

1 Q. **Reference: Application**

2 Please provide a table identifying each project/program in the 2024 capital budget, its cost and
3 the customers that are required to pay for the project; e.g., Island Interconnected, Labrador
4 Interconnected or Rural/Isolated. In cases when more than one customer group is required to
5 pay for a project/program, please identify the share of the cost paid by each.

6

7

8 A. Please refer to CA-NLH-007, Attachment 1 for a breakdown of the 2024 Capital Budget
9 Application proposed projects and programs by customer.

10 For projects assigned to Hydro Rural customers that are being completed in rural deficit areas,
11 the allocation of costs to be recovered from the different customers is listed in Table 1.

Table 1: Rural Deficit Areas Estimated Allocation Costs (%)

System	System Cost¹	Rural Deficit²
Island Isolated	15	85
Labrador Isolated	24	76
Island Rural Interconnected	70	30
L'Anse au-Loup	42	58

¹ The average revenue-to-cost ratio in the 2019 Test Year represents the portion of costs to be recovered through rates. The balance of the cost is recovered through the rural deficit.

² The rural deficit is allocated to Newfoundland Power Inc. and Labrador Interconnected customers in the same proportion as the 2019 Cost of Service Study, which is 96.1% and 3.9%, respectively.

Newfoundland and Labrador Hydro
 2024 Capital Budget Application
 Expenditure by Customer
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	2023 and Prior Years	2024	Future Years	Total	Common - Island Interconnected (2024)	Common - Labrador Interconnected (2024)	Hydro Rural (2024)	IOC ¹ (2024)	Braya ² (2024)	Value ³ (2024)
Generation										
Gas Turbines										
Gas Turbine In-Service Failures (2024)	-	358.0	358.0	358.0	358.0	-	-	-	-	-
Replace Oil Mist Separator (2023-2024) - Happy Valley Gas Turbine	138.5	262.1	-	400.6	400.6	262.1	-	-	-	-
Construct Maintenance Platform (2024-2025) - Holyrood Gas Turbine	-	130.5	228.7	359.2	130.5	-	-	-	-	-
Inspect Fuel Tanks (2024) - Hardwoods Gas Turbines	-	692.9	-	692.9	692.9	-	-	-	-	-
Upgrade Instrumentation (2024-2025) - Hardwoods Gas Turbine	-	60.9	157.2	218.1	60.9	-	-	-	-	-
Total Gas Turbines	138.5	1,504.4	743.9	2,028.8	1,242.3	262.1				
Hydraulic Plant										
Refurbish Ebbegunbaeg Control Structure	9,945.2	2,781.6	4,952.2	17,679.0	2,781.6	-	-	-	-	-
Replace Diesel Genset 1 (2023-2024) - Ebbegunbaeg	298.0	728.3	-	1,026.3	728.3	-	-	-	-	-
Water System Condition Assessment and Upgrades (2023) - Bay d'Espoir	161.0	504.9	-	665.9	504.9	-	-	-	-	-
Refurbish Superstructure (2023-2024) - Salmon River Spillway	328.3	2,500.0	-	2,828.3	2,500.0	-	-	-	-	-
Replace Powerhouse Station Service Panel (2023-2024) - Upper Salmon	591.8	976.7	-	1,568.5	976.7	-	-	-	-	-
Replace Annunciator - Phase 2 (2024-2025) - Bay d'Espoir	-	294.1	187.5	481.6	294.1	-	-	-	-	-
Replace Powerhouse 1 Air Conditioning Unit (2024-2025) - Bay d'Espoir	-	57.8	231.2	289.0	57.8	-	-	-	-	-
Penstock Level III Condition Assessment (2024) - Upper Salmon	-	382.8	-	382.8	382.8	-	-	-	-	-
