

| | Expended to 2014 | 2015 | Future Years | Total |
|-----------------------------------|---------------------|----------|-----------------|-----------|
| | | | ((\$000)) | |
| GENERATION | 534.9 | 17,901.0 | 5,254.1 | 23,690.0 |
| TRANSMISSION AND RURAL OPERATIONS | 11,223.2 | 49,789.6 | 23,282.0 | 84,294.8 |
| GENERAL PROPERTIES | 3,041.9 | 8,401.6 | 536.6 | 11,980.1 |
| ALLOWANCE FOR UNFORESEEN ITEMS | | 1,000.0 | | 1,000.0 |
| TOTAL CAPITAL BUDGET | 14,800.0 | 77,092.2 | 29,072.7 | 120,964.9 |

| | Expended to 2014 | 2015 | Future Years | Total |
|---|---------------------|-----------------|-----------------|------------------|
| | | | ((\$000)) | |
| <u>GENERATION</u> | | | | |
| Hydraulic Plant | 186.6 | 9,673.3 | 2,531.1 | 12,391.0 |
| Thermal Plant | 298.4 | 4,793.0 | 197.6 | 5,289.0 |
| Gas Turbines | | 3,139.6 | 2,525.4 | 5,665.0 |
| Tools and Equipment | 49.9 | 295.1 | | 345.0 |
| TOTAL GENERATION | 534.9 | 17,901.0 | 5,254.1 | 23,690.0 |
| <u>TRANSMISSION AND RURAL OPERATIONS</u> | | | | |
| Terminal Stations | 7,057.7 | 17,007.4 | 16,386.5 | 40,451.6 |
| Transmission | 1,191.7 | 3,818.8 | 0.0 | 5,010.5 |
| Distribution | 481.5 | 16,707.3 | 818.8 | 18,007.6 |
| Generation | 1,978.6 | 7,728.0 | 4,175.4 | 13,882.0 |
| Properties | 156.8 | 2,313.6 | 1,101.7 | 3,572.1 |
| Metering | 356.9 | 1,096.3 | 401.8 | 1,855.0 |
| Tools and Equipment | 0.0 | 1,118.2 | 397.8 | 1,516.0 |
| TOTAL TRANSMISSION AND RURAL OPERATIONS | 11,223.2 | 49,789.6 | 23,282.0 | 84,294.8 |
| <u>GENERAL PROPERTIES</u> | | | | |
| Information Systems | 711.6 | 2,680.0 | 0.0 | 3,391.6 |
| Telecontrol | 521.2 | 1,273.0 | 0.0 | 1,794.2 |
| Transportation | 1,809.1 | 3,468.1 | 225.3 | 5,502.5 |
| Administrative | | 980.5 | 311.3 | 1,291.8 |
| TOTAL GENERAL PROPERTIES | 3,041.9 | 8,401.6 | 536.6 | 11,980.1 |
| ALLOWANCE FOR UNFORESEEN ITEMS | | 1,000.0 | | 1,000.0 |
| TOTAL CAPITAL BUDGET | 14,800.0 | 77,092.2 | 29,072.7 | 120,964.9 |

