

### 3.1 Gander Twillingate Transmission System Planning Study

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2  
3 **Q. Page 21. Newfoundland Power states "An NPV analysis of the viable**  
4 **alternatives presented in section 3.1 was completed to determine customer**  
5 **revenue requirements associated with each alternative over the life cycle of**  
6 **the required capital assets."**
- 7 **a) Please provide the NPV analysis in a table showing every year in the study**  
8 **period as well as a graphical representation over the life of the study**  
9 **period.**
- 10 **b) Did Newfoundland Power include the cost of the replacement GAN-T2**  
11 **power transformer (\$4,185,000) within the NPV analysis conducted for**  
12 **the *New Transmission Line from Lewisporte to Boyd's Cove* project? If not,**  
13 **please explain. If yes, why is there a separate project for it (i.e., *GAN-T2***  
14 ***Power Transformer Replacement* project)?**
- 15 **c) If the GAN-T2 power transformer has not been included, how would the**  
16 **results contained within Table 9, as well as the corresponding tables**  
17 **illustrating the various sensitivity analyses, be impacted if the capital**  
18 **costs associated with GAN-T2 were included?**
- 19 **d) If the resultant NPV analysis, with the inclusion of the GAN-T2 costs,**  
20 **shows this project as not being the least cost option, or for some other**  
21 **reason this project was not approved, how would Newfoundland Power's**  
22 **plans for the rebuilds of transmission lines 142L and 114L be impacted, if**  
23 **at all?**

24  
25 A. a) See Attachment A.

- 26  
27 b) The cost of replacement of system power transformer GAN-T2 is included within the  
28 NPV analysis conducted as part of report *3.1 Gander-Twillingate Transmission*  
29 *System Planning Study* (the "Study").

30  
31 The Study recommends numerous capital expenditures totaling \$35.8 million  
32 between 2025 and 2027 across various asset classes, including: \$20.8 million for the  
33 *New Transmission Line from Lewisporte to Boyd's Cove* project; \$4.2 million for the  
34 *Gander Substation Power Transformer Replacement* project; as well as \$10.8 million  
35 for other related projects recommended to commence in 2026 to facilitate  
36 completion of the proposed transmission system reconfiguration to the Gander –  
37 Twillingate area.<sup>1</sup>

38  
39 Newfoundland Power is currently seeking approval for the two projects  
40 recommended to commence in 2025 as per the Study: (1) the *New Transmission*  
41 *Line from Lewisporte to Boyd's Cove*; and (2) the *Gander Substation Power*  
42 *Transformer Replacement*.

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<sup>1</sup> See Newfoundland Power's *2025 Capital Budget Application*, report *3.1 Gander-Twillingate Transmission System Planning Study*, page 26, Table 15, for a list of proposed expenditures between 2025 and 2027.

1 With respect to there being a separate project report for the *Gander Substation*  
2 *Power Transformer Replacement* project, Newfoundland Power acknowledges that  
3 this report could have been filed as an appendix to the Study. However, due to the  
4 Company's standard practice of filing asset-based engineering reports as part of its  
5 Capital Budget Applications, as well as the level of detail provided for the condition  
6 of GAN-T2, it was decided to provide this information as part of Newfoundland  
7 Power's standardized *Substation Power Transformer Replacements* report.  
8

- 9 c) The results provided in Newfoundland Power's *2025 Capital Budget Application*,  
10 report *3.1 Gander – Twillingate Transmission System Planning Study*, page 22, Table  
11 9, are based on the total planned project expenditures from 2025 to 2027, as well as  
12 foreseeable expenditures in the 2030 to 2036 period, across all asset classes. These  
13 expenditures include those associated with the *Gander Substation Power*  
14 *Transformer Replacement* project.  
15

16 See the response for part a) for a detailed breakdown of all costs associated with the  
17 results of the NPV analyses provided in Table 9.  
18

- 19 d) As per the response in part c), the NPV analyses conducted as part of the Study  
20 included costs associated with the *Gander Substation Power Transformer*  
21 *Replacement* project, and remains least-cost.  
22

23 If expenditures recommended as part of the Study were not approved, the  
24 transmission-level undervoltage condition would still have to be mitigated, and  
25 Transmission Line 108 and system power transformer GAN-T2 would still need to be  
26 replaced. The next best alternative that could ensure adequate transmission voltages  
27 to the area would require converting Transmission Line 142L to 138 kV and  
28 constructing an extension to Boyd's Cove Substation, which is Alternative 1 in the  
29 Study and is not least-cost. Also, if Alternative 1 was chosen instead, transmission  
30 lines 142L and 114L would still have to be rebuilt in the 2030 to 2036 timeframe.

