Q. Reference: Application, Attachment 1, Page 19, Lines 6 - 9

On Page 19 at Lines 6 - 9, Hydro states:

Hydro forecasts that the total annual O&M cost for all four diesel generating stations would be approximately \$2.15 million per year over the 50-year duration of the study. Hydro estimates that by supplying southern Labrador with one centralized diesel generating station, the overall O&M costs would reduce by approximately \$670,000 per year.

Please provide detailed O&M cost estimates by function (i.e. generation, distribution, etc.) and by generating station annually over the 50-year duration of the study for both the status quo alternative of 4 diesel generating stations and one centralized diesel generating station. Please state all assumptions including decommissioning dates associated with existing generating stations and commissioning dates associated with any new generating assets.

A. Please refer to Newfoundland and Labrador Hydro's ("Hydro") response to LAB-NLH-007 for details on the assumptions used when calculating the operations and maintenance ("O&M") cost estimates. A detailed O&M cost estimate by function is included in NP-NLH-027, Attachment 1 (Revision 1). Table 1 shows the decommissioning date associated the existing generation stations and Table 2 shows the commissioning dates associated with new generating stations.

Table 1: Projected Decommissioning Years

Diesel Generation Station	Alternative 1	Alternative 3A		
Mary's Harbour	2030	2030		
Port Hope Simpson	2035	2024		
St. Lewis	2045	2045		
Charlottetown (Temporary Setup)	N/A	2024		

Table 2: Projected Commissioning Years

Diesel Generation Station	Alternative 1	Alternative 3A
Charlottetown	2023	N/A
Mary's Harbour	2030	N/A
Port Hope Simpson	2035	N/A
St. Lewis	2045	N/A
Regional	N/A	2024

Alternative 1						1 486 1 01 2	
	Generation O&M Costs						Total
		Mary's	Port Hope		Distribution		(Adjusted for
Year	Charlottetown	Harbour	Simpson	St. Lewis	O&M Costs	Total ¹	Inflation)
2025	\$621,683	\$397,500	\$276,000	\$230,000	\$0	\$1,525,183	1,695,887
2026	\$622,139	\$397,500	\$276,000	\$230,000	\$0	\$1,525,639	1,732,600
2027	\$622,596	\$397,500	\$276,000	\$230,000	\$0	\$1,526,096	1,770,108
2028	\$623,054	\$397,500	\$276,000	\$230,000	\$0	\$1,526,554	1,808,428
2029	\$623,512	\$397,500	\$276,000	\$230,000	\$0	\$1,527,012	1,847,579
2030	\$623,972	\$397,500	\$276,000	\$230,000	\$0	\$1,527,472	1,887,578
2031	\$624,431	\$466,734	\$276,000	\$230,000	\$0	\$1,597,165	2,015,826
2032	\$624,892	\$467,063	\$276,000	\$230,000	\$0	\$1,597,955	2,059,867
2033	\$625,353	\$467,392	\$276,000	\$230,000	\$0	\$1,598,745	2,104,870
2034	\$625,815	\$467,723	\$276,000	\$230,000	\$0	\$1,599,538	2,150,858
2035	\$625,969	\$468,053	\$276,000	\$230,000	\$0	\$1,600,023	2,197,429
2036	\$626,123	\$468,136	\$419,173	\$230,000	\$0	\$1,743,433	2,445,487
2037	\$626,278	\$468,219	\$419,542	\$230,000	\$0	\$1,744,039	2,498,548
2038	\$626,432	\$468,302	\$419,913	\$230,000	\$0	\$1,744,647	2,552,762
2039	\$626,587	\$468,385	\$420,284	\$230,000	\$0	\$1,745,256	2,608,154
2040	\$596,896	\$468,468	\$420,284	\$230,000	\$0	\$1,715,649	2,618,629
2041	\$597,044	\$468,510	\$420,284	\$230,000	\$0	\$1,715,838	2,674,811
2042	\$597,044	\$468,551	\$420,284	\$230,000	\$0	\$1,715,879	2,731,964
2043	\$597,044	\$468,593	\$420,284	\$230,000	\$0	\$1,715,921	2,790,338
2044	\$597,044	\$468,634	\$420,284	\$230,000	\$0	\$1,715,962	2,849,960
2045	\$597,044	\$468,676	\$420,284	\$230,000	\$0	\$1,716,004	2,910,856
2046	\$597,044	\$468,718	\$420,284	\$407,641	\$0	\$1,893,686	3,280,816
2047	\$597,044	\$468,759	\$420,284	\$407,641	\$0	\$1,893,728	3,350,910
2048	\$597,044	\$468,801	\$420,284	\$407,641	\$0	\$1,893,770	3,422,501
2049	\$597,044	\$468,842	\$420,284	\$407,641	\$0	\$1,893,811	3,495,623
2050	\$597,044	\$468,884	\$420,284	\$407,641	\$0	\$1,893,853	3,570,306
2051	\$597,044	\$468,884	\$420,284	\$407,641	\$0	\$1,893,853	3,646,505
2052	\$597,044	\$468,884	\$420,284	\$407,641	\$0	\$1,893,853	3,724,330
2053	\$597,044	\$468,884	\$420,284	\$407,641	\$0	\$1,893,853	3,803,817
2054	\$597,044	\$468,884	\$420,284	\$407,641		\$1,893,853	3,884,999
2055	\$597,044	\$468,884	\$420,284	\$407,641	\$0	\$1,893,853	3,967,915
2056	\$597,044	\$468,884	\$420,284	\$407,641	\$0	\$1,893,853	4,052,600
2057	\$597,044	\$468,884	\$420,284	\$407,641	\$0	\$1,893,853	4,139,092
2058	\$597,044	\$468,884	\$420,284	\$407,641	\$0	\$1,893,853	4,227,430
2059	\$597,044	\$468,884	\$420,284	\$407,641	\$0	\$1,893,853	4,317,654
2060	\$597,044	\$468,884	\$420,284	\$407,641	\$0	\$1,893,853	4,409,803
2061	\$597,044	\$468,884	\$420,284	\$407,641	\$0	\$1,893,853	4,503,919
2062	\$597,044	\$468,884	\$420,284	\$407,641	\$0	\$1,893,853	4,600,043
2063	\$597,044	\$468,884	\$420,284	\$407,641	\$0	\$1,893,853	4,698,219
2064	\$597,044	\$468,884	\$420,284	\$407,641	\$0	\$1,893,853	4,798,491
2065	\$597,044	\$468,884	\$420,284	\$407,641	\$0	\$1,893,853	4,900,902
2066	\$597,044	\$468,884	\$420,284	\$407,641	\$0	\$1,893,853	5,005,499
2067	\$597,044	\$468,884	\$420,284	\$407,641	\$0	\$1,893,853	5,112,328
2068	\$597,044	\$468,884	\$420,284	\$407,641	\$0	\$1,893,853	5,221,438
2069	\$597,044	\$468,884	\$420,284	\$407,641	\$0	\$1,893,853	5,332,876
2070	\$597,044	\$468,884	\$420,284	\$407,641	\$0	\$1,893,853	5,446,693

