NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 LABRADOR INTERCONNECTED ALTERNATIVE ($000)

AFUDC **7.53%**

	InSvcyr	InSvcMo	CapCost In	Escalation	AFUDC	Calculated InSvcCost	Strategist InSvcCost	Construction Escalation[2]	Construction Start Month	2010	2011	2012	2013	2014	2015	2016	2017	2018
ESCALATION and AFUDC																		
Escalation Rates																		
CT Escalation	2.0%																	
CCCT Escalation	1.9%																	
Hydro Escalation	1.9%																	
50 MW CT	2014	12	65,137	5,672	3,945	74,755	74,751	2.0%	4									
Escalation								65,137.0										
Year 1				34.7				0.0105	683.9	697.6	711.6	718.7				718.7		
Year 2				1,250.9				0.2674	17,417.6	17,766.0	18,121.3	18,483.7	18,668.6			18,668.6		
Year 3				4,386.4				0.7221	47,035.4	47,976.1	48,935.7	49,914.4	50,912.7	51,421.8		51,421.8		
Year 4				0.0														
Year 5				0.0														
				5,672.0					65,137.0									
AFUDC					3,945.5							20.3	758.5	3,166.7		3,945.5		
In-service cost						74,755						739.0	19,427.1	54,588.4		**74,755**		

In-service Cost input into Strategist directly. Escalation and AFUDC were calculated outside. See Exhibit 5e

INFEED	2017	1	2,553,235	0	0	2,553,235	2,553,235												
				0.0															
				0.0															
				0.0															
				0.0															
				0.0															
					0.0														
						2,553,235													
						~~2710~~									151	6			
															2,883	100			
SYNC COND	2017	11	2,757	415	111	3,283	3,140	1.9%	1										
Escalation								2,757.0											
Year 1				17.8				0.0497	137.0	139.6	142.3	145.0	147.7	150.5	153.4	154.9			
Year 2				397.4				0.9503	2,620.0	2,669.8	2,720.5	2,772.2	2,824.8	2,878.5	2,933.2	2,988.9	3,017.3		
Year 3				0.0						0.0									
Year 4				0.0															
Year 5				0.0															
				415.2					2,757.0										

CER.INPUT.PROJECTDATA.PROJECT.Inflation and Escalation Flag was turned off in error. How
was escalated only to the construction start year (2015) of the project (instead of to the yea
As well, a 2008 Direct Cost ($2710) was used in error, instead of the 2010 cost ($2757). The f

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 LABRADOR INTERCONNECTED ALTERNATIVE ($000)

AFUDC 7.53%	InSvcyr	InSvcMo	CapCost In	Escalation	AFUDC	Calculated InSvcCost	Strategist InSvcCost	Escalation[2]	Construction Start Month	2010	2011	2012	2013	2014	2015	2016	2017	2018
AFUDC					110.6											5.8	104.8	
In-service cost						3,283										160.7	3,122.1	
Estimates from Hydro's 20-year Budget; assumes AFUDC in estimate.																		
HRD DCL1	2025	12	12,000	3,452	0	15,452	15,451	1.9%	1									
Escalation								12,000.0										
Year 1				241.9				0.0834	1,000.8	1,019.8	1,039.2	1,058.9	1,079.1	1,099.6	1,120.4	1,141.7	1,163.4	1,185.5
Year 2				1,061.1				0.3333	3,999.6	4,075.6	4,153.0	4,231.9	4,312.3	4,394.3	4,477.8	4,562.8	4,649.5	4,737.9
Year 3				1,157.3				0.3333	3,999.6	4,075.6	4,153.0	4,231.9	4,312.3	4,394.3	4,477.8	4,562.8	4,649.5	4,737.9
Year 4				313.7				0.0833	999.6	1,018.6	1,037.9	1,057.7	1,077.8	1,098.2	1,119.1	1,140.4	1,162.0	1,184.1
Year 5				677.8				0.1667	2,000.4	2,038.4	2,077.1	2,116.6	2,156.8	2,197.8	2,239.6	2,282.1	2,325.5	2,369.7
				3,451.8					12,000.0									
AFUDC					0.0													
In-service cost						15,452												
Estimates from Hydro's 20-year Budget; assumes AFUDC in estimate.																		
HRD DCL2	2029	12	8,498	3,384	0	11,882	11,881	1.9%	1									
Escalation								8,500.0										
Year 1				727.6				0.2350	1,997.5	2,035.5	2,074.1	2,113.5	2,153.7	2,194.6	2,236.3	2,278.8	2,322.1	2,366.2
Year 2				1,365.7				0.4118	3,500.3	3,566.8	3,634.6	3,703.6	3,774.0	3,845.7	3,918.8	3,993.2	4,069.1	4,146.4
Year 3				625.0				0.1765	1,500.3	1,528.8	1,557.8	1,587.4	1,617.6	1,648.3	1,679.6	1,711.5	1,744.0	1,777.2
Year 4				665.4				0.1765	1,500.3	1,528.8	1,557.8	1,587.4	1,617.6	1,648.3	1,679.6	1,711.5	1,744.0	1,777.2
Year 5				0.0														
				3,383.6					8,498.3									
AFUDC					0.0													
In-service cost						11,882												
PORTLAND	2036	12	89,909	57,302	8,467	155,678	155,671	1.9%	1									
Escalation								89,909.0										
Year 1				2,275.5				0.0432	3,883.5	3,957.3	4,032.4	4,109.1	4,187.1	4,266.7	4,347.8	4,430.4	4,514.5	4,600.3
Year 2				12,296.8				0.2220	19,960.0	20,339.2	20,725.7	21,119.4	21,520.7	21,929.6	22,346.3	22,770.8	23,203.5	23,644.4
Year 3				42,729.8				0.7348	66,065.6	67,320.8	68,599.9	69,903.3	71,231.5	72,584.9	73,964.0	75,369.3	76,801.3	78,260.5
Year 4				0.0														
Year 5				0.0														
				57,302.0					89,909.0									
AFUDC					8,467.1													
In-service cost						155,678												
CCCT 170	2037	12	206,187	134,584	32,656	373,426	373,411	1.9%	1									
Escalation								206,187.0										

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 LABRADOR INTERCONNECTED ALTERNATIVE ($000)

AFUDC	7.53%			CapCost		Calculated		Strategist	Construction	Construction Start									
	InSvcyr	InSvcMo	In	Escalation	AFUDC	InSvcCost	InSvcCost	Escalation[2]	Month	2010	2011	2012	2013	2014	2015	2016	2017	2018
Year 1				17,451.4				0.1374	28,326.8	28,865.0	29,413.5	29,972.3	30,541.8	31,122.1	31,713.4	32,316.0	32,930.0	33,555.6
Year 2				71,702.4				0.5377	110,860.9	112,967.3	115,113.7	117,300.8	119,529.5	121,800.6	124,114.8	126,473.0	128,876.0	131,324.6
Year 3				45,429.9				0.3249	66,999.2	68,272.1	69,569.3	70,891.1	72,238.1	73,610.6	75,009.2	76,434.4	77,886.6	79,366.5
Year 4				0.0														
Year 5				0.0														
				134,583.7					206,186.9									
AFUDC					32,655.7													
In-service cost						373,426												
GT50	2046	12	65,137	68,306	7,435	140,878	140,871	2.0%	4									
Escalation								65,137.0										
Year 1				670.5				0.0105	683.9	697.6	711.6	725.8	740.3	755.1	770.2	785.6	801.3	817.4
Year 2				17,764.0				0.2674	17,417.6	17,766.0	18,121.3	18,483.7	18,853.4	19,230.5	19,615.1	20,007.4	20,407.5	20,815.7
Year 3				49,871.0				0.7221	47,035.4	47,976.1	48,935.7	49,914.4	50,912.7	51,930.9	52,969.5	54,028.9	55,109.5	56,211.7
Year 4				0.0														
Year 5				0.0														
				68,305.5					65,137.0									
AFUDC					7,435.4													
In-service cost						140,878												

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 LABRADOR INTERCONNECTED ALTERNATIVE ($000)

AFUDC	7.53%			CapCost			Calculated	Strategist	Construction	Construction Start									
		InSvcyr	InSvcMo	In	Escalation	AFUDC	InSvcCost	InSvcCost	Escalation[2]	Month	2010	2011	2012	2013	2014	2015	2016	2017	2018
GT50		2050	12	65,137	79,305	8,048	152,491	152,483	2.0%	4									
	Escalation								65,137.0										
	Year 1				782.1				0.0105	683.9	697.6	711.6	725.8	740.3	755.1	770.2	785.6	801.3	817.4
	Year 2				20,664.1				0.2674	17,417.6	17,766.0	18,121.3	18,483.7	18,853.4	19,230.5	19,615.1	20,007.4	20,407.5	20,815.7
	Year 3				57,859.2				0.7221	47,035.4	47,976.1	48,935.7	49,914.4	50,912.7	51,930.9	52,969.5	54,028.9	55,109.5	56,211.7
	Year 4				0.0														
	Year 5				0.0														
					79,305.5					65,137.0									
	AFUDC					8,048.3													
	In-service cost						152,491												
GT50		2054	12	65,137	91,212	8,712	165,061	165,053	2.0%	4									
	Escalation								65,137.0										
	Year 1				902.9				0.0105	683.9	697.6	711.6	725.8	740.3	755.1	770.2	785.6	801.3	817.4
	Year 2				23,803.3				0.2674	17,417.6	17,766.0	18,121.3	18,483.7	18,853.4	19,230.5	19,615.1	20,007.4	20,407.5	20,815.7
	Year 3				66,505.9				0.7221	47,035.4	47,976.1	48,935.7	49,914.4	50,912.7	51,930.9	52,969.5	54,028.9	55,109.5	56,211.7
	Year 4				0.0														
	Year 5				0.0														
					91,212.2					65,137.0									
	AFUDC					8,711.7													
	In-service cost						165,061												
GT50		2058	12	65,137	104,100	9,430	178,667	178,658	2.0%	4									
	Escalation								65,137.0										
	Year 1				1,033.8				0.0105	683.9	697.6	711.6	725.8	740.3	755.1	770.2	785.6	801.3	817.4
	Year 2				27,201.2				0.2674	17,417.6	17,766.0	18,121.3	18,483.7	18,853.4	19,230.5	19,615.1	20,007.4	20,407.5	20,815.7
	Year 3				75,865.4				0.7221	47,035.4	47,976.1	48,935.7	49,914.4	50,912.7	51,930.9	52,969.5	54,028.9	55,109.5	56,211.7
	Year 4				0.0														
	Year 5				0.0														
					104,100.4					65,137.0									
	AFUDC					9,429.9													
	In-service cost						178,667												

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 LABRADOR INTERCONNECTED ALTERNATIVE ($000)