## **ATTACHMENT A:**

Detailed NPV Analysis of Gander - Twillingate Transmission System  
Planning Study

Table 1 provides the Present Worth Analysis of Alternative 1 from 2025 to 2084.

Table 1: Present Worth Analysis of Alternative 1 <sup>1</sup>								
Year	Transmission	Substation	Distribution	Capital	Operating	Net	Present	Cumulative
	51.9 yrs 8% CCA	48.5 yrs 8% CCA	52.9 yrs 8% CCA	Revenue Requirement				
2025	2,200,000	20,000	0	210,340	452,667	-663,007	-663,007	-663,007
2026	8,200,000	4,400,000	0	1,423,191	424,185	-1,847,376	-1,732,186	-2,395,192
2027	16,900,000	4,800,000	0	3,592,659	408,507	-4,001,166	-3,517,749	-5,912,942
2028	0	0	0	3,761,135	418,537	-4,179,673	-3,445,559	-9,358,501
2029	0	0	0	3,644,212	421,064	-4,065,276	-3,142,293	-12,500,793
2030	0	0	0	3,532,235	419,373	-3,951,608	-2,863,977	-15,364,771
2031	0	0	0	3,424,808	418,655	-3,843,463	-2,611,906	-17,976,677
2032	0	0	0	3,321,567	427,505	-3,749,072	-2,388,899	-20,365,575
2033	27,386,698	1,841,123	0	6,004,706	425,202	-6,429,908	-3,841,651	-24,207,226
2034	0	0	0	6,217,382	435,122	-6,652,504	-3,726,811	-27,934,037
2035	0	0	0	6,026,550	437,590	-6,464,139	-3,395,487	-31,329,525
2036	0	0	0	5,843,006	441,516	-6,284,522	-3,095,300	-34,424,825
2037	0	0	0	5,666,166	444,712	-6,110,879	-2,822,106	-37,246,931
2038	0	0	0	5,495,495	452,672	-5,948,167	-2,575,681	-39,822,612
2039	0	0	0	5,330,499	458,051	-5,788,550	-2,350,270	-42,172,882
2040	0	0	0	5,170,724	464,880	-5,635,603	-2,145,495	-44,318,377
2041	0	0	0	5,015,751	485,806	-5,501,557	-1,963,866	-46,282,243
2042	0	0	0	4,865,198	492,162	-5,357,360	-1,793,148	-48,075,391
2043	0	0	0	4,718,710	500,924	-4,718,710	-1,480,907	-49,556,299
2044	0	0	0	4,575,963	509,872	-4,575,963	-1,346,561	-50,902,860
2045	0	0	0	4,436,656	518,987	-4,436,656	-1,224,161	-52,127,021
2046	0	0	0	4,300,515	528,234	-4,300,515	-1,112,609	-53,239,630
2047	0	0	0	4,167,287	537,646	-4,167,287	-1,010,915	-54,250,544
2048	0	0	0	4,036,738	547,226	-4,036,738	-918,186	-55,168,730
2049	0	0	0	3,908,654	556,976	-3,908,654	-833,617	-56,002,347
2050	0	0	0	3,782,838	566,901	-3,782,838	-756,478	-56,758,825
2051	0	0	0	3,659,108	577,002	-3,659,108	-686,109	-57,444,934
2052	0	0	0	3,537,298	587,283	-3,537,298	-621,911	-58,066,845
2053	0	0	0	3,417,254	597,747	-3,417,254	-563,343	-58,630,188
2054	0	0	0	3,298,834	608,398	-3,298,834	-509,912	-59,140,101
2055	0	0	0	3,181,910	619,238	-3,181,910	-461,171	-59,601,272
2056	0	0	0	3,066,360	630,272	-3,066,360	-416,712	-60,017,985
2057	0	0	0	2,952,076	641,502	-2,952,076	-376,166	-60,394,151
2058	0	0	0	2,838,955	652,932	-2,838,955	-339,196	-60,733,346
2059	0	0	0	2,726,906	664,566	-2,726,906	-305,493	-61,038,839
2060	0	0	0	2,615,841	676,407	-2,615,841	-274,778	-61,313,617
2061	0	0	0	2,505,683	688,459	-2,505,683	-246,794	-61,560,411
2062	0	0	0	2,396,359	700,726	-2,396,359	-221,309	-61,781,721
2063	0	0	0	2,287,801	713,212	-2,287,801	-198,110	-61,979,830
2064	0	0	0	2,179,950	725,920	-2,179,950	-177,000	-62,156,830
2065	0	0	0	2,072,748	738,854	-2,072,748	-157,802	-62,314,632
2066	0	0	0	1,966,143	752,019	-1,966,143	-140,352	-62,454,984
2067	0	0	0	1,860,088	765,419	-1,860,088	-124,502	-62,579,487
2068	0	0	0	1,754,538	779,057	-1,754,538	-110,115	-62,689,601
2069	0	0	0	1,649,453	792,938	-1,649,453	-97,065	-62,786,666
2070	0	0	0	1,544,797	807,067	-1,544,797	-85,238	-62,871,904
2071	0	0	0	1,440,534	821,447	-1,440,534	-74,529	-62,946,433
2072	0	0	0	1,336,633	836,084	-1,336,633	-64,841	-63,011,274
2073	0	0	0	1,233,882	850,981	-1,233,882	-56,124	-63,067,399
2074	0	0	0	1,309,114	866,144	-1,309,114	-55,834	-63,123,232
2075	0	0	0	1,166,098	881,577	-1,166,098	-46,633	-63,169,865
2076	0	0	0	994,987	897,285	-994,987	-37,309	-63,207,174
2077	0	0	0	1,392,725	913,272	-1,392,725	-48,967	-63,256,141
2078	0	0	0	1,987,823	929,545	-1,987,823	-65,532	-63,321,673
2079	0	0	0	428,071	946,108	-428,071	-13,232	-63,334,905
2080	0	0	0	382,178	962,966	-382,178	-11,077	-63,345,982
2081	0	0	0	411,741	980,124	-411,741	-11,190	-63,357,171
2082	0	0	0	267,057	997,588	-267,057	-6,805	-63,363,977
2083	0	0	0	224,149	1,015,363	-224,149	-5,356	-63,369,332
2084	0	0	0	2,455,997	1,033,454	-2,455,997	-55,022	-63,424,354

