B	75	$2,045	$983	$3,665	$38	$6,730	($5,672)	$46.92
735249NV-D8B	200	$2,070	$888	$4,853	$38	$7,848	$215	$46.92
9003053NV-D38	300	$6,516	$3,283	$7,818	$38	$17,655	$8,828	$16.83
850908NV-B67	750	$10,665	$5,265	$18,798	$38	$34,766	$17,383	$13.18
7501257NV-2E9	150	$1,142	$558	$2,943	$38	$4,680	$1,398	$46.92
7350693NV-BBE	75	$732	$352	$1,968	$38	$3,090	$229	$46.92
7447181NV-71E	75	$607	$289	$2,144	$38	$3,078	$1,539	$17.91
900358NV-E7D	200	$2,779	$1,477	$3,950	$38	$8,244	$2,917	$46.92
734460NV-929	200	$2,593	$1,241	$5,118	$38	$8,989	($4,653)	$46.92
8425758NV-FE5	150	$3,809	$1,841	$4,501	$38	$10,189	$5,094	$15.71
7302953NV-36A	300	$7,278	$3,521	$8,491	$38	$19,327	$9,663	$15.99
880330NV-8D0	200	$3,543	$1,776	$5,197	$38	$10,554	($6,481)	$46.92
900351NV-02C	200	$3,839	$1,993	$6,003	$38	$11,873	$5,936	$12.51
7341793NV-BFB	100	$1,511	$717	$2,464	$38	$4,730	$2,365	$15.19
7406224NV-B78	100	$2,595	$1,241	$2,801	$38	$6,674	$3,337	$16.67
734188NV-482	300	$7,181	$3,470	$8,745	$38	$19,433	$9,717	$13.69
800449NV-3FB	75	$999	$457	$2,289	$38	$3,782	($232)	$46.92
900308NV-675	1250	$6,123	$3,177	$29,260	$38	$38,598	$19,299	$29.71
8305981NV-63B	200	$2,574	$1,266	$4,387	$38	$8,264	$822	$46.92
750123NV-691	200	$450	$239	$3,396	$38	$4,123	$2,062	$137.45
9003165NV-24B	100	$1,959	$938	$2,602	$38	$5,537	$2,769	$15.73

832431NV-6DE	1000	$1,689	$1,052	$18,428	$38	$21,207	$10,603	$56.21
900319NV-09D	200	$3,549	$1,730	$5,105	$38	$10,421	($2,210)	$46.92
740630NV-71F	150	$3,348	$1,608	$3,954	$38	$8,947	$4,474	$20.37
9003193NV-3D3	200	$2,498	$1,343	$3,661	$38	$7,539	$4,850	$46.92
744586NV-1A1	150	$1,899	$1,017	$2,751	$38	$5,706	$3,067	$46.92
744502NV-5E1	200	$1,796	$956	$3,624	$38	$6,413	$4,066	$46.92
744592NV-A06	200	$1,735	$919	$3,661	$38	$6,352	$3,663	$46.92
731881NV-4FA	200	$3,143	$1,632	$4,299	$38	$9,113	$1,242	$46.92
8509025NV-CC0	300	$984	$495	$4,811	$38	$6,328	$3,164	$52.73
8803032NV-345	150	$1,825	$845	$3,683	$38	$6,391	$3,195	$16.55
931747NV-783	150	$1,417	$1,921	$2,820	$38	$6,196	$3,098	$16.32
933534NV-759	200	$2,419	$3,559	$3,667	$38	$9,682	$4,841	$15.89
931777NV-07B	750	$13,976	$19,527	$15,504	$38	$49,045	$24,522	$12.75
931775NV-0FE	150	$1,804	$2,530	$2,373	$38	$6,745	$4,013	$46.92
930503NV-F8B	150	$815	$1,073	$2,408	$38	$4,334	$2,167	$32.53
930505NV-E04	100	$262	$691	$1,453	$38	$2,443	$2,151	$46.92
920755NV-4EA	150	$3,249	$4,620	$3,456	$38	$11,362	$5,681	$13.58
931776NV-C3E	150	$2,353	$3,175	$2,713	$38	$8,279	$658	$46.92
930921NV-E57	200	$1,856	$2,391	$3,318	$38	$7,602	$3,111	$46.92
931326NV-837	150	$1,168	$1,565	$2,413	$38	$5,184	$1,957	$46.92
9406013NV-102	500	$7,645	$9,369	$8,667	$38	$25,718	$12,859	$17.43
9406011NV-187	500	$8,690	$11,570	$9,194	$38	$29,491	$14,746	$16.66
9408016NV-48D	1750	$45,001	$62,476	$36,149	$38	$143,663	$71,832	$16.93
931706NV-963	300	$1,838	$2,643	$4,212	$38	$8,730	$3,224	$46.92
931760NV-71C	150	$1,300	$1,861	$2,225	$38	$5,424	$4,902	$46.92
934525NV-5D1	150	$1,243	$1,520	$2,482	$38	$5,282	$2,347	$46.92

