

# **POWERNET LIMITED LINE PRICING METHODOLOGY FOR THE ELECTRICITY INVERCARGILL LIMITED NETWORK AS AT 1 APRIL 2007**

## **1. INTRODUCTION**

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

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 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.

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 2007 is \$61.27 million. The overall Use Charge of \$8.12 million is made up of the depreciation of \$2.22 million, ownership costs of \$0.70 million and a gross return or net profit before tax of \$5.37 million. The latter equating to 8.8% 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	Contract Capacity kVA	Peak Demand Reading kVA	Total Energy Reading MWh	Winter Peak Reading MWh	Winter Day Reading MWh	Summer Day Reading MWh
880323NV-EBD	150	32	124	18	45	42
9003081NV-OFF	200	146	441	65	157	198
740649NV-C13	75	73	129	25	51	62
900390NV-B86	300	270	291	57	133	158
880327NV-FB7	300	279	1146	148	394	476
8102959NV-5D5	300	253	604	97	223	207
900350NV-C69	100	92	235	33	91	90
810201NV-DAD	150	80	102	22	43	42
7341266NV-3A6	150	39	125	15	46	64
734802NV-A50	150	145	412	50	154	160
734355NV-C9C	300	150	485	51	118	216
784100NV-DD5	30	16	63	9	23	28
850948NV-9C2	30	24	98	14	39	43
900327NV-4FE	50	43	220	22	60	82
8803283NV-7B5	150	161	543	63	161	245
740385NV-DE7	200	136	385	49	143	200
9003503NV-035	200	123	288	49	117	72
8509006NV-D55	150	66	305	34	99	140
900360NV-B91	500	399	275	38	124	150
880344NV-C87	300	179	593	89	242	184
8305374NV-169	200	190	172	38	89	82
8803044NV-797	75	75	98	9	21	39
7433294NV-FC6	150	120	186	47	109	77
743331NV-CBF	150	120	265	74	173	92
900330NV-399	500	326	2240	245	667	950
740373NV-C7F	200	110	287	46	103	123



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<b>ICP Number</b>	<b>Contract Capacity kVA</b>	<b>Peak Demand Reading kVA</b>	<b>Total Energy Reading MWh</b>	<b>Winter Peak Reading MWh</b>	<b>Winter Day Reading MWh</b>	<b>Summer Day Reading MWh</b>
721862NV-A61	50	42	151	18	46	70
8803601NV-E7B	150	134	507	55	137	223
8548111NV-903	75	74	181	29	70	77
734326NV-501	200	91	208	44	119	32
734325NV-9C1	150	60	9	2	4	5
850920NV-426	50	10	26	0	0	22
9003382NV-F3C	200	150	112	15	43	65
9003114NV-B53	50	42	118	15	47	60
734165NV-163	750	279	977	160	389	515
8541431NVDF3	150	120	84	16	39	45
722703NV-43B	200	180	127	23	54	72
90030815NV-060	500	96	615	24	62	102
734846NV-9FF	50	40	94	2	4	5
900356NV-DE6	300	240	458	74	171	287
8665558NV-6AF	200	94	160	28	63	60
8803767NV-900	150	168	599	83	200	238
880360NV-0D8	150	100	860	92	215	377
740394NV-B0F	200	140	278	57	133	145
9003071NV-0E8	300	349	1036	124	421	525
733379NV-6B7	50	6	3	0	1	1
8509026NV-000	500	181	624	76	244	330
7551948NV-7E0	300	165	473	77	177	166
7301627NV-AD2	100	74	144	21	61	51
9003385NV-2F6	150	91	302	41	121	131
9003117NV-793	300	225	766	74	185	250
7403085NV-205	200	118	325	44	103	136
900305NV-92E	750	158	1119	52	141	165
900306NV-5EE	750	207	333	53	140	130
744103NV-5A5	750	237	968	118	310	452
734318NV-162	300	189	277	32	88	119
734470NV-384	300	180	147	32	76	45
754696NV-0EE	100	78	233	31	79	41
831121NV-B96	300	54	150	17	48	66
754690NV-161	150	128	47	6	13	5
9003083NV-07A	500	373	1238	142	385	524
900313NV-20C	300	187	575	79	223	168
880314NV-48F	300	128	309	38	124	141
880363NV-C18	200	106	299	43	124	122
880302NV-FAD	150	77	367	45	126	179
8803047NV-B57	150	91	216	30	82	79
73015753NV-A0E	150	80	275	37	98	110
900337NV-E53	100	51	114	11	32	35
8803625NV-224	100	43	142	17	49	66
9003212NV-9DF	100	55	186	24	69	77
7301102NV-5CA	100	34	112	14	36	43
7301908NV-756	75	63	274	34	102	141
880308NV-D3C	75	78	251	28	85	117
8803164NV-3C6	75	74	220	35	92	93
8803165NV-F83	50	43	137	19	48	64
9003603NV-336	300	260	765	106	279	300
9003051NV-DBD	300	323	885	138	357	349
7757907NV-783	300	287	542	94	230	201
7757994NV-4A4	200	150	128	21	56	54
744610NV-CCA	150	120	194	46	107	87
880336NV-95F	300	347	1033	177	380	427
880303NV-3E8	300	93	332	42	122	161
880321NV-E38	200	102	372	49	144	190
8665382NV-F7A	150	230	591	68	158	196
721876NV-1C6	200	74	119	12	31	75
750191NV-4A6	150	92	241	40	95	95
880317NV-84F	300	114	224	32	77	94
9003244NV-058	300	166	739	109	269	355
7447592NV-D72	150	66	191	23	65	97
7350104NV-691	75	32	52	10	25	22
743312NV-D2A	150	150	205	41	97	108



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ICP Number	Contract Capacity kVA	Peak Demand Reading kVA	Total Energy Reading MWh	Winter Peak Reading MWh	Winter Day Reading MWh	Summer Day Reading MWh
8665408NV-7A3	150	150	84	17	41	43
9003243NV-D92	200	119	637	57	176	223
880361NV-C9D	500	340	1472	185	482	609
7302979NV-CAE	150	192	325	72	168	156
744655NV-320	200	81	377	46	124	141
7341276NV-90B	200	85	236	30	85	114
7341272NV-801	150	62	135	18	53	57
880316NV-40A	300	91	291	41	101	84
900325NV-47B	500	403	2505	286	763	1073
8803034NV-2CA	200	58	175	27	71	88
8509962NV-AA6	75	29	97	11	35	46
7317032NV-617	200	165	489	69	195	217
9003573NV-568	200	235	328	49	114	203
880375NV-73A	300	198	154	20	59	83
880309NV-179	300	107	440	58	148	178
8144266NV-0A8	200	27	124	14	37	50
880329NV-C2C	1000	701	2740	341	766	1142
7205085NV-6A2	100	50	213	46	108	105
8305967NV-D0E	750	81	189	34	90	56
730158NV-F40	50	46	107	20	47	60
7501996NV-A4D	150	38	193	21	55	64
7341792NV-7BE	200	79	272	34	101	124
9003235NV-940	500	390	1223	152	415	396
7229001NV-0AF	200	80	82	17	36	29
880397NV-D05	1000	100	510	28	101	303
880398NV-2DB	500	67	234	12	45	118
722709NV-6AA	500	95	232	22	81	120
724187NV-3BD	150	75	244	45	105	139
754608NV-C92	50	50	22	4	9	13
760737NV-A1C	300	314	434	88	196	158
9003082NV-C3F	75	77	178	26	65	93
836516NV-9C5	200	33	55	7	17	28
9003995NV-251	300	176	523	67	160	180
724195NV-995	150	128	134	40	95	39
731878NV-ABC	150	150	129	26	62	66
825292NV-886	500	332	596	112	306	221
900384NV-021	500	377	1182	174	452	454
7302313NV-BC5	75	75	80	14	33	24
900383NV-DEB	500	217	226	47	115	75
730262NV-92A	100	100	51	11	26	24
7350005NV-3D0	75	61	97	15	36	27
734360NV-62B	75	75	368	40	94	152
735249NV-D8B	200	100	192	23	53	79
9003053NV-D38	300	335	826	93	235	281
850908NV-B67	750	350	2099	238	652	857
734110NV-971	300	152	319	52	135	162
7501257NV-2E9	150	67	110	20	45	33
7350693NV-BBE	75	68	93	11	26	26
7447181NV-71E	75	25	98	11	32	50
900358NV-E7D	200	190	131	31	72	59
734460NV-929	200	113	563	63	179	199
724179NV-031	100	63	60	13	29	27
8425758NV-FE5	150	144	380	58	145	135
7302953NV-36A	300	86	318	39	104	134
880330NV-8D0	200	165	426	64	129	206
900351NV-02C	200	94	773	65	190	265
7341793NV-BFB	100	61	154	26	65	67
734188NV-482	300	221	882	129	307	347
800449NV-3FB	75	54	107	20	48	58
900308NV-675	1250	194	963	87	273	314
8305981NV-63B	300	254	472	87	215	178
832431NV-6DE	1000	564	785	49	114	97
760735NV-A99	150	135	123	25	56	49
900319NV-09D	200	180	450	101	234	215
740630NV-71F	150	153	234	53	100	95