- <sup>1</sup> Capital costs for 2025 to 2029 are shown in 2025 dollars; capital costs from 2030 and beyond are escalated based on the latest GDP deflator.
- <sup>2</sup> Operating costs are based on the estimated costs of losses per alternative based on modeled peak losses and the historical loss factor of the Gander – Twillingate area. Projected maintenance costs are excluded, but are expected to be the lowest for Alternative 2 based on the road-side configuration of the newly proposed transmission line.

Table 2 provides the Present Worth Analysis of Alternative 2 from 2025 to 2084.

Table 2 Present Worth Analysis of Alternative 2 <sup>3</sup>								
Year	Transmission	Substation	Distribution	Capital Revenue Requirement	Operating Costs <sup>4</sup>	Net Benefit	Present Worth Benefit	Cumulative Present Value Benefit
	51.9 yrs 8% CCA	48.5 yrs 8% CCA	52.9 yrs 8% CCA					
2025	1,900,000	20,000	0	181,913	414,982	-596,895	-596,895	-596,895
2026	9,300,000	4,400,000	0	1,495,951	388,871	-1,884,822	-1,767,297	-2,364,192
2027	11,100,000	7,900,000	1,200,000	3,532,373	374,499	-3,906,872	-3,434,848	-5,799,040
2028	0	0	0	3,680,077	383,694	-4,063,771	-3,350,014	-9,149,054
2029	0	0	0	3,565,897	386,010	-3,951,907	-3,054,663	-12,203,717
2030	0	0	0	3,456,559	384,460	-3,841,019	-2,783,827	-14,987,544
2031	0	0	0	3,351,675	383,802	-3,735,477	-2,538,522	-17,526,066
2032	0	0	0	3,250,889	391,915	-3,642,804	-2,321,185	-19,847,251
2033	26,811,347	0	0	5,707,720	394,923	-6,102,643	-3,646,121	-23,493,372
2034	0	0	0	5,898,475	404,137	-6,302,612	-3,530,798	-27,024,170
2035	0	0	0	5,717,832	406,429	-6,124,261	-3,216,956	-30,241,126
2036	0	0	0	5,544,059	410,076	-5,954,135	-2,932,576	-33,173,701
2037	0	0	0	5,376,607	413,044	-5,789,651	-2,673,758	-35,847,459
2038	0	0	0	5,214,968	420,437	-5,635,406	-2,440,248	-38,287,707
2039	0	0	0	5,058,680	425,433	-5,484,113	-2,226,662	-40,514,370
2040	0	0	0	4,907,313	431,776	-5,339,088	-2,032,611	-42,546,980
2041	0	0	0	4,760,473	451,211	-5,211,685	-1,860,392	-44,407,372
2042	0	0	0	4,617,800	457,115	-5,074,914	-1,698,612	-46,105,983
2043	0	0	0	4,478,958	465,253	-4,478,958	-1,405,664	-47,511,648
2044	0	0	0	4,343,643	473,564	-4,343,643	-1,278,197	-48,789,844
2045	0	0	0	4,211,571	482,029	-4,211,571	-1,162,056	-49,951,900
2046	0	0	0	4,082,483	490,618	-4,082,483	-1,056,200	-51,008,100
