

1 Q. **Reference: Technical Note RP-TN-054: Southern Labrador – Full Interconnection – Delayed**
 2 **Regional Plant**

3 Please provide, in both tabular and graphical format, the Cumulative Net Present Value for each
 4 alternative examined in Table 11, Table 12, and Table 13 for every year of the study period.

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6

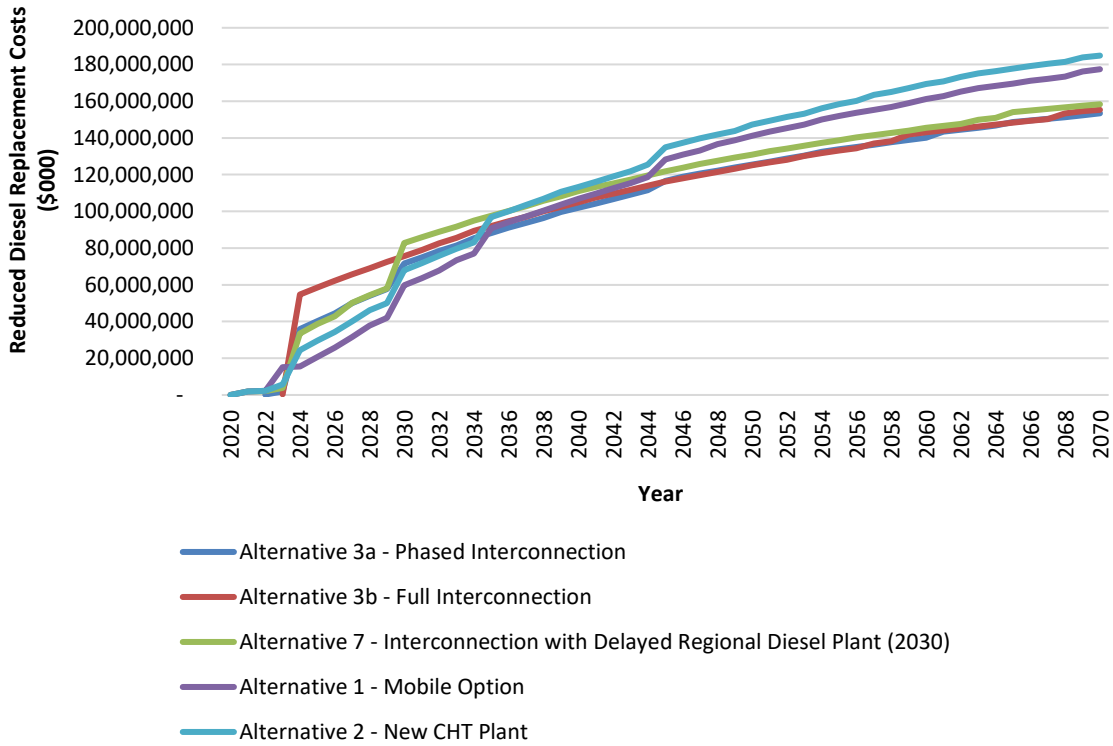
7 A. The Cumulative Net Present Value for each alternative examined in Table 11, Table 12 and
 8 Table 13 of Technical Note RP-TN-054¹ for every year of the study period is provided as Table 1,
 9 Table 2, and Table 3, respectively, and provided in graphical format as Chart 1, Chart 2, and
 10 Chart 3, respectively.