AFUDC **7.53%**	InSvcyr	InSvcMo	CapCost In	Escalation	AFUDC	Calculated InSvcCost	Strategist InSvcCost	Construction Escalation[2]	Construction Start Month	2010	2011	2012	2013	2014	2015	2016	2017	2018
GT50	2063	12	65,137	121,715	10,411	197,263	197,253	2.0%	4									
Escalation								65,137.0										
Year 1				1,212.5				0.0105	683.9	697.6	711.6	725.8	740.3	755.1	770.2	785.6	801.3	817.4
Year 2				31,845.2				0.2674	17,417.6	17,766.0	18,121.3	18,483.7	18,853.4	19,230.5	19,615.1	20,007.4	20,407.5	20,815.7
Year 3				88,657.0				0.7221	47,035.4	47,976.1	48,935.7	49,914.4	50,912.7	51,930.9	52,969.5	54,028.9	55,109.5	56,211.7
Year 4				0.0														
Year 5				0.0														
				121,714.7					65,137.0									
AFUDC					10,411.3													
In-service cost						197,263												

GT50	2066	12	65,137	133,152	11,049	209,337	209,327	2.0%	4									
Escalation								65,137.0										
Year 1				1,328.6				0.0105	683.9	697.6	711.6	725.8	740.3	755.1	770.2	785.6	801.3	817.4
Year 2				34,860.5				0.2674	17,417.6	17,766.0	18,121.3	18,483.7	18,853.4	19,230.5	19,615.1	20,007.4	20,407.5	20,815.7
Year 3				96,962.4				0.7221	47,035.4	47,976.1	48,935.7	49,914.4	50,912.7	51,930.9	52,969.5	54,028.9	55,109.5	56,211.7
Year 4				0.0														
Year 5				0.0														
				133,151.6					65,137.0									
AFUDC					11,048.6													
In-service cost						209,337												

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 LABRADOR INTERCONNECTED ALTERNATIVE ($000)

AFUDC	7.53%								Construction									
		CapCost				Calculated	Strategist	Construction	Start									
	InSvcyr	InSvcMo	In	Escalation	AFUDC	InSvcCost	InSvcCost	Escalation[2]	Month	2010	2011	2012	2013	2014	2015	2016	2017	2018

Note: 1. The difference between Calculated In-service cost and Strategist in-service cost is due to rounding.
2. Used single escalation factor for all years by project, as required by Strategist.
This number represents the CAGR of the escalation series over the study period.
3. Unless otherwise noted, base dollar estimates are in 2010$

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 LABRADOR INTERCONNECTED ALTERNATIVE ($000)

AFUDC	7.53%			CapCost			Calculated	Strategist Construction		2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
	InSvcyr	InSvcMo	In	Escalation	AFUDC	InSvcCost	InSvcCost	Escalation[2]												
ESCALATION and AFUDC																				

Escalation Rates

CT Escalation	2.0%
CCCT Escalation	1.9%
Hydro Escalation	1.9%

50 MW CT	2014	12	65,137	5,672	3,945	74,755	74,751	2.0%												
Escalation								65,137.0												
Year 1				34.7				0.0105												
Year 2				1,250.9				0.2674												
Year 3				4,386.4				0.7221												
Year 4				0.0																
Year 5				0.0																
				5,672.0																
AFUDC					3,945.5															
In-service cost						74,755														

In-service Cost input into Strategist directly. Escalation and AFUDC were calculated outside. See E

INFEED	2017	1	2,553,235	0	0	2,553,235	2,553,235													
				0.0																
				0.0																
				0.0																
				0.0																
				0.0																
				0.0																
					0.0															
						2,553,235														
						~~2710~~														
SYNC COND	2017	11	2,757	415	111	3,283	3,140	1.9%												
Escalation								2,757.0												
Year 1				17.8				0.0497		154.9										
Year 2				397.4				0.9503		3,017.3										
Year 3				0.0																
Year 4				0.0																
Year 5				0.0																
				415.2																

wever, because a Cost of Capital Escalation Rate was also input, the project
r in which the dollars were spent (2016 and 2017) and AFUDC added.
final in-service cost should have been $3283

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 LABRADOR INTERCONNECTED ALTERNATIVE ($000)

AFUDC	7.53%			CapCost			Calculated	Strategist Construction												
	InSvcyr	InSvcMo	In	Escalation	AFUDC	InSvcCost	InSvcCost	Escalation[2]	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
AFUDC					110.6					110.6									
In-service cost						3,283				**3,283**									
				Estimates from Hydro's 20-year Budget; assumes AFUDC in estimate															
HRD DCL1	2025	12	12,000	3,452	0	15,452	15,451	1.9%											
Escalation								12,000.0											
Year 1				241.9				0.0834	1,208.1	1,231.0	1,242.7						1,242.7		
Year 2				1,061.1				0.3333	4,827.9	4,919.6	5,013.1	5,060.7					5,060.7		
Year 3				1,157.3				0.3333	4,827.9	4,919.6	5,013.1	5,108.4	5,156.9				5,156.9		
Year 4				313.7				0.0833	1,206.6	1,229.5	1,252.9	1,276.7	1,301.0	1,313.3			1,313.3		
Year 5				677.8				0.1667	2,414.7	2,460.6	2,507.3	2,554.9	2,603.5	2,653.0	2,678.2		2,678.2		
				3,451.8															
AFUDC					0.0						0.0	0.0	0.0	0.0	0.0		0.0		
In-service cost						15,452					1,242.7	5,060.7	5,156.9	1,313.3	2,678.2		**15,452**		
				Estimates from Hydro's 20-year Budget; assumes AFUDC in estimate															
HRD DCL2	2029	12	8,498	3,384	0	11,882	11,881	1.9%											
Escalation								8,500.0											
Year 1				727.6				0.2350	2,411.2	2,457.0	2,503.7	2,551.2	2,599.7	2,649.1	2,699.4	2,725.1			
Year 2				1,365.7				0.4118	4,225.2	4,305.5	4,387.3	4,470.6	4,555.6	4,642.1	4,730.3	4,820.2	4,866.0		
Year 3				625.0				0.1765	1,810.9	1,845.4	1,880.4	1,916.1	1,952.6	1,989.6	2,027.5	2,066.0	2,105.2	2,125.2	
Year 4				665.4				0.1765	1,810.9	1,845.4	1,880.4	1,916.1	1,952.6	1,989.6	2,027.5	2,066.0	2,105.2	2,145.2	2,165.6
Year 5				0.0															
				3,383.6															
AFUDC					0.0											0.0	0.0	0.0	0.0
In-service cost						11,882										2,725.1	4,866.0	2,125.2	2,165.6
PORTLAND	2036	12	89,909	57,302	8,467	155,678	155,671	1.9%											
Escalation								89,909.0											
Year 1				2,275.5				0.0432	4,687.7	4,776.8	4,867.6	4,960.0	5,054.3	5,150.3	5,248.2	5,347.9	5,449.5	5,553.0	5,658.5
Year 2				12,296.8				0.2220	24,093.6	24,551.4	25,017.9	25,493.2	25,977.6	26,471.1	26,974.1	27,486.6	28,008.8	28,541.0	29,083.3
Year 3				42,729.8				0.7348	79,747.5	81,262.7	82,806.7	84,380.0	85,983.2	87,616.9	89,281.6	90,978.0	92,706.5	94,468.0	96,262.9
Year 4				0.0															
Year 5				0.0															
				57,302.0															
AFUDC					8,467.1														
In-service cost						155,678													
CCCT 170	2037	12	206,187	134,584	32,656	373,426	373,411	1.9%											
Escalation								206,187.0											

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 LABRADOR INTERCONNECTED ALTERNATIVE ($000)

AFUDC	7.53%		CapCost			Calculated	Strategist Construction												
	InSvcyr	InSvcMo	In	Escalation	AFUDC	InSvcCost	InSvcCost	Escalation[2]	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Year 1				17,451.4				0.1374	34,193.2	34,842.9	35,504.9	36,179.5	36,866.9	37,567.4	38,281.1	39,008.5	39,749.6	40,504.9	41,274.5
Year 2				71,702.4				0.5377	133,819.8	136,362.4	138,953.3	141,593.4	144,283.6	147,025.0	149,818.5	152,665.1	155,565.7	158,521.4	161,533.3
Year 3				45,429.9				0.3249	80,874.4	82,411.0	83,976.8	85,572.4	87,198.3	88,855.0	90,543.3	92,263.6	94,016.6	95,802.9	97,623.2
Year 4				0.0															
Year 5				0.0															
				134,583.7															
AFUDC					32,655.7														
In-service cost						373,426													
GT50	2046	12	65,137	68,306	7,435	140,878	140,871	2.0%											
Escalation								65,137.0											
Year 1				670.5				0.0105	833.7	850.4	867.4	884.7	902.4	920.5	938.9	957.7	976.8	996.4	1,016.3
Year 2				17,764.0				0.2674	21,232.0	21,656.6	22,089.8	22,531.6	22,982.2	23,441.8	23,910.7	24,388.9	24,876.7	25,374.2	25,881.7
Year 3				49,871.0				0.7221	57,335.9	58,482.6	59,652.3	60,845.3	62,062.2	63,303.5	64,569.6	65,861.0	67,178.2	68,521.7	69,892.2
Year 4				0.0															
Year 5				0.0															
				68,305.5															
AFUDC					7,435.4														
In-service cost						140,878													

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 LABRADOR INTERCONNECTED ALTERNATIVE ($000)

AFUDC	7.53%			CapCost			Calculated	Strategist Construction											
		InSvcyr	InSvcMo	In	Escalation	AFUDC	InSvcCost	InSvcCost	Escalation[2]	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
GT50		2050	12	65,137	79,305	8,048	152,491	152,483	2.0%											
	Escalation								65,137.0											
	Year 1				782.1				0.0105	833.7	850.4	867.4	884.7	902.4	920.5	938.9	957.7	976.8	996.4	1,016.3
	Year 2				20,664.1				0.2674	21,232.0	21,656.6	22,089.8	22,531.6	22,982.2	23,441.8	23,910.7	24,388.9	24,876.7	25,374.2	25,881.7
	Year 3				57,859.2				0.7221	57,335.9	58,482.6	59,652.3	60,845.3	62,062.2	63,303.5	64,569.6	65,861.0	67,178.2	68,521.7	69,892.2
	Year 4				0.0															
	Year 5				0.0															
					79,305.5															
	AFUDC					8,048.3														
	In-service cost						152,491													
GT50		2054	12	65,137	91,212	8,712	165,061	165,053	2.0%											
	Escalation								65,137.0											
	Year 1				902.9				0.0105	833.7	850.4	867.4	884.7	902.4	920.5	938.9	957.7	976.8	996.4	1,016.3
	Year 2				23,803.3				0.2674	21,232.0	21,656.6	22,089.8	22,531.6	22,982.2	23,441.8	23,910.7	24,388.9	24,876.7	25,374.2	25,881.7
	Year 3				66,505.9				0.7221	57,335.9	58,482.6	59,652.3	60,845.3	62,062.2	63,303.5	64,569.6	65,861.0	67,178.2	68,521.7	69,892.2
	Year 4				0.0															
	Year 5				0.0															
					91,212.2															
	AFUDC					8,711.7														
	In-service cost						165,061													
GT50		2058	12	65,137	104,100	9,430	178,667	178,658	2.0%											
	Escalation								65,137.0											
	Year 1				1,033.8				0.0105	833.7	850.4	867.4	884.7	902.4	920.5	938.9	957.7	976.8	996.4	1,016.3
	Year 2				27,201.2				0.2674	21,232.0	21,656.6	22,089.8	22,531.6	22,982.2	23,441.8	23,910.7	24,388.9	24,876.7	25,374.2	25,881.7
	Year 3				75,865.4				0.7221	57,335.9	58,482.6	59,652.3	60,845.3	62,062.2	63,303.5	64,569.6	65,861.0	67,178.2	68,521.7	69,892.2
	Year 4				0.0															
	Year 5				0.0															
					104,100.4															
	AFUDC					9,429.9														
	In-service cost						178,667													