2047	0	0	0	3,956,141	499,360	-3,956,141	-959,694	-51,967,794
2048	0	0	0	3,832,324	508,258	-3,832,324	-871,691	-52,839,485
2049	0	0	0	3,710,831	517,314	-3,710,831	-791,426	-53,630,912
2050	0	0	0	3,591,476	526,531	-3,591,476	-718,210	-54,349,122
2051	0	0	0	3,474,088	535,913	-3,474,088	-651,416	-55,000,538
2052	0	0	0	3,358,510	545,462	-3,358,510	-590,478	-55,591,015
2053	0	0	0	3,244,596	555,181	-3,244,596	-534,880	-56,125,896
2054	0	0	0	3,132,214	565,073	-3,132,214	-484,157	-56,610,053
2055	0	0	0	3,021,240	575,142	-3,021,240	-437,884	-57,047,937
2056	0	0	0	2,911,563	585,390	-2,911,563	-395,676	-57,443,613
2057	0	0	0	2,803,079	595,820	-2,803,079	-357,181	-57,800,794
2058	0	0	0	2,695,692	606,436	-2,695,692	-322,079	-58,122,872
2059	0	0	0	2,589,314	617,242	-2,589,314	-290,078	-58,412,951
2060	0	0	0	2,483,865	628,240	-2,483,865	-260,914	-58,673,865
2061	0	0	0	2,379,270	639,434	-2,379,270	-234,343	-58,908,209
2062	0	0	0	2,275,461	650,827	-2,275,461	-210,144	-59,118,353
2063	0	0	0	2,172,376	662,424	-2,172,376	-188,115	-59,306,467
2064	0	0	0	2,069,955	674,227	-2,069,955	-168,069	-59,474,536
2065	0	0	0	1,968,147	686,240	-1,968,147	-149,838	-59,624,375
2066	0	0	0	1,866,902	698,468	-1,866,902	-133,268	-59,757,643
2067	0	0	0	1,766,175	710,913	-1,766,175	-118,216	-59,875,859
2068	0	0	0	1,665,924	723,580	-1,665,924	-104,553	-59,980,413
2069	0	0	0	1,566,112	736,473	-1,566,112	-92,161	-60,072,573
2070	0	0	0	1,466,704	749,595	-1,466,704	-80,929	-60,153,502
2071	0	0	0	1,367,666	762,951	-1,367,666	-70,759	-60,224,261
2072	0	0	0	1,268,970	776,546	-1,268,970	-61,559	-60,285,820
2073	0	0	0	1,171,404	790,382	-1,171,404	-53,283	-60,339,102
2074	0	0	0	1,251,804	804,465	-1,251,804	-53,389	-60,392,492
2075	0	0	0	1,240,453	818,799	-1,240,453	-49,606	-60,442,098
2076	0	0	0	883,347	833,389	-883,347	-33,123	-60,475,221
2077	0	0	0	1,408,426	848,238	-1,408,426	-49,519	-60,524,740
2078	0	0	0	1,434,701	863,352	-1,434,701	-47,297	-60,572,037
2079	0	0	0	489,896	878,735	-489,896	-15,143	-60,587,180
2080	0	0	0	345,703	894,392	-345,703	-10,020	-60,597,200
2081	0	0	0	303,532	910,329	-303,532	-8,249	-60,605,449
2082	0	0	0	261,447	926,549	-261,447	-6,662	-60,612,111
2083	0	0	0	219,440	943,058	-219,440	-5,243	-60,617,354
2084	0	0	0	2,404,400	959,861	-2,404,400	-53,866	-60,671,220

