



Newfoundland Power Inc.

2025 Capital Budget Application

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Outline

- Background
- 2025 Capital Budget
- Capital Project Overview
- Other Points of Interest



Background

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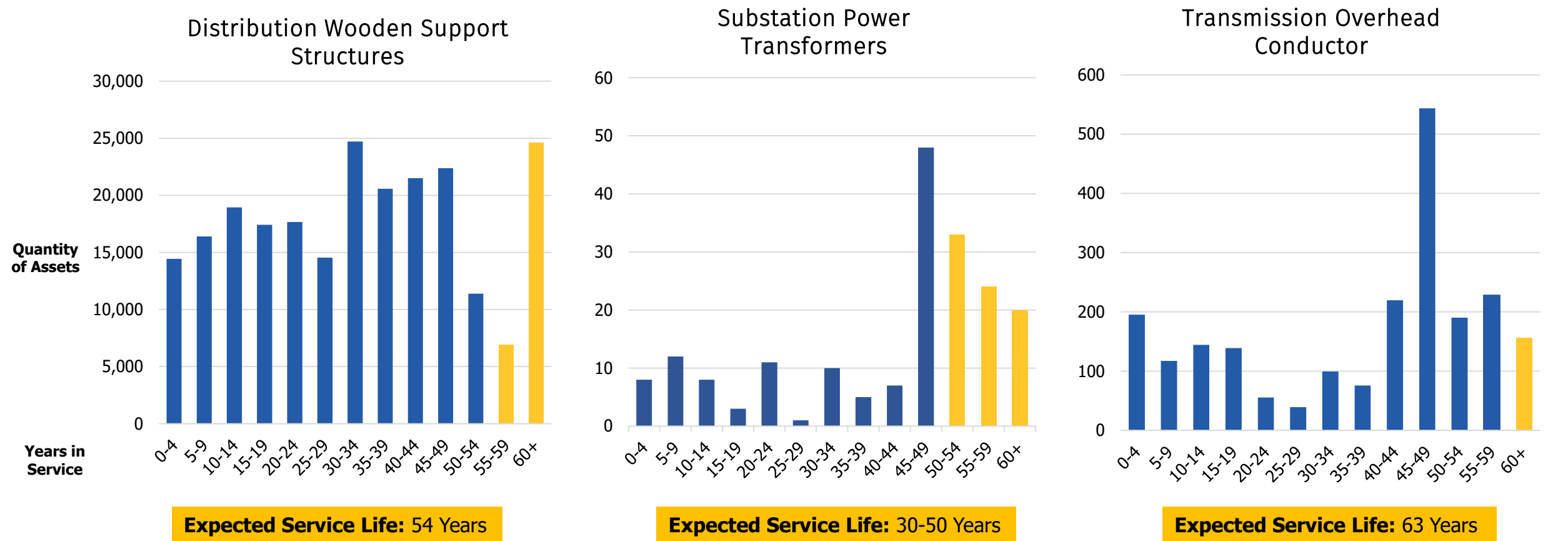
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Capital Planning at Newfoundland Power

- Comprehensive process determines scope, necessity and timing of capital expenditures
- Based on sound engineering and objective data:
 - Customer Connections
 - System load growth
 - Asset condition
 - Economic factors
 - Industry standards
 - Operational requirements

Deferred/Modified/Advanced Expenditures	
Previously deferred/modified projects proposed for 2025	4
Projects advanced to 2025	0
Projects planned for 2025 but deferred to subsequent years	5