10.2 Line Charge Breakdown for Group Customers

Consumer Capacity	Code	Number of Connections	TransPower Charge	Sub transmission Charge	Distribution Charge	PowerNet Overheads	Fixed Charge per Day	Variable Charge per Day MWh Sales
Domestic								
Small Domestic (8kVA 1 Phase) - All Peak	ND08P	5	$321	$163	$901	$188	$0.44	$49.14
Small Domestic (8kVA 1 Phase) - With Off Peak	ND08Q	224	$12,024	$6,256	$33,574	$8,407	$0.30	$49.14
Standard Domestic (20kVA 1 Phase) - All Peak	ND20P	386	$49,523	$25,103	$155,006	$14,488	$0.81	$49.14
Standard Domestic (20kVA 1 Phase) - With Off Peak	ND20Q	13045	$1,400,464	$728,629	$4,196,141	$489,614	$0.56	$49.14
10% Fixed Charge Option - All Peak	NDL20P	20	$2,026	$1,065	$2,695	$751	$0.15	$83.01
10% Fixed Charge Option - With Off Peak	NDL20Q	239	$20,394	$10,882	$19,850	$8,970	$0.00	$83.01
Non-Domestic Single Phase								
Street Lights (1 Phase)	NS001L	4470	$14,097	$7,236	$89,435	$3,938	$0.06	$49.14
1 kVA 1 Phase - All Peak	NS001P	272	$18,845	$9,096	$71,876	$10,209	$0.31	$49.14
8 kVA 1 Phase - All Peak	NS008P	106	$6,800	$3,447	$19,095	$3,978	$0.44	$49.14
8 kVA 1 Phase - With Off Peak	NS008Q	26	$1,396	$726	$3,897	$976	$0.30	$49.14
20 kVA 1 Phase - All Peak	NS020P	378	$48,496	$24,583	$151,793	$14,187	$0.81	$49.14
20 kVA 1 Phase - With Off Peak	NS020Q	175	$18,787	$9,775	$56,292	$6,568	$0.56	$49.14
Non-Domestic Three Phase								
15 kVA 3 Phase - All Peak	NT015P	39	$4,691	$2,378	$13,310	$1,464	$0.67	$49.14
15 kVA 3 Phase - With Off Peak	NT015Q	13	$1,308	$681	$3,565	$488	$0.44	$49.14
30 kVA 3 Phase - All Peak	NT030P	487	$118,456	$61,086	$253,084	$18,278	$1.13	$49.14
30 kVA 3 Phase - With Off Peak	NT030Q	162	$33,078	$17,413	$67,865	$6,080	$0.77	$49.14
50 kVA 3 Phase - All Peak	NT050P	265	$143,138	$73,007	$350,758	$9,946	$2.31	$49.14

50 kVA 3 Phase - With Off Peak	NT050Q	88	$39,820	$20,805	$98,556	$3,303	$1.57	$49.14
75 kVA 3 Phase - All Peak	NT075P	93	$86,919	$44,823	$207,734	$3,491	$4.75	$49.14
75 kVA 3 Phase - With Off Peak	NT075Q	12	$9,415	$4,956	$22,686	$450	$3.45	$49.14
100 kVA 3 Phase - All Peak	NT100P	41	$61,009	$31,461	$121,738	$1,539	$5.78	$49.14
100 kVA 3 Phase - With Off Peak	NT100Q	7	$8,744	$4,603	$18,129	$263	$4.19	$49.14
EIL Bluff								
Domestic								
Small Domestic (8kVA 1 Phase) - All Peak	BD08P	1	$64	$134	$79	$38	$0.44	$49.14
Small Domestic (8kVA 1 Phase) - With Off Peak	BD08Q	10	$537	$1,147	$631	$375	$0.30	$49.14
Standard Domestic (20kVA 1 Phase) - All Peak	BD20P	162	$20,784	$43,456	$32,134	$6,080	$0.81	$49.14
Standard Domestic (20kVA 1 Phase) - With Off Peak	BD20Q	664	$71,285	$152,379	$98,295	$24,922	$0.56	$49.14
10% Fixed Charge Option - All Peak	BDL20P	12	$1,215	$2,916	$2,380	$450	$0.15	$83.01
10% Fixed Charge Option - With Off Peak	BDL20Q	16	$1,365	$3,315	$2,369	$601	$0.00	$83.01
Non-Domestic Single Phase								
Street Lights (1 Phase)	BS001L	100	$315	$692	$1,413	$145	$0.06	$49.14
1 kVA 1 Phase - All Peak	BS001P	20	$1,386	$2,354	$3,600	$751	$0.31	$49.14
8 kVA 1 Phase - All Peak	BS008P	7	$449	$939	$550	$263	$0.44	$49.14
8 kVA 1 Phase - With Off Peak	BS008Q	2	$107	$229	$126	$75	$0.30	$49.14
20 kVA 1 Phase - All Peak	BS020P	35	$4,490	$9,389	$6,943	$1,314	$0.81	$49.14
20 kVA 1 Phase - With Off Peak	BS020Q	4	$429	$918	$592	$150	$0.56	$49.14
Non-Domestic Three Phase								
15 kVA 3 Phase - All Peak	BT015P	1	$120	$251	$151	$38	$0.67	$49.14
15 kVA 3 Phase - With Off Peak	BT015Q	1	$101	$215	$111	$38	$0.44	$49.14
30 kVA 3 Phase - All Peak	BT030P	39	$9,486	$21,184	$3,976	$1,464	$1.13	$49.14
30 kVA 3 Phase - With Off Peak	BT030Q	9	$1,838	$4,175	$562	$338	$0.77	$49.14
50 kVA 3 Phase - All Peak	BT050P	13	$7,022	$15,039	$5,750	$488	$2.31	$49.14
50 kVA 3 Phase - With Off Peak	BT050Q	5	$2,262	$4,945	$1,837	$188	$1.57	$49.14

75 kVA 3 Phase - All Peak	BT075P	10	$9,346	$20,871	$6,286	$375	$4.75	$49.14
75 kVA 3 Phase - With Off Peak	BT075Q	3	$2,354	$5,348	$1,563	$113	$3.45	$49.14
100 kVA 3 Phase - All Peak	BT100P	2	$2,976	$6,646	$827	$75	$5.78	$49.14
100 kVA 3 Phase - With Off Peak	BT100Q	1	$1,249	$2,838	$409	$38	$4.19	$49.14