

# **SECTION A**

**NEWFOUNDLAND & LABRADOR HYDRO****2005 CAPITAL BUDGET - OVERVIEW**

(\$,000)

	Exp To 2004	2005	Future Years	Total
<b>GENERATION</b>	1,733	5,986	1,815	9,534
<b>TRANSMISSION &amp; RURAL OPERATIONS</b>	0	19,820	787	20,607
<b>GENERAL PROPERTIES</b>	5,273	15,625	9,119	30,017
<b>ALLOWANCE FOR UNFORESEEN EVENTS</b>	0	1,000	0	1,000
<b>TOTAL CAPITAL BUDGET</b>	<u>7,006</u>	<u>42,431</u>	<u>11,721</u>	<u>61,158</u>

**NEWFOUNDLAND & LABRADOR HYDRO**  
**2005 CAPITAL BUDGET - SUMMARY BY CATEGORY**

(\$,000)

	Exp To 2004	2005	Future Years	Total
<b>GENERATION</b>				
<b>HYDRO PLANTS</b>				
Construction Projects	102	1,641	1,815	3,558
Tools & Equipment	0	198	0	198
<b>THERMAL PLANT</b>				
Construction Projects	1,553	1,800	0	3,353
Property Additions	78	2,002	0	2,080
Tools & Equipment	0	16	0	16
<b>GAS TURBINES</b>				
Construction Projects	0	329	0	329
<b>TOTAL GENERATION</b>				
	<u>1,733</u>	<u>5,986</u>	<u>1,815</u>	<u>9,534</u>
<b>TRANSMISSION &amp; RURAL OPERATIONS</b>				
<b>TRANSMISSION</b>	0	3,590	0	3,590
<b>SYSTEM PERFORMANCE &amp; PROTECTION</b>	0	468	0	468
<b>TERMINALS</b>	0	598	0	598
<b>DISTRIBUTION</b>	0	9,559	0	9,559
<b>GENERATION</b>	0	2,372	787	3,159
<b>GENERAL</b>				
Metering	0	192	0	192
Properties	0	1,023	0	1,023
Tools & Equipment	0	2,018	0	2,018
<b>TOTAL TRANSMISSION &amp; RURAL OPERATIONS</b>				
	<u>0</u>	<u>19,820</u>	<u>787</u>	<u>20,607</u>

**NEWFOUNDLAND & LABRADOR HYDRO****2005 CAPITAL BUDGET - SUMMARY BY CATEGORY**

(\$,000)

	Exp To 2004	2005	Future Years	Total
<b>GENERAL PROPERTIES</b>				
<b>INFORMATION SYSTEMS &amp; TELECOMMUNICATIONS</b>	4,156	13,472	9,119	26,747
<b>ADMINISTRATIVE</b>	1,117	2,153	0	3,270
<b>TOTAL GENERAL PROPERTIES</b>	<u>5,273</u>	<u>15,625</u>	<u>9,119</u>	<u>30,017</u>
<b>ALLOWANCE FOR UNFORESEEN EVENTS</b>	0	1,000	0	1,000
<b>TOTAL CAPITAL BUDGET</b>	<u>7,006</u>	<u>42,431</u>	<u>11,721</u>	<u>61,158</u>

**NEWFOUNDLAND & LABRADOR HYDRO**  
**GENERATION**  
**2005 CAPITAL BUDGET - DETAIL**

(\$,000)

PROJECT DESCRIPTION	Exp To 2004	2005	Future Years	Total	In-Ser Date	Explanation Page Ref.
<b><u>HYDRO PLANTS</u></b>						
<b><u>CONSTRUCTION PROJECTS</u></b>						
Upgrade Slope Stabilization - Upper Salmon Power Canal	102	1,003		1,105	Oct. 05	B-5
Replace Underground Fuel Tanks - Upper Salmon Generating Facility		327		327	Sep. 05	B-9
Upgrade Controls Spherical Valve No.6 - Bay d'Espoir		196		196	Nov. 05	B-11
Replace Penstock - Snook's Arm Generating Station		115	1,815	1,930	Oct. 06	B-13
<b>TOTAL CONSTRUCTION PROJECTS</b>	<b>102</b>	<b>1,641</b>	<b>1,815</b>	<b>3,558</b>		
<b><u>TOOLS &amp; EQUIPMENT</u></b>						
Purchase Dry Ice Cleaning System - BDE		59		59	Oct. 05	B-15
Purchase Wedge Tightness Detector - BDE		49		49	Nov. 05	
Purchase & Replace T & E Less than \$ 50,000		90		90		
<b>TOTAL TOOLS &amp; EQUIPMENT</b>	<b>0</b>	<b>198</b>	<b>0</b>	<b>198</b>		