**Table 1: CPW Analysis Results (2020–2070) – 50-Year Study
 (\$000s – Nominal)**

Year	Alternative 3a - Phased Interconnection	Alternative 3b - Full Interconnection	Alternative 7 - Interconnection with Delayed Regional Diesel Plant (2030)	Alternative 1 - Mobile Option	Alternative 2 - New CHT Plant
2020	-	-	-	-	-
2021	-	-	1,840,340	1,840,340	1,840,340
2022	223,717	-	2,064,057	2,287,774	2,287,774
2023	1,876,854	354,664	3,845,528	15,111,530	5,809,389
2024	35,892,605	54,717,867	33,519,817	15,569,782	24,420,888
2025	40,201,401	58,511,983	38,637,480	20,782,001	29,559,549
2026	44,401,959	62,125,182	42,777,345	25,730,272	34,243,385
2027	49,953,049	65,635,846	50,215,800	31,592,135	40,036,366
2028	53,999,600	69,020,843	54,373,082	37,818,398	46,145,435
2029	57,644,258	72,435,599	58,048,820	41,903,521	49,956,834
2030	71,648,588	75,620,472	82,848,033	59,712,711	67,952,281
2031	74,954,926	78,952,293	85,912,273	63,597,937	71,777,192
2032	78,394,073	82,546,536	88,875,602	67,755,684	75,876,835
2033	81,395,048	85,581,164	91,746,317	73,363,457	79,580,451
2034	85,366,444	89,419,070	94,935,636	76,971,592	83,116,817

¹ “Long-Term Supply for Southern Labrador– Phase 1 - Supplemental Information,” Newfoundland and Labrador Hydro, March 17, 2022, att. 2, p. 8, table 11, p. 9, table 12 and table 13.

Year	Alternative 3a - Phased Interconnection	Alternative 3b - Full Interconnection	Alternative 7 - Interconnection with Delayed Regional Diesel Plant (2030)	Alternative 1 - Mobile Option	Alternative 2 - New CHT Plant
2035	88,155,640	92,083,028	97,599,595	90,760,301	96,853,176
2036	91,163,678	94,666,073	100,182,639	94,073,860	100,116,231
2037	93,749,882	97,135,611	102,870,584	97,182,233	103,495,651
2038	96,320,535	100,085,545	105,766,331	100,442,903	106,828,050
2039	99,637,137	102,493,933	108,174,719	103,707,051	110,655,195
2040	101,976,098	104,933,912	111,081,233	106,746,270	113,276,200
2041	104,281,106	107,533,324	113,215,394	109,657,112	116,019,464
2042	106,571,618	109,602,295	115,284,364	112,615,989	118,951,304
2043	109,153,895	111,713,701	117,272,252	115,378,878	121,840,279
2044	111,502,321	113,913,148	119,471,699	118,747,482	125,400,363
2045	116,644,244	116,222,991	121,801,452	128,233,181	134,861,675
2046	118,844,222	118,045,859	123,785,378	130,902,663	137,409,441
2047	120,572,734	119,774,371	125,893,641	133,220,068	139,704,109
2048	122,253,299	121,453,716	127,572,986	136,573,412	141,834,645
2049	123,940,253	123,286,177	129,259,939	138,730,693	143,864,308
2050	125,498,275	125,187,287	130,919,286	141,252,670	147,276,263
2051	127,010,702	126,698,611	132,795,447	143,368,499	149,372,366
2052	128,810,566	128,177,842	134,274,678	145,408,274	151,393,098
2053	130,280,017	130,205,763	135,744,129	147,271,032	153,159,978
2054	132,380,828	131,762,687	137,301,053	150,085,333	156,228,560
2055	133,808,721	133,071,813	138,728,947	151,950,068	158,437,459
2056	135,074,537	134,337,629	140,274,800	153,777,350	160,178,180
2057	136,301,896	136,959,038	141,501,259	155,290,740	163,537,436
2058	137,644,949	138,158,151	142,700,371	156,812,690	165,043,958
2059	138,944,237	141,908,049	143,999,660	159,029,624	167,170,096
2060	140,051,173	143,014,172	145,563,906	161,249,821	169,355,812
2061	143,429,258	144,076,474	146,626,209	162,708,878	170,730,053
2062	144,455,208	145,102,424	147,652,159	165,179,422	173,187,193
2063	145,451,194	146,167,816	149,816,325	167,080,748	175,152,916
2064	146,750,488	147,281,438	150,929,947	168,316,807	176,376,481
2065	148,681,425	148,337,463	154,053,945	169,577,020	177,690,914
2066	149,578,638	149,315,863	154,950,495	171,067,844	179,166,098
2067	150,440,663	150,177,888	155,812,520	172,224,239	180,311,251
2068	151,274,184	153,438,624	156,646,041	173,399,095	181,419,281
2069	152,356,742	154,520,583	157,491,245	176,243,599	183,827,148
2070	153,416,744	155,310,330	158,338,529	177,432,303	184,847,070