Aging Electrical System





2025 Capital Budget

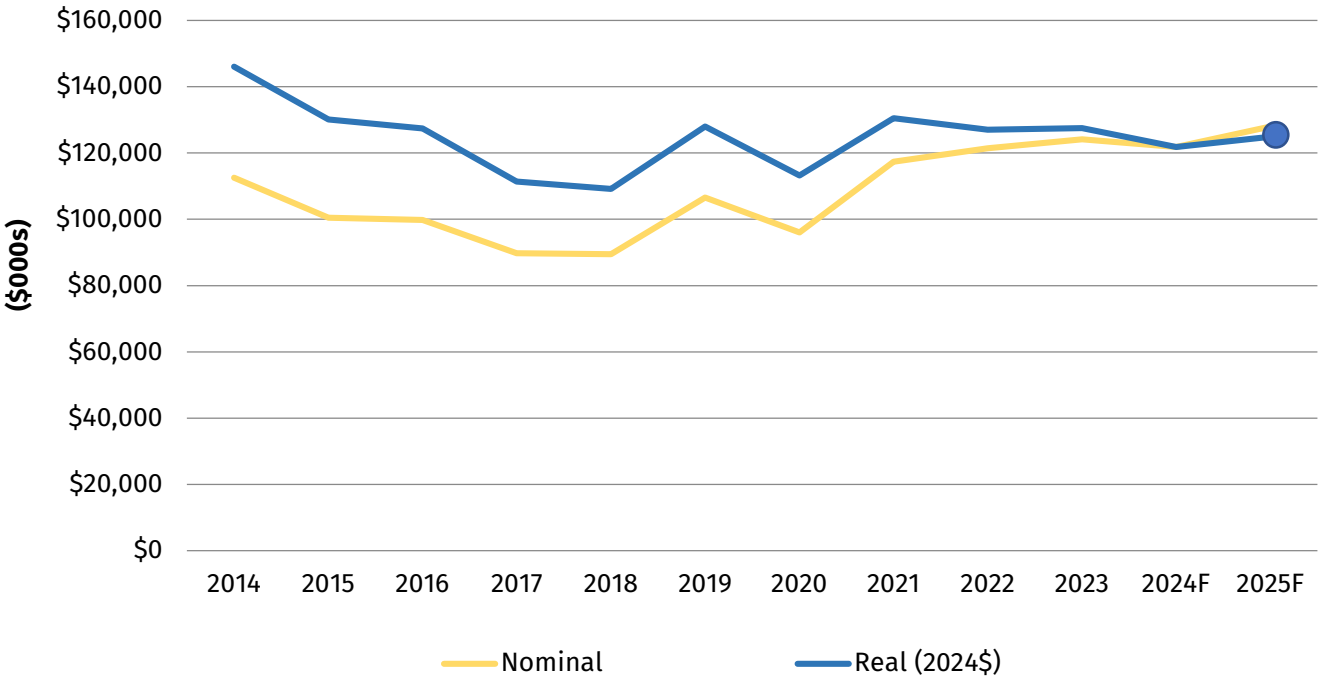
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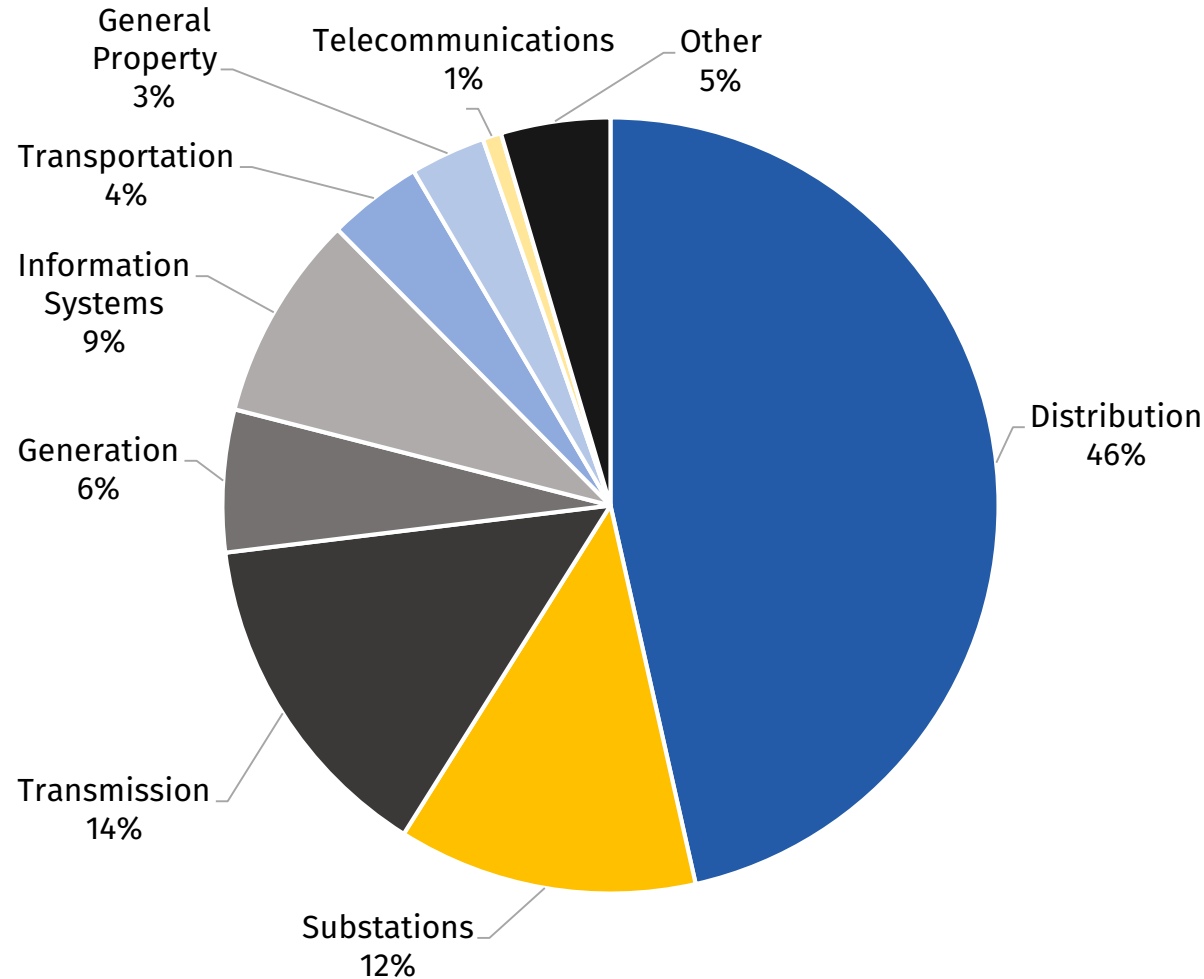
2025 Capital Budget