**NEWFOUNDLAND & LABRADOR HYDRO  
GENERATION  
2005 CAPITAL BUDGET - DETAIL  
(\$,000)**

PROJECT DESCRIPTION	Exp To 2004	2005	Future Years	Total	In-Ser Date	Explanation Page Ref.
<b><u>THERMAL PLANT</u></b>						
<b><u>CONSTRUCTION PROJECTS</u></b>						
Upgrade Control System - Holyrood	1,553	1,034		2,587	Aug. 05	B-16
Purch/Inst Anti-Fouling System for Cooling Water Systems - Holyrood		705		705	Oct. 05	B-19
Purch/Inst Fire Protection System - Microwave Radio Room - Holyrood		61		61	Oct. 05	B-20
	<u>1,553</u>	<u>1,800</u>	<u>0</u>	<u>3,353</u>		
<b>TOTAL CONSTRUCTION PROJECTS</b>	<u>1,553</u>	<u>1,800</u>	<u>0</u>	<u>3,353</u>		
<b><u>PROPERTY ADDITIONS</u></b>						
Upgrade Civil Structures	78	2,002		2,080	Oct. 05	B-21
	<u>78</u>	<u>2,002</u>	<u>0</u>	<u>2,080</u>		
<b>TOTAL PROPERTY ADDITIONS</b>	<u>78</u>	<u>2,002</u>	<u>0</u>	<u>2,080</u>		
<b><u>TOOLS &amp; EQUIPMENT</u></b>						
Purchase & Replace Tools & Equipment Less than \$ 50,000	0	16	0	16		
	<u>0</u>	<u>16</u>	<u>0</u>	<u>16</u>		
<b>TOTAL TOOLS &amp; EQUIPMENT</b>	<u>0</u>	<u>16</u>	<u>0</u>	<u>16</u>		
<b><u>GAS TURBINES</u></b>						
<b><u>CONSTRUCTION PROJECTS</u></b>						
Install Main Fuel Line Valve - Hardwoods		91		91	Oct. 05	B-24
Installation of Diesel Generating Set - Stephenville		87		87	Jun. 05	B-25
Replace Battery Bank - Hardwoods		58		58	Sep. 05	B-27
Purchase/Install Reconciliation Flow Meters - Stephenville		26		26	Jul. 05	
Purchase/Install Reconciliation Flow Meters - Hardwoods		24		24	Jul. 05	
Replace Control Module HVAC Unit - Hardwoods		24		24	Jul. 05	
Automate Diesel Backup System - Hardwoods		19		19	Jun. 05	
	<u>0</u>	<u>329</u>	<u>0</u>	<u>329</u>		
<b>TOTAL CONSTRUCTION PROJECTS</b>	<u>0</u>	<u>329</u>	<u>0</u>	<u>329</u>		
<b>TOTAL GENERATION</b>	<u>1,733</u>	<u>5,986</u>	<u>1,815</u>	<u>9,534</u>		