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 LABRADOR INTERCONNECTED ALTERNATIVE ($000)

AFUDC	7.53%			CapCost			Calculated	Strategist Construction											
		InSvcyr	InSvcMo	In	Escalation	AFUDC	InSvcCost	InSvcCost	Escalation[2]	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
GT50		2063	12	65,137	121,715	10,411	197,263	197,253	2.0%											
	Escalation								65,137.0											
	Year 1				1,212.5				0.0105	833.7	850.4	867.4	884.7	902.4	920.5	938.9	957.7	976.8	996.4	1,016.3
	Year 2				31,845.2				0.2674	21,232.0	21,656.6	22,089.8	22,531.6	22,982.2	23,441.8	23,910.7	24,388.9	24,876.7	25,374.2	25,881.7
	Year 3				88,657.0				0.7221	57,335.9	58,482.6	59,652.3	60,845.3	62,062.2	63,303.5	64,569.6	65,861.0	67,178.2	68,521.7	69,892.2
	Year 4				0.0															
	Year 5				0.0															
					121,714.7															
	AFUDC					10,411.3														
	In-service cost						197,263													
GT50		2066	12	65,137	133,152	11,049	209,337	209,327	2.0%											
	Escalation								65,137.0											
	Year 1				1,328.6				0.0105	833.7	850.4	867.4	884.7	902.4	920.5	938.9	957.7	976.8	996.4	1,016.3
	Year 2				34,860.5				0.2674	21,232.0	21,656.6	22,089.8	22,531.6	22,982.2	23,441.8	23,910.7	24,388.9	24,876.7	25,374.2	25,881.7
	Year 3				96,962.4				0.7221	57,335.9	58,482.6	59,652.3	60,845.3	62,062.2	63,303.5	64,569.6	65,861.0	67,178.2	68,521.7	69,892.2
	Year 4				0.0															
	Year 5				0.0															
					133,151.6															
	AFUDC					11,048.6														
	In-service cost						209,337													

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 LABRADOR INTERCONNECTED ALTERNATIVE ($000)

AFUDC	7.53%			CapCost			Calculated	Strategist Construction											
	InSvcyr	InSvcMo	In	Escalation	AFUDC	InSvcCost	InSvcCost	Escalation[2]	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029

Note: 1. The difference between Calculated In-service cost and Strategist in-service cost is due
2. Used single escalation factor for all years by project, as required by Strategist.
This number represents the CAGR of the escalation series over the study period.
3. Unless otherwise noted, base dollar estimates are in 2010$

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 LABRADOR INTERCONNECTED ALTERNATIVE ($000)

AFUDC **7.53%**			CapCost			Calculated	Strategist Construction												
	InSvcyr	InSvcMo	In	Escalation	AFUDC	InSvcCost	InSvcCost	Escalation[2]	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
ESCALATION and AFUDC																			
Escalation Rates																			
CT Escalation	2.0%																		
CCCT Escalation	1.9%																		
Hydro Escalation	1.9%																		
50 MW CT	2014	12	65,137	5,672	3,945	74,755	74,751	2.0%											
Escalation								65,137.0											
Year 1				34.7				0.0105											
Year 2				1,250.9				0.2674											
Year 3				4,386.4				0.7221											
Year 4				0.0															
Year 5				0.0															
				5,672.0															
AFUDC					3,945.5														
In-service cost						74,755													
In-service Cost input into Strategist directly. Escalation and AFUDC were calculated outside. See E																			
INFEED	2017	1	2,553,235	0	0	2,553,235	2,553,235												
				0.0															
				0.0															
				0.0															
				0.0															
				0.0															
				0.0															
					0.0														
						2,553,235													
						~~2710~~													
SYNC COND	2017	11	2,757	415	111	3,283	3,140	1.9%											
Escalation								2,757.0											
Year 1				17.8				0.0497											
Year 2				397.4				0.9503											
Year 3				0.0															
Year 4				0.0															
Year 5				0.0															
				415.2															

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 LABRADOR INTERCONNECTED ALTERNATIVE ($000)

AFUDC	7.53%			CapCost		Calculated		Strategist Construction												
	InSvcyr	InSvcMo	In	Escalation	AFUDC	InSvcCost	InSvcCost	Escalation[2]	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
AFUDC					110.6														
In-service cost						3,283													
				Estimates from Hydro's 20-year Budget; assumes AFUDC in estimate															
HRD DCL1	2025	12	12,000	3,452	0	15,452	15,451	1.9%											
Escalation								12,000.0											
Year 1				241.9				0.0834											
Year 2				1,061.1				0.3333											
Year 3				1,157.3				0.3333											
Year 4				313.7				0.0833											
Year 5				677.8				0.1667											
				3,451.8															
AFUDC					0.0														
In-service cost						15,452													
				Estimates from Hydro's 20-year Budget; assumes AFUDC in estimate															
HRD DCL2	2029	12	8,498	3,384	0	11,882	11,881	1.9%											
Escalation								8,500.0											
Year 1				727.6				0.2350			2,725.1								
Year 2				1,365.7				0.4118			4,866.0								
Year 3				625.0				0.1765			2,125.2								
Year 4				665.4				0.1765			2,165.6								
Year 5				0.0															
				3,383.6															
AFUDC					0.0				0.0		0.0								
In-service cost						11,882			0.0		**11,882**								
PORTLAND	2036	12	89,909	57,302	8,467	155,678	155,671	1.9%											
Escalation								89,909.0											
Year 1				2,275.5				0.0432	5,766.0	5,875.6	5,987.2	6,101.0	6,159.0				6,159.0		
Year 2				12,296.8				0.2220	29,635.9	30,199.0	30,772.7	31,357.4	31,953.2	32,256.8			32,256.8		
Year 3				42,729.8				0.7348	98,091.9	99,955.6	101,854.8	103,790.0	105,762.0	107,771.5	108,795.3		108,795.3		
Year 4				0.0															
Year 5				0.0															
				57,302.0															
AFUDC					8,467.1								231.9	1,695.7	6,539.5		8,467.1		
In-service cost						155,678							6,390.8	33,952.5	115,334.8		**155,678**		
CCCT 170	2037	12	206,187	134,584	32,656	373,426	373,411	1.9%											
Escalation								206,187.0											

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 LABRADOR INTERCONNECTED ALTERNATIVE ($000)

AFUDC	7.53%		CapCost			Calculated	Strategist Construction											
	InSvcyr	InSvcMo	In	Escalation	AFUDC	InSvcCost	InSvcCost	Escalation[2]	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Year 1				17,451.4				0.1374	42,058.7	42,857.8	43,672.1	44,501.9	45,347.4	45,778.2				45,778.2	
Year 2				71,702.4				0.5377	164,602.5	167,729.9	170,916.8	174,164.2	177,473.3	180,845.3	182,563.4			182,563.4	
Year 3				45,429.9				0.3249	99,478.0	101,368.1	103,294.1	105,256.7	107,256.6	109,294.4	111,371.0	112,429.1		112,429.1	
Year 4				0.0															
Year 5				0.0															
				134,583.7															
AFUDC					32,655.7									1,723.5	10,450.4	20,481.8		32,655.7	
In-service cost						373,426								47,501.8	193,013.7	132,910.9		**373,426**	
GT50	2046	12	65,137	68,306	7,435	140,878	140,871	2.0%											
Escalation								65,137.0											
Year 1				670.5				0.0105	1,036.6	1,057.4	1,078.5	1,100.1	1,122.1	1,144.5	1,167.4	1,190.8	1,214.6	1,238.9	1,263.6
Year 2				17,764.0				0.2674	26,399.3	26,927.3	27,465.9	28,015.2	28,575.5	29,147.0	29,729.9	30,324.5	30,931.0	31,549.6	32,180.6
Year 3				49,871.0				0.7221	71,290.0	72,715.8	74,170.1	75,653.5	77,166.6	78,709.9	80,284.1	81,889.8	83,527.6	85,198.2	86,902.1
Year 4				0.0															
Year 5				0.0															
				68,305.5															
AFUDC					7,435.4														
In-service cost						140,878													

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 LABRADOR INTERCONNECTED ALTERNATIVE ($000)

AFUDC **7.53%**			CapCost			Calculated	Strategist Construction											
	InSvcyr	InSvcMo	In	Escalation	AFUDC	InSvcCost	InSvcCost	Escalation[2]	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
GT50	2050	12	65,137	79,305	8,048	152,491	152,483	2.0%											
Escalation								65,137.0											
Year 1				782.1				0.0105	1,036.6	1,057.4	1,078.5	1,100.1	1,122.1	1,144.5	1,167.4	1,190.8	1,214.6	1,238.9	1,263.6
Year 2				20,664.1				0.2674	26,399.3	26,927.3	27,465.9	28,015.2	28,575.5	29,147.0	29,729.9	30,324.5	30,931.0	31,549.6	32,180.6
Year 3				57,859.2				0.7221	71,290.0	72,715.8	74,170.1	75,653.5	77,166.6	78,709.9	80,284.1	81,889.8	83,527.6	85,198.2	86,902.1
Year 4				0.0															
Year 5				0.0															
				79,305.5															
AFUDC					8,048.3														
In-service cost						152,491													
GT50	2054	12	65,137	91,212	8,712	165,061	165,053	2.0%											
Escalation								65,137.0											
Year 1				902.9				0.0105	1,036.6	1,057.4	1,078.5	1,100.1	1,122.1	1,144.5	1,167.4	1,190.8	1,214.6	1,238.9	1,263.6
Year 2				23,803.3				0.2674	26,399.3	26,927.3	27,465.9	28,015.2	28,575.5	29,147.0	29,729.9	30,324.5	30,931.0	31,549.6	32,180.6
Year 3				66,505.9				0.7221	71,290.0	72,715.8	74,170.1	75,653.5	77,166.6	78,709.9	80,284.1	81,889.8	83,527.6	85,198.2	86,902.1
Year 4				0.0															
Year 5				0.0															
				91,212.2															
AFUDC					8,711.7														
In-service cost						165,061													
GT50	2058	12	65,137	104,100	9,430	178,667	178,658	2.0%											
Escalation								65,137.0											
Year 1				1,033.8				0.0105	1,036.6	1,057.4	1,078.5	1,100.1	1,122.1	1,144.5	1,167.4	1,190.8	1,214.6	1,238.9	1,263.6
Year 2				27,201.2				0.2674	26,399.3	26,927.3	27,465.9	28,015.2	28,575.5	29,147.0	29,729.9	30,324.5	30,931.0	31,549.6	32,180.6
Year 3				75,865.4				0.7221	71,290.0	72,715.8	74,170.1	75,653.5	77,166.6	78,709.9	80,284.1	81,889.8	83,527.6	85,198.2	86,902.1
Year 4				0.0															
Year 5				0.0															
				104,100.4															
AFUDC					9,429.9														
In-service cost						178,667													