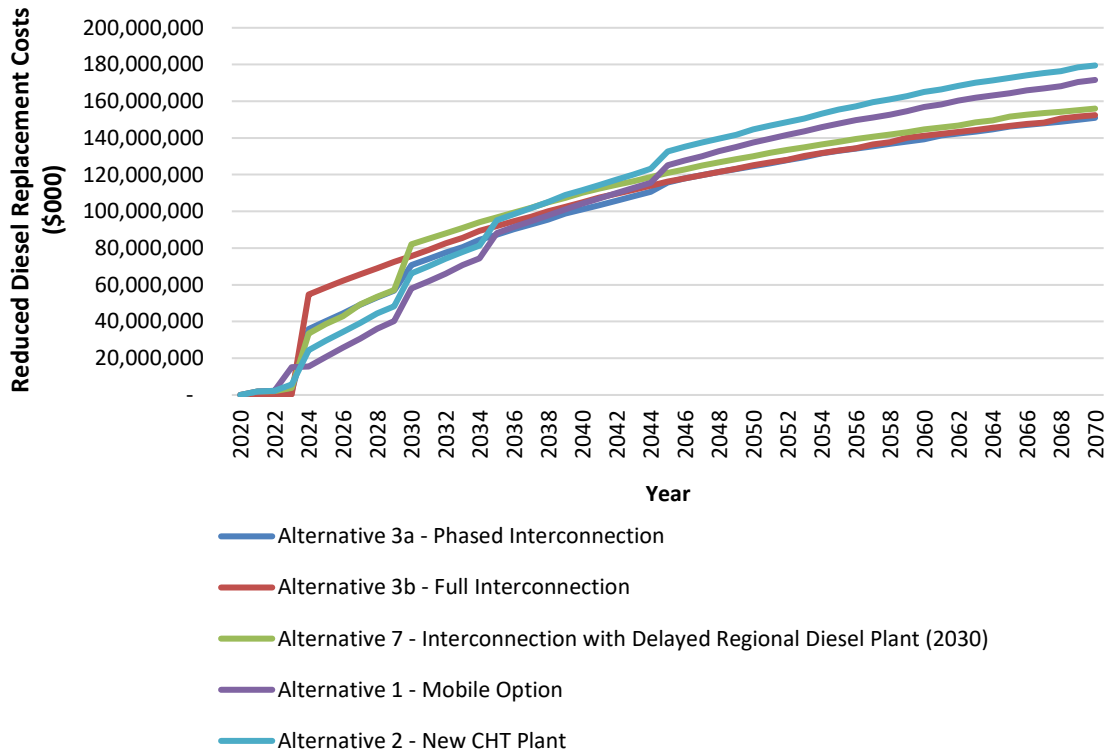


**Chart 1: Alternative Comparison Cumulative Net Present Value
 Southern Labrador Interconnection
 (Delayed Plant until 2030)**

