

1 Q. **Tab H; Volume 1: 2020 Capital Expenditures Overview**

2 Please reconcile the Project Variance of (\$2,487.2 million) on page HA-3 with the Hydraulic  
3 variance of (\$2,393 million) on Page HA-1.

4

5

6 A. The Total Hydraulic Project Variance is \$2.393 million. Please refer to PUB-NLH-025, Attachment  
7 1 for revised copies of Section H, Appendix A (HA-1 to HA-16).



**Total Capital Project Variance  
 2020 Overview  
 (\$000)**

Asset Type	Board Approved Budget	Total Project Expenditures and Forecast	Variance
HYDRAULIC	56,204	53,811	(2,393)
THERMAL	9,336	9,336	0
GAS TURBINES	24,128	18,653	(5,475)
TERMINAL STATIONS	123,280	111,103	(12,178)
TRANSMISSION	22,771	22,771	0
DISTRIBUTION	18,106	18,106	0
RURAL GENERATION	28,707	29,521	814
PROPERTIES	1,378	1,378	0
METERING	244	244	0
RURAL SYSTEMS TOOLS AND EQUIPMENT	2,139	2,232	93
INFORMATION SYSTEMS	1,585	1,585	0
TELECONTROL	1,737	1,737	(0)
TRANSPORTATION	7,473	7,473	0
ADMINISTRATIVE	996	996	0
ALLOWANCE FOR UNFORESEEN	1,000	1,738	738
SUPPLEMENTAL PROJECTS	8,343	8,343	0
PROJECTS APPROVED FOR LESS THAN \$50,000	25	25	0
[]	[]	[]	[]
<b>TOTAL CAPITAL BUDGET</b>	<b>307,452</b>	<b>289,052</b>	<b>(18,400)</b>

2020 Capital Expenditures By Year  
(\$000)

Summary	Actual Expenditure and Forecast										K-F Project Variance	H+I-D Annual Variance		
	A		B		C		D (B+C)		E				F (A+C+E)	
	2016	2017	2018	2019	2020	Original 2020	Revised 2020	2021 and Beyond	Total	Forecast Jul-Dec 2020		2021 and Beyond	Total	
										G	H	I	J	K (G+H+I+J)
2020 Projects	-	-	-	-	-	55,564.6	55,564.6	37,611.7	93,176.3	-	10,498.4	52,470.9	37,611.7	113,109.5
2019 Projects	-	-	-	40,844.7	3,479.2	43,723.9	47,203.1	-	84,568.6	-	12,528.5	52,470.9	37,611.7	113,109.5
2018 Projects	-	-	31,552.5	35,844.9	13,021.0	3,715.0	16,736.0	-	71,112.4	-	22,180.3	34,682.6	-	62,294.4
2017 Projects	-	532.4	3,394.5	2,337.6	189.6	1,429.6	1,619.2	-	7,694.1	-	13,941.1	12,128.3	-	55,772.7
2016 Projects	6,969.1	10,808.7	15,408.6	6,597.3	2,220.5	11,116.8	13,337.3	-	50,900.5	-	225.8	1,312.9	-	6,974.7
COVID-19 Adj	-	-	-	-	-	-	-	-	-	-	8,877.8	11,795.1	-	50,900.5
<b>Grand Total</b>	<b>6,969.1</b>	<b>11,341.1</b>	<b>50,355.6</b>	<b>85,624.5</b>	<b>18,910.3</b>	<b>115,549.9</b>	<b>134,460.2</b>	<b>37,611.7</b>	<b>307,451.9</b>	<b>5,599.5</b>	<b>9,103.6</b>	<b>22,761.0</b>	<b>66,182.1</b>	<b>289,051.8</b>

2020 Capital Budget Approved by Board Order No. P.U. 6 (2020)	107,576.1
New Project Approved by Board Order No. 39 (2019)	244.0
New Project Approved by Board Order No. 39 (2019)	(192.6)
New Project Approved by Board Order No. 7 (2020)	2,059.4
New Project Approved by Board Order No. 7 (2020)	(1,800.0)
New Project Approved by Board Order No. 14 (2020)	7,638.2
2020 New Projects under \$50,000 Approved by Hydro	25.0
Total Approved Capital Budget Before Carryovers	115,550.2
Carryover Projects 2019 to 2020	18,910.3
<b>TOTAL APPROVED CAPITAL BUDGET</b>	<b>134,460.5</b>

<sup>1</sup> Annual budgets previous to 2020 pertain to projects that have expenditures in 2019.