Expenditure Type	2025 Budget (\$000s)
Single-Year >\$750,000	79,468
Single-Year	10,850
New Multi-Year	18,219
Subtotal	\$108,537
Previously Approved Multi-Year	19,414
Total	\$127,951

Historical Capital Expenditures



2025 Capital Budget by Asset Class



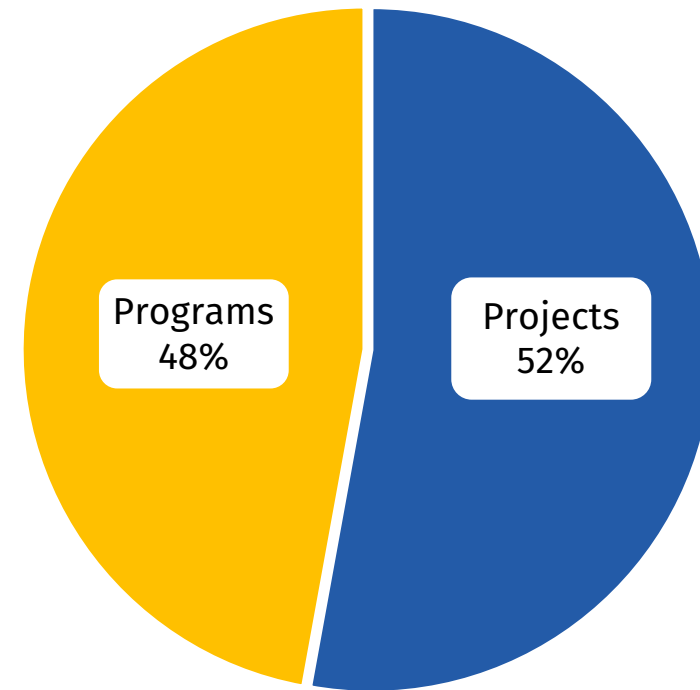
Distribution Investments

- 2,220 forecasted customer connections
- Maintain electrical system:
 - Two maintenance programs
 - Two feeder refurbishments
- Service enhancements:
 - LED street lights
 - Feeder automation
- Two feeder additions for load growth (St. John's area)

