

Appendix 5
Energy Supply Expenses - 2019 to 2021

SCHEDULE 5-1						
Forecast of Energy Costs by Source (%)						
	2016 Actual	2017 Actual	2018 Actual	2019 Actual	2020 Forecast	2021 Forecast
Point Lepreau Entitlement	18.9	20.3	18.5	19.3	18.4	17.8
Energy Purchase System (System Energy)	53.7	51.8	53.4	53.6	54.8	48.8
On-Island Renewable (Wind)	21.4	19.8	19.6	19.5	19.3	25.7
Transmission, Interconnection & Other Charges	1.5	4.0	5.2	5.0	5.0	4.9
Company Generation Costs	4.5	4.1	3.3	2.6	2.5	2.8
Total	100.0	100.0	100.0	100.0	100.0	100.0

SCHEDULE 5-2						
Net Purchased and Produced Energy (GWh)						
	2016 Actual	2017 Actual	2018 Actual	2019 Actual	2020 Forecast	2021 Forecast
Energy Sales	1,188.4	1,208.0	1,257.4	1,286.9	1,341.0	1,384.5
Company Use & System Losses	92.1	89.9	91.6	98.4	109.2	112.4
Total	1,280.5	1,297.9	1,349.0	1,385.3	1,450.2	1,496.9

SCHEDULE 5-3						
Energy Supply by Source (\$)						
	2016 Actual	2017 Actual	2018 Actual	2019 Actual	2020 Forecast	2021 Forecast
Point Lepreau	\$ 20,935,352	\$ 23,980,233	\$ 23,109,894	\$ 24,442,271	\$ 24,499,500	\$ 24,611,900
EPA - Firm Energy Purchases	26,253,401	39,296,913	47,846,194	59,046,454	66,717,200	62,708,000
EPA - System Energy Purchases	32,803,402	21,812,357	19,533,804	8,724,769	5,376,400	3,906,100
Charlottetown Plant	2,879,000	2,585,034	2,208,221	1,440,381	1,256,900	1,334,600
Combustine Turbine #3	963,160	962,634	707,928	597,587	622,300	779,900
Borden-Carleton Plant	369,710	559,442	336,281	309,591	426,000	572,200
Energy Control Centre Operations	785,578	763,155	906,764	951,758	1,071,600	1,158,200
Wind	23,771,059	23,426,491	24,513,862	24,599,257	25,681,400	35,592,300
Ancillary Services	515,592	39,012	(577,620)	(2,818)	896,700	909,900
Other Purchases	(9,558)	10,073	(46,167)	(187)	-	-
NB Interconnection Facilities Rental & Transmission Services	1,529,870	4,248,636	5,977,085	6,083,464	6,507,300	6,540,800
PEI Energy Corporation Dalhousie & Lepreau Debt Repayment	-	-	-	-	-	-
Amortization of Deferred Charges	97,362	421,076	617,450	250,598	220,800	260,000
Total	\$ 110,893,928	\$ 118,105,056	\$ 125,133,696	\$ 126,443,125	\$ 133,276,100	\$ 138,373,900

SCHEDULE 5-4						
Charlottetown Plant Operating Expenses (\$)						
Description	2016 Actual	2017 Actual	2018 Actual	2019 Actual	2020 Forecast	2021 Forecast
Buildings & Services	\$ 457,870	\$ 409,240	\$ 404,104	\$ 345,903	\$ 299,300	\$ 266,600
Plant Maintenance	687,391	662,368	631,330	373,559	403,800	465,400
Plant Operating	579,937	423,800	487,505	306,411	181,600	205,600
Superintendence	188,476	279,252	207,638	53,060	53,700	78,500
Generation Fuel & Plant Heating	965,326	810,374	477,644	361,448	318,500	318,500
Total	\$ 2,879,000	\$ 2,585,034	\$ 2,208,221	\$ 1,440,381	\$ 1,256,900	\$ 1,334,600

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SCHEDULE 5-5						
Combustine Turbine #3 Operating Expenses (\$)						
Description	2016 Actual	2017 Actual	2018 Actual	2019 Actual	2020 Forecast	2021 Forecast
Buildings & Services	\$ 9,644	\$ 971	\$ 11	\$ 191,452	\$ 11,600	\$ 12,000
Plant Maintenance	192,854	160,104	150,867	148,667	171,600	179,600
Plant Operating	45,054	58,331	14,456	11,166	19,000	34,800
Superintendence	-	-	-	31,688	77,500	80,100
Generation Fuel	715,608	743,228	542,594	214,614	342,600	473,400
Total	\$ 963,160	\$ 962,634	\$ 707,928	\$ 597,587	\$ 622,300	\$ 779,900

SCHEDULE 5-6						
Borden-Carleton Plant Operating Expenses (\$)						
Description	2016 Actual	2017 Actual	2018 Actual	2019 Actual	2020 Forecast	2021 Forecast
Buildings & Services	\$ 228	\$ 1,450	\$ 51	\$ 675	\$ 3,400	\$ 3,600
Plant Operating	11,533	72,089	6,854	13,782	6,200	6,700
Plant Maintenance	197,702	255,209	184,165	173,807	123,800	132,800
Superintendence	-	-	-	21,688	77,500	80,100
Generation Fuel	160,247	230,694	145,211	99,639	215,100	349,000
Total	\$ 369,710	\$ 559,442	\$ 336,281	\$ 309,591	\$ 426,000	\$ 572,200

SCHEDULE 5-7						
Energy Supply Expenses - Other (\$)						
Description	2016 Actual	2017 Actual	2018 Actual	2019 Actual	2020 Forecast	2021 Forecast
Insurance	\$ 525,103	\$ 552,481	\$ 575,265	\$ 586,660	\$ 613,400	\$ 650,800
Property Tax	206,439	214,619	220,780	224,463	229,600	243,600
Professional Development & Training	1,386	14,050	12,069	17,021	58,200	60,000
Total	\$ 732,928	\$ 781,150	\$ 808,114	\$ 828,144	\$ 901,200	\$ 954,400