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 LABRADOR INTERCONNECTED ALTERNATIVE ($000)

AFUDC	7.53%			CapCost			Calculated	Strategist Construction											
		InSvcyr	InSvcMo	In	Escalation	AFUDC	InSvcCost	InSvcCost	Escalation[2]	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
GT50		2063	12	65,137	121,715	10,411	197,263	197,253	2.0%											
	Escalation								65,137.0											
	Year 1				1,212.5				0.0105	1,036.6	1,057.4	1,078.5	1,100.1	1,122.1	1,144.5	1,167.4	1,190.8	1,214.6	1,238.9	1,263.6
	Year 2				31,845.2				0.2674	26,399.3	26,927.3	27,465.9	28,015.2	28,575.5	29,147.0	29,729.9	30,324.5	30,931.0	31,549.6	32,180.6
	Year 3				88,657.0				0.7221	71,290.0	72,715.8	74,170.1	75,653.5	77,166.6	78,709.9	80,284.1	81,889.8	83,527.6	85,198.2	86,902.1
	Year 4				0.0															
	Year 5				0.0															
					121,714.7															
	AFUDC					10,411.3														
	In-service cost						197,263													
GT50		2066	12	65,137	133,152	11,049	209,337	209,327	2.0%											
	Escalation								65,137.0											
	Year 1				1,328.6				0.0105	1,036.6	1,057.4	1,078.5	1,100.1	1,122.1	1,144.5	1,167.4	1,190.8	1,214.6	1,238.9	1,263.6
	Year 2				34,860.5				0.2674	26,399.3	26,927.3	27,465.9	28,015.2	28,575.5	29,147.0	29,729.9	30,324.5	30,931.0	31,549.6	32,180.6
	Year 3				96,962.4				0.7221	71,290.0	72,715.8	74,170.1	75,653.5	77,166.6	78,709.9	80,284.1	81,889.8	83,527.6	85,198.2	86,902.1
	Year 4				0.0															
	Year 5				0.0															
					133,151.6															
	AFUDC					11,048.6														
	In-service cost						209,337													

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 LABRADOR INTERCONNECTED ALTERNATIVE ($000)

AFUDC	7.53%			CapCost			Calculated	Strategist Construction											
	InSvcyr	InSvcMo	In	Escalation	AFUDC	InSvcCost	InSvcCost	Escalation[2]	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040

Note: 1. The difference between Calculated In-service cost and Strategist in-service cost is due
2. Used single escalation factor for all years by project, as required by Strategist.
This number represents the CAGR of the escalation series over the study period.
3. Unless otherwise noted, base dollar estimates are in 2010$

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 LABRADOR INTERCONNECTED ALTERNATIVE ($000)

AFUDC	7.53%			CapCost			Calculated	Strategist Construction		2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051
	InSvcyr	InSvcMo	In	Escalation	AFUDC	InSvcCost	InSvcCost	Escalation[2]												
ESCALATION and AFUDC																				

Escalation Rates

CT Escalation	2.0%
CCCT Escalation	1.9%
Hydro Escalation	1.9%

50 MW CT	2014	12	65,137	5,672	3,945	74,755	74,751	2.0%
Escalation								65,137.0
Year 1				34.7				0.0105
Year 2				1,250.9				0.2674
Year 3				4,386.4				0.7221
Year 4				0.0				
Year 5				0.0				
				5,672.0				
AFUDC					3,945.5			
In-service cost						74,755		

In-service Cost input into Strategist directly. Escalation and AFUDC were calculated outside. See E

INFEED	2017	1	2,553,235	0	0	2,553,235	2,553,235	
				0.0				
				0.0				
				0.0				
				0.0				
				0.0				
				0.0				
					0.0			
						2,553,235		
						~~2710~~		
SYNC COND	2017	11	2,757	415	111	3,283	3,140	1.9%
Escalation								2,757.0
Year 1				17.8				0.0497
Year 2				397.4				0.9503
Year 3				0.0				
Year 4				0.0				
Year 5				0.0				
				415.2				

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 LABRADOR INTERCONNECTED ALTERNATIVE ($000)

AFUDC	7.53%			CapCost		Calculated	Strategist Construction		2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051
	InSvcyr	InSvcMo	In	Escalation	AFUDC	InSvcCost	InSvcCost	Escalation[2]											
AFUDC					110.6														
In-service cost						3,283													
				Estimates from Hydro's 20-year Budget; assumes AFUDC in estimate															
HRD DCL1	2025	12	12,000	3,452	0	15,452	15,451	1.9%											
Escalation								12,000.0											
Year 1				241.9				0.0834											
Year 2				1,061.1				0.3333											
Year 3				1,157.3				0.3333											
Year 4				313.7				0.0833											
Year 5				677.8				0.1667											
				3,451.8															
AFUDC					0.0														
In-service cost						15,452													
				Estimates from Hydro's 20-year Budget; assumes AFUDC in estimate															
HRD DCL2	2029	12	8,498	3,384	0	11,882	11,881	1.9%											
Escalation								8,500.0											
Year 1				727.6				0.2350											
Year 2				1,365.7				0.4118											
Year 3				625.0				0.1765											
Year 4				665.4				0.1765											
Year 5				0.0															
				3,383.6															
AFUDC					0.0														
In-service cost						11,882													
PORTLAND	2036	12	89,909	57,302	8,467	155,678	155,671	1.9%											
Escalation								89,909.0											
Year 1				2,275.5				0.0432											
Year 2				12,296.8				0.2220											
Year 3				42,729.8				0.7348											
Year 4				0.0															
Year 5				0.0															
				57,302.0															
AFUDC					8,467.1														
In-service cost						155,678													
CCCT 170	2037	12	206,187	134,584	32,656	373,426	373,411	1.9%											
Escalation								206,187.0											

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 LABRADOR INTERCONNECTED ALTERNATIVE ($000)

AFUDC	7.53%			CapCost			Calculated	Strategist Construction												
		InSvcyr	InSvcMo	In	Escalation	AFUDC	InSvcCost	InSvcCost	Escalation[2]	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051
	Year 1				17,451.4				0.1374											
	Year 2				71,702.4				0.5377											
	Year 3				45,429.9				0.3249											
	Year 4				0.0															
	Year 5				0.0															
					134,583.7															
	AFUDC					32,655.7														
	In-service cost						373,426													
GT50		2046	12	65,137	68,306	7,435	140,878	140,871	2.0%											
	Escalation								65,137.0											
	Year 1				670.5				0.0105	1,288.9	1,314.7	1,341.0	1,354.4				1,354.4			
	Year 2				17,764.0				0.2674	32,824.2	33,480.7	34,150.3	34,833.3	35,181.7			35,181.7			
	Year 3				49,871.0				0.7221	88,640.2	90,413.0	92,221.2	94,065.7	95,947.0	96,906.4		96,906.4			
	Year 4				0.0															
	Year 5				0.0															
					68,305.5															
	AFUDC					7,435.4							38.2	1,429.5	5,967.7		7,435.4			
	In-service cost						140,878						1,392.6	36,611.1	102,874.1		**140,878**			

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 LABRADOR INTERCONNECTED ALTERNATIVE ($000)

AFUDC **7.53%**			CapCost			Calculated	Strategist Construction											
	InSvcyr	InSvcMo	In	Escalation	AFUDC	InSvcCost	InSvcCost	Escalation[2]	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051
GT50	2050	12	65,137	79,305	8,048	152,491	152,483	2.0%											
Escalation								65,137.0											
Year 1				782.1				0.0105	1,288.9	1,314.7	1,341.0	1,367.8	1,395.2	1,423.1	1,451.5	1,466.0			
Year 2				20,664.1				0.2674	32,824.2	33,480.7	34,150.3	34,833.3	35,530.0	36,240.6	36,965.4	37,704.7	38,081.8		
Year 3				57,859.2				0.7221	88,640.2	90,413.0	92,221.2	94,065.7	95,947.0	97,865.9	99,823.2	101,819.7	103,856.1	104,894.7	
Year 4				0.0															
Year 5				0.0															
				79,305.5															
AFUDC					8,048.3											41.4	1,547.3	6,459.6	
In-service cost						152,491										1,507.4	39,629.1	111,354.3	
GT50	2054	12	65,137	91,212	8,712	165,061	165,053	2.0%											
Escalation								65,137.0											
Year 1				902.9				0.0105	1,288.9	1,314.7	1,341.0	1,367.8	1,395.2	1,423.1	1,451.5	1,480.6	1,510.2	1,540.4	1,571.2
Year 2				23,803.3				0.2674	32,824.2	33,480.7	34,150.3	34,833.3	35,530.0	36,240.6	36,965.4	37,704.7	38,458.8	39,228.0	40,012.6
Year 3				66,505.9				0.7221	88,640.2	90,413.0	92,221.2	94,065.7	95,947.0	97,865.9	99,823.2	101,819.7	103,856.1	105,933.2	108,051.9
Year 4				0.0															
Year 5				0.0															
				91,212.2															
AFUDC					8,711.7														
In-service cost						165,061													
GT50	2058	12	65,137	104,100	9,430	178,667	178,658	2.0%											
Escalation								65,137.0											
Year 1				1,033.8				0.0105	1,288.9	1,314.7	1,341.0	1,367.8	1,395.2	1,423.1	1,451.5	1,480.6	1,510.2	1,540.4	1,571.2
Year 2				27,201.2				0.2674	32,824.2	33,480.7	34,150.3	34,833.3	35,530.0	36,240.6	36,965.4	37,704.7	38,458.8	39,228.0	40,012.6
Year 3				75,865.4				0.7221	88,640.2	90,413.0	92,221.2	94,065.7	95,947.0	97,865.9	99,823.2	101,819.7	103,856.1	105,933.2	108,051.9
Year 4				0.0															
Year 5				0.0															
				104,100.4															
AFUDC					9,429.9														
In-service cost						178,667													