**Table 2: CPW Analysis Results – Sensitivity Analysis (Reduced Diesel Plant Replacement Costs)
 (\$000s – Nominal)**

Year	Alternative 3a - Phased Interconnection	Alternative 3b - Full Interconnection	Alternative 7 - Interconnection with Delayed Regional Diesel Plant (2030)	Alternative 1 - Mobile Option	Alternative 2 - New CHT Plant
2020	-	-	-	-	-
2021	-	-	1,840,340	1,840,340	1,840,340
2022	223,717	-	2,064,057	2,287,774	2,287,774
2023	1,876,854	354,664	3,845,528	15,111,530	5,809,389
2024	35,892,605	54,717,867	33,519,817	15,569,782	24,420,888
2025	40,201,401	58,511,983	38,637,480	20,782,001	29,559,549
2026	44,401,959	62,125,182	42,777,345	25,730,272	34,243,385
2027	49,098,386	65,635,846	49,361,137	30,737,472	39,181,703
2028	53,144,937	69,020,843	53,518,419	36,132,916	44,459,953
2029	56,789,594	72,435,599	57,194,157	40,218,038	48,271,351
2030	70,793,925	75,620,472	81,993,369	58,027,228	66,266,798
2031	74,100,263	78,952,293	85,057,610	61,912,454	70,091,709
2032	77,539,410	82,546,536	88,020,939	66,070,201	74,191,352
2033	80,540,385	85,581,164	90,891,654	70,760,063	77,894,968
2034	84,511,781	89,419,070	94,080,973	74,368,197	81,431,334
2035	87,300,977	92,083,028	96,744,931	88,156,906	95,167,693
2036	90,309,015	94,666,073	99,327,976	91,470,465	98,430,749
2037	92,895,219	97,135,611	102,015,921	94,578,838	101,810,168
2038	95,465,872	100,085,545	104,911,668	97,839,508	105,142,567
2039	98,782,474	102,493,933	107,320,056	101,103,656	108,969,712
2040	101,121,434	104,933,912	110,226,570	104,142,875	111,590,717
2041	103,426,443	107,533,324	112,360,731	107,053,717	114,333,981
2042	105,716,955	109,602,295	114,429,701	110,012,594	117,265,821
2043	108,299,232	111,713,701	116,417,589	112,775,483	120,154,797
2044	110,647,658	113,913,148	118,617,036	115,615,769	123,186,562
2045	115,789,580	116,222,991	120,946,789	125,101,468	132,647,874
2046	117,989,558	118,045,859	122,930,714	127,770,950	135,195,640
2047	119,718,071	119,774,371	125,038,978	130,088,355	137,490,308
2048	121,398,636	121,453,716	126,718,323	132,841,248	139,620,844
2049	123,085,590	123,286,177	128,405,276	134,998,529	141,650,507
2050	124,643,612	125,187,287	130,064,623	137,520,506	144,616,636
2051	126,156,039	126,698,611	131,940,784	139,636,334	146,712,739
2052	127,955,903	128,177,842	133,420,015	141,676,110	148,733,470
2053	129,425,354	130,205,763	134,889,466	143,538,868	150,500,351
2054	131,526,164	131,762,687	136,446,390	145,955,049	153,170,814

Year	Alternative 3a - Phased Interconnection	Alternative 3b - Full Interconnection	Alternative 7 - Interconnection with Delayed Regional Diesel Plant (2030)	Alternative 1 - Mobile Option	Alternative 2 - New CHT Plant
2055	132,954,058	133,071,813	137,874,284	147,819,784	155,379,712
2056	134,219,873	134,337,629	139,420,136	149,647,067	157,120,433
2057	135,447,233	136,410,458	140,646,596	151,160,457	159,548,766
2058	136,790,286	137,609,571	141,845,708	152,682,407	161,055,288
2059	138,089,574	140,134,164	143,144,997	154,553,742	162,835,827
2060	139,196,510	141,240,287	144,709,243	156,773,939	165,021,543
2061	141,416,704	142,302,589	145,771,545	158,232,996	166,395,784
2062	142,442,654	143,328,540	146,797,496	160,299,483	168,448,867
2063	143,438,640	144,393,931	148,498,736	161,892,192	170,105,973
2064	144,737,933	145,507,553	149,612,359	163,128,251	171,329,538
2065	146,231,414	146,563,578	151,702,370	164,388,464	172,643,970
2066	147,128,628	147,541,978	152,598,920	165,879,287	174,119,155
2067	147,990,653	148,404,003	153,460,945	167,035,683	175,264,308
2068	148,824,174	150,544,416	154,294,466	168,210,539	176,372,338
2069	149,906,732	151,626,374	155,139,670	170,392,131	178,448,749
2070	150,966,734	152,416,121	155,986,955	171,580,835	179,468,671