ICP Number	Contract Capacity kVA	Peak Demand Reading kVA	Total Energy Reading MWh	Winter Peak Reading MWh	Winter Day Reading MWh	Summer Day Reading MWh
9003193NV-3D3	200	190	73	13	30	42
744586NV-1A1	150	143	73	13	30	43
744502NV-5E1	200	160	69	14	32	36
744592NV-A06	200	120	72	12	29	32
731881NV-4FA	200	190	226	42	98	129
8509025NV-CC0	300	193	815	110	301	448
8803032NV-345	150	93	227	36	94	82
900342NV-641	100	134	327	53	125	153
744608NV-473	300	206	600	82	216	260
933534NV-759	200	156	420	26	68	283
931777NV-07B	750	454	2636	245	678	1093
931775NV-0FE	150	130	63	10	24	39
930503NV-F8B	100	34	50	4	10	28
930505NV-E04	150	117	418	60	127	178
920755NV-4EA	150	128	515	45	135	225
931776NV-C3E	150	128	211	35	81	130
930921NV-E57	200	150	126	23	54	71
931326NV-837	150	115	86	11	26	36
9406013NV-102	500	335	938	153	336	425
9406011NV-187	500	331	1306	146	376	532
9408016NV-48D	1750	1172	5027	512	1364	2080
931706NV-963	300	122	151	13	33	80
931760NV-71C	150	120	108	19	45	62
934525NV-5D1	150	57	93	11	32	23

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
<b>Domestic</b>							
Small Domestic (8kVA 1 Phase) - All Peak	ND08P	5	7	26	5	11	10
Small Domestic (8kVA 1 Phase) - With Off Peak	ND08Q	224	257	1180	167	433	417
Standard Domestic (20kVA 1 Phase) - All Peak	ND20P	386	1043	4066	769	1659	1468
Standard Domestic (20kVA 1 Phase) - With Off Peak	ND20Q	12745	29272	134263	19038	49287	47509
10% Fixed Charge Option - All Peak	NDL20P	43	116	403	76	164	145
10% Fixed Charge Option - With Off Peak	NDL20Q	573	1316	5366	761	1970	1899
10% Fixed Charge Option (8kVA 1 Phase) - All Peak	NDL08P	0	0	0	0	0	0
10% Fixed Charge Option (8kVA 1 Phase) - With Off Peak	NDL08Q	0	0	0	0	0	0
<b>Non-Domestic Single Phase</b>							
Street Lights (1 Phase)	NS001L	4221	317	968	183	395	350
1 kVA 1 Phase - All Peak	NS001P	4	4	37	7	15	13
8 kVA 1 Phase - All Peak	NS008P	106	143	558	106	228	202
8 kVA 1 Phase - With Off Peak	NS008Q	26	30	137	19	50	48
20 kVA 1 Phase - All Peak	NS020P	378	1021	3982	753	1624	1438
20 kVA 1 Phase - With Off Peak	NS020Q	175	402	1844	261	677	652
<b>Non-Domestic Three Phase</b>							
15 kVA 3 Phase - All Peak	NT015P	39	99	385	73	157	139
15 kVA 3 Phase - With Off Peak	NT015Q	13	28	128	18	47	45
30 kVA 3 Phase - All Peak	NT030P	487	2802	7767	1469	3168	2805
30 kVA 3 Phase - With Off Peak	NT030Q	162	792	2584	366	948	914



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
<b>Peak</b>							
50 kVA 3 Phase - All Peak	NT050P	265	3147	10907	2062	4449	3938
50 kVA 3 Phase - With Off Peak	NT050Q	88	888	3622	514	1330	1282
75 kVA 3 Phase - All Peak	NT075P	93	2056	5699	1078	2325	2058
75 kVA 3 Phase - With Off Peak	NT075Q	12	225	735	104	270	260
100 kVA 3 Phase - All Peak	NT100P	41	1443	4000	756	1632	1444
100 kVA 3 Phase - With Off Peak	NT100Q	7	209	683	97	251	242
<b>EIL Bluff</b>							
<b>Domestic</b>							
Small Domestic (8kVA 1 Phase) - All Peak	BD08P	1	1	5	1	2	2
Small Domestic (8kVA 1 Phase) - With Off Peak	BD08Q	10	11	53	7	19	19
Standard Domestic (20kVA 1 Phase) - All Peak	BD20P	162	438	1707	323	696	616
Standard Domestic (20kVA 1 Phase) - With Off Peak	BD20Q	649	1491	6837	969	2510	2419
10% Fixed Charge Option - All Peak	BDL20P	20	54	187	35	76	68
10% Fixed Charge Option - With Off Peak	BDL20Q	30	69	281	40	103	99
10% Fixed Charge Option (8kVA 1 Phase) - All Peak	BDL08P	0	0	0	0	0	0
10% Fixed Charge Option (8kVA 1 Phase) - With Off Peak	BDL08Q	0	0	0	0	0	0
<b>Non-Domestic Single Phase</b>							
Street Lights (1 Phase)	BS001L	352	26	81	15	33	29
1 kVA 1 Phase - All Peak	BS001P	1	1	9	2	4	3
8 kVA 1 Phase - All Peak	BS008P	6	8	32	6	13	11
8 kVA 1 Phase - With Off Peak	BS008Q	2	2	11	1	4	4
20 kVA 1 Phase - All Peak	BS020P	35	95	369	70	150	133
20 kVA 1 Phase - With Off Peak	BS020Q	4	9	42	6	15	15
<b>Non-Domestic Three Phase</b>							
15 kVA 3 Phase - All Peak	BT015P	1	3	10	2	4	4
15 kVA 3 Phase - With Off Peak	BT015Q	1	2	10	1	4	3
30 kVA 3 Phase - All Peak	BT030P	39	224	622	118	254	225
30 kVA 3 Phase - With Off Peak	BT030Q	9	44	144	20	53	51
50 kVA 3 Phase - All Peak	BT050P	11	131	453	86	185	163
50 kVA 3 Phase - With Off Peak	BT050Q	5	50	206	29	76	73
75 kVA 3 Phase - All Peak	BT075P	10	221	613	116	250	221
75 kVA 3 Phase - With Off Peak	BT075Q	3	56	184	26	67	65
100 kVA 3 Phase - All Peak	BT100P	2	70	195	37	80	70
100 kVA 3 Phase - With Off Peak	BT100Q	1	30	98	14	36	35



## 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 \$537,450 and the EVA credit is \$526,089. Electricity Invercargill's share of the connection charge is \$359,935 and of the EVA credit is \$340,327.

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) \$0.23 per kVA Peak Demand.
- (b) \$0.10 per Winter Peak MWh.
- (c) \$0.03 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) \$0.23 per kVA Peak Demand
- (b) \$0.10 per Winter Peak MWh
- (c) \$0.06 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 \$4,733,235 is \$3,235,639.



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) \$32.71 per kVA Winter Peak Demand.
- (b) \$23.58 per Winter Peak MWh.
- (c) \$5.24 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	\$31.17	\$25.66	\$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	\$4,121	\$2,060
50	9	\$24,132	\$2,681
75	15	\$70,326	\$4,688
100	13	\$61,581	\$4,737
150	43	\$342,475	\$7,965
200	37	\$338,534	\$9,150
300	34	\$510,388	\$15,011
500	15	\$383,509	\$25,567
750	7	\$219,036	\$31,291
1000	3	\$116,421	\$38,807
1250	1	\$39,555	\$39,555
1750	1	\$152,871	\$152,871