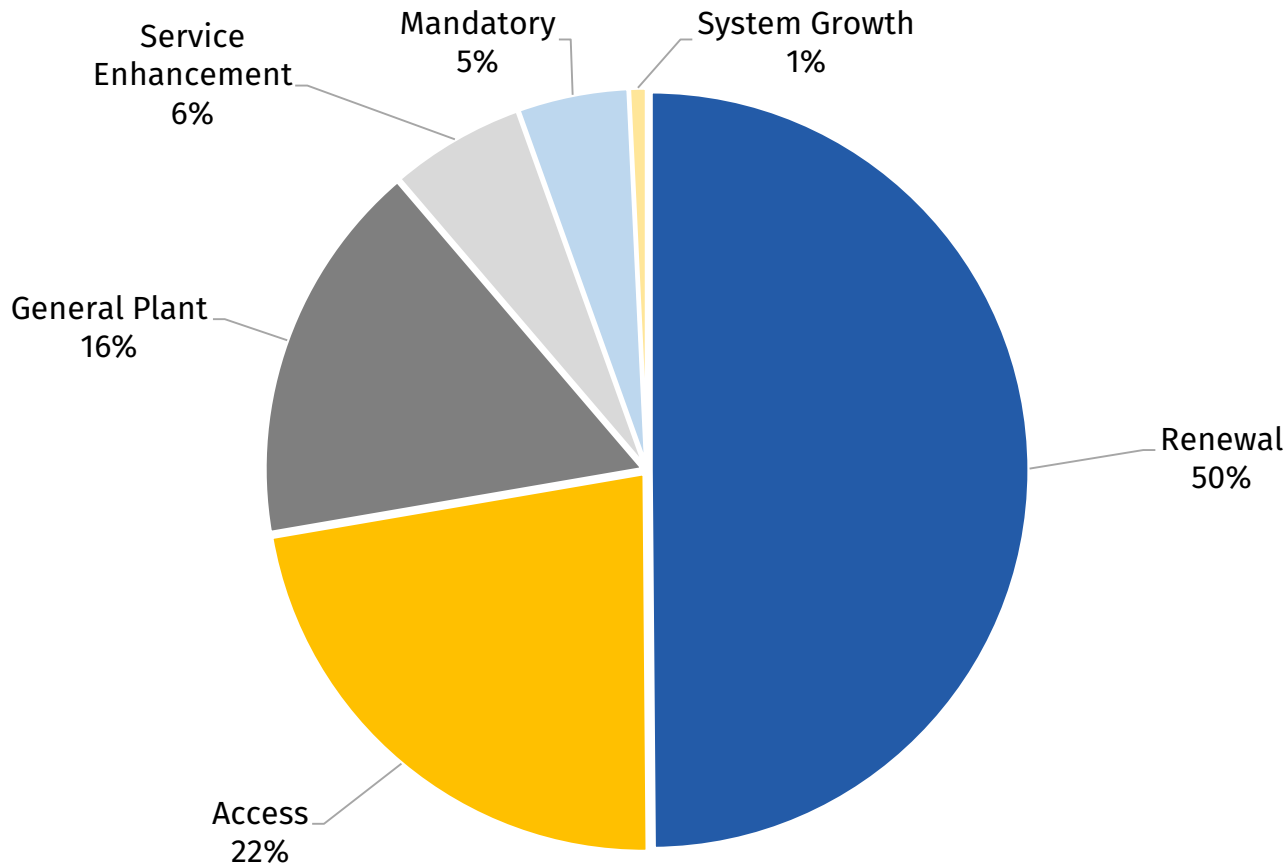
2025 Capital Budget by Category

- 39 Projects
 - Defined schedule, scope and budget based on detailed engineering estimates
- 22 Programs
 - High volume, repetitive and ongoing work. Budget based on historical averages.