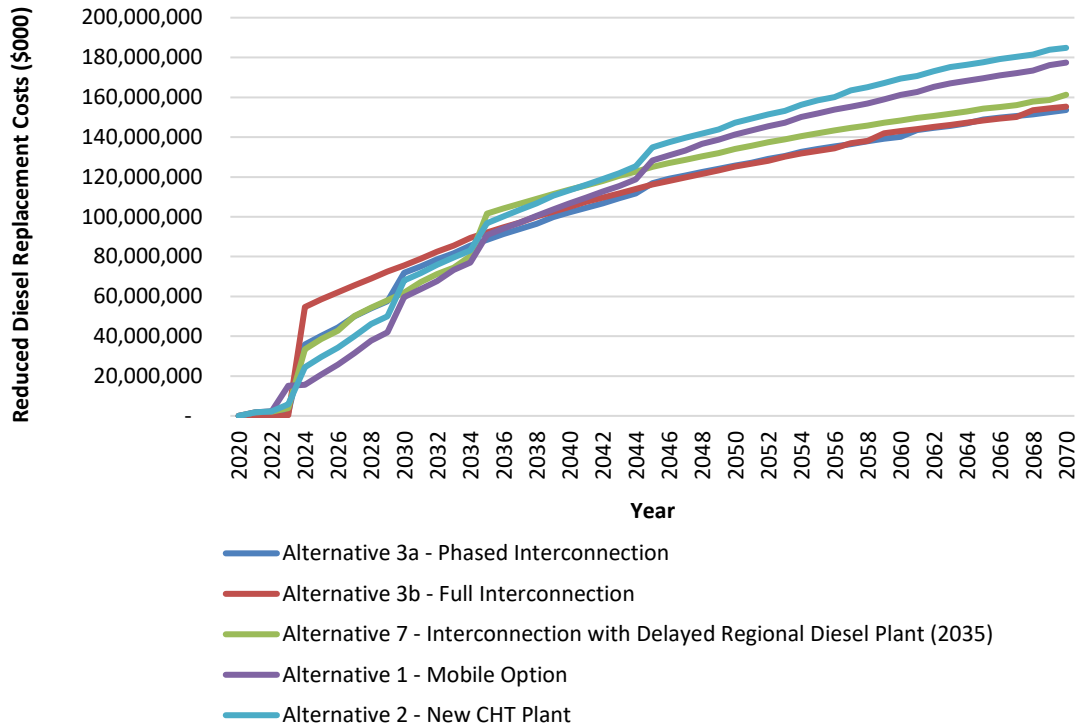


**Chart 2: Alternative Comparison Cumulative Net Present Value
 Southern Labrador Interconnection
 (Reduced Diesel Plant Replacement Costs)**

Table 3: CPW Analysis Results – Sensitivity Analysis (Regional Plant Delayed Until 2035)
 (\$000s – Nominal)