<sup>3</sup> Capital costs for 2025 to 2029 are shown in 2025 dollars; capital costs from 2030 and beyond are escalated based on the latest GDP deflator.

<sup>4</sup> Operating costs are based on the estimated costs of losses per alternative based on modeled peak losses and the historical loss factor of the Gander - Twillingate area. Projected maintenance costs are excluded, but are expected to be the lowest for Alternative 2 based on the road-side configuration of the newly proposed transmission line.

Table 3 provides the Present Worth Analysis of Alternative 2 from 2025 to 2084.

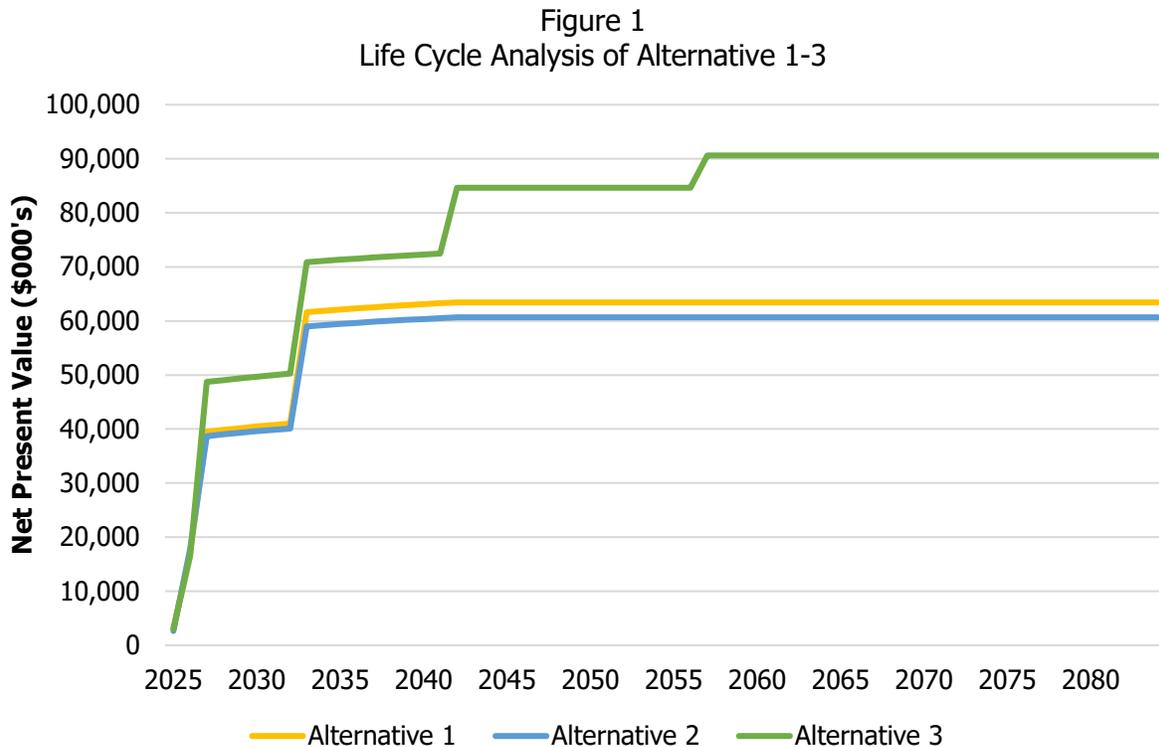
Table 3 Present Worth Analysis of Alternative 3 <sup>5</sup>								
Year	Transmission	Substation	Distribution	Capital Revenue Requirement	Operating Costs <sup>6</sup>	Net Benefit	Present Worth Benefit	Cumulative Present Value Benefit
	51.9 yrs 8% CCA	48.5 yrs 8% CCA	52.9 yrs 8% CCA					
2025	2,200,000	20,000	0	210,340	452,667	-663,007	-663,007	-663,007
2026	8,200,000	3,900,000	0	1,376,219	424,185	-1,800,404	-1,688,143	-2,351,149
2027	8,100,000	23,300,000	0	4,445,110	408,507	-4,853,617	-4,267,208	-6,618,357
2028	0	0	0	4,699,489	418,537	-5,118,026	-4,219,101	-10,837,458
2029	0	0	0	4,553,964	421,064	-4,975,028	-3,845,494	-14,682,952
2030	0	0	0	4,414,684	419,373	-4,834,058	-3,503,544	-18,186,496
2031	0	0	0	4,281,150	418,655	-4,699,806	-3,193,852	-21,380,348
2032	0	0	0	4,152,902	427,505	-4,580,407	-2,918,623	-24,298,971
2033	27,386,698	1,841,123	0	6,812,045	425,202	-7,237,247	-4,324,008	-28,622,979
2034	0	0	0	7,001,657	435,122	-7,436,779	-4,166,171	-32,789,151
2035	0	0	0	6,788,616	437,590	-7,226,206	-3,795,786	-36,584,937
2036	0	0	0	6,583,652	441,516	-7,025,168	-3,460,089	-40,045,026
2037	0	0	0	6,386,117	444,712	-6,830,829	-3,154,591	-43,199,617
2038	0	0	0	6,195,417	452,672	-6,648,089	-2,878,761	-46,078,378
2039	0	0	0	6,011,005	458,051	-6,469,057	-2,626,570	-48,704,948
2040	0	0	0	5,832,379	464,880	-6,297,259	-2,397,390	-51,102,338
2041	0	0	0	5,659,075	485,806	-6,144,881	-2,193,511	-53,295,848
2042	0	31,007,545	0	8,419,059	492,162	-8,911,221	-2,982,652	-56,278,500
2043	0	0	0	8,560,304	500,924	-8,560,304	-2,686,542	-58,965,043
2044	0	0	0	8,299,137	509,872	-8,299,137	-2,442,174	-61,407,217
2045	0	0	0	8,046,334	518,987	-8,046,334	-2,220,142	-63,627,359
2046	0	0	0	7,801,224	528,234	-7,801,224	-2,018,295	-65,645,655