## 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
<b>Domestic</b>				
Small Domestic (8kVA 1 Phase) - All Peak	ND08P	5	\$74	\$370.91
Small Domestic (8kVA 1 Phase) - With Off Peak	ND08Q	224	\$62	\$13,826.07
Standard Domestic (20kVA 1 Phase) - All Peak	ND20P	386	\$148	\$57,268.30
Standard Domestic (20kVA 1 Phase) - With Off Peak	ND20Q	12745	\$123	\$1,573,332.99
10% Fixed Charge Option - All Peak	NDL20P	43	\$141	\$6,076.15
10% Fixed Charge Option - With Off Peak	NDL20Q	573	\$118	\$67,467.21
10% Fixed Charge Option (8kVA 1 Phase) - All Peak	NDL08P	0	\$74	\$0.00
10% Fixed Charge Option (8kVA 1 Phase) - With Off Peak	NDL08Q	0	\$62	\$0.00
<b>Non-Domestic Single Phase</b>				
Street Lights (1 Phase)	NS001L	4221	\$4	\$15,777.05
1 kVA 1 Phase - All Peak	NS001P	4	\$87	\$346.84
8 kVA 1 Phase - All Peak	NS008P	106	\$74	\$7,863.26
8 kVA 1 Phase - With Off Peak	NS008Q	26	\$62	\$1,604.81
20 kVA 1 Phase - All Peak	NS020P	378	\$148	\$56,081.39
20 kVA 1 Phase - With Off Peak	NS020Q	175	\$123	\$21,603.24
<b>Non-Domestic Three Phase</b>				
15 kVA 3 Phase - All Peak	NT015P	39	\$139	\$5,424.54
15 kVA 3 Phase - With Off Peak	NT015Q	13	\$116	\$1,504.51
30 kVA 3 Phase - All Peak	NT030P	487	\$277	\$134,804.08
30 kVA 3 Phase - With Off Peak	NT030Q	162	\$231	\$37,463.19
50 kVA 3 Phase - All Peak	NT050P	265	\$621	\$164,584.37
50 kVA 3 Phase - With Off Peak	NT050Q	88	\$518	\$45,541.10
75 kVA 3 Phase - All Peak	NT075P	93	\$1,064	\$98,914.52
75 kVA 3 Phase - With Off Peak	NT075Q	12	\$889	\$10,662.87
100 kVA 3 Phase - All Peak	NT100P	41	\$1,693	\$69,428.45
100 kVA 3 Phase - With Off Peak	NT100Q	7	\$1,415	\$9,903.01
<b>EIL Bluff</b>				
<b>Domestic</b>				
Small Domestic (8kVA 1 Phase) - All Peak	BD08P	1	\$74	\$74.18
Small Domestic (8kVA 1 Phase) - With Off Peak	BD08Q	10	\$62	\$617.24
Standard Domestic (20kVA 1 Phase) - All Peak	BD20P	162	\$148	\$24,034.88
Standard Domestic (20kVA 1 Phase) - With Off Peak	BD20Q	649	\$123	\$80,117.15
10% Fixed Charge Option - All Peak	BDL20P	20	\$141	\$2,826.12
10% Fixed Charge Option - With Off Peak	BDL20Q	30	\$118	\$3,532.31
10% Fixed Charge Option (8kVA 1 Phase) - All Peak	BDL08P	0	\$74	\$0.00
10% Fixed Charge Option (8kVA 1 Phase) - With Off Peak	BDL08Q	0	\$62	\$0.00
<b>Non-Domestic Single Phase</b>				
Street Lights (1 Phase)	BS001L	352	\$3.74	\$1,315.69
1 kVA 1 Phase - All Peak	BS001P	1	\$86.71	\$86.71
8 kVA 1 Phase - All Peak	BS008P	6	\$74.18	\$445.09
8 kVA 1 Phase - With Off Peak	BS008Q	2	\$61.72	\$123.45
20 kVA 1 Phase - All Peak	BS020P	35	\$148.36	\$5,192.72
20 kVA 1 Phase - With Off Peak	BS020Q	4	\$123.45	\$493.79
<b>Non-Domestic Three Phase</b>				
15 kVA 3 Phase - All Peak	BT015P	1	\$139	\$139.09
15 kVA 3 Phase - With Off Peak	BT015Q	1	\$116	\$115.73
30 kVA 3 Phase - All Peak	BT030P	39	\$277	\$10,795.40
30 kVA 3 Phase - With Off Peak	BT030Q	9	\$231	\$2,081.29
50 kVA 3 Phase - All Peak	BT050P	11	\$621	\$6,831.80
50 kVA 3 Phase - With Off Peak	BT050Q	5	\$518	\$2,587.56
75 kVA 3 Phase - All Peak	BT075P	10	\$1,064	\$10,635.97
75 kVA 3 Phase - With Off Peak	BT075Q	3	\$889	\$2,665.72
100 kVA 3 Phase - All Peak	BT100P	2	\$1,693	\$3,386.75
100 kVA 3 Phase - With Off Peak	BT100Q	1	\$1,415	\$1,414.72



### 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 \$827,090 and for the 33kV line and cables is \$375,950 giving a total supply charge for EIL City of \$1,203,040.

As EIL also wheels power for Bluff through The Power Company Limited 33kV line and Bluff zone substation there is a supply charge of \$455,446 for this zone substation and subtransmission lines.

The supply charge totalling \$1,203,040 for EIL City and \$455,466 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 \$66,589.

The total subtransmission maintenance charges of \$313,876 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	\$15.23 per kVA Winter Peak Demand
(b)	Subtransmission Supply charge	\$7.42 per Winter Peak MWh
(c)	Subtransmission Supply charge	\$2.33 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	\$57.44 per kVA Winter Peak Demand
(b)	Subtransmission Supply charge	\$25.44 per Winter Peak MWh
(c)	Subtransmission Supply charge	\$7.82 per Winter Day MWh
(d)	Subtransmission Maintenance charge	\$0.97 per Domestic Total MWh
(e)	Subtransmission Maintenance charge	\$1.94 per Commercial Total MWh
(f)	Subtransmission Maintenance charge	\$6.59 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	\$14.54 per kVA Winter Peak Demand
(b)	Subtransmission Supply charge	\$8.29 per Winter Peak MWh
(c)	Subtransmission Supply charge	\$2.63 per Winter Day MWh
(d)	Subtransmission Maintenance charge	\$0.50 per Domestic Total MWh
(e)	Subtransmission Maintenance charge	\$0.50 per Commercial Total MWh
(f)	Subtransmission Maintenance charge	\$2.06 per kVA Winter Peak Demand

*EIL Bluff*

(a)	Subtransmission Supply charge	\$87.99 per kVA Winter Peak Demand
(b)	Subtransmission Supply charge	\$28.30 per Winter Peak MWh
(c)	Subtransmission Supply charge	\$9.02 per Winter Day MWh
(d)	Subtransmission Maintenance charge	\$1.31 per Domestic Total MWh
(e)	Subtransmission Maintenance charge	\$1.31 per Commercial Total MWh
(f)	Subtransmission Maintenance charge	\$6.41 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	\$5,413,680
EIL Bluff	\$225,570

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	\$676,710
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%.
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#### 4.4 Distribution Charges for Individual Customers

##### *EIL City*

(a)	Distribution Supply charge	\$29.38 per kVA Contract Capacity
(b)	Distribution Supply charge	\$33.38 per Winter Peak MWh
(c)	Distribution Supply charge	\$6.45 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	\$17.54 per kVA Contract Capacity
(b)	Distribution Supply charge	\$12.53 per Winter Peak MWh
(c)	Distribution Supply charge	\$2.43 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	\$322.01 per Transformer
(b)	Distribution Transformer maintenance charge	\$503.16 per Transformer



The Transformer charge of \$322.01 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	\$32.22 per kVA Contract Capacity
(b)	Distribution Supply charge	\$33.73 per Winter Peak MWh
(c)	Distribution Supply charge	\$11.41 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	\$3.06 per kVA Contract Capacity
(g)	Distribution Transformer charge	\$4.73 per kVA Contract Capacity

##### *EIL Bluff*

(a)	Distribution Supply charge	\$18.30 per kVA Contract Capacity
(b)	Distribution Supply charge	\$18.92 per Winter Peak MWh
(c)	Distribution Supply charge	\$6.72 per Winter Day MWh
(d)	Distribution Maintenance charge	\$3.73 per Domestic Total MWh
(e)	Distribution Maintenance charge	\$3.73 per Commercial Total MWh
(f)	Distribution Maintenance charge	\$6.50 per kVA Contract Capacity
(g)	Distribution Transformer charge	\$4.73 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 \$37.96.

