

Point to Point Service

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Point to Point Service

Year of Operation	35	36	37	38	39	40
Year of Construction	2050	2051	2052	2053	2054	2055
	1%	1%	1%	1%	1%	1%
1. Project Net Present Value	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
Capital Expenditure						
Interest During Construction						
Professional Fees Incurred to Date	-	-	-	-	-	-
Future Professional Fees	-	-	-	-	-	-
Annual Easement Cost	(2,000)	(2,000)	(2,000)	(2,000)	(2,000)	(2,000)
Operation and Maintenance, Direct	(226,795)	(231,331)	(235,958)	(240,677)	(245,491)	(250,400)
Operation and Maintenance, Indirect	(102,963)	(105,022)	(107,122)	(109,265)	(111,450)	(113,679)
New Brunswick to PEI Transmission System Usage Costs	(925,559)	(956,456)	(988,242)	(1,021,017)	(1,054,887)	(1,089,725)
One time generation cost for MECL Customers	-	-	-	-	-	-
Communication facilities lease	-	-	-	-	-	-
Critical Spares	(49,369)	(50,357)	(51,364)	(52,391)	(53,439)	(54,508)
OATT Schedule 9 Charges for Bedeque Breaker Bay	-	-	-	-	-	-
Loss Savings	150,689	153,702	156,776	159,912	163,110	166,372
Export Savings from Sside Wind Farm	-	-	-	-	-	-
Incremental Property Taxes	(18,511)	(19,129)	(19,765)	(20,420)	(21,098)	(21,794)
West Cape to City of Summerside Transmission Costs	(146,964)	(148,433)	(149,918)	(151,417)	(152,931)	(154,460)
Status Quo Forecasted OATT Charges	1,072,523	1,104,889	1,138,160	1,172,434	1,207,818	1,244,185
Wind Farm 1 (100 MW) resulting OATT rate decrease	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Wind Farm 2 (100 MW) resulting OATT rate decrease	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Transmission System Usage cost for WC Replacement Energy						
 Total Annual Cash Flows	 (248,950)	 (254,137)	 (259,433)	 (264,842)	 (270,367)	 (276,010)
 Assumed Discount Rate, LTD						
Net Present Value						
Load Growth Prediction (A = 2.0%, B = 2.2%, C = 3.0%)						

Point to Point Service

Year of Operation	(\$12,704,021)		9,030,181	2013	2014	2015	1	2	3	4
Year of Construction	\$21,734,202			0	1	2	2016	2017	2018	2019
2. SE Revenue Requirement Impact										
Interest and Debt Repayment										
Opening Principal	IDC	Discount		261,250	3,982,653	7,931,142	8,110,805	8,035,024	7,955,834	7,873,080
Interest		3.00%	4.50%	3,919	63,717	179,663	364,986	361,576	358,013	354,289
Principle Repayment				-	-	-	75,780	79,191	82,754	86,478
Closing Balance				265,169	4,046,371	8,110,805	8,035,024	7,955,834	7,873,080	7,786,602
Total Annual Payment							440,767	440,767	440,767	440,767
Depreciation (straight line over 40 years)							202,770	202,770	202,770	202,770
SE Revenue Requirement										
Change in Transmission Charges from MECL				-	-	-	-	-	-	-
Professional Fees				522,500	125,000	125,000	-	-	-	-
Direct O&M				-	-	-	115,672	117,985	120,345	122,752
Indirect O&M				-	-	-	52,514	53,564	54,635	55,728
Critical Spares				-	-	1,711,749	25,180	25,683	26,197	26,721
Loss Savings				-	-	-	(50,621)	(51,633)	(52,666)	(53,719)
Export Savings				-	-	-	-	-	-	-
Incremental Easement Costs				-	2,000	2,000	2,000	2,000	2,000	2,000
Incremental Property Taxes				-	-	-	7,737	7,969	8,208	8,456
Fibre Rental				-	-	-	-	-	-	-
One time generation cost				-	-	-	248,044	-	-	-
Interest				-	-	-	364,986	361,576	358,013	354,289
Depreciation				-	-	-	202,770	202,770	202,770	202,770
	NPV									
Total Revenue Requirement Impact	\$13,261,388			522,500	127,000	1,838,749	968,281	719,914	719,503	718,997