**2020 Capital Expenditures By Category  
 (\$'000)**

	Capital Budget												Actual Expenditure and Forecast		H+I-D													
	A	2016	2017	2018	2019	B Carryover to 2020	C Original 2020	D (B+C) Revised 2020	E 2021 and Beyond	F (A+C+E) Total	G	2016	2017	2018	2019	H 2020	I Forecast Jul-Dec 2020	J 2021 and Beyond	K (G+H+I+J) Total	K-F Project Variance	H+I-D Annual Variance	Notes						
																							2019		2020		2021 and Beyond	
																							2017	2018	2019	2020	2021 and Beyond	Total
<b>Hydraulic Generation Projects</b>																												
2020 Projects																												
Hydraulic in-Service Failures	-	-	-	-	-	-	1,250.0	-	-	-	-	-	-	-	-	1,250.0	1,073.4	-	-	-	-	-	-	-	-			
Hydraulic Generation Refurbishment and Modernization - Various Sites	-	-	-	-	-	-	6,580.2	10,249.8	16,830.0	-	-	-	-	-	1,000.7	5,673.7	10,249.8	16,924.2	-	94.2	-	-	-	-	94.2	-		
Purchase Tools and Equipment Less than \$ 50,000	-	-	-	-	-	-	21.0	-	21.0	-	-	-	-	-	1.0	20.0	-	21.0	-	-	-	-	-	-	-	-		
2019 Projects																												
Hydraulic Generation Refurbishment and Modernization - Various Sites	-	-	-	10,313.6	1,875.8	1,875.8	5,486.4	7,362.2	-	15,800.0	-	-	-	-	8,893.9	857.1	6,505.1	-	16,256.1	456.1	-	-	-	-	-	-		
2018 Projects																												
Hydraulic Generation Refurbishment and Modernization - Various Sites	-	-	10,325.4	4,283.1	3,160.6	3,160.6	-	-	14,608.5	-	-	-	-	-	5,856.3	3,367.7	74.0	-	12,384.5	(2,224.0)	-	-	-	-	-	-		
2017 Projects																												
Refurbish Powerhouse Station Services - Bay d'Espoir	-	413.2	2,473.3	1,460.6	157.2	157.2	-	-	4,347.1	-	43.0	1,003.5	2,643.4	103.9	53.3	53.3	-	3,847.2	(499.9)	-	-	-	-	-	-	-		
Replace Exciter Controls Units 1 to 6 - Bay d'Espoir	-	119.2	921.2	877.0	32.4	1,429.6	1,462.0	-	3,347.0	-	182.7	628.9	853.9	202.4	1,259.6	1,259.6	-	3,127.6	(219.4)	-	-	-	-	-	-	-		
<b>Total Hydraulic Generation Projects</b>	-	532.4	13,719.9	16,934.3	5,226.0	14,767.2	19,993.2	10,249.8	56,203.6	-	225.8	7,488.7	15,758.9	2,415.7	17,671.7	17,671.7	10,249.8	53,810.6	(2,393.0)	94.2	-	-	-	-	-	-		

2020 Capital Expenditures By Category  
 (\$000)

Thermal Generation Projects	Capital Budget											Actual Expenditure and Forecast				K-F								
	A	2016	2017	2018	2019	B Carryover to 2020	C Original 2020	D (B+C)		E 2021 and Beyond	F (A+C+E) Total	G	2016	2017	2018	2019	2020	Forecast		J 2021 and Beyond	K (G+H+I+J) Total	Project Variance	Annual Variance	Notes
								Original	Revised									H 2020	I Jul-Dec 2020					
2020 Projects	-	-	-	-	-	-	1,281.4	1,281.4	5,664.2	6,945.6	-	-	-	-	-	-	44.9	1,236.5	5,664.2	6,945.6	-	-	-	-
Rewind Unit 3 Stator - Holyrood	-	-	-	-	-	-	348.7	348.7	-	348.7	-	-	-	-	-	-	48.4	300.3	-	348.7	-	-	-	-
Upgrade Uninterruptible Power Supply 3 & 4 - Holyrood	-	-	-	-	-	-	2,000.0	2,000.0	-	2,000.0	-	-	-	-	-	-	254.1	1,745.9	-	2,000.0	-	-	-	-
Thermal In-Service Failures	-	-	-	-	-	-	41.7	41.7	-	41.7	-	-	-	-	-	-	-	41.7	-	41.7	-	-	-	-
Purchase Tools and Equipment Less than \$ 50,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Thermal Generation Projects</b>	-	-	-	-	-	-	<b>3,671.8</b>	<b>3,671.8</b>	<b>5,664.2</b>	<b>9,336.0</b>	-	-	-	-	-	-	<b>347.4</b>	<b>3,324.4</b>	<b>5,664.2</b>	<b>9,336.0</b>	-	-	-	-