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 LABRADOR INTERCONNECTED ALTERNATIVE ($000)

AFUDC	7.53%			CapCost			Calculated	Strategist Construction												
		InSvcyr	InSvcMo	In	Escalation	AFUDC	InSvcCost	InSvcCost	Escalation[2]	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051
GT50		2063	12	65,137	121,715	10,411	197,263	197,253	2.0%											
	Escalation								65,137.0											
	Year 1				1,212.5				0.0105	1,288.9	1,314.7	1,341.0	1,367.8	1,395.2	1,423.1	1,451.5	1,480.6	1,510.2	1,540.4	1,571.2
	Year 2				31,845.2				0.2674	32,824.2	33,480.7	34,150.3	34,833.3	35,530.0	36,240.6	36,965.4	37,704.7	38,458.8	39,228.0	40,012.6
	Year 3				88,657.0				0.7221	88,640.2	90,413.0	92,221.2	94,065.7	95,947.0	97,865.9	99,823.2	101,819.7	103,856.1	105,933.2	108,051.9
	Year 4				0.0															
	Year 5				0.0															
					121,714.7															
	AFUDC					10,411.3														
	In-service cost						197,263													
GT50		2066	12	65,137	133,152	11,049	209,337	209,327	2.0%											
	Escalation								65,137.0											
	Year 1				1,328.6				0.0105	1,288.9	1,314.7	1,341.0	1,367.8	1,395.2	1,423.1	1,451.5	1,480.6	1,510.2	1,540.4	1,571.2
	Year 2				34,860.5				0.2674	32,824.2	33,480.7	34,150.3	34,833.3	35,530.0	36,240.6	36,965.4	37,704.7	38,458.8	39,228.0	40,012.6
	Year 3				96,962.4				0.7221	88,640.2	90,413.0	92,221.2	94,065.7	95,947.0	97,865.9	99,823.2	101,819.7	103,856.1	105,933.2	108,051.9
	Year 4				0.0															
	Year 5				0.0															
					133,151.6															
	AFUDC					11,048.6														
	In-service cost						209,337													

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 LABRADOR INTERCONNECTED ALTERNATIVE ($000)

AFUDC	7.53%			CapCost			Calculated	Strategist Construction											
	InSvcyr	InSvcMo	In	Escalation	AFUDC	InSvcCost	InSvcCost	Escalation[2]	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051

Note: 1. The difference between Calculated In-service cost and Strategist in-service cost is due
2. Used single escalation factor for all years by project, as required by Strategist.
This number represents the CAGR of the escalation series over the study period.
3. Unless otherwise noted, base dollar estimates are in 2010$

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 LABRADOR INTERCONNECTED ALTERNATIVE ($000)

AFUDC	7.53%			CapCost			Calculated	Strategist Construction		2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062
	InSvcyr	InSvcMo		In	Escalation	AFUDC	InSvcCost	InSvcCost	Escalation[2]											
ESCALATION and AFUDC																				

Escalation Rates

CT Escalation	2.0%
CCCT Escalation	1.9%
Hydro Escalation	1.9%

50 MW CT	2014	12	65,137	5,672	3,945	74,755	74,751	2.0%
Escalation								65,137.0
Year 1				34.7				0.0105
Year 2				1,250.9				0.2674
Year 3				4,386.4				0.7221
Year 4				0.0				
Year 5				0.0				
				5,672.0				
AFUDC					3,945.5			
In-service cost						74,755		

In-service Cost input into Strategist directly. Escalation and AFUDC were calculated outside. See E

INFEED	2017	1	2,553,235	0	0	2,553,235	2,553,235	
				0.0				
				0.0				
				0.0				
				0.0				
				0.0				
				0.0				
					0.0			
						2,553,235		
						~~2710~~		
SYNC COND	2017	11	2,757	415	111	3,283	3,140	1.9%
Escalation								2,757.0
Year 1				17.8				0.0497
Year 2				397.4				0.9503
Year 3				0.0				
Year 4				0.0				
Year 5				0.0				
				415.2				

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 LABRADOR INTERCONNECTED ALTERNATIVE ($000)

AFUDC	7.53%			CapCost		Calculated		Strategist Construction												
	InSvcyr	InSvcMo	In	Escalation	AFUDC	InSvcCost	InSvcCost	Escalation[2]	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062
AFUDC					110.6														
In-service cost						3,283													
				Estimates from Hydro's 20-year Budget; assumes AFUDC in estimate															
HRD DCL1	2025	12	12,000	3,452	0	15,452	15,451	1.9%											
Escalation								12,000.0											
Year 1				241.9				0.0834											
Year 2				1,061.1				0.3333											
Year 3				1,157.3				0.3333											
Year 4				313.7				0.0833											
Year 5				677.8				0.1667											
				3,451.8															
AFUDC					0.0														
In-service cost						15,452													
				Estimates from Hydro's 20-year Budget; assumes AFUDC in estimate															
HRD DCL2	2029	12	8,498	3,384	0	11,882	11,881	1.9%											
Escalation								8,500.0											
Year 1				727.6				0.2350											
Year 2				1,365.7				0.4118											
Year 3				625.0				0.1765											
Year 4				665.4				0.1765											
Year 5				0.0															
				3,383.6															
AFUDC					0.0														
In-service cost						11,882													
PORTLAND	2036	12	89,909	57,302	8,467	155,678	155,671	1.9%											
Escalation								89,909.0											
Year 1				2,275.5				0.0432											
Year 2				12,296.8				0.2220											
Year 3				42,729.8				0.7348											
Year 4				0.0															
Year 5				0.0															
				57,302.0															
AFUDC					8,467.1														
In-service cost						155,678													
CCCT 170	2037	12	206,187	134,584	32,656	373,426	373,411	1.9%											
Escalation								206,187.0											

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 LABRADOR INTERCONNECTED ALTERNATIVE ($000)

AFUDC	7.53%			CapCost			Calculated		Strategist Construction													
		InSvcyr	InSvcMo	In	Escalation	AFUDC	InSvcCost	InSvcCost	Escalation[2]	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062		
	Year 1				17,451.4				0.1374													
	Year 2				71,702.4				0.5377													
	Year 3				45,429.9				0.3249													
	Year 4				0.0																	
	Year 5				0.0																	
					134,583.7																	
	AFUDC					32,655.7																
	In-service cost						373,426															
GT50		2046	12	65,137	68,306	7,435	140,878	140,871	2.0%													
	Escalation								65,137.0													
	Year 1				670.5				0.0105													
	Year 2				17,764.0				0.2674													
	Year 3				49,871.0				0.7221													
	Year 4				0.0																	
	Year 5				0.0																	
					68,305.5																	
	AFUDC					7,435.4																
	In-service cost						140,878															

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 LABRADOR INTERCONNECTED ALTERNATIVE ($000)

AFUDC	7.53%			CapCost			Calculated	Strategist Construction											
		InSvcyr	InSvcMo	In	Escalation	AFUDC	InSvcCost	InSvcCost	Escalation[2]	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062
GT50		2050	12	65,137	79,305	8,048	152,491	152,483	2.0%											
	Escalation								65,137.0											
	Year 1				782.1				0.0105	1,466.0										
	Year 2				20,664.1				0.2674	38,081.8										
	Year 3				57,859.2				0.7221	104,894.7										
	Year 4				0.0															
	Year 5				0.0															
					79,305.5															
	AFUDC					8,048.3				8,048.3										
	In-service cost						152,491			**152,491**										
GT50		2054	12	65,137	91,212	8,712	165,061	165,053	2.0%											
	Escalation								65,137.0											
	Year 1				902.9				0.0105	1,586.9				1,586.9						
	Year 2				23,803.3				0.2674	40,812.8	41,220.9			41,220.9						
	Year 3				66,505.9				0.7221	110,212.9	112,417.2	113,541.3		113,541.3						
	Year 4				0.0															
	Year 5				0.0															
					91,212.2															
	AFUDC					8,711.7				44.8	1,674.8	6,992.1		8,711.7						
	In-service cost						165,061			1,631.7	42,895.8	120,533.4		**165,061**						
GT50		2058	12	65,137	104,100	9,430	178,667	178,658	2.0%											
	Escalation								65,137.0											
	Year 1				1,033.8				0.0105	1,602.6	1,634.6	1,667.3	1,700.7	1,717.7				1,717.7		
	Year 2				27,201.2				0.2674	40,812.8	41,629.1	42,461.7	43,310.9	44,177.1	44,618.9			44,618.9		
	Year 3				75,865.4				0.7221	110,212.9	112,417.2	114,665.5	116,958.8	119,298.0	121,684.0	122,900.8		122,900.8		
	Year 4				0.0															
	Year 5				0.0															
					104,100.4															
	AFUDC					9,429.9								48.5	1,812.9	7,568.5		9,429.9		
	In-service cost						178,667							1,766.2	46,431.8	130,469.3		**178,667**		

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 LABRADOR INTERCONNECTED ALTERNATIVE ($000)

AFUDC	7.53%		CapCost			Calculated	Strategist Construction											
	InSvcyr	InSvcMo	In	Escalation	AFUDC	InSvcCost	InSvcCost	Escalation[2]	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062
GT50	2063	12	65,137	121,715	10,411	197,263	197,253	2.0%											
Escalation								65,137.0											
Year 1				1,212.5				0.0105	1,602.6	1,634.6	1,667.3	1,700.7	1,734.7	1,769.4	1,804.8	1,840.9	1,877.7	1,896.5	
Year 2				31,845.2				0.2674	40,812.8	41,629.1	42,461.7	43,310.9	44,177.1	45,060.6	45,961.9	46,881.1	47,818.7	48,775.1	49,262.8
Year 3				88,657.0				0.7221	110,212.9	112,417.2	114,665.5	116,958.8	119,298.0	121,684.0	124,117.6	126,600.0	129,132.0	131,714.6	134,348.9
Year 4				0.0															
Year 5				0.0															
				121,714.7															
AFUDC					10,411.3													53.6	2,001.6
In-service cost						197,263												1,950.0	51,264.4