SECTION A: Capital Budget: Generation

| PROJECT DESCRIPTION | Expended to 2014 | 2015 | Future Years | Total | Page Ref |
|---|---------------------|---------|-----------------|----------|-------------|
| | | | ((\$000)) | | |
| HYDRAULIC PLANT | | | | | |
| Replace Interior Coating on Surge Tank 3 - Bay d'Espoir | | 1,629.3 | | 1,629.3 | C - 5 |
| Upgrade Burnt Dam Spillway Structure - Bay d'Espoir | 110.2 | 1,201.9 | | 1,312.1 | |
| Rehabilitate Salmon River Spillway - Bay d'Espoir | | 745.6 | 556.8 | 1,302.4 | C - 9 |
| Replace Station Service Breakers - Cat Arm | | 644.9 | 363.4 | 1,008.3 | C - 13 |
| Refurbish Access Road - Cat Arm | | 990.0 | | 990.0 | C - 15 |
| Replace ABB Exciter Unit 2 - Cat Arm | | 845.9 | | 845.9 | C - 17 |
| Upgrade Generator Bearings Units 1 and 3 - Bay d'Espoir | | 14.7 | 633.3 | 648.0 | C - 19 |
| Automate Generator Deluge Systems - Bay d'Espoir | | 645.2 | | 645.2 | C - 21 |
| Replace Pump House and Associated Equipment - Bay d'Espoir | | 22.7 | 522.5 | 545.2 | C - 23 |
| () | | | | | |
| Upgrade Public Safety Around Dams and Waterways - Various Sites | | 483.9 | | 483.9 | D - 19 |
| Upgrade Generator Bearings Unit 2 - Bay d'Espoir | 18.9 | 396.0 | | 414.9 | E - 28 |
| Install Hydrometeorological Stations - Various Sites | | 377.9 | | 377.9 | D - 43 |
| Refurbish Generation Unit - Snook's Arm | | 352.9 | | 352.9 | D - 49 |
| Upgrade Equipment Doors - Various Sites | | 348.5 | | 348.5 | D - 91 |
| Refurbish Intakes - Bay d'Espoir | | 72.6 | 262.3 | 334.9 | D - 99 |
| Overhaul Turbine/Generator - Various Sites | | 304.4 | | 304.4 | D - 150 |
| Replace Automatic Greasing Systems Units 2 and 4 - Bay d'Espoir | | 254.4 | | 254.4 | D - 156 |
| Install Infrared View Ports - Various Sites | | 83.7 | 113.1 | 196.8 | E - 2 |
| Replace Spherical By Pass Valve Assemblies Units 1-6 - Bay d'Espoir | 57.5 | 96.3 | | 153.8 | |
| Replace Generator Bearing Coolers - Bay d'Espoir | | 153.8 | | 153.8 | E - 28 |
| Refurbish Unit Relay Protection - Paradise River | | 8.7 | 79.7 | 88.4 | E - 34 |
| TOTAL HYDRAULIC PLANT | 186.6 | 9,673.3 | 2,531.1 | 12,391.0 | |

| PROJECT DESCRIPTION | Expended to 2014 (\$000) | 2015 | Future Years | Total | Page Ref |
|--|--------------------------------|-----------------|-----------------|-----------------|-------------|
| <u>THERMAL PLANT</u> | | | | | |
| Overhaul Turbine Valves Unit 1 - Holyrood | | 1,577.5 | | 1,577.5 | C - 7 |
| Upgrade Powerhouse Roofing - Holyrood | | 1,047.8 | | 1,047.8 | C - 11 |
| Replace Economizer Inlet Valves Units 1 and 2 - Holyrood | 192.0 | 329.1 | | 521.1 | |
| Install Cold-Reheat Condensate Drains and High Pressure Heater Trip Level Unit 3 - Holyrood | 49.8 | 467.4 | | 517.2 | |
| Upgrade Quarry Brook Dam Equipment - Holyrood | | 498.7 | | 498.7 | D - 2 |
| Install Fire Protection Upgrades - Holyrood | 56.6 | 312.5 | | 369.1 | |
| Upgrade Fire Protection (Main Warehouse) - Holyrood | | 46.2 | 197.6 | 243.8 | |
| Overhaul Boiler Feed Pump East Unit 1 - Holyrood | | 196.3 | | 196.3 | E - 4 |
| Overhaul Extraction Pumps - Holyrood | | 189.6 | | 189.6 | E - 16 |
| Replace DC Distribution Panels and Breakers - Holyrood | | 127.9 | | 127.9 | E - 31 |
| TOTAL THERMAL PLANT | 298.4 | 4,793.0 | 197.6 | 5,289.0 | |
| <u>GAS TURBINES</u> | | | | | |
| Upgrade Gas Turbine Plant Life Extension - Stephenville | | 2,655.2 | 2,525.4 | 5,180.6 | C - 3 |
| Replace Alternator Shaft - Happy Valley | | 484.4 | | 484.4 | D - 8 |
| TOTAL GAS TURBINES | | 3,139.6 | 2,525.4 | 5,665.0 | |
| <u>TOOLS AND EQUIPMENT</u> | | | | | |
| Install Handheld Pendant to Overhead Crane - Bay d'Espoir | 49.9 | 170.8 | | 220.7 | |
| Purchase Tools and Equipment Less than \$50,000 | | 124.3 | | 124.3 | |
| TOTAL TOOLS AND EQUIPMENT | 49.9 | 295.1 | | 345.0 | |
| TOTAL GENERATION | 534.9 | 18,061.0 | 5,602.6 | 24,198.5 | |