K-F	H+I-D
Project Variance	Annual Variance
-	-
-	-
-	-
-	-
-	-

2020 Capital Expenditures By Category  
 (\$'000)

	Capital Budget										Actual Expenditure and Forecast					K-F Project Variance	H+I-D Annual Variance	Notes	
	A		B		C	D (B+C)		E	F (A+C+E)		G		H	I	J				K (G+H+I+J)
	2016	2017	2018	2019	2020	Original 2020	Revised 2020	2021 and Beyond	Total	2016	2017	2018	2019	2020	Forecast Jul-Dec 2020				2021 and Beyond
<b>Gas Turbine Generation Projects</b>																			
<b>2020 Projects</b>																			
Perform Combustor Inspection - Holyrood Gas Turbine	-	-	-	-	-	546.1	546.1	4,927.4	4,927.4	5,473.5	-	-	-	28.3	517.8	4,927.4	5,473.5		
Install Partial Discharge Monitoring - Holyrood Gas Turbine	-	-	-	-	-	37.8	37.8	575.0	575.0	612.8	-	-	-	9.9	27.9	575.0	612.8		
Replace Fire Suppression System - Happy Valley Gas Turbine	-	-	-	-	-	264.6	264.6	2,377.9	2,377.9	2,642.5	-	-	-	93.3	171.3	2,377.9	2,642.5		
Generator Assessment - Happy Valley Gas Turbine	-	-	-	-	-	1,097.6	1,097.6	-	-	1,097.6	-	-	-	59.8	1,037.8	-	1,097.6		
<b>2019 Projects</b>																			
Overhaul Olympus Gas Generator - Stephenville	-	-	-	1,666.8	316.9	-	316.9	-	-	1,666.8	-	-	1,245.1	351.7	(34.8)	-	1,562.0		
Upgrade Compressed Air System - Holyrood Gas Turbine	-	-	-	70.7	53.1	317.7	370.8	-	-	388.4	-	-	17.7	102.2	268.6	-	388.4		
Replace Main Fuel Valves - Hardwoods	-	-	-	404.2	72.8	-	72.8	-	-	404.2	-	-	168.0	39.7	33.1	-	240.8		
<b>2018 Projects</b>																			
Increase Fuel and Water Treatment System Capacity - Holyrood Gas Turbine	-	-	8,829.9	3,012.7	488.0	-	488.0	-	-	11,842.6	-	-	2,583.8	220.9	267.1	-	6,635.7		
<b>Total Gas Turbine Generation Projects</b>	-	-	8,829.9	5,154.4	930.8	2,263.8	3,194.6	7,880.3	7,880.3	24,128.4	-	-	4,994.7	905.8	2,288.8	7,880.3	18,653.3		

	Capital Budget										Actual Expenditure and Forecast					K-F Project Variance	H+I-D Annual Variance	Notes	
	A		B		C	D (B+C)		E	F (A+C+E)		G		H	I	J				K (G+H+I+J)
	2016	2017	2018	2019	2020	Original 2020	Revised 2020	2021 and Beyond	Total	2016	2017	2018	2019	2020	Forecast Jul-Dec 2020				2021 and Beyond
<b>Gas Turbine Generation Projects</b>																			
<b>2020 Projects</b>																			
Perform Combustor Inspection - Holyrood Gas Turbine	-	-	-	-	-	546.1	546.1	4,927.4	4,927.4	5,473.5	-	-	-	28.3	517.8	4,927.4	5,473.5		
Install Partial Discharge Monitoring - Holyrood Gas Turbine	-	-	-	-	-	37.8	37.8	575.0	575.0	612.8	-	-	-	9.9	27.9	575.0	612.8		
Replace Fire Suppression System - Happy Valley Gas Turbine	-	-	-	-	-	264.6	264.6	2,377.9	2,377.9	2,642.5	-	-	-	93.3	171.3	2,377.9	2,642.5		
Generator Assessment - Happy Valley Gas Turbine	-	-	-	-	-	1,097.6	1,097.6	-	-	1,097.6	-	-	-	59.8	1,037.8	-	1,097.6		
<b>2019 Projects</b>																			
Overhaul Olympus Gas Generator - Stephenville	-	-	-	1,666.8	316.9	-	316.9	-	-	1,666.8	-	-	1,245.1	351.7	(34.8)	-	1,562.0		
Upgrade Compressed Air System - Holyrood Gas Turbine	-	-	-	70.7	53.1	317.7	370.8	-	-	388.4	-	-	17.7	102.2	268.6	-	388.4		
Replace Main Fuel Valves - Hardwoods	-	-	-	404.2	72.8	-	72.8	-	-	404.2	-	-	168.0	39.7	33.1	-	240.8		
<b>2018 Projects</b>																			
Increase Fuel and Water Treatment System Capacity - Holyrood Gas Turbine	-	-	8,829.9	3,012.7	488.0	-	488.0	-	-	11,842.6	-	-	2,583.8	220.9	267.1	-	6,635.7		
<b>Total Gas Turbine Generation Projects</b>	-	-	8,829.9	5,154.4	930.8	2,263.8	3,194.6	7,880.3	7,880.3	24,128.4	-	-	4,994.7	905.8	2,288.8	7,880.3	18,653.3		