## 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	\$515	\$2,476	\$75	\$3,066
50	\$3,013	\$14,892	\$338	\$18,242
75	\$9,567	\$41,054	\$563	\$51,184
100	\$10,248	\$31,884	\$488	\$42,620
150	\$74,041	\$160,289	\$1,614	\$235,945
200	\$58,183	\$177,856	\$1,389	\$237,428
300	\$88,748	\$249,993	\$1,276	\$340,018
500	\$85,058	\$177,852	\$563	\$263,472
750	\$49,502	\$114,289	\$263	\$164,054
1000	\$13,898	\$76,071	\$113	\$90,081
1250	\$3,067	\$30,710	\$38	\$33,815
1750	\$76,581	\$35,849	\$38	\$112,468



## 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
<b>Domestic</b>						
Small Domestic (8kVA 1 Phase) - All Peak	ND08P	5	\$182	\$1,096	\$190	\$1,467
Small Domestic (8kVA 1 Phase) - With Off Peak	ND08Q	224	\$6,945	\$38,834	\$8,502	\$54,281
Standard Domestic (20kVA 1 Phase) - All Peak	ND20P	386	\$28,056	\$173,966	\$14,651	\$216,672
Standard Domestic (20kVA 1 Phase) - With Off Peak	ND20Q	12745	\$790,276	\$4,670,303	\$483,747	\$5,944,326
10% Fixed Charge Option - All Peak	NDL20P	43	\$2,992	\$17,445	\$1,632	\$22,070
10% Fixed Charge Option - With Off Peak	NDL20Q	573	\$34,010	\$199,004	\$21,749	\$254,763
10% Fixed Charge Option (8kVA 1 Phase) - All Peak	NDL08P	0	\$0	\$0	\$0	\$0
10% Fixed Charge Option (8kVA 1 Phase) - With Off Peak	NDL08Q	0	\$0	\$0	\$0	\$0
<b>Non-Domestic Single Phase</b>						
Street Lights (1 Phase)	NS001L	4221	\$7,812	\$117,201	\$3,761	\$128,774
1 kVA 1 Phase - All Peak	NS001P	4	\$163	\$1,211	\$152	\$1,526
8 kVA 1 Phase - All Peak	NS008P	106	\$3,852	\$23,229	\$4,023	\$31,104
8 kVA 1 Phase - With Off Peak	NS008Q	26	\$806	\$4,508	\$987	\$6,301
20 kVA 1 Phase - All Peak	NS020P	378	\$27,474	\$170,360	\$14,347	\$212,182
20 kVA 1 Phase - With Off Peak	NS020Q	175	\$10,851	\$64,127	\$6,642	\$81,621
<b>Non-Domestic Three Phase</b>						
15 kVA 3 Phase - All Peak	NT015P	39	\$2,657	\$15,149	\$1,480	\$19,287
15 kVA 3 Phase - With Off Peak	NT015Q	13	\$756	\$3,993	\$493	\$5,242
30 kVA 3 Phase - All Peak	NT030P	487	\$67,027	\$285,726	\$18,484	\$371,237
30 kVA 3 Phase - With Off Peak	NT030Q	162	\$19,007	\$77,129	\$6,149	\$102,285
50 kVA 3 Phase - All Peak	NT050P	265	\$81,056	\$392,893	\$10,058	\$484,008
50 kVA 3 Phase - With Off Peak	NT050Q	88	\$22,957	\$109,916	\$3,340	\$136,213
75 kVA 3 Phase - All Peak	NT075P	93	\$49,182	\$233,862	\$3,530	\$286,574
75 kVA 3 Phase - With Off Peak	NT075Q	12	\$5,410	\$25,514	\$455	\$31,380
100 kVA 3 Phase - All Peak	NT100P	41	\$34,521	\$137,015	\$1,556	\$173,093
100 kVA 3 Phase - With Off Peak	NT100Q	7	\$5,024	\$20,329	\$266	\$25,619
<b>EIL Bluff</b>						
<b>Domestic</b>						
Small Domestic (8kVA 1 Phase) - All Peak	BD08P	1	\$173	\$82	\$38	\$293
Small Domestic (8kVA 1 Phase) - With Off Peak	BD08Q	10	\$1,472	\$572	\$380	\$2,423
Standard Domestic (20kVA 1 Phase) - All Peak	BD20P	162	\$56,069	\$28,717	\$6,149	\$90,935
Standard Domestic (20kVA 1 Phase) - With Off Peak	BD20Q	649	\$191,045	\$87,019	\$24,633	\$302,697
10% Fixed Charge Option - All Peak	BDL20P	20	\$6,720	\$2,786	\$759	\$10,265
10% Fixed Charge Option - With Off Peak	BDL20Q	30	\$8,573	\$3,627	\$1,139	\$13,338



**LINE PRICING METHODOLOGY FOR  
THE ELECTRICITY INVERCARGILL LIMITED NETWORK AS AT 1 APRIL 2007**

<b>Consumer Capacity</b>	<b>Code</b>	<b>Number of Connections</b>	<b>Sub transmission Charge</b>	<b>Distribution Charge</b>	<b>PowerNet Overheads</b>	<b>Total PowerNet Revenue</b>
10% Fixed Charge Option (8kVA 1 Phase) - All Peak	BDL08P	0	\$0	\$0	\$0	\$0
10% Fixed Charge Option (8kVA 1 Phase) - With Off Peak	BDL08Q	0	\$0	\$0	\$0	\$0
<b>Non-Domestic Single Phase</b>						
Street Lights (1 Phase)	BS001L	352	\$3,189.77	\$7,031.17	\$517.85	\$10,739
1 kVA 1 Phase - All Peak	BS001P	1	\$173.65	\$169.96	\$37.96	\$382
8 kVA 1 Phase - All Peak	BS008P	6	\$1,038.32	\$494.57	\$227.73	\$1,761
8 kVA 1 Phase - With Off Peak	BS008Q	2	\$294.37	\$114.38	\$75.91	\$485
20 kVA 1 Phase - All Peak	BS020P	35	\$12,113.76	\$6,204.24	\$1,328.45	\$19,646
20 kVA 1 Phase - With Off Peak	BS020Q	4	\$1,177.47	\$536.32	\$151.82	\$1,866
<b>Non-Domestic Three Phase</b>						
15 kVA 3 Phase - All Peak	BT015P	1	\$324	\$132	\$38	\$495
15 kVA 3 Phase - With Off Peak	BT015Q	1	\$276	\$89	\$38	\$403
30 kVA 3 Phase - All Peak	BT030P	39	\$26,555	\$1,694	\$1,480	\$29,729
30 kVA 3 Phase - With Off Peak	BT030Q	9	\$5,211	\$130	\$342	\$5,682
50 kVA 3 Phase - All Peak	BT050P	11	\$16,245	\$3,429	\$418	\$20,091
50 kVA 3 Phase - With Off Peak	BT050Q	5	\$6,280	\$1,270	\$190	\$7,739
75 kVA 3 Phase - All Peak	BT075P	10	\$26,163	\$4,272	\$380	\$30,814
75 kVA 3 Phase - With Off Peak	BT075Q	3	\$6,675	\$1,056	\$114	\$7,845
100 kVA 3 Phase - All Peak	BT100P	2	\$8,331	\$37	\$76	\$8,444
100 kVA 3 Phase - With Off Peak	BT100Q	1	\$3,542	\$80	\$38	\$3,660



## **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 \$51.64 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 \$51.64. This method of calculating the fixed charge accounts for the fact that some installations have negative fixed charges.

The Variable Charge of \$51.64 per MWh of daytime sales equates to \$49.31 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	\$4,121	\$2,060
50	9	\$24,132	\$2,681
75	15	\$70,326	\$4,688
100	13	\$61,581	\$4,737
150	43	\$342,475	\$7,965
200	37	\$338,534	\$9,150
300	34	\$510,388	\$15,011
500	15	\$383,509	\$25,567
750	7	\$219,036	\$31,291
1000	3	\$116,421	\$38,807
1250	1	\$39,555	\$39,555
1750	1	\$152,871	\$152,871

## 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
<b>Domestic</b>					
Small Domestic (8kVA 1 Phase) - All Peak	ND08P	5	\$0.46	\$51.64	\$1,838.10
Small Domestic (8kVA 1 Phase) - With Off Peak	ND08Q	224	\$0.32	\$51.64	\$68,107.38
Standard Domestic (20kVA 1 Phase) - All Peak	ND20P	386	\$0.85	\$51.64	\$273,940.63
Standard Domestic (20kVA 1 Phase) - With Off Peak	ND20Q	12745	\$0.59	\$51.64	\$7,517,658.89
10% Fixed Charge Option - All Peak	NDL20P	43	\$0.15	\$87.24	\$28,145.85
10% Fixed Charge Option - With Off Peak	NDL20Q	573	\$0.00	\$87.24	\$322,229.87
10% Fixed Charge Option (8kVA 1 Phase) - All Peak	NDL08P	0	\$0.15	\$70.50	\$0.00
10% Fixed Charge Option (8kVA 1 Phase) - With Off Peak	NDL08Q	0	\$0.00	\$70.50	\$0.00
<b>Non-Domestic Single Phase</b>					
Street Lights (1 Phase)	NS001L	4221	\$0.07	\$51.64	\$144,551.00
1 kVA 1 Phase - All Peak	NS001P	4	\$0.33	\$51.64	\$1,873.11
8 kVA 1 Phase - All Peak	NS008P	106	\$0.46	\$51.64	\$38,967.76
8 kVA 1 Phase - With Off Peak	NS008Q	26	\$0.32	\$51.64	\$7,905.32
20 kVA 1 Phase - All Peak	NS020P	378	\$0.85	\$51.64	\$268,263.11
20 kVA 1 Phase - With Off Peak	NS020Q	175	\$0.59	\$51.64	\$103,224.03
<b>Non-Domestic Three Phase</b>					
15 kVA 3 Phase - All Peak	NT015P	39	\$0.71	\$51.64	\$24,711.40
15 kVA 3 Phase - With Off Peak	NT015Q	13	\$0.46	\$51.64	\$6,746.94
30 kVA 3 Phase - All Peak	NT030P	487	\$1.19	\$51.64	\$506,041.34
30 kVA 3 Phase - With Off Peak	NT030Q	162	\$0.81	\$51.64	\$139,747.95
50 kVA 3 Phase - All Peak	NT050P	265	\$2.43	\$51.64	\$648,592.16
50 kVA 3 Phase - With Off Peak	NT050Q	88	\$1.65	\$51.64	\$181,753.73
75 kVA 3 Phase - All Peak	NT075P	93	\$4.99	\$51.64	\$385,488.81
75 kVA 3 Phase - With Off Peak	NT075Q	12	\$3.63	\$51.64	\$42,042.73