Expenditure Percentage



2025 Capital Budget by Investment Classification



Renewal Investments

- Primarily condition based
- Corrective and preventive maintenance programs
- Refurbishment projects
 - Four substations for refurbishment and modernization
 - One hydro plant refurbishment
 - Three transmission line rebuilds

2025 Capital Budget by Materiality

Threshold	Quantity of Projects/Programs	Percentage of Total Expenditures
Less than \$1 million ¹	30	15%
\$1 million – \$5 million	18	29%
Greater than \$5 million	13	56%
Total	61	100%

¹ Includes 20 projects and programs \$750,000 and under.

Examples of Projects over \$5 Million

- Transmission Line 94L Rebuild
- Asset Management Technology Replacement
- Summerville Substation Refurbishment and Modernization

Capital Project Overview



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Substation Refurbishment and Modernization



Summerville Substation (\$5.0M)

- Supplies 1,100 customers
- Condition:
 - Deteriorated 66 kV and 12.5 kV wood pole infrastructure
 - Deteriorated 66 kV and 25 kV switches



Northwest Brook Substation (\$4.2M)

- Supplies 1,800 customers
- Condition:
 - Deteriorated 138 kV and 25 kV switches
 - Removal of high-speed ground switch
 - Deteriorated cross arms
 - Metering tank replacement

Substation Refurbishment and Modernization



Lockston Substation (\$4.8M)

- Supplies 1,100 customers in the Lockston area
- Condition:
 - Deteriorated 66 kV, 46 kV, and 6.9 kV wooden structures
 - Removal of high-speed ground switch
 - 66 kV and 12.5 kV switches at end of life
 - PCBs present in LOK-T1

Substation Power Transformer Replacements

- Most critical and expensive substation asset
- Engineering Assessment
 - Oil Analysis
 - Electrical Testing
 - EPRI PTX Analysis
 - Physical Inspection



Pulpit Rock T2 (\$2.9M)



Gander T2 (\$4.2M)

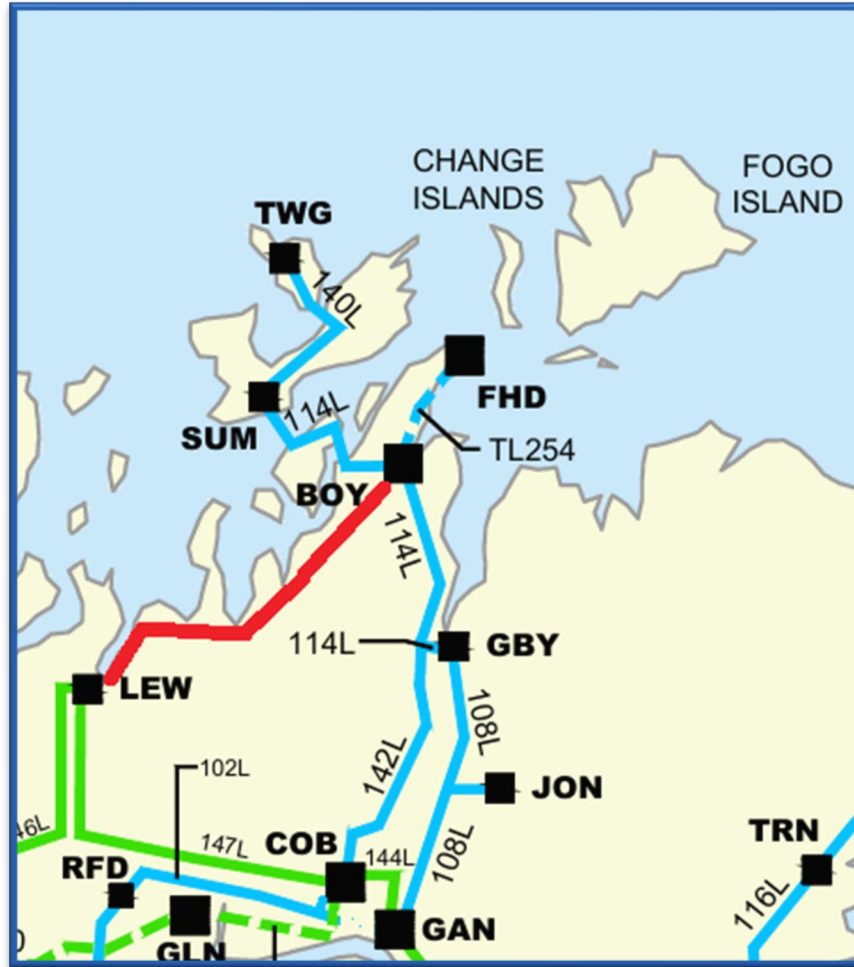
New Transmission Line LEW-BOY (\$20.8M)