2020 Capital Expenditures By Category (\$000)												
Capital Budget												
Terminal Stations Projects	A		B		C		D (B+C)		E		F (A+C+E)	
	2016	2017	2018	2019	Carryover to 2020	Original 2020	Revised 2020	2021 and Beyond	2021 and Beyond	Total		
2020 Projects												
Terminal Station In-Service Failures	-	-	-	-	-	1,500.0	1,500.0	-	-	1,500.0	-	1,500.0
Replace Transformer T7 - Holyrood Terminal Station	-	-	-	-	-	2,678.1	2,678.1	-	-	2,678.1	-	2,678.1
Purchase SF6 Multi Analyzer - Various	-	-	-	-	-	207.1	207.1	-	-	207.1	-	207.1
Terminal Station Refurbishment and Modernization - Various Sites	-	-	-	-	-	3,712.0	3,712.0	6,067.8	6,067.8	9,779.8	-	9,779.8
2019 Projects												
Upgrade Terminal Station for Mobile Substation - St. Anthony	-	-	-	89.3	47.5	402.7	450.2	-	-	492.0	-	492.0
Terminal Station Refurbishment and Modernization - Various Sites	-	-	-	10,891.1	1,199.2	19,061.8	20,261.0	-	-	29,952.9	-	29,952.9
2018 Projects												
Implement Terminal Station Flood Mitigation - Springdale	-	-	186.2	787.8	1,047.6	-	1,047.6	-	-	974.0	-	974.0
Terminal Station Refurbishment and Modernization - Various Sites	-	-	8,170.6	18,625.1	6,522.6	-	6,522.6	-	-	26,795.7	-	26,795.7
2016 Projects												
Upgrade Circuit Breakers - Various Sites	6,969.1	10,808.7	15,408.6	6,597.3	2,220.5	11,116.8	13,337.3	-	-	50,900.5	-	50,900.5
<b>Total Terminal Stations Projects</b>	<b>6,969.1</b>	<b>10,808.7</b>	<b>23,765.4</b>	<b>36,990.6</b>	<b>11,037.4</b>	<b>38,678.5</b>	<b>49,715.9</b>	<b>6,067.8</b>	<b>6,067.8</b>	<b>123,280.1</b>		
Actual Expenditure and Forecast												
	G		H		I		J		K (G+H+I+J)			
	2016	2017	2018	2019	2020	Forecast Jul-Dec 2020	2021 and Beyond	Total	Project Variance	Annual Variance	Notes	
	-	-	-	-	142.4	1,357.6	-	1,500.0	-	-	-	
	-	-	-	-	82.2	2,595.9	-	2,678.1	-	-	-	
	-	-	-	-	0.9	206.2	-	207.1	-	-	-	
	-	-	-	-	377.7	3,334.3	6,067.8	9,779.8	-	-	-	
	-	-	-	41.8	57.1	393.1	-	492.0	-	-	-	
	-	-	-	5,891.3	2,135.2	18,125.8	-	26,152.3	(3,800.6)	-	-	
	-	-	135.8	87.0	95.8	951.8	-	1,270.4	296.4	-	-	
	-	-	1,983.8	9,616.1	1,502.2	5,020.4	-	18,122.5	(8,673.2)	-	-	
	5,599.5	8,877.8	15,184.2	7,901.7	1,542.2	11,795.1	-	50,900.5	-	-	-	
<b>Total Terminal Stations Projects</b>	<b>5,599.5</b>	<b>8,877.8</b>	<b>17,303.8</b>	<b>23,537.8</b>	<b>5,935.7</b>	<b>43,780.2</b>	<b>6,067.8</b>	<b>111,102.5</b>	<b>(12,177.5)</b>	<b>0.0</b>		