Consumer Capacity	Code	Number of Connections	Fixed Charge per Day	Variable Charge per Day MWh Sales	Line Charge Revenue per Consumer Group
100 kVA 3 Phase - All Peak	NT100P	41	\$6.07	\$51.64	\$242,521.20
100 kVA 3 Phase - With Off Peak	NT100Q	7	\$4.40	\$51.64	\$35,522.31
<b>EIL Bluff</b>					
<b>Domestic</b>					
Small Domestic (8kVA 1 Phase) - All Peak	BD08P	1	\$0.46	\$51.64	\$367.62
Small Domestic (8kVA 1 Phase) - With Off Peak	BD08Q	10	\$0.32	\$51.64	\$3,040.51
Standard Domestic (20kVA 1 Phase) - All Peak	BD20P	162	\$0.85	\$51.64	\$114,969.90
Standard Domestic (20kVA 1 Phase) - With Off Peak	BD20Q	649	\$0.59	\$51.64	\$382,813.70
10% Fixed Charge Option - All Peak	BDL20P	20	\$0.15	\$87.24	\$13,091.09
10% Fixed Charge Option - With Off Peak	BDL20Q	30	\$0.00	\$87.24	\$16,870.67
10% Fixed Charge Option (8kVA 1 Phase) - All Peak	BDL08P	0	\$0.15	\$70.50	\$0.00
10% Fixed Charge Option (8kVA 1 Phase) - With Off Peak	BDL08Q	0	\$0.00	\$70.50	\$0.00
<b>Non-Domestic Single Phase</b>					
Street Lights (1 Phase)	BS001L	352	\$0.07	\$51.64	\$12,054.48
1 kVA 1 Phase - All Peak	BS001P	1	\$0.33	\$51.64	\$468.28
8 kVA 1 Phase - All Peak	BS008P	6	\$0.46	\$51.64	\$2,205.72
8 kVA 1 Phase - With Off Peak	BS008Q	2	\$0.32	\$51.64	\$608.10
20 kVA 1 Phase - All Peak	BS020P	35	\$0.85	\$51.64	\$24,839.18
20 kVA 1 Phase - With Off Peak	BS020Q	4	\$0.59	\$51.64	\$2,359.41
<b>Non-Domestic Three Phase</b>					
15 kVA 3 Phase - All Peak	BT015P	1	\$0.71	\$51.64	\$633.63
15 kVA 3 Phase - With Off Peak	BT015Q	1	\$0.46	\$51.64	\$519.00
30 kVA 3 Phase - All Peak	BT030P	39	\$1.19	\$51.64	\$40,524.87
30 kVA 3 Phase - With Off Peak	BT030Q	9	\$0.81	\$51.64	\$7,763.77
50 kVA 3 Phase - All Peak	BT050P	11	\$2.43	\$51.64	\$26,922.69
50 kVA 3 Phase - With Off Peak	BT050Q	5	\$1.65	\$51.64	\$10,326.92
75 kVA 3 Phase - All Peak	BT075P	10	\$4.99	\$51.64	\$41,450.41
75 kVA 3 Phase - With Off Peak	BT075Q	3	\$3.63	\$51.64	\$10,510.68
100 kVA 3 Phase - All Peak	BT100P	2	\$6.07	\$51.64	\$11,830.30
100 kVA 3 Phase - With Off Peak	BT100Q	1	\$4.40	\$51.64	\$5,074.62



## 10. LINE CHARGE TABLES

### 10.1 Line Charge Breakdown for Individual Customers

ICP Number	Contract Capacity kVA	Trans Power Charge	Subtransmission Charge	Distribution Charge	PowerNet Charge	Total Line Charge	Fixed Charge per annum	Variable Charge per Day MWh
880323NV-EBD	150	\$778	\$378	\$3,193	\$38	\$4,386	\$2,193	\$25.21
9003081NV-0FF	200	\$3,984	\$1,996	\$5,731	\$38	\$11,748	\$5,874	\$16.54
740649NV-C13	75	\$1,500	\$726	\$2,814	\$38	\$5,078	\$2,539	\$22.53
900390NV-B86	300	\$5,308	\$2,670	\$6,563	\$38	\$14,579	(\$371)	\$49.31
880327NV-FB7	300	\$8,858	\$4,489	\$10,107	\$38	\$23,491	(\$21,200)	\$49.31
8102959NV-5D5	300	\$4,712	\$2,291	\$7,946	\$38	\$14,987	\$7,494	\$17.44
900350NV-C69	100	\$2,217	\$1,109	\$2,868	\$38	\$6,231	\$3,116	\$17.22
810201NV-DAD	150	\$1,479	\$725	\$3,224	\$38	\$5,466	\$2,733	\$32.22
7341266NV-3A6	150	\$822	\$417	\$3,143	\$38	\$4,419	\$2,210	\$20.24
734802NV-A50	150	\$3,679	\$1,888	\$4,505	\$38	\$10,110	\$5,055	\$16.06
734355NV-C9C	300	\$2,787	\$1,463	\$6,592	\$38	\$10,879	(\$6,245)	\$49.31
784100NV-DD5	30	\$400	\$196	\$1,076	\$38	\$1,710	\$855	\$16.69
850948NV-9C2	30	\$654	\$319	\$1,400	\$38	\$2,411	\$1,205	\$14.79
900327NV-4FE	50	\$1,127	\$585	\$2,408	\$38	\$4,156	\$2,078	\$14.62
8803283NV-7B5	150	\$4,179	\$2,165	\$4,882	\$38	\$11,264	\$5,632	\$13.87
740385NV-DE7	200	\$2,964	\$1,501	\$5,343	\$38	\$9,845	\$4,923	\$14.35
9003503NV-035	200	\$3,150	\$1,557	\$5,138	\$38	\$9,883	\$4,941	\$26.06
8509006NV-D55	150	\$1,823	\$936	\$3,887	\$38	\$6,684	\$3,342	\$14.01
900360NV-B91	500	\$7,181	\$3,761	\$9,313	\$38	\$20,292	\$10,146	\$37.12
880344NV-C87	300	\$5,389	\$2,677	\$7,883	\$38	\$15,987	(\$5,947)	\$49.31
8305374NV-169	200	\$3,580	\$1,789	\$4,711	\$38	\$10,118	\$1,322	\$49.31
8803044NV-797	75	\$915	\$487	\$1,977	\$38	\$3,417	\$341	\$49.31
7433294NV-FC6	150	\$2,945	\$1,404	\$4,029	\$38	\$8,416	(\$1,164)	\$49.31
743331NV-CBF	150	\$3,824	\$1,758	\$4,848	\$38	\$10,467	(\$3,200)	\$49.31
900330NV-399	500	\$12,990	\$6,721	\$17,176	\$38	\$36,924	\$18,462	\$11.42
740373NV-C7F	200	\$2,832	\$1,409	\$5,018	\$38	\$9,297	\$4,649	\$20.51
721862NV-A61	50	\$951	\$480	\$2,080	\$38	\$3,549	\$1,774	\$15.29
8803601NV-E7B	150	\$3,524	\$1,843	\$4,610	\$38	\$10,014	(\$8,452)	\$49.31
8548111NV-903	75	\$1,713	\$841	\$3,154	\$38	\$5,746	(\$1,809)	\$49.31
734326NV-501	200	\$2,374	\$1,120	\$4,977	\$38	\$8,509	\$700	\$49.31
734325NV-9C1	150	\$254	\$130	\$2,625	\$38	\$3,047	\$2,582	\$49.31
850920NV-426	50	\$56	\$43	\$1,017	\$38	\$1,154	\$577	\$26.61
9003382NV-F3C	200	\$2,446	\$1,281	\$4,056	\$38	\$7,821	\$3,910	\$36.21
9003114NV-B53	50	\$880	\$442	\$1,921	\$38	\$3,281	\$1,641	\$15.29
734165NV-163	750	\$9,073	\$4,451	\$17,707	\$38	\$31,268	\$15,634	\$17.29
8541431NVDF3	150	\$2,036	\$1,043	\$3,092	\$38	\$6,208	\$1,892	\$49.31
722703NV-43B	200	\$2,648	\$1,354	\$4,257	\$38	\$8,297	\$1,827	\$49.31