| PROJECT DESCRIPTION | Expended to 2014 | 2015 | Future Years | Total | Page Ref |
|--|---------------------|-----------------|-----------------|-----------------|-------------|
| | | | (\$000) | | |
| <u>TERMINAL STATIONS</u> | | | | | |
| Upgrade Circuit Breakers - Various Sites (2015-2016) | | 6,189.1 | 6,873.8 | 13,062.9 | C - 27 |
| Upgrade Power Transformers - Various Sites | | 4,440.4 | 7,002.3 | 11,442.7 | C - 29 |
| Upgrade Circuit Breakers - Various Sites (2014-2015) | 3,695.4 | 1,642.5 | | 5,337.9 | |
| Replace Instrument Transformers - Various Sites | 1,146.0 | 538.4 | | 1,684.4 | |
| Perform Grounding Upgrades - Various Sites | 1,311.3 | 345.4 | | 1,656.7 | |
| Replace Disconnect Switches - Various Sites (2015-2016) | | 963.7 | 642.9 | 1,606.6 | C - 46 |
| Install Transformer On line Gas Monitoring - Various Sites | | 700.5 | 975.7 | 1,676.2 | C - 57 |
| Replace Disconnect Switches - Various Sites (2014-2015) | 815.9 | 189.5 | | 1,005.4 | |
| Design and Install Fire Protection in 230 kV Station - Various Sites | | 67.6 | 424.3 | 491.9 | D - 215 |
| Perform Site Work for Mobile Substation - Barachois | | 489.3 | | 489.3 | D - 222 |
| Upgrade Terminal Station Protection and Control - Various Sites | | 172.7 | 307.2 | 479.9 | D - 228 |
| Upgrade Terminal Station Foundations - Various Sites | | 302.3 | | 302.3 | D - 274 |
| Upgrade Control Wiring Phase 1 to Terminal Station 1 - Bay d'Espoir | | 301.0 | | 301.0 | D - 289 |
| Install Support Structures C2 Capacitor Bank - Hardwoods | | 199.3 | | 199.3 | E - 36 |
| Replace Surge Arrestors - Various Sites | | 198.1 | | 198.1 | E - 57 |
| Replace Optimho Relays on East Coast - Various Sites | 89.1 | 96.9 | | 186.0 | |
| Replace Station Lighting - Bay d'Espoir | | 16.7 | 160.3 | 177.0 | E - 83 |
| Upgrade Transformer Differential Protection - Grandy Brook | | 154.0 | | 154.0 | E - 88 |
| TOTAL TERMINAL STATIONS | 7,057.7 | 17,007.4 | 16,386.5 | 40,451.6 | |
| <u>TRANSMISSION</u> | | | | | |
| Perform Wood Pole Line Management Program - Various Sites | | 2,830.6 | | 2,830.6 | C - 37 |
| Refurbish Anchors and Footings TL202 and TL206 - Bay d'Espoir to Sunnyside | 1,191.7 | 988.2 | | 2,179.9 | |
| TOTAL TRANSMISSION | 1,191.7 | 3,818.8 | 0.0 | 5,010.5 | |
| <u>DISTRIBUTION</u> | | | | | |
| Provide Service Extensions - All Service Areas | | 6,080.0 | | 6,080.0 | C - 31 |
| Upgrade Distribution System - Various Sites (2014-2015) | 370.2 | 4,850.1 | | 5,220.3 | |
| Upgrade Distribution Systems - All Service Areas | | 3,340.0 | | 3,340.0 | C - 33 |
| Upgrade Distribution System - Various Sites (2015-2016) | | 1,136.1 | 818.8 | 1,954.9 | C - 39 |
| Construct Second Distribution Feeder - Nain | | 1,050.3 | | 1,050.3 | C - 59 |
| Replace Recloser Control Panels - Various Sites | 111.3 | 84.4 | | 195.7 | |
| Relocate Voltage Regulator - Hawkes Bay | | 166.4 | | 166.4 | E - 85 |
| TOTAL DISTRIBUTION | 481.5 | 16,707.3 | 818.8 | 18,007.6 | |