Hydraulic In-Service Failures (2024)	-	1,500.0	-	1,500.0	1,500.0	-	-	-	-	-
Overhaul Hydraulic Units (2024)	-	323.8	-	323.8	323.8	-	-	-	-	-
Replace Annunciator Panels (2024-2025) - Cat Arm	-	140.2	191.2	351.4	140.2	-	-	-	-	-
Replace Powerhouse 1 Roof (2024-2025) - Bay d'Espoir	-	160.2	1,819.2	1,959.4	160.2	-	-	-	-	-
Flatten Downstream Slope (2024-2025) - Hinds Lake	-	276.1	2,953.4	3,229.5	276.1	-	-	-	-	-
Replace Timber Crib and Insulation (2024) - Burnt Dam Spillway	-	161.8	-	161.8	161.8	-	-	-	-	-
Refurbish Surge Tank 1 (2024-2025) - Bay d'Espoir	-	175.8	2,111.4	2,287.2	175.8	-	-	-	-	-
Install Anemometer (2024) - Cat Arm	-	68.6	-	68.6	68.6	-	-	-	-	-
Refurbish Intake 1 (2024-2025) - Bay d'Espoir	-	272.1	3,071.9	3,344.0	272.1	-	-	-	-	-
Total Hydraulic Plant	11,324.3	11,304.8	15,518.0	38,147.1	11,304.8					
Thermal Plant										
Thermal In-Service Failures (2024)	-	3,508.7	3,508.7	3,508.7	3,508.7	-	-	-	-	-
Boiler Condition Assessment and Miscellaneous Upgrades (2024) - Holyrood	-	3,957.8	-	3,957.8	3,957.8	-	-	-	-	-
Overhaul Unit 1 Turbine Valves and Generator (2024) - Holyrood	-	5,181.4	-	5,181.4	5,181.4	-	-	-	-	-
Overhaul Pumps (2024) - Holyrood	-	661.0	-	661.0	661.0	-	-	-	-	-
Refurbish Outbuilding and Powerhouse Building Envelopes (2024-2025) - Holyrood	-	156.2	1,039.4	1,195.6	156.2	-	-	-	-	-
Overhaul Marine Terminal Loading Arms (2024) - Holyrood	-	511.0	-	511.0	511.0	-	-	-	-	-
Refurbish Fuel Oil Storage Tank 4 (2024) - Holyrood	-	1,920.0	-	1,920.0	1,920.0	-	-	-	-	-
Upgrade UPS 1 & 2 (2024-2025) - Holyrood	-	263.0	107.6	370.6	263.0	-	-	-	-	-
Upgrade Unit 1 Control System (2024-2025) - Holyrood	-	468.3	184.3	652.6	468.3	-	-	-	-	-
Upgrade DCS Hardware - Units 1 and 2 (2024-2025) - Holyrood	-	195.2	277.3	472.5	195.2	-	-	-	-	-
Total Thermal Plant		16,822.6	5,117.3	18,431.2	16,822.6					
Tools and Equipment										
Purchase Tools and Equipment Less Than \$50,000 (2024) - Gas Turbine	-	18.6	-	18.6	18.6	-	-	-	-	-
Purchase Tools and Equipment Less Than \$50,000 (2024) - Hydraulic Plants	-	209.4	-	209.4	209.4	-	-	-	-	-
Purchase Tools and Equipment Less Than \$50,000 (2024) - Thermal Plants	-	167.1	-	167.1	167.1	-	-	-	-	-
Total Tools and Equipment		395.1		395.1	395.1					
Total Generation	11,462.8	30,026.9	21,376.2	59,002.2	29,764.8	262.1				
General Properties										
Transportation										
Replace Light- and Heavy-Duty Vehicles (2022-2024)	1,162.2	2,319.6	-	3,481.8	2,319.6	-	-	-	-	-
Replace Light- and Heavy-Duty Vehicles (2023-2025)	1,308.1	2,584.6	473.3	4,566.0	2,584.6	-	-	-	-	-
Replace Light- and Heavy-Duty Vehicles (2024-2026)	-	1,479.1	4,157.2	5,636.3	1,479.1	-	-	-	-	-
Total Transportation	2,470.3	6,383.3	4,630.5	13,484.1	6,383.3					
Administration										
Purchase Office Equipment Less Than \$50,000 (2024)	-	50.0	-	50.0	50.0	-	-	-	-	-
Remove Safety Hazards (2024)	-	198.3	-	198.3	198.3	-	-	-	-	-
General Property Rehabilitation (2024) - Hydro Place	-	234.0	-	234.0	234.0	-	-	-	-	-
Upgrade HVAC Supervisory Controllers (2024) - Hydro Place	-	149.6	-	149.6	149.6	-	-	-	-	-
Total Administration		631.9		631.9	631.9					