ICP Number	Contract Capacity kVA	Trans Power Charge	Subtransmission Charge	Distribution Charge	PowerNet Charge	Total Line Charge	Fixed Charge per annum	Variable Charge per Day MWh
90030815NV-060	500	\$1,738	\$1,133	\$9,141	\$38	\$12,049	\$6,025	\$36.70
734846NV-9FF	50	\$299	\$197	\$1,145	\$38	\$1,679	\$1,217	\$49.31
900356NV-DE6	300	\$5,592	\$2,816	\$7,188	\$38	\$15,634	(\$7,857)	\$49.31
8665558NV-6AF	200	\$1,957	\$974	\$4,413	\$38	\$7,382	\$3,691	\$29.97
8803767NV-900	150	\$4,308	\$2,149	\$5,455	\$38	\$11,950	(\$10,552)	\$49.31
880360NV-0D8	150	\$3,981	\$2,069	\$5,938	\$38	\$12,026	(\$18,331)	\$49.31
740394NV-B0F	200	\$2,855	\$1,348	\$5,333	\$38	\$9,574	(\$4,714)	\$49.31
9003071NV-0E8	300	\$9,665	\$4,965	\$9,697	\$38	\$24,365	\$12,182	\$12.87
733379NV-6B7	50	\$48	\$25	\$996	\$38	\$1,106	\$553	\$239.76
8509026NV-000	500	\$5,176	\$2,644	\$10,830	\$38	\$18,687	\$9,344	\$16.26
7551948NV-7E0	300	\$4,592	\$2,272	\$7,274	\$38	\$14,176	\$7,088	\$20.69
7301627NV-AD2	100	\$1,492	\$746	\$2,435	\$38	\$4,711	\$2,355	\$21.06
9003385NV-2F6	150	\$2,483	\$1,244	\$4,097	\$38	\$7,862	\$3,931	\$15.65
9003117NV-793	300	\$5,442	\$2,903	\$7,551	\$38	\$15,933	\$7,967	\$18.30
7403085NV-205	200	\$2,901	\$1,477	\$5,023	\$38	\$9,439	\$4,719	\$19.68
900305NV-92E	750	\$3,812	\$2,354	\$14,912	\$38	\$21,116	\$10,558	\$34.49
900306NV-5EE	750	\$4,527	\$2,291	\$14,138	\$38	\$20,994	\$10,497	\$38.78
744103NV-5A5	750	\$7,166	\$3,669	\$16,620	\$38	\$27,492	\$13,746	\$18.03
734318NV-162	300	\$1,406	\$716	\$5,914	\$38	\$8,074	\$4,037	\$19.51
734470NV-384	300	\$1,332	\$606	\$5,743	\$38	\$7,719	\$1,481	\$49.31
754696NV-0EE	100	\$1,753	\$876	\$2,676	\$38	\$5,343	\$2,672	\$22.37
831121NV-B96	300	\$1,051	\$541	\$5,375	\$38	\$7,004	\$3,502	\$30.80
754690NV-161	150	\$1,631	\$865	\$2,771	\$38	\$5,305	\$4,376	\$49.31
9003083NV-07A	500	\$10,206	\$5,297	\$13,193	\$38	\$28,734	\$14,367	\$15.81
900313NV-20C	300	\$5,203	\$2,625	\$7,610	\$38	\$15,476	\$7,738	\$19.79
880314NV-48F	300	\$3,032	\$1,559	\$6,204	\$38	\$10,834	\$5,417	\$20.48
880363NV-C18	200	\$2,819	\$1,413	\$5,069	\$38	\$9,339	\$4,670	\$19.04
880302NV-FAD	150	\$2,336	\$1,183	\$4,239	\$38	\$7,796	\$3,898	\$12.78
8803047NV-B57	150	\$2,055	\$1,037	\$3,656	\$38	\$6,786	\$3,393	\$21.12
73015753NV-AOE	150	\$2,090	\$1,048	\$3,904	\$38	\$7,079	\$3,540	\$17.00
900337NV-E53	100	\$818	\$429	\$2,117	\$38	\$3,401	\$1,701	\$25.49
8803625NV-224	100	\$940	\$477	\$2,306	\$38	\$3,761	\$1,880	\$16.44
9003212NV-9DF	100	\$1,354	\$675	\$2,570	\$38	\$4,637	\$2,319	\$15.96
7301102NV-5CA	100	\$714	\$360	\$2,170	\$38	\$3,281	\$1,640	\$20.96
7301908NV-756	75	\$1,848	\$927	\$3,669	\$38	\$6,481	\$3,240	\$13.32
880308NV-D3C	75	\$1,853	\$949	\$3,361	\$38	\$6,200	\$3,100	\$15.32
8803164NV-3C6	75	\$1,980	\$963	\$3,561	\$38	\$6,542	\$3,271	\$17.66
8803165NV-F83	50	\$978	\$484	\$2,078	\$38	\$3,578	\$1,789	\$16.10
9003603NV-336	300	\$7,110	\$3,597	\$8,505	\$38	\$19,250	\$9,625	\$16.62
9003051NV-DBD	300	\$9,162	\$4,569	\$9,522	\$38	\$23,291	\$11,645	\$16.51
7757907NV-783	300	\$7,020	\$3,505	\$7,863	\$38	\$18,425	\$9,213	\$21.36
7757994NV-4A4	200	\$2,634	\$1,356	\$4,232	\$38	\$8,259	\$4,130	\$37.54



ICP Number	Contract Capacity kVA	Trans Power Charge	Subtransmission Charge	Distribution Charge	PowerNet Charge	Total Line Charge	Fixed Charge per annum	Variable Charge per Day MWh
744610NV-CCA	150	\$2,591	\$1,224	\$4,011	\$38	\$7,864	(\$2,122)	\$49.31
880336NV-95F	300	\$10,425	\$5,130	\$10,440	\$38	\$26,033	(\$15,438)	\$49.31
880303NV-3E8	300	\$2,541	\$1,287	\$6,297	\$38	\$10,163	\$5,081	\$17.97
880321NV-E38	200	\$2,963	\$1,495	\$5,329	\$38	\$9,824	\$4,912	\$14.71
8665382NV-F7A	150	\$5,255	\$2,744	\$5,009	\$38	\$13,046	(\$5,137)	\$49.31
721876NV-1C6	200	\$1,133	\$602	\$3,963	\$38	\$5,735	\$2,868	\$26.94
750191NV-4A6	150	\$2,333	\$1,147	\$3,904	\$38	\$7,422	(\$2,347)	\$49.31
880317NV-84F	300	\$2,483	\$1,263	\$5,830	\$38	\$9,614	\$4,807	\$28.06
9003244NV-058	300	\$5,739	\$2,837	\$8,489	\$38	\$17,103	\$8,552	\$13.72
7447592NV-D72	150	\$1,421	\$725	\$3,438	\$38	\$5,622	\$2,811	\$17.38
7350104NV-691	75	\$548	\$263	\$2,057	\$38	\$2,906	\$1,453	\$31.33
743312NV-D2A	150	\$3,249	\$1,612	\$3,893	\$38	\$8,793	(\$1,742)	\$49.31
8665408NV-7A3	150	\$2,473	\$1,271	\$3,118	\$38	\$6,900	\$2,582	\$49.31
9003243NV-D92	200	\$3,577	\$1,917	\$5,876	\$38	\$11,407	(\$9,085)	\$49.31
880361NV-C9D	500	\$11,035	\$5,619	\$14,587	\$38	\$31,279	\$15,639	\$14.33
7302979NV-CAE	150	\$4,834	\$2,346	\$4,853	\$38	\$12,070	(\$4,595)	\$49.31
744655NV-320	200	\$2,412	\$1,225	\$5,196	\$38	\$8,871	\$4,435	\$16.70
7341276NV-90B	200	\$1,960	\$998	\$4,619	\$38	\$7,615	\$3,808	\$19.09
7341272NV-801	150	\$1,196	\$604	\$3,238	\$38	\$5,075	\$2,538	\$23.12
880316NV-40A	300	\$2,373	\$1,187	\$6,155	\$38	\$9,752	\$4,876	\$26.39
900325NV-47B	500	\$15,593	\$8,022	\$18,558	\$38	\$42,211	\$21,105	\$11.49
8803034NV-2CA	200	\$1,424	\$696	\$4,453	\$38	\$6,610	\$3,305	\$20.70
8509962NV-AA6	75	\$608	\$310	\$2,238	\$38	\$3,193	\$1,597	\$19.69
7317032NV-617	200	\$4,548	\$2,286	\$6,020	\$38	\$12,892	\$6,446	\$15.65
9003573NV-568	200	\$4,717	\$2,421	\$5,165	\$38	\$12,341	(\$3,913)	\$49.31
880375NV-73A	300	\$3,308	\$1,735	\$5,470	\$38	\$10,550	\$3,261	\$49.31
880309NV-179	300	\$3,268	\$1,648	\$6,794	\$38	\$11,747	\$5,874	\$18.02
8144266NV-0A8	200	\$636	\$325	\$4,026	\$38	\$5,025	\$2,512	\$28.88
880329NV-C2C	1000	\$22,370	\$11,515	\$33,390	\$38	\$67,312	\$33,656	\$17.63
7205085NV-6A2	100	\$1,922	\$872	\$3,042	\$38	\$5,873	(\$5,080)	\$49.31
8305967NV-D0E	750	\$1,997	\$970	\$13,451	\$38	\$16,456	\$8,228	\$56.15
730158NV-F40	50	\$1,032	\$491	\$2,060	\$38	\$3,621	(\$1,874)	\$49.31
7501996NV-A4D	150	\$980	\$506	\$3,356	\$38	\$4,881	(\$1,234)	\$49.31
7341792NV-7BE	200	\$2,025	\$1,026	\$4,791	\$38	\$7,879	\$3,940	\$17.53
9003235NV-940	500	\$10,858	\$5,574	\$13,483	\$38	\$29,952	\$14,976	\$18.46
7229001NV-0AF	200	\$1,343	\$668	\$4,023	\$38	\$6,071	\$3,035	\$46.97
880397NV-D05	1000	\$2,098	\$1,231	\$22,889	\$38	\$26,256	\$13,128	\$32.53
880398NV-2DB	500	\$1,097	\$642	\$8,479	\$38	\$10,255	\$5,128	\$31.52
722709NV-6AA	500	\$1,974	\$1,042	\$8,820	\$38	\$11,873	\$5,936	\$29.48
724187NV-3BD	150	\$2,197	\$1,047	\$4,036	\$38	\$7,318	(\$5,211)	\$49.31
754608NV-C92	50	\$518	\$265	\$1,187	\$38	\$2,007	\$877	\$49.31
760737NV-A1C	300	\$7,146	\$3,555	\$7,512	\$38	\$18,250	\$29	\$49.31