| PROJECT DESCRIPTION | Expended to 2014 | 2015 | Future Years (\$000) | Total | Page Ref |
|---|---------------------|-----------------|----------------------------|-----------------|-------------|
| <u>GENERATION</u> | | | | | |
| Perform Arc Flash Remediation - Various Sites | 1,602.6 | 413.1 | | 2,015.7 | |
| Inspect Fuel Storage Tanks - Various Sites | | 1,761.1 | | 1,761.1 | C - 41 |
| Increase Fuel Storage - Rigolet | | 1,666.8 | | 1,666.8 | C - 44 |
| Install Fire Protection - L'Anse Au Loup | | 220.6 | 1,126.2 | 1,346.8 | C - 50 |
| Replace Unit 2038 - Mary's Harbour | | 103.5 | 1,241.5 | 1,345.0 | C - 53 |
| Overhaul Diesel Units - Various Sites | | 1,199.2 | | 1,199.2 | C - 55 |
| Install Fire Protection System - Nain | 107.1 | 892.2 | | 999.3 | |
| Replace Programmable Logic Controllers - Various Sites | | 366.9 | 591.1 | 958.0 | C - 63 |
| Upgrade Diesel Plant Production Data Collection Equipment - Various Sites | 268.9 | 269.8 | 280.7 | 819.4 | |
| Replace Unit 254 - Paradise River | | 66.8 | 429.3 | 496.1 | D - 177 |
| Upgrade Ventilation Systems - Various Sites | | 175.9 | 317.3 | 493.2 | D - 189 |
| Upgrade Building Exterior - Makkovik | | 309.5 | | 309.5 | D - 252 |
| Increase Generation Capacity - Makkovik | | 272.6 | | 272.6 | D - 295 |
| Install Disconnect Switches for Mobile Generators - Various Sites | | 10.0 | 189.3 | 199.3 | E - 39 |
| TOTAL GENERATION | 1,978.6 | 7,728.0 | 4,175.4 | 13,882.0 | |
| <u>PROPERTIES</u> | | | | | |
| Replace Accommodations and Septic System - Ebbegunbaeg | | 489.4 | 1,061.4 | 1,550.8 | C - 48 |
| Upgrade Line Depots - Various Sites | | 953.3 | | 953.3 | C - 65 |
| Install Additional Washrooms - Various Sites | | 259.3 | | 259.3 | D - 313 |
| Install Fall Protection Equipment - Various Sites | | 198.9 | | 198.9 | E - 41 |
| Legal Survey of Primary Distribution Line Right of Ways - Various Sites (2015-2016) | | 158.6 | 40.3 | 198.9 | E - 52 |
| Legal Survey of Primary Distribution Line Right of Ways - Various Sites (2014-2015) | 156.8 | 40.3 | | 197.1 | |
| Upgrade HVAC System - Port Saunders | | 137.0 | | 137.0 | E - 96 |
| Reshingle Roof - Stephenville | | 76.8 | | 76.8 | E - 105 |
| TOTAL PROPERTIES | 156.8 | 2,313.6 | 1,101.7 | 3,572.1 | |
| <u>METERING</u> | | | | | |
| Install Automated Meter Reading - Various Sites (2015-2016) | | 559.9 | 401.8 | 961.7 | C - 61 |
| Install Automated Meter Reading - Various Sites (2014-2015) | 356.9 | 340.2 | | 697.1 | |
| Purchase Meters, Equipment and Metering Tanks - Various Sites | | 196.2 | | 196.2 | E - 64 |
| TOTAL METERING | 356.9 | 1,096.3 | 401.8 | 1,855.0 | |
| <u>TOOLS AND EQUIPMENT</u> | | | | | |
| Purchase Tools & Equipment Less than \$50,000 - Various Sites | | 622.7 | | 622.7 | |
| Replace Light Duty Mobile Equipment - Various Sites | | 494.4 | | 494.4 | D - 184 |
| Replace Off Road Track Vehicle Unit 7861 - Stephenville | | 1.1 | 397.8 | 398.9 | D - 248 |
| TOTAL TOOLS AND EQUIPMENT | | 1,118.2 | 397.8 | 1,516.0 | |
| TOTAL TRANSMISSION AND RURAL OPERATIONS | 11,223.2 | 49,789.6 | 23,282.0 | 84,294.8 | |