2020 Capital Expenditures By Category (\$000)																										
Distribution Projects	Actual Expenditure and Forecast																									
	A		B		C		D (B+C)		F (A+C+E)		G				H		I		J		K (G+H+I+J)					
	2016	2017	2018	2019	2020	Original 2020	Revised 2020	2021 and Beyond	Total	2016	2017	2018	2019	2020	Forecast Jul-Dec 2020	2021 and Beyond	Total	2016	2017	2018	2019	2020	Forecast Jul-Dec 2020	2021 and Beyond	Total	
<b>2020 Projects</b>																										
Provide Service Extensions - All Areas	-	-	-	-	4,312.5	4,312.5	4,312.5	-	4,312.5	-	-	-	-	-	3,147.8	-	4,312.5	-	-	-	-	-	3,147.8	-	-	4,312.5
Provide Service Extensions - All Areas - CIAC	-	-	-	-	(196.5)	(196.5)	(196.5)	-	(196.5)	-	-	-	-	(576.2)	379.7	-	(196.5)	-	-	-	-	(576.2)	379.7	-	-	(196.5)
Upgrade Distribution Systems - All Areas	-	-	-	-	3,456.4	3,456.4	3,456.4	-	3,456.4	-	-	-	-	1,311.6	2,144.8	-	3,456.4	-	-	-	-	1,311.6	2,144.8	-	-	3,456.4
Upgrade Distribution Systems - All Areas - CIAC	-	-	-	-	(93.5)	(93.5)	(93.5)	-	(93.5)	-	-	-	-	(3.6)	(89.9)	-	(93.5)	-	-	-	-	(3.6)	(89.9)	-	-	(93.5)
Distribution System Upgrades (2020-2021) - Various	-	-	-	-	102.7	102.7	3,154.4	3,154.4	3,257.1	-	-	-	-	44.7	58.0	3,154.4	3,257.1	-	-	-	-	44.7	58.0	3,154.4	-	3,257.1
Install Recloser Remote Control (2020-2021) - Hampden and Upper Salmon	-	-	-	-	71.3	71.3	185.3	185.3	256.6	-	-	-	-	6.9	64.4	185.3	256.6	-	-	-	-	6.9	64.4	185.3	-	256.6
Additions for Load - Distribution System - Makkovik and Hopedale	-	-	-	-	846.1	846.1	846.1	-	846.1	-	-	-	-	115.3	730.8	-	846.1	-	-	-	-	115.3	730.8	-	-	846.1
<b>2019 Projects</b>																										
Distribution System Upgrades - Various Sites	-	-	-	390.8	(31.4)	5,490.1	5,458.7	-	5,880.9	-	-	-	422.2	1,035.6	4,423.1	-	5,880.9	-	-	-	-	422.2	1,035.6	4,423.1	-	5,880.9
Install Recloser Remote Control (2019-2020) - Rocky Harbour	-	-	-	66.1	44.1	319.9	364.0	-	386.0	-	-	-	22.0	36.8	327.2	-	386.0	-	-	-	22.0	36.8	327.2	-	-	386.0
<b>Total Distribution Projects</b>	-	-	-	456.9	12.7	14,309.0	14,321.7	3,339.7	18,105.6	-	-	-	444.2	3,135.8	11,185.9	3,339.7	18,105.6	-	-	-	444.2	3,135.8	11,185.9	3,339.7	-	18,105.6