Year	Alternative 3a - Phased Interconnection	Alternative 3b - Full Interconnection	Alternative 7 - Interconnection with Delayed Regional Diesel Plant (2035)	Alternative 1 - Mobile Option	Alternative 2 - New CHT Plant
2020	-	-	-	-	-
2021	-	-	1,840,340	1,840,340	1,840,340
2022	223,717	-	2,064,057	2,287,774	2,287,774
2023	1,876,854	354,664	3,845,528	15,111,530	5,809,389
2024	35,892,605	54,717,867	33,519,817	15,569,782	24,420,888
2025	40,201,401	58,511,983	38,637,480	20,782,001	29,559,549
2026	44,401,959	62,125,182	42,777,345	25,730,272	34,243,385
2027	49,953,049	65,635,846	50,215,800	31,592,135	40,036,366
2028	53,999,600	69,020,843	54,373,082	37,818,398	46,145,435
2029	57,644,258	72,435,599	58,048,820	41,903,521	49,956,834
2030	71,851,118	75,620,472	61,987,849	59,712,711	67,952,281
2031	75,157,456	78,952,293	67,167,979	63,597,937	71,777,192
2032	78,596,603	82,546,536	71,202,353	67,755,684	75,876,835
2033	81,597,578	85,581,164	74,478,571	73,363,457	79,580,451
2034	85,568,974	89,419,070	80,203,484	76,971,592	83,116,817
2035	88,358,169	92,083,028	101,602,035	90,760,301	96,853,176
2036	91,366,208	94,666,073	104,185,080	94,073,860	100,116,231
2037	93,952,412	97,135,611	106,654,619	97,182,233	103,495,651
2038	96,523,065	100,085,545	109,035,395	100,442,903	106,828,050
2039	99,839,667	102,493,933	111,443,784	103,707,051	110,655,195
2040	102,178,627	104,933,912	113,686,443	106,746,270	113,276,200
2041	104,483,636	107,533,324	115,820,604	109,657,112	116,019,464
2042	106,774,148	109,602,295	118,073,979	112,615,989	118,951,304
2043	109,356,424	111,713,701	120,496,669	115,378,878	121,840,279
2044	111,704,850	113,913,148	122,696,116	118,747,482	125,400,363
2045	116,846,773	116,222,991	125,122,682	128,233,181	134,861,675
2046	119,046,751	118,045,859	126,945,550	130,902,663	137,409,441
2047	120,775,264	119,774,371	128,674,062	133,220,068	139,704,109
2048	122,455,829	121,453,716	130,353,407	136,573,412	141,834,645
2049	124,142,783	123,286,177	132,040,360	138,730,693	143,864,308
2050	125,700,805	125,187,287	134,003,680	141,252,670	147,276,263
2051	127,213,232	126,698,611	135,650,989	143,368,499	149,372,366
2052	129,013,096	128,177,842	137,450,853	145,408,274	151,393,098
2053	130,482,547	130,205,763	138,920,304	147,271,032	153,159,978
2054	132,583,357	131,762,687	140,477,228	150,085,333	156,228,560

Year	Alternative 3a - Phased Interconnection	Alternative 3b - Full Interconnection	Alternative 7 - Interconnection with Delayed Regional Diesel Plant (2035)	Alternative 1 - Mobile Option	Alternative 2 - New CHT Plant
2055	134,011,251	133,071,813	141,874,311	151,950,068	158,437,459
2056	135,277,066	134,337,629	143,448,168	153,777,350	160,178,180
2057	136,504,426	136,959,038	144,674,627	155,290,740	163,537,436
2058	137,847,479	138,158,151	145,873,740	156,812,690	165,043,958
2059	139,146,767	141,908,049	147,173,028	159,029,624	167,170,096
2060	140,253,703	143,014,172	148,379,429	161,249,821	169,355,812
2061	143,631,788	144,076,474	149,678,174	162,708,878	170,730,053
2062	144,657,738	145,102,424	150,704,124	165,179,422	173,187,193
2063	145,653,724	146,167,816	151,699,375	167,080,748	175,152,916
2064	146,953,017	147,281,438	152,812,998	168,316,807	176,376,481
2065	148,883,954	148,337,463	154,266,710	169,577,020	177,690,914
2066	149,781,168	149,315,863	155,163,260	171,067,844	179,166,098
2067	150,643,193	150,177,888	156,025,285	172,224,239	180,311,251
2068	151,476,714	153,438,624	157,867,741	173,399,095	181,419,281
2069	152,559,272	154,520,583	158,712,946	176,243,599	183,827,148
2070	153,619,274	155,310,330	161,297,855	177,432,303	184,847,070



**Chart 3: Alternative Comparison Cumulative Net Present Value
 Southern Labrador Interconnection
 (Delayed Plant until 2035)**