## SCHEDULE 5.1

**Derivation Tables for Market Based Rates** 

- 1 Derivation of distribution rates for the SGS rate class using electricity as the alternative energy
- 2 source and a target savings of 20%.

Derivation of Distribution Rates - Electricity									
		Units	Calculation	SGS					
1	Lines 1 - 5 not used								
6	Total Alternative Energy Cost	\$/ year	Retail Electricity Cost	\$2,118.91					
7	Target Savings Level	%	Assigned	20%					
8	Target Savings Amount	\$	Line 6 x Line 7	\$423.78					
9	Target Natural Gas Cost	\$	Line 6 - Line 8	\$1,695.13					
10	Typical Annual Natural Gas Consumption	GJs/ year	Typical Customer	80.98					
11	Target Burner Tip Price	\$/GJ	Line 9 / 10	20.9327					
12	Commodity Cost	\$/GJ	EUG Price	8.8206					
13	Target Distribution Rate	\$/GJ	Line 11 - Line 12	12.1121					
14	Target Annual Distribution Charge	\$	Line 13 x Line 10	\$980.84					
15	Monthly Customer Charge	\$	Assigned	\$18.00					
16	Annual Customer Charge	\$	Line 15 * 12	\$216.00					
17	Average Contract Demand	GJs	Average						
18	Contract Demand Charge	\$	Assigned	0					
19	Revenue from Demand Charge	\$	Line 17 * Line 18 * 12	0					
20	Target Revenue From Delivery Charge	\$	Line 14 - Lines 16 or 19	\$764.84					
21	Distribution Delivery Charge	\$/GJ	Line 20/Line 10	\$9.4450					

- 4 Derivation of distribution rates for MGS, LGS, CGS and ICGS rate classes using No. 2 Heating
- 5 Oil as the alternative energy source and a target savings of 15%.

	Derivation of Distribution Rates - Oil									
		Units	Calculation	MGS	LGS	CGS	ICGS			
1	Alternative Energy Price	CAN\$/I	Retail Oil Price	\$0.7902	\$0.7806	\$0.7707	\$0.7659			
2	Assumed Efficiency Factor	%	Assigned	81.25%	81.25%	100.00%	100.00%			
3	Typical Annual Oil Consumption	GJs/year	Line 10 / Line 2	604	3,856	9,397	200,702			
4	Conversion Factor	I/GJ	Assigned	25.8532	25.8532	25.8532	25.8532			
5	Typical Annual Consumption	in litres	Line 3 x Line 4	15,615	99,690	242,943	5,188,789			
6	Total Alternative Energy Cost	\$/ year	Line 1 x Line 5	\$12,340	\$77,822	\$187,226	\$3,973,994			
7	Target Savings Level	%	Assigned	15%	15%	15%	15%			
8	Target Savings Amount	\$	Line 6 x Line 7	\$1,850.94	\$11,673.25	\$28,083.95	\$596,099.10			
9	Target Natural Gas Cost	\$	Line 6 - Line 8	\$10,488.66	\$66,148.39	\$159,142.40	\$3,377,894.92			
10	Typical Annual Natural Gas Consumption	GJs/ year	Typical Customer	490.48	3,132.77	9,397.39	200,702.01			
11	Target Burner Tip Price	\$/GJ	Line 9 / 10	\$21.38	\$21.12	\$16.93	\$16.83			
12	Commodity Cost	\$/GJ	EUG	\$8.8206	\$8.8206	\$8.8206	\$8.8206			
13	Target Distribution Rate	\$/GJ	Line 11 - Line 12	\$12.5639	\$12.2944	\$8.1141	\$8.0098			

6

3