**NEWFOUNDLAND & LABRADOR HYDRO  
TRANSMISSION & RURAL OPERATIONS  
2005 CAPITAL BUDGET - DETAIL  
(\$,000)**

PROJECT DESCRIPTION	Exp To 2004	2005	Future Years	Total	In-Ser Date	Explanation Page Ref.
<b><u>TRANSMISSION</u></b>						
Replace Wood Poles - Transmission		2,588		2,588	Dec. 05	B-28
Upgrade TL221 - (69kV Peter's Barren - Hawkes Bay)		774		774	Oct. 05	B-30
Replace Insulators TL243 - (138kV Hinds Lake - Howley)		228		228	Sep. 05	B-32
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<b>TOTAL TRANSMISSION</b>	<b>0</b>	<b>3,590</b>	<b>0</b>	<b>3,590</b>		
<b><u>SYSTEM PERFORMANCE &amp; PROTECTION</u></b>						
Provide Remote Control - Farewell Head Terminal Station		127		127	Jun. 05	B-33
Purch/Install Digital Fault Recorder - Bottom Brook		122		122	Aug. 05	B-35
Purch/Install 66Kv Breaker Fail Protection - Massey Drive TS		81		81	Oct. 05	B-36
Upgrade Protection 66Kv Lines - Peter's Barren , Daniel's Harbour		78		78	Oct. 05	B-37
Upgrade Breaker Controls - BBK/MDR Terminal Station		33		33	Aug. 05	
Purch/Install 66Kv Breaker Protection Upgrade - Bay d'Espoir		27		27	Oct. 05	
		-----		-----		
<b>TOTAL SYSTEM PERFORMANCE &amp; PROTECTION</b>	<b>0</b>	<b>468</b>	<b>0</b>	<b>468</b>		
<b><u>TERMINALS</u></b>						
Install Motor Drive Mechanisms on Disconnect Switches - East Coast		183		183	Oct. 05	B-38
Replace Battery Banks		166		166	Oct. 05	B-40
Replace Instrument Transformers		75		75	Dec. 05	B-42
Replace Surge Arrestors		68		68	Dec. 05	B-44
Purch/Install Conduit and Cable - ( Bay d'Espoir TS - Powerhouse)		61		61	Aug. 05	B-46
Construct Yard Extension - Conne River Substation		45		45	Jul. 05	
		-----		-----		
<b>TOTAL TERMINALS</b>	<b>0</b>	<b>598</b>	<b>0</b>	<b>598</b>		

**NEWFOUNDLAND & LABRADOR HYDRO  
TRANSMISSION & RURAL OPERATIONS  
2005 CAPITAL BUDGET - DETAIL  
(\$,000)**

PROJECT DESCRIPTION	Exp To 2004	2005	Future Years	Total	In-Ser Date	Explanation Page Ref.
<b><u>DISTRIBUTION</u></b>						
Interconnect - Rencontre East		3,250		3,250	Nov. 05	B-47
Provide Service Extensions		1,728		1,728	Dec. 05	B-48
Upgrade Distribution Systems		1,601		1,601	Dec. 05	B-50
Insulator Replacements		971		971	Dec. 05	B-52
Upgrade Distribution Line - Cook's Harbour		718		718	Oct. 05	B-54
Upgrade Distribution System - L'Anse au Loup		636		636	Oct. 05	B-56
Relocate Substation- Roberts Arm/Triton		319		319	Oct. 05	B-58
Purchase and Install Reclosers - Makkovik & Hopedale		125		125	Oct. 05	B-65
Distribution Line Pole Replacements		168		168	Oct. 05	B-66
Relocate Regulator Bank - Happy Valley		43		43	Oct. 05	
<b>TOTAL DISTRIBUTION</b>	<b>0</b>	<b>9,559</b>	<b>0</b>	<b>9,559</b>		
<b><u>GENERATION</u></b>						
Increase Generation - L'Anse au Loup		392		392	Sep. 05	B-67
Replace Diesel Generating Unit No. 266 - Williams Hr.		304		304	Sep. 05	B-70
Replace Dam - Roddickton Mini Hydro		232		232	Oct. 05	B-71
Installation of Fall Arrest Equipment - Hydro facilities		206	787	993	Nov. 08	B-77
Install Shut-Off Valves - Diesel Plants		165		165	Sep. 05	B-78
Install Fuel Storage Tanks - Hopedale & Paradise River		152		152	Oct. 05	B-79
Replacement of Circuit Breakers - Hawkes Bay Diesel		111		111	Oct. 05	B-81
Upgrade Cooling System - Black Tickle		107		107	Jul. 05	B-82
Install Day Tank and Fuel Meter - Ramea		106		106	Aug. 05	B-83
Upgrade Building System North Plant - Goose Bay		99		99	Aug. 05	B-84
Raise Stack Heights - St. Brendan's, Black Tickle, Cartwright		96		96	Sep. 05	B-88
Purch.& Inst. Digital Metering - Francois, McCallum, Grey River, Little Bay Isl		90		90	Oct. 05	B-89
Upgrade Diesel Plant - Black Tickle		85		85	Sep. 05	B-90
Purchase Data Acquisition Software - Diesel Plants		70		70	Mar. 05	B-96
Install Intermediate Fuel Storage Tank - Charlottetown		66		66	Aug. 05	B-97
Modify Heating System - Hopedale		54		54	Nov. 05	B-99
Replace Battery Banks - L'Anse au Loup & Hawkes Bay		37		37	Sep. 05	
<b>TOTAL GENERATION</b>	<b>0</b>	<b>2,372</b>	<b>787</b>	<b>3,159</b>		