2020 Capital Expenditures By Category  
(\$000)

Rural Generation Projects	Actual Expenditure and Forecast										K-F Project Variance	H+D Annual Variance	Notes																							
	A			B			C			D				E			F (A+C+E)			G			H			I			J			K (G+H+J)				
	2016	2017	2018	2019	Carryover to 2020	Original 2020	Revised 2020	2021 and Beyond	Total	2016				2017	2018	2019	2020	Forecast Jul-Dec 2020	2021 and Beyond	Total	2016	2017	2018	2019	2020	Forecast Jul-Dec 2020	2021 and Beyond	Total	2016	2017	2018	2019	2020	Forecast Jul-Dec 2020	2021 and Beyond	Total
2020 Projects	-	-	-	-	-	2,310.9	2,310.9	-	2,310.9	-	2,310.9	-	-	929.3	1,381.6	-	2,310.9	-	-	-	-	929.3	1,381.6	-	2,310.9	-	-	-	-	-	-	-	-	-		
Overhaul Diesel Units - Various	-	-	-	-	-	162.7	162.7	690.4	853.1	-	162.7	162.7	690.4	26.4	136.3	-	853.1	-	-	-	-	26.4	136.3	-	853.1	-	-	-	-	-	-	-	-	-		
Diesel Plant Ventilation Upgrade - Nain	-	-	-	-	-	363.8	363.8	-	363.8	-	363.8	363.8	-	22.6	341.2	-	363.8	-	-	-	-	22.6	341.2	-	363.8	-	-	-	-	-	-	-	-	-		
Replace Automation Equipment - Rigolet	-	-	-	-	-	127.9	127.9	-	127.9	-	127.9	127.9	-	-	98.0	-	127.9	-	-	-	-	-	98.0	-	127.9	-	-	-	-	-	-	-	-	-	-	
Replace Sewage Lift System - Rigolet	-	-	-	-	-	467.2	467.2	-	467.2	-	467.2	467.2	-	-	407.4	-	467.2	-	-	-	-	-	407.4	-	467.2	-	-	-	-	-	-	-	-	-	-	
Upgrade Fuel Storage Tanks - Charlottetown	-	-	-	-	-	3,900.7	3,900.7	-	3,900.7	-	3,900.7	3,900.7	-	-	2,791.7	-	3,900.7	-	-	-	-	-	2,791.7	-	3,900.7	-	-	-	-	-	-	-	-	-	-	
Diesel Genset Replacements - Mary's Harbour	-	-	-	-	-	125.3	125.3	1,195.8	1,321.1	-	125.3	125.3	1,195.8	41.2	84.1	-	1,321.1	-	-	-	-	41.2	84.1	-	1,321.1	-	-	-	-	-	-	-	-	-	-	
Replace Powerhouse Roofing System - L'Anse Au Loup and St. Anthony	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2019 Projects	-	-	-	1,523.6	(682.0)	658.9	(23.1)	-	2,182.5	-	1,523.6	(682.0)	658.9	32.8	165.6	-	2,182.5	-	-	-	32.8	165.6	-	2,182.5	-	-	-	-	-	-	-	-	-	-	-	
Additions for Load - Isolated Generation Systems	-	-	-	306.9	154.0	-	154.0	-	306.9	-	306.9	154.0	-	72.0	82.0	-	306.9	-	-	-	72.0	82.0	-	306.9	-	-	-	-	-	-	-	-	-	-	-	-
Replace Human Machine Interface - Cartwright	-	-	-	525.6	385.4	3,421.8	3,807.2	-	3,947.4	-	525.6	385.4	3,421.8	140.2	3,664.4	-	3,947.4	-	-	-	140.2	3,664.4	-	3,947.4	-	-	-	-	-	-	-	-	-	-	-	-
Diesel Genset Replacements (2019-2020)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2018 Projects	-	-	638.4	671.6	147.0	-	147.0	-	1,310.0	-	638.4	671.6	147.0	157.6	(10.6)	-	1,310.0	-	-	-	157.6	(10.6)	-	1,310.0	-	-	-	-	-	-	-	-	-	-	-	-
Diesel Plant Engine Cooling System Upgrades - Various Sites	-	-	505.6	336.4	296.8	-	296.8	-	842.0	-	505.6	336.4	296.8	293.2	3.6	-	842.0	-	-	-	293.2	3.6	-	842.0	-	-	-	-	-	-	-	-	-	-	-	-
Diesel Plant Fire Protection - Postville	-	-	604.1	4,703.3	(452.0)	3,592.8	3,140.8	-	8,900.2	-	604.1	4,703.3	(452.0)	1,393.5	1,747.3	-	8,900.2	-	-	-	1,393.5	1,747.3	-	8,900.2	-	-	-	-	-	-	-	-	-	-	-	-
Diesel Genset Replacements - Makkovik	-	-	307.4	1,565.9	(44.7)	-	(44.7)	-	1,873.3	-	307.4	1,565.9	(44.7)	152.7	177.5	-	1,873.3	-	-	-	152.7	177.5	-	1,873.3	-	-	-	-	-	-	-	-	-	-	-	
Replace Automation Equipment - St. Anthony	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Total Rural Generation Projects</b>	-	-	-	9,633.3	(195.5)	15,132.0	14,936.5	1,886.2	28,707.0	-	9,633.3	(195.5)	15,132.0	4,462.8	11,070.1	1,886.2	29,521.3	-	-	-	4,462.8	11,070.1	1,886.2	29,521.3	-	-	-	-	-	-	-	-	-	-	-	

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2020 Capital Expenditures By Category  
 (\$000)

Properties Projects	Actual Expenditure and Forecast											K-F Project Variance	H+I-D Annual Variance	Notes															
	A		B		C		D		E		F (A+C+E)				G		H		I		J		K (G+H+I+J)						
	2016	2017	2018	2019	2020	Original 2020	Revised 2020	2021 and Beyond	Total	2016	2017				2018	2019	2020	Forecast Jul-Dec 2020	2021 and Beyond	Total	2016	2017	2018	2019	2020	Forecast Jul-Dec 2020	2021 and Beyond	Total	
<b>2020 Projects</b>																													
Upgrade Fire Suppression System - Bishop's Falls	-	-	-	-	-	91.6	91.6	292.6	384.2	-	-	-	-	-	91.6	91.6	292.6	384.2	-	-	-	-	-	4.8	292.6	384.2	-	-	
Upgrade Line Depots - Various	-	-	-	-	-	648.3	648.3	-	648.3	-	-	-	-	-	648.3	648.3	-	648.3	-	-	-	-	-	627.2	-	648.3	-	-	
<b>2018 Projects</b>																													
Install Energy Efficiency Lighting in Diesel Plants - Various	-	-	104.0	119.0	57.7	122.2	179.9	-	345.2	-	-	104.0	97.3	71.5	-	-	-	345.2	-	-	68.0	97.3	108.4	71.5	-	-	-	-	-
<b>Total Properties Projects</b>	-	-	104.0	119.0	57.7	862.1	919.8	292.6	1,377.7	-	-	104.0	97.3	703.5	292.6	-	-	1,377.7	-	-	68.0	97.3	216.3	703.5	292.6	-	-	-	-