GT50	2066	12	65,137	133,152	11,049	209,337	209,327	2.0%											
Escalation								65,137.0											
Year 1				1,328.6				0.0105	1,602.6	1,634.6	1,667.3	1,700.7	1,734.7	1,769.4	1,804.8	1,840.9	1,877.7	1,915.3	1,953.6
Year 2				34,860.5				0.2674	40,812.8	41,629.1	42,461.7	43,310.9	44,177.1	45,060.6	45,961.9	46,881.1	47,818.7	48,775.1	49,750.6
Year 3				96,962.4				0.7221	110,212.9	112,417.2	114,665.5	116,958.8	119,298.0	121,684.0	124,117.6	126,600.0	129,132.0	131,714.6	134,348.9
Year 4				0.0															
Year 5				0.0															
				133,151.6															
AFUDC					11,048.6														
In-service cost						209,337													

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 LABRADOR INTERCONNECTED ALTERNATIVE ($000)

AFUDC	7.53%			CapCost			Calculated	Strategist Construction											
	InSvcyr	InSvcMo	In	Escalation	AFUDC	InSvcCost	InSvcCost	Escalation[2]	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062

Note: 1. The difference between Calculated In-service cost and Strategist in-service cost is due
2. Used single escalation factor for all years by project, as required by Strategist.
This number represents the CAGR of the escalation series over the study period.
3. Unless otherwise noted, base dollar estimates are in 2010$

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 LABRADOR INTERCONNECTED ALTERNATIVE ($000)

AFUDC	7.53%			CapCost			Calculated	Strategist Construction		2063	2064	2065	2066	2067
	InSvcyr	InSvcMo	In	Escalation	AFUDC	InSvcCost	InSvcCost	Escalation[2]						
ESCALATION and AFUDC														
Escalation Rates														
CT Escalation	2.0%													
CCCT Escalation	1.9%													
Hydro Escalation	1.9%													
50 MW CT	2014	12	65,137	5,672	3,945	74,755	74,751	2.0%						
Escalation								65,137.0						
Year 1				34.7				0.0105						
Year 2				1,250.9				0.2674						
Year 3				4,386.4				0.7221						
Year 4				0.0										
Year 5				0.0										
				5,672.0										
AFUDC					3,945.5									
In-service cost						74,755								
In-service Cost input into Strategist directly. Escalation and AFUDC were calculated outside. See E														
INFEED	2017	1	2,553,235	0	0	2,553,235	2,553,235							
				0.0										
				0.0										
				0.0										
				0.0										
				0.0										
				0.0										
					0.0									
						2,553,235								
						~~2710~~								
SYNC COND	2017	11	2,757	415	111	3,283	3,140	1.9%						
Escalation								2,757.0						
Year 1				17.8				0.0497						
Year 2				397.4				0.9503						
Year 3				0.0										
Year 4				0.0										
Year 5				0.0										
				415.2										

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 LABRADOR INTERCONNECTED ALTERNATIVE ($000)

AFUDC	7.53%			CapCost			Calculated	Strategist Construction		2063	2064	2065	2066	2067
	InSvcyr	InSvcMo	In	Escalation	AFUDC	InSvcCost	InSvcCost	Escalation[2]						
AFUDC					110.6									
In-service cost						3,283								
				Estimates from Hydro's 20-year Budget; assumes AFUDC in estimate										
HRD DCL1	2025	12	12,000	3,452	0	15,452	15,451	1.9%						
Escalation								12,000.0						
Year 1				241.9				0.0834						
Year 2				1,061.1				0.3333						
Year 3				1,157.3				0.3333						
Year 4				313.7				0.0833						
Year 5				677.8				0.1667						
				3,451.8										
AFUDC					0.0									
In-service cost						15,452								
				Estimates from Hydro's 20-year Budget; assumes AFUDC in estimate										
HRD DCL2	2029	12	8,498	3,384	0	11,882	11,881	1.9%						
Escalation								8,500.0						
Year 1				727.6				0.2350						
Year 2				1,365.7				0.4118						
Year 3				625.0				0.1765						
Year 4				665.4				0.1765						
Year 5				0.0										
				3,383.6										
AFUDC					0.0									
In-service cost						11,882								
PORTLAND	2036	12	89,909	57,302	8,467	155,678	155,671	1.9%						
Escalation								89,909.0						
Year 1				2,275.5				0.0432						
Year 2				12,296.8				0.2220						
Year 3				42,729.8				0.7348						
Year 4				0.0										
Year 5				0.0										
				57,302.0										
AFUDC					8,467.1									
In-service cost						155,678								
CCCT 170	2037	12	206,187	134,584	32,656	373,426	373,411	1.9%						
Escalation								206,187.0						

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 LABRADOR INTERCONNECTED ALTERNATIVE ($000)

AFUDC	7.53%			CapCost			Calculated	Strategist Construction		2063	2064	2065	2066	2067
		InSvcyr	InSvcMo	In	Escalation	AFUDC	InSvcCost	InSvcCost	Escalation[2]					
	Year 1				17,451.4				0.1374					
	Year 2				71,702.4				0.5377					
	Year 3				45,429.9				0.3249					
	Year 4				0.0									
	Year 5				0.0									
					134,583.7									
	AFUDC					32,655.7								
	In-service cost						373,426							
GT50		2046	12	65,137	68,306	7,435	140,878	140,871	2.0%					
	Escalation								65,137.0					
	Year 1				670.5				0.0105					
	Year 2				17,764.0				0.2674					
	Year 3				49,871.0				0.7221					
	Year 4				0.0									
	Year 5				0.0									
					68,305.5									
	AFUDC					7,435.4								
	In-service cost						140,878							

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 LABRADOR INTERCONNECTED ALTERNATIVE ($000)

AFUDC	7.53%			CapCost			Calculated	Strategist Construction		2063	2064	2065	2066	2067
		InSvcyr	InSvcMo	In	Escalation	AFUDC	InSvcCost	InSvcCost	Escalation[2]					
GT50		2050	12	65,137	79,305	8,048	152,491	152,483	2.0%					
	Escalation								65,137.0					
	Year 1				782.1				0.0105					
	Year 2				20,664.1				0.2674					
	Year 3				57,859.2				0.7221					
	Year 4				0.0									
	Year 5				0.0									
					79,305.5									
	AFUDC					8,048.3								
	In-service cost						152,491							
GT50		2054	12	65,137	91,212	8,712	165,061	165,053	2.0%					
	Escalation								65,137.0					
	Year 1				902.9				0.0105					
	Year 2				23,803.3				0.2674					
	Year 3				66,505.9				0.7221					
	Year 4				0.0									
	Year 5				0.0									
					91,212.2									
	AFUDC					8,711.7								
	In-service cost						165,061							
GT50		2058	12	65,137	104,100	9,430	178,667	178,658	2.0%					
	Escalation								65,137.0					
	Year 1				1,033.8				0.0105					
	Year 2				27,201.2				0.2674					
	Year 3				75,865.4				0.7221					
	Year 4				0.0									
	Year 5				0.0									
					104,100.4									
	AFUDC					9,429.9								
	In-service cost						178,667							

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 LABRADOR INTERCONNECTED ALTERNATIVE ($000)

AFUDC	7.53%			CapCost			Calculated	Strategist Construction						
		InSvcyr	InSvcMo	In	Escalation	AFUDC	InSvcCost	InSvcCost	Escalation[2]	2063	2064	2065	2066	2067
GT50		2063	12	65,137	121,715	10,411	197,263	197,253	2.0%					
	Escalation								65,137.0					
	Year 1				1,212.5				0.0105			1,896.5		
	Year 2				31,845.2				0.2674			49,262.8		
	Year 3				88,657.0				0.7221	135,692.4		135,692.4		
	Year 4				0.0									
	Year 5				0.0									
					121,714.7									
	AFUDC					10,411.3				8,356.2		10,411.3		
	In-service cost						197,263			144,048.6		**197,263**		
GT50		2066	12	65,137	133,152	11,049	209,337	209,327	2.0%					
	Escalation								65,137.0					
	Year 1				1,328.6				0.0105	1,992.6	2,012.6			2,012.6
	Year 2				34,860.5				0.2674	50,745.6	51,760.5	52,278.1		52,278.1
	Year 3				96,962.4				0.7221	137,035.9	139,776.6	142,572.2	143,997.9	143,997.9
	Year 4				0.0									
	Year 5				0.0									
					133,151.6									
	AFUDC					11,048.6					56.8	2,124.1	8,867.7	11,048.6
	In-service cost						209,337				2,069.4	54,402.2	152,865.6	**209,337**

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 LABRADOR INTERCONNECTED ALTERNATIVE ($000)

AFUDC	7.53%			CapCost			Calculated	Strategist Construction					
		InSvcyr	InSvcMo	In	Escalation	AFUDC	InSvcCost	InSvcCost	Escalation[2]	2063	2064	2065	2066	2067

Note: 1. The difference between Calculated In-service cost and Strategist in-service cost is due
2. Used single escalation factor for all years by project, as required by Strategist.
This number represents the CAGR of the escalation series over the study period.
3. Unless otherwise noted, base dollar estimates are in 2010$

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 ISOLATED ISLAND ALTERNATIVE ($000)

AFUDC	7.53%			CapCost			Calculated	Strategist	Construction	Construction Start										
	InSvcyr	InSvcMo	In	Escalation	AFUDC	InSvcCost	InSvcCost	Escalation[2]	Month	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019

ESCALATION and AFUDC

Escalation Rates

CT Escalation	2.0%
CCCT Escalation	1.9%
Hydro Escalation	1.9%
Wind Escalation	2.00%

ISLAND POND	2015	11	166,220	15,033	17,874	199,126	199,118	1.9%	4											
Escalation								166,220.0												
Year 1				236.6				0.0295	4,906.7	4,999.9	5,094.9	5,143.3				5,143.3				
Year 2				2,786.9				0.2461	40,898.9	41,676.0	42,467.8	43,274.7	43,685.8			43,685.8				
Year 3				4,833.3				0.3288	54,653.3	55,691.7	56,749.9	57,828.1	58,926.8	59,486.6		59,486.6				
Year 4				7,175.6				0.3956	65,761.1	67,010.6	68,283.8	69,581.2	70,903.2	72,250.4	72,936.8	72,936.8				
Year 5				0.0																
				15,032.5					166,220.0											
AFUDC					17,873.6							145.2	2,043.0	6,081.3	9,604.1	17,873.6				
In-service cost						199,126						5,288.5	45,728.8	65,567.9	82,540.9	**199,126**				

HRD ESP	2015	7	581,976	0	0	581,976	581,976		1
Escalation									
Year 1			Escalation and AFUDC calculated in Capital Budget Proposal sheet outside of Strategist						
Year 2									
Year 3									
Year 4									
Year 5									
AFUDC									
In-service cost									

HRD UPG	2016	12	100,000	0	0	100,000	100,000		1
Escalation									
Year 1			Escalation and AFUDC were included in the original estimate, outside of Strategist.						
Year 2									
Year 3									
Year 4									
Year 5									

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 ISOLATED ISLAND ALTERNATIVE ($000)

