

NEWFOUNDLAND & LABRADOR HYDRO

2004 CAPITAL EXPENDITURES - OVERVIEW

FOR THE QUARTER ENDING JUNE 30, 2004 (\$,000)

	Expenditures Prior To 2004	PUB Approvedi Budget 2004	2004 Expenditure To June 30		Expenditures	Var. from Approved to Expected Expenditures
GENERATION	191	4,049	1,160	2,897	4,057	8
TRANSMISSION & RURAL OPERATIONS	1,159	11,999	3,126	8,976	12,102	244
GENERAL PROPERTIES	2,633	11,350	1,808	6,654	8,968	(2,382)
ALLOWANCE FOR UNFORESEEN EVENTS	0	1,000	0	1,000	1,000	0
PROJECTS APPROVED BY PUB	62	2,703	648	1,797	2,445	0
NEW PROJECTS LESS THAN \$50,000 APPROVED BY HYDRO	0 18	189	44	149	193	4
TOTAL CAPITAL BUDGET	4,063	31,290	6,786	21,473	28,765	(2,126)
Approved PU 29 (2003) Approved PU 5 (2004) Approved PU 13 (2004) Approved PU 16 (2004)		27,316 1,534 303 465				
Approved PU 28 (2004) Carryover Projects New Projects Under \$ 50,000 Approved by Hydro		258 1,255 159				
Revised TOTAL CAPITAL BUDGET		31,290				

NEWFOUNDLAND & LABRADOR HYDRO

2004 CAPITAL EXPENDITURES - OVERVIEW

FOR THE QUARTER ENDING JUNE 30, 2004 (\$,000)

	Expenditures Prior To 2004	PUB Approvedi Budget 2004	2004 Expenditure To June 30		Expected Total Expenditures 2004	Var. from Approved to Expected Expenditures	
GENERATION							
HYDRO PLANTS							
Construction Projects Tools & Equipment	191 0	1,474 194	451 126	1,036 63	1,487 189		3
THERMAL PLANT Construction Projects	0	2,281	582	1,699	2,281	0	3
Property Additions	0	78	1	77	78	0	3
Tools & Equipment		22	0		22	0	3
TOTAL GENERATION	191	4,049	1,160	2,897	4,057	8	
TRANSMISSION & RURAL OPERATIONS							
TRANSMISSION	401	3,926	318	4,216	4,534	608	4
SYSTEM PERFORMANCE & PROTECTION	0	303	103	203	306	3	4
TERMINALS	165	1,690	194	1,355	1,549	0	4
DISTRIBUTION	0	5,153	2,063	2,816	4,879	(274)	5
GENERATION	593	238	94	124	218	(20)	5
GENERAL Metering	0	104	15	90	105	1	5
Properties Tools & Equipment	0	49 536	3 336		49 462		5 5
roois a Equipment		536			462		5
TOTAL TRANSMISSION & RURAL OPERATIONS	1,159	11,999	3,126	8,976	12,102	244	
GENERAL PROPERTIES							
INFORMATION SYSTEMS & TELECOMMUNICATIONS	1,495	8,512	964	4,701	6,171	(2,341)	6
ADMINISTRATIVE	1,138	2,838	844	1,953	2,797	(41)	6
TOTAL GENERAL PROPERTIES	2,633	11,350	1,808	6,654	8,968	(2,382)	
ALLOWANCE FOR UNFORESEEN EVENTS	0	1,000	0	1,000	1,000	0	8
PROJECTS APPROVED BY PUB	62	2,703	648	1,797	2,445	0	8
PROJECTS APPROVED FOR LESS THAN \$50,000	18	189	44	149	193	4	8
TOTAL CAPITAL BUDGET	4,063	31,290	6,786	21,473	28,765	(2,126)	

NEWFOUNDLAND & LABRADOR HYDRO GENERATION 2004 CAPITAL EXPENDITURES - DETAIL FOR THE QUARTER ENDING JUNE 30, 2004 (\$,000)