108L Condition Assessment

- Not seeking approval for replacement
- 60% of poles are deteriorated
- 27% of structures have deficiencies
- 2/0 ACSR conductor
- Non-Standard Construction

New Transmission Line LEW-BOY (\$20.8M)



- Planning study assessed alternatives for the:
 - Replacement of GAN-T2
 - Rebuild of Transmission Line 108L
 - 66kV undervoltage system condition
- Planning study results:
 - GAN-T2 installed at Boyd's Cove
 - New transmission line from Lewisporte to Boyd's Cove
 - Retirement of transmission line 108L and JON

Mount Carmel Pond Spillway Replacement (\$4.6M)



- Commissioned in 1954
- Serves Horse Chops and Cape Broyle plants
- 81.6 GWh combined annual production
- Condition
 - Broken stop logs
 - Bent steel supports
 - Cracked concrete
- Net benefit to customers of approximately \$0.07/kWh

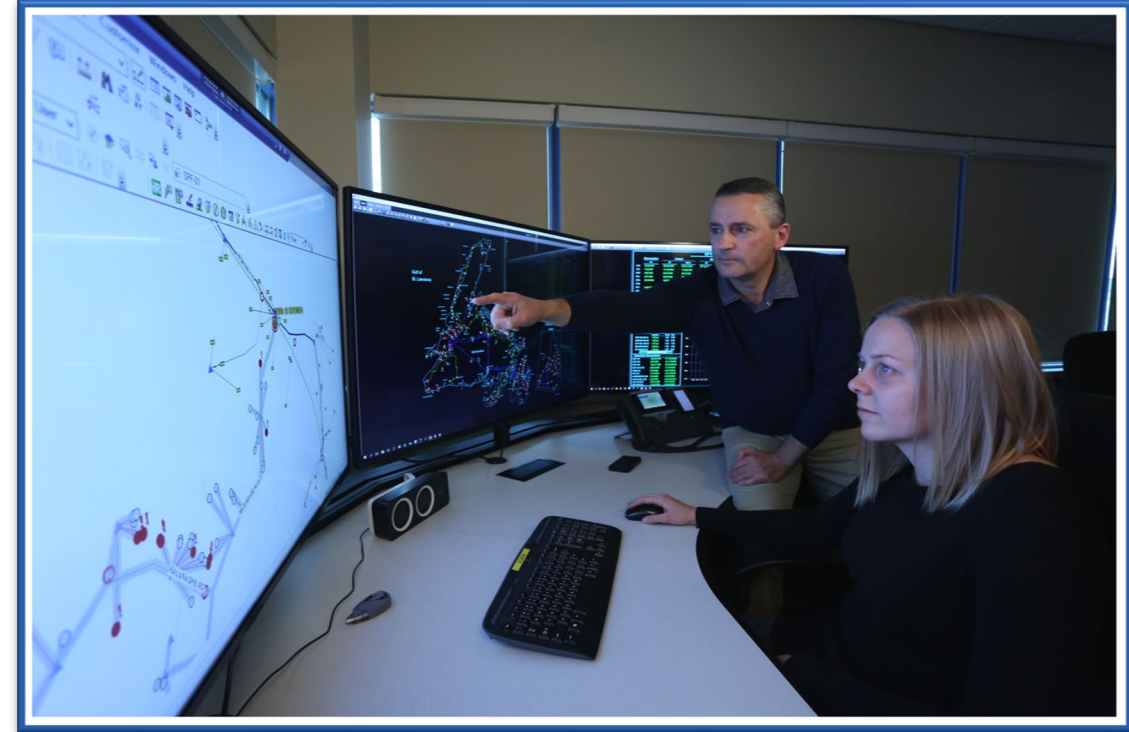
Port Union Building Replacement (\$1.3M)