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	2023 and Prior Years	2024	Future Years	Total	Common - Island Interconnected (2024)	Common - Labrador Interconnected (2024)	Hydro Rural (2024)	IOC ¹ (2024)	Braya ² (2024)	Value ³ (2024)
Information Systems										
Upgrade Energy Management System (2024)	-	366.4	-	366.4	366.4	-	-	-	-	-
Perform Software Upgrades and Minor Enhancements (2024)	-	864.2	-	864.2	864.2	-	-	-	-	-
Purchase Personal Computers (2024)	-	555.9	-	555.9	555.9	-	-	-	-	-
Replace Peripheral Infrastructure (2024)	-	276.8	-	276.8	276.8	-	-	-	-	-
Upgrade Core OT Infrastructure (2024)	-	174.7	-	174.7	174.7	-	-	-	-	-
Update Cyber Security Infrastructure (2024)	-	281.3	-	281.3	281.3	-	-	-	-	-
Total Information Systems	-	2,519.3	-	2,519.3	2,519.3	-	-	-	-	-
Telecontrol										
Replace Network Communications Equipment (2024)	-	180.7	-	180.7	180.7	-	-	-	-	-
Replace Power Line Carrier (2024-2025) - TL247	-	87.2	667.4	754.6	754.6	87.2	-	-	-	-
Replace Power Line Carrier (2023-2024) - TL223 and TL224	105.3	852.4	-	957.7	957.7	852.4	-	-	-	-
Purchase Tools and Equipment Less than \$50,000 (2024) - Telecontrol	-	45.6	-	45.6	45.6	45.6	-	-	-	-
Replace 48 V Battery Banks and Chargers (2024)	-	422.2	-	422.2	422.2	422.2	-	-	-	-
Replace SONENT Multiplexers (2024)	-	430.4	-	430.4	430.4	430.4	-	-	-	-
Replace MDR8000 Microwave Radios (2024-2025)	-	953.5	500.3	1,453.8	953.5	953.5	-	-	-	-
Purchase Mobile Devices (2024)	-	155.6	-	155.6	155.6	155.6	-	-	-	-
Upgrade Remote Terminal Units (2024)	-	165.9	-	165.9	165.9	165.9	-	-	-	-
Telecommunications In-Service Failure (2024)	-	91.4	-	91.4	91.4	91.4	-	-	-	-
Minor Telecommunications Enhancements (2024)	-	96.9	-	96.9	96.9	96.9	-	-	-	-
Replace CCTV Cameras (2024)	-	317.6	-	317.6	317.6	317.6	-	-	-	-
Upgrade SCADA Network (2024)	-	402.3	-	402.3	402.3	402.3	-	-	-	-
Replace VHF Radio System (2024-2025)	-	1,261.6	290.6	1,552.2	1,261.6	1,261.6	-	-	-	-
Total Telecontrol	105.3	5,463.3	1,458.3	7,026.9	5,463.3	-	-	-	-	-
Total General Properties	2,575.6	14,997.8	6,088.8	23,662.2	14,997.8	-	-	-	-	-
Transmission and Rural Operations										
Transmission										
Transmission In-Service Failures (2024)	-	158.5	158.5	158.5	158.5	158.5	-	-	-	-
Wood Pole Line Management (2024)	-	3,765.2	-	3,765.2	3,765.2	3,765.2	-	-	-	-
Total Transmission	-	3,923.7	158.5	3,923.7	3,923.7	3,923.7	-	-	-	-
Distribution										