2047	0	0	0	7,563,193	537,646	-7,563,193	-1,834,705	-67,480,360
2048	0	0	0	7,331,673	547,226	-7,331,673	-1,667,644	-69,148,004
2049	0	0	0	7,106,145	556,976	-7,106,145	-1,515,561	-70,663,565
2050	0	0	0	6,886,129	566,901	-6,886,129	-1,377,062	-72,040,627
2051	0	0	0	6,671,183	577,002	-6,671,183	-1,250,894	-73,291,521
2052	0	0	0	6,460,903	587,283	-6,460,903	-1,135,926	-74,427,447
2053	0	0	0	6,254,915	597,747	-6,254,915	-1,031,139	-75,458,586
2054	0	0	0	6,052,875	608,398	-6,052,875	-935,614	-76,394,200
2055	0	0	0	5,854,468	619,238	-5,854,468	-848,519	-77,242,720
2056	0	0	0	5,659,404	630,272	-5,659,404	-769,102	-78,011,822
2057	0	40,416,358	0	9,284,384	641,502	-9,284,384	-1,183,057	-79,194,879
2058	0	0	0	9,492,963	652,932	-9,492,963	-1,134,210	-80,329,088
2059	0	0	0	9,174,224	664,566	-9,174,224	-1,027,780	-81,356,868
2060	0	0	0	8,863,810	676,407	-8,863,810	-931,087	-82,287,956
2061	0	0	0	8,561,055	688,459	-8,561,055	-843,211	-83,131,167
2062	0	0	0	8,265,346	700,726	-8,265,346	-763,325	-83,894,491
2063	0	0	0	7,976,120	713,212	-7,976,120	-690,683	-84,585,175
2064	0	0	0	7,692,857	725,920	-7,692,857	-624,617	-85,209,792
2065	0	0	0	7,415,081	738,854	-7,415,081	-564,523	-85,774,315
2066	0	0	0	7,142,353	752,019	-7,142,353	-509,854	-86,284,169
2067	0	0	0	6,874,269	765,419	-6,874,269	-460,119	-86,744,288
2068	0	0	0	6,610,457	779,057	-6,610,457	-414,872	-87,159,161
2069	0	0	0	6,350,576	792,938	-6,350,576	-373,710	-87,532,871
2070	0	0	0	6,094,311	807,067	-6,094,311	-336,268	-87,869,140
2071	0	0	0	5,841,373	821,447	-5,841,373	-302,215	-88,171,354
2072	0	0	0	5,591,496	836,084	-5,591,496	-271,249	-88,442,603
2073	0	0	0	5,345,251	850,981	-5,345,251	-243,135	-88,685,737
2074	0	0	0	5,258,868	866,144	-5,258,868	-224,290	-88,910,028
2075	0	0	0	5,758,548	881,577	-5,758,548	-230,287	-89,140,315
2076	0	0	0	4,457,442	897,285	-4,457,442	-167,141	-89,307,455
2077	0	0	0	4,746,216	913,272	-4,746,216	-166,872	-89,474,327
2078	0	0	0	4,503,845	929,545	-4,503,845	-148,477	-89,622,804
2079	0	0	0	3,612,674	946,108	-3,612,674	-111,672	-89,734,475
2080	0	0	0	3,448,502	962,966	-3,448,502	-99,950	-89,834,425
2081	0	0	0	3,361,042	980,124	-3,361,042	-91,341	-89,925,766
2082	0	0	0	3,100,491	997,588	-3,100,491	-79,006	-90,004,773
2083	0	0	0	2,942,777	1,015,363	-2,942,777	-70,312	-90,075,084
2084	0	0	0	5,060,797	1,033,454	-5,060,797	-113,378	-90,188,462