2020 Capital Expenditures By Category  
 (\$000)

Metering Projects	Actual Expenditure and Forecast										K (G+H+I+J)	K (G+H+I+J)	Project Variance	Annual Variance	Notes						
	A	B	C	D	E	F (A+C+E)	G	H	I	J											
	2016	2017	2018	2019	2020	Original 2020	Revised 2020	2021 and Beyond	Total	2016	2017	2018	2019	2020	Forecast Jul-Dec 2020	2021 and Beyond	Total	Project Variance	Annual Variance	Notes	
2020 Projects	-	-	-	-	-	244.2	244.2	-	244.2	-	-	-	-	6.2	238.0	-	-	244.2	-	-	
Purchase Meters and Metering Equipment - Various	-	-	-	-	-	244.2	244.2	-	244.2	-	-	-	-	-	-	-	-	-	-	-	
Purchase Meters and Metering Equipment - Various CIAC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Total Metering Projects</b>	-	-	-	-	-	244.2	244.2	-	244.2	-	-	-	-	6.2	238.0	-	-	244.2	-	-	

K-F	H+I-D
Project Variance	Annual Variance
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2020 Capital Expenditures By Category  
 (\$000)

Information Systems Projects	Actual Expenditure and Forecast											K-F Project Variance	H+I+D Annual Variance	Notes						
	A		B		C		D		E		F (A+C+E)				G	H	I Forecast Jul-Dec 2020	J 2021 and Beyond	K (G+H+I+J)	
	2016	2017	2018	2019	2020	Original 2020	Revised 2020	2021 and Beyond	Total	2016	2017									2018
<b>2020 Projects</b>																				
Replace Personal Computers - Hydro Place	-	-	-	-	673.3	673.3	673.3	-	-	-	673.3	-	-	9.8	663.5	-	673.3			
Replace Peripheral Infrastructure - Hydro Place	-	-	-	-	222.1	222.1	222.1	-	-	-	222.1	-	-	2.3	219.8	-	222.1			
Upgrade Core IT Infrastructure - Hydro Place	-	-	-	-	193.7	193.7	193.7	-	-	-	193.7	-	-	4.1	189.6	-	193.7			
Refresh Security Software - Hydro Place	-	-	-	-	110.2	110.2	110.2	-	-	-	110.2	-	-	22.5	87.7	-	110.2			
Perform Minor Enhancements - Hydro Place	-	-	-	-	49.0	49.0	49.0	-	-	-	49.0	-	-	2.0	47.0	-	49.0			
Upgrade Software Applications - Hydro Place	-	-	-	-	65.4	65.4	65.4	-	-	-	65.4	-	-	-	65.4	-	65.4			
<b>2019 Projects</b>																				
Upgrade Energy Management System - Hydro Place	-	-	-	271.7	162.8	-	162.8	-	-	-	271.7	-	108.9	100.9	61.9	-	271.7			
<b>Total Information Systems Projects</b>	-	-	-	271.7	162.8	1,313.7	1,476.5	-	-	-	1,585.4	-	108.9	141.6	1,334.9	-	1,585.4			

2020 Capital Expenditures By Category  
 (\$000)

Tools and Equipment	Actual Expenditure and Forecast											K-F Project Variance	H+I-D Annual Variance	Notes														
	A					B					C				D	E		F	G	H	I	J	K					
	2016	2017	2018	2019	2020	Carryover to 2020	Original 2020	Revised 2020	2021 and Beyond	Total	2016				2017	2018	2019	2020	Jul-Dec 2020	Forecast	2021 and Beyond	Total	2016	2017	2018	2019	2020	Jul-Dec 2020
<u>2020 Projects</u> Replace Light Duty Mobile Equipment - Various Sites Tools and Equipment Less than \$ 50,000	-	-	-	-	-	-	499.6	499.6	-	499.6	-	-	-	-	-	-	499.6	-	-	-	-	-	-	-	-	499.6	-	499.6
<u>2018 Projects</u> Replace Off-Road Track Vehicles - Bishop's Falls and Bay d'Espoir	-	-	213.7	986.3	1,031.7	-	-	1,031.7	-	1,200.0	-	-	-	-	-	-	1,031.7	-	-	-	-	-	-	-	-	-	-	1,293.2
<b>Total Tools and Equipment</b>	-	-	213.7	986.3	1,031.7	939.0	1,970.7	-	2,139.0	-	-	-	-	5.6	1,965.1	-	2,232.2	-	-	-	-	-	-	-	-	-	-	93.2