DDG IEGT DESCRIPTION	Expenditures Prior To	Budget	То	Expenditures	•	•	xplanation
PROJECT DESCRIPTION	2004	2004	June 30	2004	2004	Expenditures	Reference
HYDRO PLANTS							
CONSTRUCTION PROJECTS							
Replace Vibration/Data System - Bay D'Espoir Replace Unit 7 Exciter - Bay D'Espoir	179 10	18 760	19 195	0 565	19 760	1 0	
Replace Gate Hoist No. 2 - Ebbegunbaeg Control Structure	2	513	42	471	513	0	
Upgrade Controls Spherical Valve #3 - Bay D' Espoir		183	195		195	12	
TOTAL CONSTRUCTION PROJECTS	191	1,474	451	1,036	1,487	13	
TOOLS & EQUIPMENT							
Replace Loader/Backhoe - Bay d'Espoir Purchase & Replace Tools & Equipment Less than \$50,000	0	124 70	119 7	0 63	119 70	(5) 0	
TOTAL TOOLS & EQUIPMENT	0	194	126	63	189	(5)	
THERMAL PLANT							
CONSTRUCTION PROJECTS							
Upgrade Control System - Holyrood Purch/Inst Ambient Monitoring System Enhancement		1,553 728	570 12	983 716	1,553 728	0	
TOTAL CONSTRUCTION PROJECTS	0	2,281	582	1,699	2,281	0	
PROPERTY ADDITIONS							
Upgrade Civil Structures - Holyrood		78	1	77	78	0	
TOTAL PROPERTY ADDITIONS	0	78	1	77	78	0	
TOOLS & EQUIPMENT							
Purchase & Replace Tools & Equipment Less than \$50,000	0	22	0	22	22	0	
TOTAL TOOLS & EQUIPMENT	0	22	0	22	22	0	

NEWFOUNDLAND & LABRADOR HYDRO TRANSMISSION & RURAL OPERATIONS 2004 CAPITAL EXPENDITURES - DETAIL FOR THE QUARTER ENDING JUNE 30, 2004

(\$,000)

		PUB	2004	Expected	Expected	Var. from	
'	expenditures Prior To		expenaiture: To	es Remaining	Total	Approved to	
PROJECT DESCRIPTION	2004	Budget 2004	June 30	2004	Expenditures 2004	Expected	Explanation Reference
THOUSE TELEVISION	2001			2001	2001	zxponantaro	
TRANSMISSION							
Upgrade TL214 - (138kV Bottom Brook - Doyles)	401	2,546	284	2,870	3,154	608	NOTE 1
Replace Insulators TL233 - (230kV Buchans - Bottom Brook)		1,055	18	1,037	1,055	0	
Replace Wood Poles - Transmission		325	16	309	325	0	
TOTAL TRANSMISSION	401	3,926	318	4,216	4,534	608	
SYSTEM PERFORMANCE & PROTECTION							
Purch/Install 138Kv Breaker Fail Protection Addition - Deer Lake/Sunnyside		150	25	125	150	0	
Replace Digital Fault Recorder - BDE		77	40		77	0	
Purchase and Install Remote Relay Data Acquisition Equipment		46	23	23	46	0	
Upgrade Breaker Controls - Western Avalon & Holyrood Terminal Stations		30	15	18	33		
TOTAL SYSTEM PERFORMANCE & PROTECTION	0	303	103	203	306	3	
TERMINALS							
Purchase and Install Transformer Addition - Happy Valley Terminal Station	6	1,245	102	1,096	1,198	(47)	
Install Motor Drive Mechanisms on Disconnect Switches - West Coast		207	0	121	121	(86)	NOTE 2
Replace Instrument Transformers		77	37	40	77	0	
Replace Surge Arrestors	40	70 15	28 7	42 0	70 7	0	
Upgrade Breaker Controls - Sunnyside Terminal Station Replace Digital Fault Recorder - Holyrood Terminal Station	18 70	15	6	-	6	(8) 0	
Upgrade Station Services - Long Harbour TS	70 71	12	8	4	12	0	
Replace 125V Battery Banks - Bottom Brook and Holyrood Terminal Stations	0	58	6	-	58	Ö	
TOTAL TERMINALS	165	1,690	194	1,355	1,549	(141)	

NEWFOUNDLAND & LABRADOR HYDRO TRANSMISSION & RURAL OPERATIONS 2004 CAPITAL EXPENDITURES - DETAIL FOR THE QUARTER ENDING JUNE 30, 2004 (\$,000)