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Year of Operation	5	6	7	8	9	10	11	12	13	14
Year of Construction	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
2. SE Revenue Requirement Impact										
Interest and Debt Repayment										
Opening Principal	7,786,602	7,696,232	7,601,796	7,503,110	7,399,983	7,292,216	7,179,599	7,061,914	6,938,934	6,810,419
Interest	350,397	346,330	342,081	337,640	332,999	328,150	323,082	317,786	312,252	306,469
Principle Repayment	90,370	94,436	98,686	103,127	107,767	112,617	117,685	122,981	128,515	134,298
Closing Balance	7,696,232	7,601,796	7,503,110	7,399,983	7,292,216	7,179,599	7,061,914	6,938,934	6,810,419	6,676,121
Total Annual Payment	440,767	440,767	440,767	440,767	440,767	440,767	440,767	440,767	440,767	440,767
Depreciation (straight line over 40 years)	202,770	202,770	202,770	202,770	202,770	202,770	202,770	202,770	202,770	202,770
SE Revenue Requirement										
Change in Transmission Charges from MECL	-	-	-	-	(0)	(0)	0	-	0	(0)
Professional Fees	-	-	-	-	-	-	-	-	-	-
Direct O&M	125,207	127,711	130,265	132,871	135,528	138,239	141,004	143,824	146,700	149,634
Indirect O&M	56,843	57,980	59,139	60,322	61,528	62,759	64,014	65,294	66,600	67,932
Critical Spares	27,255	27,801	28,357	28,924	29,502	30,092	30,694	31,308	31,934	32,573
Loss Savings	(54,794)	(55,890)	(57,007)	(58,148)	(59,311)	(60,497)	(61,707)	(62,941)	(64,200)	(99,421)
Export Savings	-	-	-	-	-	-	-	-	-	-
Incremental Easement Costs	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000
Incremental Property Taxes	8,723	8,982	9,250	8,384	8,636	8,896	9,164	9,449	9,731	10,023
Fibre Rental	-	-	-	-	-	-	-	-	-	-
One time generation cost	-	-	-	-	-	-	-	-	-	-
Interest	350,397	346,330	342,081	337,640	332,999	328,150	323,082	317,786	312,252	306,469
Depreciation	202,770	202,770	202,770	202,770	202,770	202,770	202,770	202,770	202,770	202,770
Total Revenue Requirement Impact	718,401	717,685	716,855	714,763	713,653	712,409	711,021	709,490	707,788	671,980

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Year of Operation	15	16	17	18	19	20	21	22	23	24
Year of Construction	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039
2. SE Revenue Requirement Impact										
Interest and Debt Repayment										
Opening Principal	6,676,121	6,535,780	6,389,124	6,235,867	6,075,715	5,908,355	5,733,465	5,550,704	5,359,719	5,160,140
Interest	300,425	294,110	287,511	280,614	273,407	265,876	258,006	249,782	241,187	232,206
Principle Repayment	140,341	146,657	153,256	160,153	167,359	174,891	182,761	190,985	199,579	208,560
Closing Balance	6,535,780	6,389,124	6,235,867	6,075,715	5,908,355	5,733,465	5,550,704	5,359,719	5,160,140	4,951,579
Total Annual Payment	440,767	440,767	440,767	440,767	440,767	440,767	440,767	440,767	440,767	440,767
Depreciation (straight line over 40 years)	202,770	202,770	202,770	202,770	202,770	202,770	202,770	202,770	202,770	202,770
SE Revenue Requirement										
Change in Transmission Charges from MECL	-	(0)	-	-	0	-	(0)	-	0	-
Professional Fees	-	-	-	-	-	-	-	-	-	-
Direct O&M	152,627	155,679	158,793	161,969	165,208	168,512	171,882	175,320	178,827	182,403
Indirect O&M	69,291	70,677	72,090	73,532	75,003	76,503	78,033	79,594	81,185	82,809
Critical Spares	33,224	33,889	34,566	35,258	35,963	36,682	37,416	38,164	38,927	39,706
Loss Savings	(101,409)	(103,437)	(105,506)	(107,616)	(109,768)	(111,964)	(114,203)	(116,487)	(118,817)	(121,193)
Export Savings	-	-	-	-	-	-	-	-	-	-
Incremental Easement Costs	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000
Incremental Property Taxes	9,441	9,773	10,117	10,472	10,837	11,212	11,601	12,002	12,416	12,841
Fibre Rental	-	-	-	-	-	-	-	-	-	-
One time generation cost	-	-	-	-	-	-	-	-	-	-
Interest	300,425	294,110	287,511	280,614	273,407	265,876	258,006	249,782	241,187	232,206
Depreciation	202,770	202,770	202,770	202,770	202,770	202,770	202,770	202,770	202,770	202,770
Total Revenue Requirement Impact	668,370	665,461	662,341	658,998	655,419	651,592	647,505	643,145	638,496	633,542