**NEWFOUNDLAND & LABRADOR HYDRO  
TRANSMISSION & RURAL OPERATIONS  
2005 CAPITAL BUDGET - DETAIL  
(\$,000)**

PROJECT DESCRIPTION	Exp To 2004	2005	Future Years	Total	In-Ser Date	Explanation Page Ref.
<b><u>GENERAL</u></b>						
<b><u>METERING</u></b>						
Purchase Meters & Equipment - TRO System		159		159	Dec. 05	B-100
Purchase Metering Spares - Bulk Electrical System		33		33	Dec. 05	
TOTAL METERING	<u>0</u>	<u>192</u>	<u>0</u>	<u>192</u>		
<b><u>PROPERTIES</u></b>						
Install Central Air Conditioning - Whitbourne & Stephenville		289		289	Oct. 05	B-101
Warehouse Renovations - St. Anthony		147		147	Jul. 05	B-102
Upgrade Line Depot/Storage Shed - Baie Verte, Sop's Arm & Bay d'Espoir		151		151	Jul. 05	B-103
Replace Line Depot Building - Mary's Harbour		74		74	Oct. 05	B-104
Purchase Global Positioning System		57		57	Feb. 05	B-105
Replace Fence Daniels Harbour Terminal Station		52		52	Jul. 05	B-106
Construct PCB Storage Building - Wabush		52		52	Aug. 05	B-107
Legal Survey of Distribution Line Right-of-Ways		50		50	Oct. 05	B-108
Extend Fence - Quartzite Terminal Station		49		49	Jul. 05	
Provide Security System - Port Saunders Office		43		43	Oct. 05	
Construct Storage Ramp - Stephenville & Whitbourne		36		36	Aug. 05	
Replace Wooden Gantry Crane - Salvage Stores		16		16	Jul. 05	
Construct Lube Oil Storage Ramp - Williams Harbour		7		7	Oct. 05	
TOTAL PROPERTIES	<u>0</u>	<u>1,023</u>	<u>0</u>	<u>1,023</u>		
<b><u>TOOLS &amp; EQUIPMENT</u></b>						
Replace Nodwell V7600 & Boom V6067 - Stephenville		798		798	Jul. 05	B-109
Purchase Mobile Oil Reclamation Unit		531		531	Oct. 05	B-110
Replace Doble F2000 Relay Test Equipment - BFL, WBN, STV & BDE		362		362	Jun. 05	B-112
Purchase & Replace Tools & Equipment Less than \$ 50,000	0	67		67		
Replace Light Duty Mobile Equipment Less than \$ 50,000		260		260		
TOTAL TOOLS & EQUIPMENT	<u>0</u>	<u>2,018</u>	<u>0</u>	<u>2,018</u>		
<b>TOTAL GENERAL</b>	<u>0</u>	<u>3,233</u>	<u>0</u>	<u>3,233</u>		
<b>TOTAL TRANSMISSION &amp; RURAL OPERATIONS</b>	<u>0</u>	<u>19,820</u>	<u>787</u>	<u>20,607</u>		