AFUDC 7.53%	InSvcyr	InSvcMo	CapCost In	Escalation	AFUDC	Calculated InSvcCost	Strategist InSvcCost	Construction Escalation[2]	Construction Start Month	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
AFUDC																			
In-service cost																			
				Estimates from Hydro's 20-year Budget; assumes AFUDC in estimate.															
HRD LOW Nox	2017	12	17,500	2,317	0	19,817	19,816	1.9%	1										
Escalation								17,500.0											
Year 1				555.7				0.2910	5,092.5	5,189.3	5,287.9	5,388.3	5,490.7	5,595.0	5,648.2				5,648.2
Year 2				729.1				0.3200	5,600.0	5,706.4	5,814.8	5,925.3	6,037.9	6,152.6	6,269.5	6,329.1			6,329.1
Year 3				1,032.4				0.3890	6,807.5	6,936.8	7,068.6	7,202.9	7,339.8	7,479.3	7,621.4	7,766.2	7,839.9		7,839.9
Year 4				0.0															
Year 5				0.0															
				2,317.2					17,500.0										
AFUDC					0.0														0.0
In-service cost						19,817									5,648.2	6,329.1	7,839.9		**19,817**
				Estimates from Hydro's 20-year Budget; assumes AFUDC in estimate.															
PORTLAND	2018	12	89,909	14,998	6,034	110,941	110,936	1.9%	1										
Escalation								89,909.0											
Year 1				505.6				0.0432	3,883.5	3,957.3	4,032.4	4,109.1	4,187.1	4,266.7	4,347.8	4,389.1			
Year 2				3,027.2				0.2220	19,960.0	20,339.2	20,725.7	21,119.4	21,520.7	21,929.6	22,346.3	22,770.8	22,987.2		
Year 3				11,465.4				0.7348	66,065.6	67,320.8	68,599.9	69,903.3	71,231.5	72,584.9	73,964.0	75,369.3	76,801.3	77,530.9	
Year 4				0.0															
Year 5				0.0															
				14,998.1					89,909.0										
AFUDC					6,033.9											165.2	1,208.4	4,660.2	
In-service cost						110,941										4,554.3	24,195.6	82,191.2	
				Estimates from Hydro's 20-year Budget; assumes AFUDC in estimate.															
HRD ISOL1	2019	12	105,190	15,788	0	120,978	120,973	1.9%	1										
Escalation								105,190.0											
Year 1				3,202.4				0.2790	29,348.0	29,905.6	30,473.8	31,052.8	31,642.8	32,244.0	32,550.4				
Year 2				1,451.6				0.1060	11,150.1	11,362.0	11,577.9	11,797.9	12,022.0	12,250.4	12,483.2	12,601.8			
Year 3				3,765.0				0.2360	24,824.8	25,296.5	25,777.1	26,266.9	26,766.0	27,274.5	27,792.8	28,320.8	28,589.9		
Year 4				3,413.7				0.187	19,670.5	20,044.3	20,425.1	20,813.2	21,208.6	21,611.6	22,022.2	22,440.6	22,867.0	23,084.3	
Year 5				3,955.3				0.192	20,196.5	20,580.2	20,971.2	21,369.7	21,775.7	22,189.5	22,611.1	23,040.7	23,478.4	23,924.5	24,151.8
				15,788.1					105,190.0										
AFUDC					0.0							AFUDC included in 2010$ Costs.			0.0	0.0	0.0	0.0	0.0
In-service cost						120,978									32,550.4	12,601.8	28,589.9	23,084.3	24,151.8
ROUND POND	2029	12	142,192	29,006	14,165	185,363	185,355	0.0%	1										
Escalation								142,192.0											

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 ISOLATED ISLAND ALTERNATIVE ($000)

AFUDC **7.53%**	InSvcyr	InSvcMo	CapCost In	Escalation	AFUDC	Calculated InSvcCost	Strategist InSvcCost	Construction Escalation[2]	Construction Start Month	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Year 1				2,094.7				0.0849	12,070.1	12,299.4	12,533.1	12,771.2	13,013.9	13,261.1	13,513.1	13,769.8	14,031.5	14,164.8	
Year 2				13,174.3				0.4731	67,270.1	68,548.3	69,850.7	71,177.8	72,530.2	73,908.3	75,312.5	76,743.5	78,201.6	79,687.4	80,444.5
Year 3				13,737.1				0.4420	62,851.8	64,046.0	65,262.9	66,502.9	67,766.4	69,054.0	70,366.0	71,703.0	73,065.3	74,453.6	75,868.2
Year 4				0.0															
Year 5				0.0															
				29,006.2					142,192.0										
AFUDC					14,164.7													533.3	4,135.5
In-service cost						185,363												14,698.1	84,580.0
CCCT 170	2022	12	206,187	50,764	24,623	281,574	281,562	1.9%	1										
Escalation								206,187.0											
Year 1				6,191.2				0.1374	28,326.8	28,865.0	29,413.5	29,972.3	30,541.8	31,122.1	31,713.4	32,316.0	32,930.0	33,555.6	34,193.2
Year 2				26,796.9				0.5377	110,860.9	112,967.3	115,113.7	117,300.8	119,529.5	121,800.6	124,114.8	126,473.0	128,876.0	131,324.6	133,819.8
Year 3				17,775.5				0.3249	66,999.2	68,272.1	69,569.3	70,891.1	72,238.1	73,610.6	75,009.2	76,434.4	77,886.6	79,366.5	80,874.4
Year 4				0.0															
Year 5				0.0															
				50,763.6					206,186.9										
AFUDC					24,623.3														
In-service cost						281,574													

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 ISOLATED ISLAND ALTERNATIVE ($000)

AFUDC **7.53%**	InSvcyr	InSvcMo	CapCost In	Escalation	AFUDC	Calculated InSvcCost	Strategist InSvcCost	Construction Escalation[2]	Construction Start Month	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
GT50	2024	12	65,137	21,179	4,810	91,125	91,125	2.0%	4										
Escalation								65,137.0											
Year 1				192.1				0.0105	683.9	697.6	711.6	725.8	740.3	755.1	770.2	785.6	801.3	817.4	833.7
Year 2				5,339.2				0.2674	17,417.6	17,766.0	18,121.3	18,483.7	18,853.4	19,230.5	19,615.1	20,007.4	20,407.5	20,815.7	21,232.0
Year 3				15,647.4				0.7221	47,035.4	47,976.1	48,935.7	49,914.4	50,912.7	51,930.9	52,969.5	54,028.9	55,109.5	56,211.7	57,335.9
Year 4				0.0															
Year 5				0.0															
				21,178.8					65,137.0										
AFUDC					4,809.5														
In-service cost						91,125													

Estimates from Hydro's 20-year Budget; assumes AFUDC in estimate.

HRD ISOL2	2024	12	6,832	1,716	0	8,548	8,548	1.9%	1										
Escalation								6,825.0											
Year 1				634.0				0.4250	2,900.6	2,955.7	3,011.9	3,069.1	3,127.4	3,186.9	3,247.4	3,309.1	3,372.0	3,436.0	3,501.3
Year 2				344.8				0.2090	1,426.4	1,453.5	1,481.1	1,509.3	1,538.0	1,567.2	1,597.0	1,627.3	1,658.2	1,689.7	1,721.8
Year 3				266.2				0.1470	1,003.3	1,022.3	1,041.8	1,061.6	1,081.7	1,102.3	1,123.2	1,144.6	1,166.3	1,188.5	1,211.0
Year 4				0.0				0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Year 5				471.2				0.22	1,501.5	1,530.0	1,559.1	1,588.7	1,618.9	1,649.7	1,681.0	1,712.9	1,745.5	1,778.7	1,812.5
				1,716.2					6,831.8										
AFUDC					0.0														
In-service cost						8,548													

GT50	2027	12	65,137	26,462	5,104	96,703	96,698	2.0%	4										
Escalation								65,137.0											
Year 1				245.8				0.0105	683.9	697.6	711.6	725.8	740.3	755.1	770.2	785.6	801.3	817.4	833.7
Year 2				6,732.2				0.2674	17,417.6	17,766.0	18,121.3	18,483.7	18,853.4	19,230.5	19,615.1	20,007.4	20,407.5	20,815.7	21,232.0
Year 3				19,484.1				0.7221	47,035.4	47,976.1	48,935.7	49,914.4	50,912.7	51,930.9	52,969.5	54,028.9	55,109.5	56,211.7	57,335.9
Year 4				0.0															
Year 5				0.0															
				26,462.0					65,137.0										
AFUDC					5,103.9														
In-service cost						96,703													

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 ISOLATED ISLAND ALTERNATIVE ($000)

AFUDC **7.53%**	InSvcyr	InSvcMo	CapCost In	Escalation	AFUDC	Calculated InSvcCost	Strategist InSvcCost	Construction Escalation[2]	Construction Start Month	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
WIND2x27	2028	10	125,458	54,336	9,099	188,893	188,884	2.0%	1										
Escalation								125,458.0											
Year 1				17,323.4				0.3333	41,819.3	42,655.7	43,508.8	44,379.0	45,266.6	46,171.9	47,095.4	48,037.3	48,998.0	49,978.0	50,977.5
Year 2				37,012.5				0.6667	83,638.7	85,311.4	87,017.7	88,758.0	90,533.2	92,343.8	94,190.7	96,074.5	97,996.0	99,955.9	101,955.1
Year 3				0.0															
Year 4				0.0															
Year 5				0.0															
				54,335.9					125,458.0										
AFUDC					9,099.5														
In-service cost						188,893													

Estimates from Hydro's 20-year Budget; assumes AFUDC in estimate.