Point to Point Service

Year of Operation	25	26	27	28	29	30	31	32	33	34
Year of Construction	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049
2. SE Revenue Requirement Impact										
Interest and Debt Repayment										
Opening Principal	4,951,579	4,733,634	4,505,880	4,267,878	4,019,166	3,759,262	3,487,662	3,203,840	2,907,247	2,597,306
Interest	222,821	213,014	202,765	192,055	180,862	169,167	156,945	144,173	130,826	116,879
Principle Repayment	217,946	227,753	238,002	248,712	259,904	271,600	283,822	296,594	309,941	323,888
Closing Balance	4,733,634	4,505,880	4,267,878	4,019,166	3,759,262	3,487,662	3,203,840	2,907,247	2,597,306	2,273,418
Total Annual Payment	440,767	440,767	440,767	440,767	440,767	440,767	440,767	440,767	440,767	440,767
Depreciation (straight line over 40 years)	202,770	202,770	202,770	202,770	202,770	202,770	202,770	202,770	202,770	202,770
SE Revenue Requirement										
Change in Transmission Charges from MECL	-	-	(0)	0	-	-	-	0	0	0
Professional Fees	-	-	-	-	-	-	-	-	-	-
Direct O&M	186,051	189,772	193,568	197,439	201,388	205,415	209,524	213,714	217,989	222,348
Indirect O&M	84,465	86,155	87,878	89,635	91,428	93,257	95,122	97,024	98,965	100,944
Critical Spares	40,500	41,310	42,136	42,979	43,839	44,715	45,610	46,522	47,452	48,401
Loss Savings	(123,617)	(126,089)	(128,611)	(131,183)	(133,807)	(136,483)	(139,213)	(141,997)	(144,837)	(147,734)
Export Savings	-	-	-	-	-	-	-	-	-	-
Incremental Easement Costs	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000
Incremental Property Taxes	13,281	13,735	14,203	14,684	15,182	15,697	16,224	16,770	17,334	17,913
Fibre Rental	-	-	-	-	-	-	-	-	-	-
One time generation cost	-	-	-	-	-	-	-	-	-	-
Interest	222,821	213,014	202,765	192,055	180,862	169,167	156,945	144,173	130,826	116,879
Depreciation	202,770	202,770	202,770	202,770	202,770	202,770	202,770	202,770	202,770	202,770
Total Revenue Requirement Impact	628,272	622,667	616,708	610,379	603,662	596,538	588,982	580,976	572,498	563,522

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Year of Operation	35	36	37	38	39	40
Year of Construction	2050	2051	2052	2053	2054	2055
2. SE Revenue Requirement Impact						
Interest and Debt Repayment						
Opening Principal	2,273,418	1,934,955	1,581,262	1,211,652	825,409	421,786
Interest	102,304	87,073	71,157	54,524	37,143	18,980
Principle Repayment	338,463	353,694	369,610	386,242	403,623	421,786
Closing Balance	1,934,955	1,581,262	1,211,652	825,409	421,786	0
Total Annual Payment	440,767	440,767	440,767	440,767	440,767	440,767
Depreciation (straight line over 40 years)	202,770	202,770	202,770	202,770	202,770	202,770
SE Revenue Requirement						
Change in Transmission Charges from MECL	0	(0)	(0)	-	-	-
Professional Fees	-	-	-	-	-	-
Direct O&M	226,795	231,331	235,958	240,677	245,491	250,400
Indirect O&M	102,963	105,022	107,122	109,265	111,450	113,679
Critical Spares	49,369	50,357	51,364	52,391	53,439	54,508
Loss Savings	(150,689)	(153,702)	(156,776)	(159,912)	(163,110)	(166,372)
Export Savings	-	-	-	-	-	-
Incremental Easement Costs	2,000	2,000	2,000	2,000	2,000	2,000
Incremental Property Taxes	18,511	19,129	19,765	20,420	21,098	21,794
Fibre Rental	-	-	-	-	-	-
One time generation cost	-	-	-	-	-	-
Interest	102,304	87,073	71,157	54,524	37,143	18,980
Depreciation	202,770	202,770	202,770	202,770	202,770	202,770
Total Revenue Requirement Impact	554,024	543,980	533,360	522,136	510,281	497,760