**NEWFOUNDLAND & LABRADOR HYDRO**  
**GENERAL PROPERTIES**  
**2005 CAPITAL BUDGET - DETAIL**  
**(\$,000)**

PROJECT DESCRIPTION	Exp To 2004	2005	Future Years	Total	In-Ser Date	Explanation Page Ref.
<b><u>INFORMATION SYSTEMS &amp; TELECOMMUNICATIONS</u></b>						
<b><u>SOFTWARE APPLICATIONS</u></b>						
<b><u>Infrastructure Replacement</u></b>						
Replace Energy Management System - Energy Control Centre	3,110	5,522	3,646	12,278	Oct. 06	B-114
<b><u>New Infrastructure</u></b>						
Applications Enhancements		311		311	Dec. 05	B-120
Security Program - Secure Remote Access	75	76		151	Dec. 05	B-122
<b><u>Upgrade of Technology</u></b>						
Corporate Applications Environment		274		274	Dec. 05	B-124
Cost Recovery CF(L)Co		(52)		(52)		
<b>TOTAL SOFTWARE APPLICATIONS</b>	<b>3,185</b>	<b>6,131</b>	<b>3,646</b>	<b>12,962</b>		
<b><u>COMPUTER OPERATIONS</u></b>						
<b><u>Infrastructure Replacement</u></b>						
iSeries Replacement		1,398		1,398	Nov. 05	B-125
Cost Recovery CF(L)Co		(266)		(266)		
End User Evergreen Program - 2005		711		711	Nov. 05	B-127
<b><u>New Infrastructure</u></b>						
Peripheral Infrastructure Replacement		118		118	Nov. 05	B-131
Security Strategy Deployment		99		99	Dec. 05	B-132
Cost Recovery CF(L)Co		(19)		(19)		
<b><u>Upgrade of Technology</u></b>						
Server & Operating Systems Evergreen Program - 2005		212		212	Nov. 05	B-134
<b>TOTAL COMPUTER OPERATIONS</b>	<b>0</b>	<b>2,253</b>	<b>0</b>	<b>2,253</b>		

**NEWFOUNDLAND & LABRADOR HYDRO**  
**GENERAL PROPERTIES**  
**2005 CAPITAL BUDGET - DETAIL**  
**(\$,000)**

PROJECT DESCRIPTION	Exp To 2004	2005	Future Years	Total	In-Ser Date	Explanation Page Ref.
<b><u>INFORMATION SYSTEMS &amp; TELECOMMUNICATIONS</u></b>						
<b><u>NETWORK SERVICES</u></b>						
<b><u>Infrastructure Replacement</u></b>						
Replace VHF Mobile Radio System		2,915	5,473	8,388	Nov. 06	B-137
Replace Battery System - Multiple Sites		364		364	Dec. 05	B-139
Microwave Site Refurbishing		294		294	Dec. 05	B-141
Replace Remote Terminal Unit for Hydro - Phase 6		150		150	Oct. 05	B-143
Replace Air Conditioners - Stoney Brook & Deer Lake		55		55	Dec. 05	B-144
Replace Voice and Data Communications - Berry Hill		15		15	Oct. 05	
<b><u>Upgrade of Technology</u></b>						
Replacement of Operational Data & Voice Network - Phase 2	971	1,247		2,218	Oct. 05	B-145
Upgrade Site Grounding - 2005		48		48	Dec. 05	
TOTAL NETWORK SERVICES	971	5,088	5,473	11,532		
<b>TOTAL INFORMATION SYSTEMS &amp; TELECOMMUNICATIONS</b>	4,156	13,472	9,119	26,747		

**NEWFOUNDLAND & LABRADOR HYDRO**  
**GENERAL PROPERTIES**  
**2005 CAPITAL BUDGET - DETAIL**  
**(\$,000)**

PROJECT DESCRIPTION	Exp To 2004	2005	Future Years	Total	In-Ser Date	Explanation Page Ref.
<b><u>ADMINISTRATIVE</u></b>						
<b><u>Vehicles</u></b>						
Replace Vehicles - Hydro System - 2004	1,081	450		1,531	Jun. 05	B-147
Replace Vehicles - Hydro System - 2005		878		878	Jun. 06	B-149
<b><u>ADMINISTRATION</u></b>						
Electronic Metering Reading	36	224		260	Dec. 05	B-151
Replace Chiller - Hydro Place		213		213	May. 05	B-152
Security Assessment of System Operations		110		110	Dec. 05	B-153
Upgrade Standby Diesel Fuel System - Hydro Place		91		91	Jul. 05	B-154
Re-Construct Storage Ramps - Bishop's Falls		73		73	Dec. 05	B-155
Purchase & Replace Admin Office Equip less than \$50,000		114		114		
<b>TOTAL ADMINISTRATIVE</b>	<b>1,117</b>	<b>2,153</b>	<b>0</b>	<b>3,270</b>		
<b>TOTAL GENERAL PROPERTIES</b>	<b>5,273</b>	<b>15,625</b>	<b>9,119</b>	<b>30,017</b>		