	Evponditure	PUB	2004	Expected es Remaining	Expected Total	Var. from Approved to	Variance
	Prior To	Budget	To	•	Expenditures	• •	
PROJECT DESCRIPTION	2004	2004	June 30	2004	2004	Expenditure	-
DISTRIBUTION							
Service Extensions		1,558	714	844	1,558	0	
Distribution Upgrades		1,471	987	484	1,471	0	
Pole Replacements Insulator Replacements		993 945	125 209	739 648	864 857	(129) (88)	NOTE 3 NOTE 4
Purchase and Install Recloser L6 - Bear Cove		85	15	64	79		110124
Replace Substation Transformer - Rigolet		76	5	22	27	(49)	
Purchase and Install Recloser L1 - Conche		25	8	15	23	(2)	
TOTAL DISTRIBUTION	0	5,153	2,063	2,816	4,879	(274)	
GENERATION							
Protection Upgrades - Isolated Systems	593	33	13	0	13	(20)	
Upgrade Generator Relaying - Happy Valley North Plant		170	79	91	170	0	
Purchase and Install P.T.'s - Ramea		35	2	33	35	0	
TOTAL GENERATION	593	238	94	124	218	(20)	
GENERAL							
METERING							
Purchase Meters & Equipment - TRO System Purchase Metering Spares - Bulk Electrical System		98 6	15 0	83 7	98 7		
•				.		-	
TOTAL METERING	0	104	15	90	105	1	
PROPERTIES							
Survey of Hydro's Primary Distribution Line Right-of-Ways		49	3	46	49	0	
TOTAL PROPERTIES	0	49	3	46	49	0	
TOOLS & EQUIPMENT							
Purchase & Replace Tools & Equipment Less than \$ 50,000 (Carryover 2003)	0	45	60	0	60		
Purchase & Replace Tools & Equipment Less than \$ 50,000 Replace Light Duty Mobile Equipment Less than \$50,000	0	102 389	62 214	40 86	102 300		NOTE 5
TOTAL TOOLS & EQUIPMENT	0	536	336	126	462	(74)	
TOTAL GENERAL	0	689	354	262	616	(73)	
TOTAL TRANSMISSION & RURAL OPERTIONS	1,159	11,999	3,126	8,976	12,102	103	
	-			- 			

NEWFOUNDLAND & LABRADOR HYDRO GENERAL PROPERTIES 2004 CAPITAL EXPENDITURES - DETAIL FOR THE QUARTER ENDING JUNE 30, 2004 (\$,000)

				Expected es Remaining	Expected Total	Var. from	
PROJECT DESCRIPTION	Prior To 2004	Budget 2004	To June 30	Expenditures 2004	s Expenditures 2004	Expected Expenditure	
INFORMATION SYSTEMS & TELECOMMUNICATIONS							
SOFTWARE APPLICATIONS							
INFRASTRUCTURE REPLACEMENT							
Replace Energy Management System - Energy Control Centre	387	5,120	430	2,293	2,723	(2,397)	NOTE 6
NEW INFRASTRUCTURE							
Corporate Applications Environment Applications Enhancements Security Program - Centralized Log Monitoring & Analysis System Security Program - Secure Remote Access	71	540 463 69 75	40 23 3 0		540 463 69 75		
TOTAL SOFTWARE APPLICATIONS	458	6,267	496	2,868	3,870	(2,397)	
COMPUTER OPERATIONS							
INFRASTRUCTURE REPLACEMENT							
NEW INFRASTRUCTURE							
Peripheral Infrastructure Replacement		101	47	54	101	0	
TOTAL COMPUTER OPERATIONS	0	101	47	54	101	0	
NETWORK SERVICES							
INFRASTRUCTURE REPLACEMENT							
Replace Powerline Carrier Equipment - Transmission System - West Coast Replace Battery System - Multiple Sites - 2004 Replace Remote Terminal Unit for Hydro - Phase 5 Replace Telephone Isolation Equipment - Doyles Upgrade Site Grounding at Telecontrol Site - Phase 5	1,037	391 274 314 49 49	53 171 57 2 1	137 257	391 308 314 71 49		
NETWORK INFRASTRUCTURE							
Purchase Test Equipment Upgrade Local Area Networks (LANs) - Multiple Sites - 2004		48 48	48 10		48 48		
UPGRADE OF TECHNOLOGY							
Replacement of Operational Data & Voice Network - Phase II		971	79	892	971	0	
TOTAL NETWORK SERVICES	1,037	2,144	421	1,779	2,200	56	
TOTAL INFORMATION SYSTEMS & TELECOMMUNICATION	IS 1,495	8,512	964	4,701	6,171	(2,341)	

NEWFOUNDLAND & LABRADOR HYDRO GENERAL PROPERTIES 2004 CAPITAL EXPENDITURES - DETAIL FOR THE QUARTER ENDING JUNE 30, 2004 (\$,000)

E	xpenditures	PUB ApprovedE	2004 xpenditure	Expected es Remaining	Expected Total	Var. from Approved to Variance
PROJECT DESCRIPTION	Prior To 2004	Budget 2004	To June 30	Expenditures E	Expenditures	• •
TROCEST BESSAIL TION	2004	2004	ounc oo	2004	2004	<u> </u>
ADMINISTRATIVE						
VEHICLES						
Replace Vehicles - Hydro System - 2003 Replace Vehicles - Hydro System - 2004	1,138	1,588 1,081	586 258	1,002 823	1,588 1,081	
ADMINISTRATION						
Purchase Cash Remittance Processor Electronic Metering Reading		60 36	0	60 36	60 36	0
Purchase & Replace Admin Office Equip less than \$50,000	0	73	0	32	32	(41)
TOTAL ADMINISTRATIVE	1,138	2,838	844	1,953	2,797	(41)
TOTAL GENERAL PROPERTIES	2,633	11,350	1,808	6,654	8,968	(2,382)