| PROJECT DESCRIPTION | Expended to 2014 | 2015 | Future Years | Total | Page Ref |
|--|---------------------|----------------|-----------------|----------------|-------------|
| | | | (\$000) | | |
| <u>INFORMATION SYSTEMS</u> | | | | | |
| <u>SOFTWARE APPLICATIONS</u> | | | | | |
| <u>New Infrastructure</u> | | | | | |
| Perform Minor Application Enhancements - Hydro Place | | 329.5 | | 329.5 | E - 112 |
| Cost Recoveries | | (141.6) | | (141.6) | |
| <u>Upgrade of Technology</u> | | | | | |
| Upgrade Microsoft Office Products - Hydro Place | 1,111.8 | 465.2 | | 1,577.0 | |
| Cost Recoveries | (400.2) | (167.5) | | (567.7) | |
| Upgrade Lotus Notes - Hydro Place | | 635.4 | | 635.4 | D - 327 |
| Cost Recoveries | | (273.1) | | (273.1) | |
| Upgrade Energy Management System - Hydro Place | | 194.9 | | 194.9 | E - 107 |
| Replace Customer Care System - Hydro Place | | 134.9 | | 134.9 | E - 116 |
| TOTAL SOFTWARE APPLICATIONS | 711.6 | 1,177.7 | | 1,889.3 | |
| <u>COMPUTER OPERATIONS</u> | | | | | |
| <u>Infrastructure Replacement</u> | | | | | |
| Replace Personal Computers - Various Sites | | 573.3 | | 573.3 | C - 71 |
| Upgrade Enterprise Storage Capacity - Hydro Place | | 621.3 | | 621.3 | D - 341 |
| Cost Recoveries | | (267.0) | | (267.0) | |
| Replace Peripheral Infrastructure - Various Sites | | 200.5 | | 200.5 | D - 346 |
| <u>Upgrade of Technology</u> | | | | | |
| Upgrade Server Technology Program - Hydro Place | | 601.3 | | 601.3 | D - 322 |
| Cost Recoveries | | (227.1) | | (227.1) | |
| TOTAL COMPUTER OPERATIONS | | 1,502.3 | | 1,502.3 | |
| TOTAL INFORMATION SYSTEMS | 711.6 | 2,680.0 | | 3,391.6 | |

| PROJECT DESCRIPTION | Expended to 2014 | 2015 | Future Years | Total | Page Ref |
|---|---------------------|----------------|-----------------|-----------------|-------------|
| | | | (\$000) | | |
| <u>TELECONTROL</u> | | | | | |
| <u>NETWORK SERVICES</u> | | | | | |
| <u>Infrastructure Replacement</u> | | | | | |
| Purchase Tools and Equipment Less than \$50,000 | | 45.6 | | 45.6 | |
| <u>Network Infrastructure</u> | | | | | |
| Replace Battery Banks and Chargers - Various Sites | 267.0 | 398.0 | | 665.0 | |
| Replace Network Communications Equipment - Hydro Place | | 169.5 | | 169.5 | E - 114 |
| <u>Upgrade of Technology</u> | | | | | |
| Upgrade IP SCADA Network - Various Sites | 254.2 | 238.7 | | 492.9 | |
| Replace Telephone System - Springdale | | 132.7 | | 132.7 | E - 118 |
| Replace WIFI Access Points - Various Sites | | 126.3 | | 126.3 | E - 120 |
| Replace GDC Metroplex - Various Sites | | 69.2 | | 69.2 | E - 122 |
| Upgrade Site Facilities - Various Sites | | 48.3 | | 48.3 | |
| Replace DTI Phone Turrets Energy Control Center - Hydro Place | | 44.7 | | 44.7 | |
| TOTAL TELECONTROL | 521.2 | 1,273.0 | | 1,794.2 | |
| <u>TRANSPORTATION</u> | | | | | |
| Replace Vehicles and Aerial Devices - Various Sites (2014-2015) | 1,809.1 | 1,091.0 | | 2,900.1 | |
| Replace Vehicles and Aerial Devices - Various Sites (2015-2016) | | 2,377.1 | 225.3 | 2,602.4 | C - 67 |
| TOTAL TRANSPORTATION | 1,809.1 | 3,468.1 | 225.3 | 5,502.5 | |
| <u>ADMINISTRATION</u> | | | | | |
| Replace Roof - Hydro Place | | 671.9 | | 671.9 | C - 69 |
| Replace Cooling Tower and Auxiliaries - Hydro Place | | 45.7 | 311.3 | 357.0 | D - 330 |
| Remove Safety Hazards - Various Sites | | 194.9 | | 194.9 | E - 109 |
| Purchase Office Equipment | | 68.0 | | 68.0 | |
| TOTAL ADMINISTRATION | | 980.5 | 311.3 | 1,291.8 | |
| TOTAL GENERAL PROPERTIES | 3,041.9 | 8,401.6 | 536.6 | 11,980.1 | |