- Converted diesel plant (1945)
- Inadequate framing system
- No HVAC
- Lack of thermal barriers
- Windows in poor condition



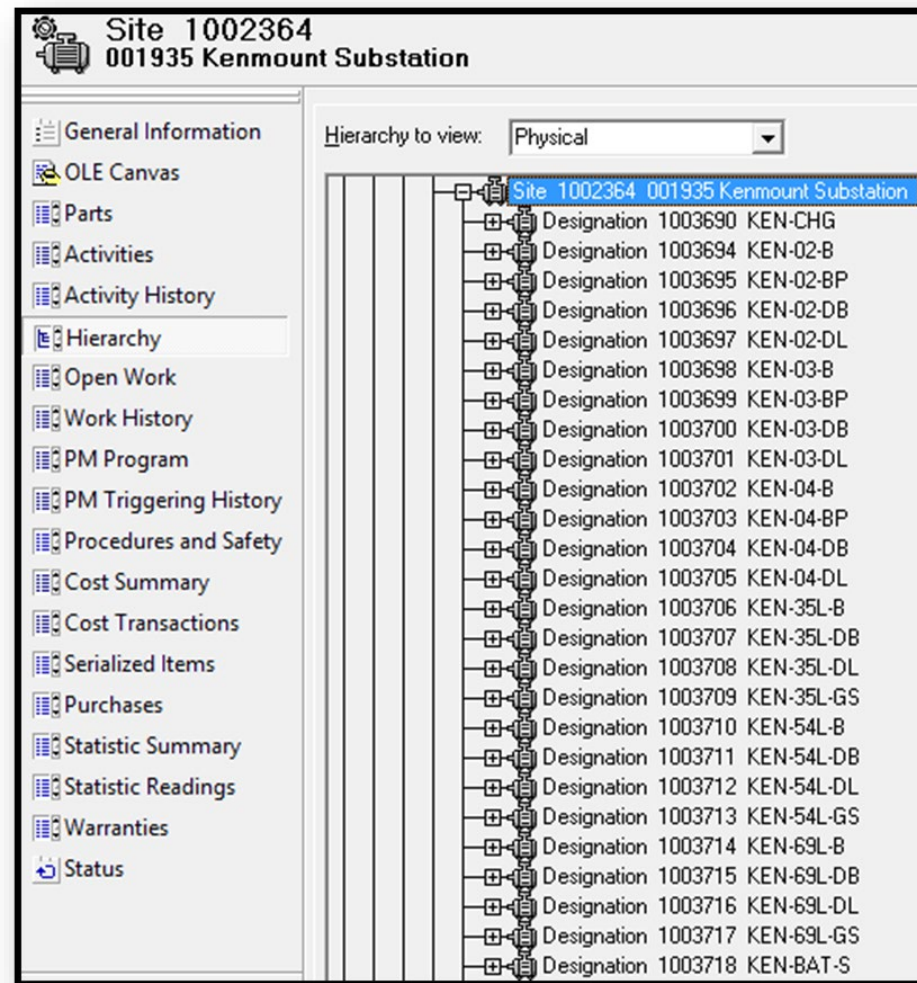
Outage Management System Upgrade (\$3.3M)

- Critical to outage management and day-to-day operations
- End of vendor support in November 2026
- Necessary for updates, patches and Bug fixes
- Integrated with corporate Geographic Information Systems



Asset Management Technology Replacement (\$8M)

- Avantis implemented in 2003, 2005 and 2006
- End of life December 31st, 2026
- Preventative & corrective maintenance
- Work Planning, scheduling & tracking



Other Points of Interest

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Other Points of Interest

- **Transmission Line 94L Rebuild**
 - Change in scope and price since approval in 2022 CBA
- **Historical Averages for Budget Estimation**
 - Consistent with accepted practice
 - Report provided in this application
- **Asset Management Update Report**
 - Included in Capital Plan
 - Implementation plan expected by end of 2024





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