NEWFOUNDLAND & LABRADOR HYDRO

OTHER APPROVED FUNDS 2004 CAPITAL EXPENDITURES - DETAIL FOR THE QUARTER ENDING JUNE 30, 2004 (\$,000)

	_	PUB	2004	Expected	Expected	Var. from	
	-		-	s Remaining	Total	Approved to	
PROJECT DESCRIPTION	Prior To 2004	Budget 2004	To June 30	Expenditures 2004	2004	Expected Expenditure:	Explanation Reference
ALLOCATION FOR UNFORESEEN EVENTS							
Allocation for Unforeseen Events		1,000	0	1,000	1,000	0	
TOTAL ALLOCATION FOR UNFORESEEN EVENTS	0	1,000	0	1,000	1,000	0	
ROJECTS APPROVED BY PUB							
<u>Carryover</u>							
oad Research - Island and Labrador Interconnected Systems	62	143	68	75	143		
ind Generation - Ramea Contribution	9 (9)	89 (89)	72 (58)		89 (89)		
ew	(3)	(03)	(30)	(31)	(03)	, ,	
pper Salmon Slope Stabilization		102	41	61	102	0	
fice Server & Productivity Tools Evergreen		639	10	629	639	0	
nd User Evergreen Program		793	511	282	793		
crease Generation - Port Hope Simpson olyrood Marine Terminal - Security Upgrade		303 465	1	302 462	303 465	0	
iesel Generating Unit - Hopedale		258	•	402	403	Ů	
TOTAL PROJECTS APPROVED BY PUB	62	2,703	648	1,797	2,445	0	
IEW PROJECTS LESS THAN \$50,000 APPROVED BY HYDRO	!						
<u>Carryover</u>							
roject Review - Replace VHF Mobile Radio Systems	18	30	34	0	34	4	
<u>lew</u>							
urchase Site License for Proworx 32		33	1	32	33		
eplace Battery Bank - Grand Lake Crossing urchase VHF Radios		26 27	9	17 27	26 27	0	
eplace Air Conditioning Unit - Hardwoods Terminal Station		24	0	24	24	0	
reliminary Engineering - Rencontre Interconnection		49	0	49	49		
TOTAL PROJECTS LESS THAN \$50,000 APPROVED BY HYDI	R(18	189	44	149	193	4	

TRANSMISSION & RURAL OPERATIONS:

1. Upgrade TL214 – (138KV Bottom Brook – Doyles)

The variance is a result of additional funds being required for the transmission line construction contract and for the structural steel supply. Costs for the transmission construction were substantially higher than what was forecasted in the original project estimate, primarily due to the compressed construction schedule required for system operations.

2. Install Motor Drive Mechanisms on Disconnect Switches - West Coast

Based on experience gained on the installations of motor drive mechanisms in 2003, a more efficient work plan was derived from what was presented in the budget. This more efficient plan resulted in the reduction in costs as shown by the variance.

3. Pole Replacements

The Capital Budget Proposal estimates were based on cost data for projects completed in years prior to 2003. In 2003, the nature of distribution line construction work in the province resulted in a significant reduction in construction costs as compared to previous years. This trend of lower construction costs continues to prevail in 2004. The variance reflects the reduction in costs due to current construction trends which are significantly lower than the original budget estimate.

4. <u>Insulator Replacements</u>

The Capital Budget Proposal estimates were based on cost data for projects completed in years prior to 2003. In 2003, the nature of distribution line construction work in the province resulted in a significant reduction in construction costs as compared to previous years. This trend of lower construction costs continues to prevail in 2004. The variance reflects the reduction in costs due to current construction trends which are significantly lower than the original budget estimate.

5. Replace Light Duty Mobile Equipment Less Than \$50,000

The 2004 Capital Budget Proposal was based on the purchase of forty-nine units of light duty mobile equipment. A review of fleet requirements identified a reduction in light duty mobile equipment units from forty-nine to thirty-six. The budget variance is the result of the reduction in the number of units required.

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GENERAL PROPERTIES:

6. Replace Energy Management System - Energy Control Centre

The cashflow for the EMS has changed from that submitted in 2003 Capital Budget proposal. The 2003 Capital Budget proposal was prepared based on the report by KEMA with an anticipated contract signing in December 2003 and an in-service date of February 2006. Due to slower progress than anticipated in the KEMA report to address the rather complex nature of the contract, it was not signed until June 2004 and therefore the scheduled project completion milestone has changed to June 2006. As a result the estimated costs for 2004 and 2005 are forecasted down and estimated costs for 2006 are forecasted up. The total cost for the project has not changed.