Upgrade of Worst-Performing Distribution Feeders (2023-2024)	73.4	1,372.6	-	1,446.0	1,372.6	-	-	-	-	-
Distribution System In-Service Failures, Miscellaneous Upgrades, and Street Lights (2024)	-	4,345.4	-	4,345.4	2,737.6	999.4	608.4	-	-	-
Provide Service Extensions (2024)	-	4,272.0	-	4,272.0	2,691.4	982.6	598.1	-	-	-
Upgrade Worst-Performing Distribution Feeders (2024-2025)	-	1,064.3	2,227.4	3,291.7	1,064.3	-	-	-	-	-
Renew Distribution Feeders (2024-2025)	-	1,287.3	1,245.1	2,532.4	1,287.3	-	-	-	-	-
Upgrade Distribution (2024-2025) - Bay d'Espoir Terminal Station 2	-	93.2	331.5	424.7	93.2	-	-	-	-	-
Total Distribution	73.4	12,434.8	3,804.0	16,312.2	9,246.4	1,982.0	1,206.4	-	-	-
Properties										
Replace HVAC System (2023-2024) - Bishop's Falls	43.4	128.8	-	172.2	128.8	-	-	-	-	-
Upgrade Water and Fire Suppression Systems (2023-2024) - Bishop's Falls	353.7	2,886.3	-	3,240.0	2,886.3	-	-	-	-	-
Replace Diesel Shop Building (2023-2025) - Bishop's Falls	168.0	1,254.1	889.9	2,312.0	1,254.1	-	-	-	-	-
Total Properties	565.1	4,269.2	889.9	5,724.2	4,269.2	-	-	-	-	-
Metering										
Purchase Meters and Metering Equipment (2024)	-	470.7	-	470.7	296.5	108.3	65.9	-	-	-
Replace Metering System	4,881.2	994.6	-	5,875.8	626.6	228.8	139.2	-	-	-
Automate Bulk Metering (2024-2026)	-	302.6	449.7	752.3	302.6	-	-	-	-	-
Total Metering	4,881.2	1,767.9	449.7	7,098.8	1,225.7	337.0	205.1	-	-	-
Tools and Equipment										
Purchase 85' Material Handler Aerial Device on Track Unit	1,286.1	67.8	-	1,353.9	67.8	-	-	-	-	-
Purchase 46' Material Handler Aerial Device on Track Unit	719.2	38.8	-	758.0	38.8	-	-	-	-	-
Purchase Tools and Equipment Less than \$50,000 (2024) - Central Region	-	188.2	-	188.2	188.2	-	-	-	-	-
Purchase Tools and Equipment Less than \$50,000 (2024) - Northern Region	-	97.0	-	97.0	97.0	-	-	-	-	-
Purchase Tools and Equipment Less than \$50,000 (2024) - Labrador Region	-	120.1	-	120.1	120.1	-	-	-	-	-
Replace Grader Unit V9829 (2024) - Bay d'Espoir	-	836.7	-	836.7	836.7	-	-	-	-	-
Replace Mobile Equipment (2023-2024)	541.2	187.3	-	728.5	187.3	-	-	-	-	-
Replace Mobile Equipment (2024-2025)	-	216.9	599.7	816.6	216.9	-	-	-	-	-
Purchase 50' Material Handler Aerial Device on Track Unit (2024-2026) - Happy Valley Goose Bay	-	24.0	848.9	872.9	24.0	-	-	-	-	-
Total Tools and Equipment	2,546.5	1,776.8	1,448.6	5,771.9	1,632.7	144.1	24.0	-	-	-