ICP Number	Contract Capacity kVA	Trans Power Charge	Subtransmission Charge	Distribution Charge	PowerNet Charge	Total Line Charge	Fixed Charge per annum	Variable Charge per Day MWh
9003082NV-C3F	75	\$1,673	\$833	\$3,038	\$38	\$5,581	\$2,791	\$17.71
836516NV-9C5	200	\$417	\$213	\$3,750	\$38	\$4,417	\$2,109	\$49.31
9003995NV-251	300	\$4,465	\$2,287	\$7,085	\$38	\$13,875	(\$3,597)	\$49.31
724195NV-995	150	\$2,666	\$1,266	\$3,796	\$38	\$7,765	\$847	\$49.31
731878NV-ABC	150	\$2,764	\$1,399	\$3,408	\$38	\$7,609	\$1,030	\$49.31
825292NV-886	500	\$8,509	\$4,210	\$11,688	\$38	\$24,444	\$12,222	\$23.21
900384NV-021	500	\$11,262	\$5,646	\$13,972	\$38	\$30,917	\$15,458	\$17.06
7302313NV-BC5	75	\$1,197	\$599	\$2,289	\$38	\$4,123	\$2,061	\$36.17
0	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0.00
900383NV-DEB	500	\$4,417	\$2,213	\$9,380	\$38	\$16,047	\$8,024	\$42.19
730262NV-92A	100	\$1,513	\$770	\$2,022	\$38	\$4,342	\$1,771	\$49.31
7350005NV-3D0	75	\$963	\$478	\$2,255	\$38	\$3,733	\$489	\$49.31
734360NV-62B	75	\$1,993	\$1,025	\$3,842	\$38	\$6,898	(\$5,721)	\$49.31
735249NV-D8B	200	\$1,922	\$1,001	\$4,318	\$38	\$7,279	\$505	\$49.31
9003053NV-D38	300	\$7,793	\$4,081	\$8,155	\$38	\$20,066	\$10,033	\$19.45
850908NV-B67	750	\$13,177	\$6,781	\$21,303	\$38	\$41,298	\$20,649	\$13.68
734110NV-971	300	\$3,697	\$1,846	\$6,510	\$38	\$12,091	\$6,046	\$20.38
7501257NV-2E9	150	\$1,259	\$619	\$3,213	\$38	\$5,129	\$1,112	\$49.31
7350693NV-BBE	75	\$717	\$368	\$2,062	\$38	\$3,184	\$510	\$49.31
7447181NV-71E	75	\$571	\$289	\$2,236	\$38	\$3,134	\$1,567	\$19.04
900358NV-E7D	200	\$3,356	\$1,687	\$4,481	\$38	\$9,561	\$2,818	\$49.31
734460NV-929	200	\$3,630	\$1,873	\$5,918	\$38	\$11,459	(\$7,967)	\$49.31
724179NV-031	100	\$977	\$479	\$2,075	\$38	\$3,569	\$1,784	\$32.20
8425758NV-FE5	150	\$3,753	\$1,878	\$4,559	\$38	\$10,228	\$5,114	\$18.27
7302953NV-36A	300	\$2,254	\$1,150	\$6,152	\$38	\$9,593	\$4,797	\$20.18
880330NV-8D0	200	\$4,081	\$2,055	\$5,588	\$38	\$11,762	\$5,881	\$17.55
900351NV-02C	200	\$3,372	\$1,840	\$6,203	\$38	\$11,452	\$5,726	\$12.60
7341793NV-BFB	100	\$1,445	\$699	\$2,554	\$38	\$4,736	\$2,368	\$17.87
734188NV-482	300	\$7,133	\$3,548	\$9,146	\$38	\$19,865	\$9,932	\$15.19
800449NV-3FB	75	\$1,064	\$508	\$2,501	\$38	\$4,111	(\$1,334)	\$49.31
900308NV-675	1250	\$5,740	\$3,067	\$30,710	\$38	\$39,555	\$19,777	\$33.71
8305981NV-63B	300	\$6,311	\$3,122	\$7,622	\$38	\$17,093	\$8,546	\$21.71
832431NV-6DE	1000	\$1,872	\$1,152	\$19,792	\$38	\$22,853	\$11,427	\$54.04
760735NV-A99	150	\$2,504	\$1,264	\$3,357	\$38	\$7,162	\$3,581	\$34.27
900319NV-09D	200	\$5,090	\$2,381	\$6,698	\$38	\$14,207	(\$8,890)	\$49.31
740630NV-71F	150	\$3,532	\$1,722	\$4,136	\$38	\$9,428	\$4,714	\$24.20
9003193NV-3D3	200	\$2,768	\$1,448	\$3,928	\$38	\$8,181	\$4,485	\$49.31
744586NV-1A1	150	\$2,143	\$1,113	\$2,991	\$38	\$6,285	\$2,538	\$49.31
744502NV-5E1	200	\$2,066	\$1,063	\$3,949	\$38	\$7,115	\$3,621	\$49.31
744592NV-A06	200	\$1,903	\$989	\$3,905	\$38	\$6,834	\$3,699	\$49.31
731881NV-4FA	200	\$3,707	\$1,864	\$4,873	\$38	\$10,482	(\$1,174)	\$49.31
8509025NV-CC0	300	\$6,316	\$3,172	\$8,716	\$38	\$18,242	\$9,121	\$12.17



ICP Number	Contract Capacity kVA	Trans Power Charge	Subtransmission Charge	Distribution Charge	PowerNet Charge	Total Line Charge	Fixed Charge per annum	Variable Charge per Day MWh
8803032NV-345	150	\$1,820	\$883	\$3,821	\$38	\$6,561	\$3,281	\$18.60
900342NV-641	100	\$3,456	\$1,712	\$3,440	\$38	\$8,646	\$4,323	\$15.59
744608NV-473	300	\$5,487	\$2,781	\$7,651	\$38	\$15,956	\$7,978	\$16.79
933534NV-759	200	\$2,884	\$5,862	\$3,955	\$38	\$12,739	\$6,370	\$18.13
931777NV-07B	750	\$15,230	\$28,986	\$16,157	\$38	\$60,411	\$30,205	\$17.05
931775NV-0FE	150	\$1,971	\$3,752	\$2,486	\$38	\$8,247	\$5,015	\$49.31
930503NV-F8B	100	\$359	\$1,044	\$1,610	\$38	\$3,050	\$1,525	\$40.30
930505NV-E04	150	\$3,337	\$5,958	\$3,440	\$38	\$12,772	(\$2,884)	\$49.31
920755NV-4EA	150	\$3,244	\$6,236	\$3,484	\$38	\$13,001	\$6,501	\$18.02
931776NV-C3E	150	\$2,745	\$4,960	\$2,934	\$38	\$10,676	(\$148)	\$49.31
930921NV-E57	200	\$2,027	\$3,671	\$3,529	\$38	\$9,264	\$2,845	\$49.31
931326NV-837	150	\$1,197	\$2,254	\$2,526	\$38	\$6,014	\$2,831	\$49.31
9406013NV-102	500	\$8,468	\$14,818	\$9,369	\$38	\$32,692	\$16,346	\$21.48
9406011NV-187	500	\$9,536	\$17,715	\$9,864	\$38	\$37,152	\$18,576	\$20.45
9408016NV-48D	1750	\$40,403	\$76,581	\$35,849	\$38	\$152,871	\$76,435	\$22.19
931706NV-963	300	\$1,971	\$3,854	\$4,430	\$38	\$10,293	\$4,507	\$49.31
931760NV-71C	150	\$1,961	\$3,602	\$2,637	\$38	\$8,238	\$2,745	\$49.31
934525NV-5D1	150	\$876	\$1,624	\$2,545	\$38	\$5,082	\$2,250	\$49.31