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2020 Capital Expenditures By Category (\$000)																					
Telecontrol Projects	Actual Expenditure and Forecast										H+H-D										
	A		B		C		D		E		F (A+C+E)		G	H	I	J	K (G+H+I+J)	Project Variance	Annual Variance	Notes	
	2016	2017	2018	2019	2020	Revised 2020	Original 2020	Carryover to 2020	2020	2021 and Beyond	Total	2016									2017
<u>2020 Projects</u>																					
Replace Network Communications Equipment - Various	-	-	-	-	186.8	186.8	-	-	-	-	186.8	-	-	-	117.4	69.4	-	-	-	-	-
Upgrade Site Facilities - Various	-	-	-	-	45.5	45.5	-	-	-	-	45.5	-	-	-	23.9	21.6	-	-	-	-	-
Replace Radomes - Various	-	-	-	-	384.5	384.5	-	-	-	-	384.5	-	-	-	14.5	370.0	-	-	-	-	-
Upgrade Remote Terminal Units - Various	-	-	-	-	157.1	157.1	-	-	-	-	157.1	-	-	-	27.5	129.6	-	-	-	-	-
Replace Battery Banks and Chargers - Various	-	-	-	-	195.9	195.9	-	-	-	-	195.9	-	-	-	69.9	126.0	-	-	-	-	-
Purchase Tools and Equipment less than \$50,000	-	-	-	-	93.4	93.4	-	-	-	-	93.4	-	-	-	40.1	53.3	-	-	-	-	-
<u>2019 Projects</u>																					
Upgrade Telecontrol Facilities - Gull Pond Hill and Bay d'Espoir Hill	-	-	-	96.3	(1.5)	577.6	576.1	-	-	-	673.9	-	-	-	97.8	536.2	-	-	-	-	-
<b>Total Telecontrol Projects</b>	-	-	-	96.3	(1.5)	1,640.8	1,639.3	-	-	-	1,737.1	-	-	-	333.2	1,306.1	-	-	-	-	-



**2020 Capital Expenditures By Category  
 (\$000)**

Transportation	Actual Expenditure and Forecast											K-F								
	A				B		C		D		E		F (A+C+E)		H	I Forecast Jul-Dec 2020	J 2021 and Beyond	K (G+H+I+J) Total	H+I-D Annual Variance	Notes
	2016	2017	2018	2019	2020	2020	Original 2020	Revised 2020	2021 and Beyond	Total	2016	2017	2018	2019						
2020 Projects																				
Replace Light and Heavy Duty Vehicles (2020-2021) - Various	-	-	-	-	-	-	1,625.5	1,625.5	1,583.5	1,583.5	3,209.0	-	-	-	1,625.5	1,583.5	3,209.0	-	-	
2019 Projects																				
Replace Vehicles and Aerial Devices - Various Sites	-	-	-	1,248.1	(136.9)	594.9	458.0	458.0	-	1,843.0	-	-	-	1,385.0	169.8	1,843.0	-	-	-	-
2018 Projects																				
Replace Vehicles and Aerial Devices - Various Sites	-	-	1,667.2	753.7	765.7	-	765.7	765.7	-	2,420.9	-	-	1,165.1	490.1	(218.6)	2,420.9	-	-	-	-
<b>Total Transportation</b>	-	-	1,667.2	2,001.8	628.8	2,220.4	2,849.2	2,849.2	1,583.5	7,472.9	-	-	1,165.1	1,875.1	1,576.7	7,472.9	-	-	-	-

Administrative	Actual Expenditure and Forecast											K-F								
	A				B		C		D		E		F (A+C+E)		H	I Forecast Jul-Dec 2020	J 2021 and Beyond	K (G+H+I+J) Total	H+I-D Annual Variance	Notes
	2016	2017	2018	2019	2020	2020	Original 2020	Revised 2020	2021 and Beyond	Total	2016	2017	2018	2019						
2020 Projects																				
Remove Safety Hazards - Various	-	-	-	-	-	198.6	198.6	198.6	-	198.6	-	-	-	-	56.7	141.9	198.6	-	-	-
Purchase Office Equipment	-	-	-	-	-	60.9	60.9	60.9	-	60.9	-	-	-	-	0.0	60.9	60.9	-	-	-
Replace Elevator Motors and Control Equipment - Hydro Place	-	-	-	-	-	89.1	89.1	89.1	647.6	736.7	-	-	-	-	29.8	59.3	647.6	647.6	-	-
<b>Total Administrative</b>	-	-	-	-	-	348.6	348.6	348.6	647.6	996.2	-	-	-	-	86.5	262.1	996.2	647.6	-	-