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Terminal Stations										
Wabush Terminal Station Upgrades	8,870.1	3,808.0	-	12,678.1	-	3,808.0	-	-	-	-
Additions for Load - Wabush Substation Upgrades	7,439.7	2,739.9	514.5	10,694.1	-	2,739.9	-	-	-	-
Terminal Station In-Service Failures (2024)	-	1,300.0	-	1,300.0	1,170.0	130.0	-	-	-	-
Terminal Station Renewal Program (2023-2024)	1,733.7	5,584.5	-	7,318.2	4,634.5	475.1	-	83.4	391.6	-
Circuit Breakers Renewal Program (2023-2024)	216.9	3,595.1	-	3,812.0	1,345.1	1,123.2	-	1,126.8	-	-
Install Breaker Failure Protection (2023-2024) - Sunnyside	79.2	535.3	-	289.7	216.2	535.3	-	-	-	-
Install Fire Protection in 230 kV Stations (2023-2024) - Deer Lake	323.3	594.1	-	917.4	594.1	-	-	-	-	-
Major Condition Assessment and Miscellaneous Refurbishments Synchronous Condenser 1 and 2 (2023-2024) - Wabush Terminal Station	577.2	516.1	-	1,093.3	-	516.1	-	-	-	-
Replace Data Alarm System Annunciators (2023) - Buchans	61.2	104.8	-	166.0	104.8	-	-	-	-	-
Replace Circuit Breaker Reclosing Controllers (2023-2024) - Hardwoods	81.6	149.6	-	231.2	149.6	-	-	-	-	-
Additions for Load Growth - Upgrade Transformer Capacity (2023-2024) - lean Lake Terminal Station	580.0	-	5,436.1	6,016.1	-	-	-	-	-	-
Install Oil Spill Containment Transformer T1S (2023-2024) - Cat Arm	155.1	426.5	-	581.6	426.5	-	-	-	-	-
Refurbish Control Building (2024-2025) - Grandy Brook and Doyles	-	109.4	444.7	554.1	109.4	-	-	-	-	-
Install Fire Protection in 230kV Stations (2024-2025) - Vosey's Bay	-	53.8	599.0	652.8	-	-	-	-	-	53.8
Replace Instrument Transformers (2024-2025)	-	154.9	714.8	869.7	88.5	66.4	-	-	-	-
Replace Protective Relays (2024-2025)	-	1,388.4	2,050.7	3,439.1	1,231.7	115.7	-	-	-	-
Replace Disconnects (2024-2025)	-	127.4	1,358.1	1,485.5	127.4	-	-	-	41.0	-
Upgrade Power Transformers (2024-2025)	-	864.6	2,711.3	3,575.9	691.7	172.9	-	-	-	-
Replace Terminal Station Battery Banks and Chargers (2024-2025)	-	71.8	120.9	192.7	71.8	-	-	-	-	-
Renew Circuit Breakers (2024-2025)	-	183.9	2,779.3	2,963.2	133.7	50.2	-	-	-	-
Upgrade Data Alarm Systems (2024-2025) - Western Avalon Terminal Station	-	137.0	156.9	293.9	137.0	-	-	-	-	-
Replace Circuit Breaker Reclosing Controllers (2024-2025) - TL247	-	112.4	215.8	328.2	112.4	-	-	-	-	-
Upgrade Station Lighting (2024-2025) - Bottom Waters, Deer Lake, Doyles, Indian River, and Western Avalon Terminal Stations	-	91.6	429.0	520.6	91.6	-	-	-	-	-
Total Terminal Stations	20,191.5	22,865.3	17,931.1	60,987.9	11,971.3	9,197.4	-	1,210.2	432.6	53.8
Generation										
Diesel Genset Replacement Unit 2012 - L'Anse-Au-Loup	2,853.1	210.2	-	3,063.3	-	-	210.2	-	-	-
Diesel Genset Replacement Program (2023-2025)	819.1	174.0	2,133.1	3,126.2	-	-	174.0	-	-	-
Replace Building Exterior (2023-2024) - Postville	124.6	558.7	-	683.3	-	-	558.7	-	-	-
Replace Intermediate Fuel Storage Tanks (2023-2024) - Nain	127.4	593.7	-	721.1	-	-	593.7	-	-	-
Overhaul Diesel Units (2024)	-	829.2	-	829.2	-	-	829.2	-	-	-
Diesel In-Service Failures (2024)	-	488.3	488.3	976.6	-	112.3	376.0	-	-	-
Diesel Genset Replacement Unit 2039 - St. Lewis	1,980.8	-	-	1,980.8	-	-	-	-	-	-
Replace Diesel Gensets (2024-2025)	-	535.8	4,380.3	4,916.1	-	-	535.8	-	-	-
Purchase Accommodations Trailer (2024-2025) - Makkovik and Cartwright	-	130.9	1,420.2	1,551.1	-	-	130.9	-	-	-
Total Generation	5,905.0	3,520.8	8,421.9	17,959.4	-	112.3	3,408.5	-	-	-
Total Transmission and Rural Operations	34,162.7	50,558.5	32,703.7	116,778.1	32,269.0	11,772.8	4,820.1	1,210.2	432.6	53.8
Allowance for Unforeseen Items										
Allowance for Unforeseen Items	-	1,000.0	-	1,000.0	1,000.0	-	-	-	-	-
Allowance for Unforeseen Items (2024)	-	1,000.0	-	1,000.0	1,000.0	-	-	-	-	-
Total Allowance for Unforeseen Items	-	1,000.0	-	1,000.0	1,000.0	-	-	-	-	-
Total Allowance for Unforeseen Items	-	1,000.0	-	1,000.0	1,000.0	-	-	-	-	-
Total Capital Budget	48,201.1	96,583.2	60,171.7	200,442.5	78,031.6	12,034.9	4,820.1	1,210.2	432.6	53.8

¹Iron Ore Company of Canada ("IOC").
²Braya Renewable Fuels ("Braya").
³Value Limited ("Value").