## 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
<b>Domestic</b>								
Small Domestic (8kVA 1 Phase) - All Peak	ND08P	5	\$371	\$182	\$1,096	\$190	\$0.46	\$51.64
Small Domestic (8kVA 1 Phase) - With Off Peak	ND08Q	224	\$13,826	\$6,945	\$38,834	\$8,502	\$0.32	\$51.64
Standard Domestic (20kVA 1 Phase) - All Peak	ND20P	386	\$57,268	\$28,056	\$173,966	\$14,651	\$0.85	\$51.64
Standard Domestic (20kVA 1 Phase) - With Off Peak	ND20Q	12745	\$1,573,333	\$790,276	\$4,670,303	\$483,747	\$0.59	\$51.64
10% Fixed Charge Option - All Peak	NDL20P	43	\$6,076	\$2,992	\$17,445	\$1,632	\$0.15	\$87.24
10% Fixed Charge Option - With Off Peak	NDL20Q	573	\$67,467	\$34,010	\$199,004	\$21,749	\$0.00	\$87.24
10% Fixed Charge Option (8kVA 1 Phase) - All Peak	NDL08P	0	\$0	\$0	\$0	\$0	\$0.15	\$70.50
10% Fixed Charge Option (8kVA 1 Phase) - With Off Peak	NDL08Q	0	\$0	\$0	\$0	\$0	\$0.00	\$70.50
<b>Non-Domestic Single Phase</b>								
Street Lights (1 Phase)	NS001L	4221	\$15,777	\$7,812	\$117,201	\$3,761	\$0.07	\$51.64
1 kVA 1 Phase - All Peak	NS001P	4	\$347	\$163	\$1,211	\$152	\$0.33	\$51.64
8 kVA 1 Phase - All Peak	NS008P	106	\$7,863	\$3,852	\$23,229	\$4,023	\$0.46	\$51.64
8 kVA 1 Phase - With Off Peak	NS008Q	26	\$1,605	\$806	\$4,508	\$987	\$0.32	\$51.64
20 kVA 1 Phase - All Peak	NS020P	378	\$56,081	\$27,474	\$170,360	\$14,347	\$0.85	\$51.64
20 kVA 1 Phase - With Off Peak	NS020Q	175	\$21,603	\$10,851	\$64,127	\$6,642	\$0.59	\$51.64
<b>Non-Domestic Three Phase</b>								
15 kVA 3 Phase - All Peak	NT015P	39	\$5,425	\$2,657	\$15,149	\$1,480	\$0.71	\$51.64
15 kVA 3 Phase - With Off Peak	NT015Q	13	\$1,505	\$756	\$3,993	\$493	\$0.46	\$51.64
30 kVA 3 Phase - All Peak	NT030P	487	\$134,804	\$67,027	\$285,726	\$18,484	\$1.19	\$51.64
30 kVA 3 Phase - With Off Peak	NT030Q	162	\$37,463	\$19,007	\$77,129	\$6,149	\$0.81	\$51.64
50 kVA 3 Phase - All Peak	NT050P	265	\$164,584	\$81,056	\$392,893	\$10,058	\$2.43	\$51.64
50 kVA 3 Phase - With Off Peak	NT050Q	88	\$45,541	\$22,957	\$109,916	\$3,340	\$1.65	\$51.64
75 kVA 3 Phase - All Peak	NT075P	93	\$98,915	\$49,182	\$233,862	\$3,530	\$4.99	\$51.64
75 kVA 3 Phase - With Off Peak	NT075Q	12	\$10,663	\$5,410	\$25,514	\$455	\$3.63	\$51.64
100 kVA 3 Phase - All Peak	NT100P	41	\$69,428	\$34,521	\$137,015	\$1,556	\$6.07	\$51.64
100 kVA 3 Phase - With Off Peak	NT100Q	7	\$9,903	\$5,024	\$20,329	\$266	\$4.40	\$51.64
<b>EIL Bluff</b>								
<b>Domestic</b>								
Small Domestic (8kVA 1 Phase) - All Peak	BD08P	1	\$74	\$173	\$82	\$38	\$0.46	\$51.64
Small Domestic (8kVA 1 Phase) - With Off Peak	BD08Q	10	\$617	\$1,472	\$572	\$380	\$0.32	\$51.64
Standard Domestic (20kVA 1 Phase) - All Peak	BD20P	162	\$24,035	\$56,069	\$28,717	\$6,149	\$0.85	\$51.64
Standard Domestic (20kVA 1 Phase) - With Off Peak	BD20Q	649	\$80,117	\$191,045	\$87,019	\$24,633	\$0.59	\$51.64
10% Fixed Charge Option - All Peak	BDL20P	20	\$2,826	\$6,720	\$2,786	\$759	\$0.15	\$87.24
10% Fixed Charge Option - With Off Peak	BDL20Q	30	\$3,532	\$8,573	\$3,627	\$1,139	\$0.00	\$87.24
10% Fixed Charge Option (8kVA 1 Phase) - All Peak	BDL08P	0	\$0	\$0	\$0	\$0	\$0.15	\$70.50
10% Fixed Charge Option (8kVA 1 Phase) - With Off Peak	BDL08Q	0	\$0	\$0	\$0	\$0	\$0.00	\$70.50
<b>Non-Domestic Single Phase</b>								



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
Street Lights (1 Phase)	BS001L	352	\$1,315.69	\$3,189.77	\$7,031.17	\$517.85	\$0.07	\$51.64
1 kVA 1 Phase - All Peak	BS001P	1	\$86.71	\$173.65	\$169.96	\$37.96	\$0.33	\$51.64
8 kVA 1 Phase - All Peak	BS008P	6	\$445.09	\$1,038.32	\$494.57	\$227.73	\$0.46	\$51.64
8 kVA 1 Phase - With Off Peak	BS008Q	2	\$123.45	\$294.37	\$114.38	\$75.91	\$0.32	\$51.64
20 kVA 1 Phase - All Peak	BS020P	35	\$5,192.72	\$12,113.76	\$6,204.24	\$1,328.45	\$0.85	\$51.64
20 kVA 1 Phase - With Off Peak	BS020Q	4	\$493.79	\$1,177.47	\$536.32	\$151.82	\$0.59	\$51.64
<b>Non-Domestic Three Phase</b>								
15 kVA 3 Phase - All Peak	BT015P	1	\$139	\$324	\$132	\$38	\$0.71	\$51.64
15 kVA 3 Phase - With Off Peak	BT015Q	1	\$116	\$276	\$89	\$38	\$0.46	\$51.64
30 kVA 3 Phase - All Peak	BT030P	39	\$10,795	\$26,555	\$1,694	\$1,480	\$1.19	\$51.64
30 kVA 3 Phase - With Off Peak	BT030Q	9	\$2,081	\$5,211	\$130	\$342	\$0.81	\$51.64
50 kVA 3 Phase - All Peak	BT050P	11	\$6,832	\$16,245	\$3,429	\$418	\$2.43	\$51.64
50 kVA 3 Phase - With Off Peak	BT050Q	5	\$2,588	\$6,280	\$1,270	\$190	\$1.65	\$51.64
75 kVA 3 Phase - All Peak	BT075P	10	\$10,636	\$26,163	\$4,272	\$380	\$4.99	\$51.64
75 kVA 3 Phase - With Off Peak	BT075Q	3	\$2,666	\$6,675	\$1,056	\$114	\$3.63	\$51.64
100 kVA 3 Phase - All Peak	BT100P	2	\$3,387	\$8,331	\$37	\$76	\$6.07	\$51.64
100 kVA 3 Phase - With Off Peak	BT100Q	1	\$1,415	\$3,542	\$80	\$38	\$4.40	\$51.64