<sup>5</sup> Capital costs for 2025 to 2029 are shown in 2025 dollars; capital costs from 2030 and beyond are escalated based on the latest GDP deflator.

<sup>6</sup> Operating costs are based on the estimated costs of losses per alternative based on modeled peak losses and the historical loss factor of the Gander – Twillingate area. Projected maintenance costs are excluded, but are expected to be the lowest for Alternative 2 based on the road-side configuration of the newly proposed transmission line.

As shown in Table 3, the final installation of a battery system would occur in 2057 with a suspect end-of-life in 2072. Therefore, Alternative 3 would have a shorter life-cycle than Alternatives 1 and 2. Adding an additional battery system in a future year to extend the life-cycle of Alternative 3 was omitted as its total NPV is higher as-is.<sup>7</sup>

Figure 1 shows a graphical representation of the results of Tables 1 to 3.



<sup>7</sup> Due to uncertainties surrounding the future costs of utility-scale battery systems, the analysis conducted in Table 3 is based on projected 2025 costs as provided by *Cost Projections for Utility-Scale Battery Storage: 2023 Update*, by Cole et al. While the authors of this report propose a normalized reduction in costs from 2025 to 2040, Newfoundland and Labrador Hydro’s latest *Battery Energy Storage System Report* showed that battery costs increased in 2023 compared to 2022. For completeness, the NPV analysis in Table 3 was re-calculated assuming the normalized cost reductions as provided by Cole et al., which yields a revised NPV for Alternative 3 of \$80.7 million.