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			Alterna	ative 3a			
		Generation	O&M Costs				Total
		Mary's	Port Hope		Distribution		(Adjusted for
Year	Regional	Harbour	Simpson	St. Lewis	O&M Costs	Total ²	Inflation)
2025	\$675,614	\$397,500	•	\$230,000	\$30,767	\$1,333,880	\$1,483,173
2026	\$676,351	\$397,500		\$230,000	\$557	\$1,304,407	\$1,481,356
2027	\$677,089	\$397,500		\$230,000	\$3,207	\$1,307,796	\$1,516,903
2028	\$677,830	\$397,500		\$230,000	\$2,677	\$1,308,007	\$1,549,527
2029	\$678,572	\$397,500		\$230,000	\$83,555	\$1,389,627	\$1,681,352
2030	\$679,316	\$397,500		\$230,000	\$3,207	\$1,310,023	\$1,618,865
2031	\$942,704			\$230,000	\$142,163	\$1,314,867	\$1,659,530
2032	\$943,968			\$230,000	\$146,283	\$1,320,251	\$1,701,888
2033	\$945,234			\$230,000	\$155,038	\$1,330,272	\$1,751,404
2034	\$946,503			\$230,000		\$1,882,591	\$2,531,473
2035	\$947,543			\$230,000	\$142,163	\$1,319,706	\$1,812,449
2036	\$948,236			\$230,000	\$159,158	\$1,337,394	\$1,875,942
2037	\$948,930			\$230,000	\$142,163	\$1,321,093	\$1,892,626
2038	\$949,626			\$230,000	\$142,163	\$1,321,789	\$1,934,037
2039	\$950,323			\$230,000		\$1,496,659	\$2,236,645
2040	\$950,556			\$230,000	\$204,993	\$1,385,549	\$2,114,791
2041	\$950,730			\$230,000	\$142,163	\$1,322,893	\$2,062,252
2042	\$950,789			\$230,000	\$155,038	\$1,335,827	\$2,126,858
2043	\$950,847			\$230,000	\$142,163	\$1,323,010	\$2,151,409
2044	\$950,906			\$230,000		\$1,832,404	\$3,043,352
2045	\$950,964			\$230,000		\$1,336,002	\$2,266,259
	\$1,017,371				\$218,603	\$1,235,974	\$2,141,328
2047	\$1,017,430				\$142,793	\$1,160,223	\$2,052,989
	\$1,017,488				\$171,388	\$1,188,876	\$2,148,588
2049	\$1,017,547				\$351,071	\$1,368,618	\$2,526,214
2050	\$1,017,605				\$142,793	\$1,160,398	\$2,187,592
2051	\$1,017,605				\$166,068	\$1,183,673	\$2,279,095
2052	\$1,017,605				\$223,923	\$1,241,528	\$2,441,511
2053	\$1,017,605				\$355,593	\$1,373,198	\$2,758,079
2054	\$1,017,605				\$818,433	\$1,836,038	\$3,766,400
2055	\$1,017,605				\$142,793	\$1,160,398	\$2,431,214
2056	\$1,017,605				\$148,113	\$1,165,718	\$2,494,486
2057	\$1,017,605				\$166,068	\$1,183,673	\$2,586,966
2058	\$1,017,605				\$218,603	\$1,236,208	\$2,759,446
2059	\$1,017,605				\$776,671	\$1,794,276	\$4,090,637
	\$1,017,605				\$171,388	\$1,188,993	\$2,768,550
	\$1,017,605				\$142,793	\$1,160,398	\$2,759,634
	\$1,017,605				\$142,793	\$1,160,398	\$2,818,531
2063	\$1,017,605				\$166,068	\$1,183,673	\$2,936,425
	\$1,017,605				\$876,288	\$1,893,893	\$4,798,593
	\$1,017,605				\$781,193	\$1,798,798	\$4,654,921
	\$1,017,605				\$166,068	\$1,183,673	\$3,128,478
	\$1,017,605				\$142,793	\$1,160,398	\$3,132,418
	\$1,017,605				\$148,113	\$1,165,718	\$3,213,938
	\$1,017,605				\$374,346	\$1,391,951	\$3,919,578
	\$1,017,605				\$218,603	\$1,236,208	\$3,555,317

² Dollars are reflective of 2020 dollars.