HRD ISOL3	2029	12	2,550	1,127	0	3,677	3,608	1.9%	1										
Escalation								2,550.0											
Year 1				18.6				0.0200	51.0	52.0	53.0	54.0	55.0	56.0	57.1	58.2	59.3	60.4	61.6
Year 2				0.0				0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Year 3				0.0				0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Year 4				1,108.3				0.98	2,499.0	2,546.5	2,594.9	2,644.2	2,694.4	2,745.6	2,797.8	2,850.9	2,905.1	2,960.3	3,016.5
Year 5				0.0															
				1,126.9					2,550.0										
AFUDC					0.0														
In-service cost						3,677													

GT50	2030	12	65,137	32,069	5,416	102,622	102,617	2.0%	4										
Escalation								65,137.0											
Year 1				302.7				0.0105	683.9	697.6	711.6	725.8	740.3	755.1	770.2	785.6	801.3	817.4	833.7
Year 2				8,210.3				0.2674	17,417.6	17,766.0	18,121.3	18,483.7	18,853.4	19,230.5	19,615.1	20,007.4	20,407.5	20,815.7	21,232.0
Year 3				23,555.7				0.7221	47,035.4	47,976.1	48,935.7	49,914.4	50,912.7	51,930.9	52,969.5	54,028.9	55,109.5	56,211.7	57,335.9
Year 4				0.0															
Year 5				0.0															
				32,068.6					65,137.0										
AFUDC					5,416.3														
In-service cost						102,622													

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 ISOLATED ISLAND ALTERNATIVE ($000)

AFUDC 7.53%	InSvcyr	InSvcMo	CapCost In	Escalation	AFUDC	Calculated InSvcCost	Strategist InSvcCost	Construction Escalation[2]	Construction Start Month	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
CCCT7170G2	2033	12	206,187	109,870	30,287	346,344	346,330	1.9%	1										
Escalation								206,187.0											
Year 1				14,131.4				0.1374	28,326.8	28,865.0	29,413.5	29,972.3	30,541.8	31,122.1	31,713.4	32,316.0	32,930.0	33,555.6	34,193.2
Year 2				58,462.4				0.5377	110,860.9	112,967.3	115,113.7	117,300.8	119,529.5	121,800.6	124,114.8	126,473.0	128,876.0	131,324.6	133,819.8
Year 3				37,276.2				0.3249	66,999.2	68,272.1	69,569.3	70,891.1	72,238.1	73,610.6	75,009.2	76,434.4	77,886.6	79,366.5	80,874.4
Year 4				0.0															
Year 5				0.0															
				109,870.1					206,186.9										
AFUDC					30,287.4														
In-service cost						346,344													
CCCT170G1	2033	12	273,920	144,480	46,549	464,949	464,883	1.9%	3										
Escalation								273,920.0											
Year 1				2,938.6				0.0228	6,240.1	6,358.7	6,479.5	6,602.6	6,728.0	6,855.9	6,986.1	7,118.9	7,254.1	7,392.0	7,532.4
Year 2				37,830.6				0.2768	75,832.4	77,273.2	78,741.4	80,237.5	81,762.0	83,315.5	84,898.5	86,511.5	88,155.3	89,830.2	91,537.0
Year 3				55,011.4				0.3808	104,316.9	106,298.9	108,318.6	110,376.7	112,473.8	114,610.8	116,788.4	119,007.4	121,268.5	123,572.6	125,920.5
Year 4				48,699.3				0.3195	87,530.6	89,193.7	90,888.4	92,615.2	94,374.9	96,168.1	97,995.2	99,857.2	101,754.4	103,687.8	105,657.8
Year 5				0.0															
				144,479.9					273,920.0										
AFUDC					46,549.4														
In-service cost						464,949													
WIND25	2034	10	58,082	35,657	4,744	98,483	98,478	2.0%	1										
Escalation								58,082.0											
Year 1				11,474.5				0.3333	19,360.7	19,747.9	20,142.8	20,545.7	20,956.6	21,375.7	21,803.3	22,239.3	22,684.1	23,137.8	23,600.5
Year 2				24,182.3				0.6667	38,721.3	39,495.8	40,285.7	41,091.4	41,913.2	42,751.5	43,606.5	44,478.6	45,368.2	46,275.6	47,201.1
Year 3				0.0															
Year 4				0.0															
Year 5				0.0															
				35,656.8					58,082.0										
AFUDC					4,744.2														
In-service cost						98,483													

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 ISOLATED ISLAND ALTERNATIVE ($000)

AFUDC 7.53%	InSvcyr	InSvcMo	CapCost In	Escalation	AFUDC	Calculated InSvcCost	Strategist InSvcCost	Construction Escalation[2]	Construction Start Month	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
CCCT170G1	2036	12	273,920	168,785	49,253	491,958	491,888	1.9%	3										
Escalation								273,920.0											
Year 1				3,471.8				0.02278	6,240.1	6,358.7	6,479.5	6,602.6	6,728.0	6,855.9	6,986.1	7,118.9	7,254.1	7,392.0	7,532.4
Year 2				44,433.2				0.27684	75,832.4	77,273.2	78,741.4	80,237.5	81,762.0	83,315.5	84,898.5	86,511.5	88,155.3	89,830.2	91,537.0
Year 3				64,266.8				0.38083	104,316.9	106,298.9	108,318.6	110,376.7	112,473.8	114,610.8	116,788.4	119,007.4	121,268.5	123,572.6	125,920.5
Year 4				56,612.9				0.31955	87,530.6	89,193.7	90,888.4	92,615.2	94,374.9	96,168.1	97,995.2	99,857.2	101,754.4	103,687.8	105,657.8
Year 5				0.0															
				168,784.7					273,920.0										
AFUDC					49,253.4														
In-service cost						491,958													
GT50	2042	12	65,137	58,143	6,869	130,149	130,143	2.0%	4										
Escalation								65,137.0											
Year 1				567.3				0.0105	683.9	697.6	711.6	725.8	740.3	755.1	770.2	785.6	801.3	817.4	833.7
Year 2				15,084.8				0.2674	17,417.6	17,766.0	18,121.3	18,483.7	18,853.4	19,230.5	19,615.1	20,007.4	20,407.5	20,815.7	21,232.0
Year 3				42,491.1				0.7221	47,035.4	47,976.1	48,935.7	49,914.4	50,912.7	51,930.9	52,969.5	54,028.9	55,109.5	56,211.7	57,335.9
Year 4				0.0															
Year 5				0.0															
				58,143.3					65,137.0										
AFUDC					6,869.2														
In-service cost						130,149													
GT50	2046	12	65,137	68,306	7,435	140,878	140,871	2.0%	4										
Escalation								65,137.0											
Year 1				670.5				0.0105	683.9	697.6	711.6	725.8	740.3	755.1	770.2	785.6	801.3	817.4	833.7
Year 2				17,764.0				0.2674	17,417.6	17,766.0	18,121.3	18,483.7	18,853.4	19,230.5	19,615.1	20,007.4	20,407.5	20,815.7	21,232.0
Year 3				49,871.0				0.7221	47,035.4	47,976.1	48,935.7	49,914.4	50,912.7	51,930.9	52,969.5	54,028.9	55,109.5	56,211.7	57,335.9
Year 4				0.0															
Year 5				0.0															
				68,305.5					65,137.0										
AFUDC					7,435.4														
In-service cost						140,878													

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 ISOLATED ISLAND ALTERNATIVE ($000)

AFUDC **7.53%**	InSvcyr	InSvcMo	CapCost In	Escalation	AFUDC	Calculated InSvcCost	Strategist InSvcCost	Construction Escalation[2]	Construction Start Month	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
WIND2x27	2048	10	125,458	141,706	13,521	280,686	280,672	2.0%	1										
Escalation								125,458.0											
Year 1				46,063.7				0.3333	41,819.3	42,655.7	43,508.8	44,379.0	45,266.6	46,171.9	47,095.4	48,037.3	48,998.0	49,978.0	50,977.5
Year 2				95,642.6				0.6667	83,638.7	85,311.4	87,017.7	88,758.0	90,533.2	92,343.8	94,190.7	96,074.5	97,996.0	99,955.9	101,955.1
Year 3				0.0															
Year 4				0.0															
Year 5				0.0															
				141,706.3					125,458.0										
AFUDC					13,521.3														
In-service cost						280,686													
GT50	2049	12	65,137	76,473	7,890	149,501	149,493	2.0%	4										
Escalation								65,137.0											
Year 1				753.4				0.0105	683.9	697.6	711.6	725.8	740.3	755.1	770.2	785.6	801.3	817.4	833.7
Year 2				19,917.4				0.2674	17,417.6	17,766.0	18,121.3	18,483.7	18,853.4	19,230.5	19,615.1	20,007.4	20,407.5	20,815.7	21,232.0
Year 3				55,802.5				0.7221	47,035.4	47,976.1	48,935.7	49,914.4	50,912.7	51,930.9	52,969.5	54,028.9	55,109.5	56,211.7	57,335.9
Year 4				0.0															
Year 5				0.0															
				76,473.3					65,137.0										
AFUDC					7,890.5														
In-service cost						149,501													
CCCT170G2	2050	12	206,187	229,051	41,708	476,946	476,925	1.9%	1										
Escalation								206,187.0											
Year 1				30,141.8				0.1374	28,326.8	28,865.0	29,413.5	29,972.3	30,541.8	31,122.1	31,713.4	32,316.0	32,930.0	33,555.6	34,193.2
Year 2				122,311.9				0.5377	110,860.9	112,967.3	115,113.7	117,300.8	119,529.5	121,800.6	124,114.8	126,473.0	128,876.0	131,324.6	133,819.8
Year 3				76,597.1				0.3249	66,999.2	68,272.1	69,569.3	70,891.1	72,238.1	73,610.6	75,009.2	76,434.4	77,886.6	79,366.5	80,874.4
Year 4				0.0															
Year 5				0.0															
				229,050.8					206,186.9										
AFUDC					41,708.4														
In-service cost						476,946													

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 ISOLATED ISLAND ALTERNATIVE ($000)

AFUDC **7.53%**	InSvcyr	InSvcMo	CapCost In	Escalation	AFUDC	Calculated InSvcCost	Strategist InSvcCost	Construction Escalation[2]	Construction Start Month	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
CCCT170G1	2052	12	273,920	324,355	66,562	664,837	664,743	1.9%	3										
Escalation								273,920.0											
Year 1				6,884.7				0.02278	6,240.1	6,358.7	6,479.5	6,602.6	6,728.0	6,855.9	6,986.1	7,118.9	7,254.1	7,392.0	7,532.4
Year 2				86,695.7				0.27684	75,832.4	77,273.2	78,741.4	80,237.5	81,762.0	83,315.5	84,898.5	86,511.5	88,155.3	89,830.2	91,537.0
Year 3				123,508.7				0.38083	104,316.9	106,298.9	108,318.6	110,376.7	112,473.8	114,610.8	116,788.4	119,007.4	121,268.5	123,572.6	125,920.5
Year 4				107,266.3				0.31955	87,530.6	89,193.7	90,888.4	92,615.2	94,374.9	96,168.1	97,995.2	99,857.2	101,754.4	103,687.8	105,657.8
Year 5				0.0															
				324,355.3					273,920.0										
AFUDC					66,561.6														
In-service cost						664,837													
WIND25	2054	10	58,082	81,209	7,050	146,340	146,333	2.0%	1										
Escalation								58,082.0											
Year 1				26,458.7				0.3333	19,360.7	19,747.9	20,142.8	20,545.7	20,956.6	21,375.7	21,803.3	22,239.3	22,684.1	23,137.8	23,600.5
Year 2				54,750.2				0.6667	38,721.3	39,495.8	40,285.7	41,091.4	41,913.2	42,751.5	43,606.5	44,478.6	45,368.2	46,275.6	47,201.1
Year 3				0.0															
Year 4				0.0															
Year 5				0.0															
				81,208.9					58,082.0										
AFUDC					7,049.6														
In-service cost						146,340													
CCCT170G2	2056	12	206,187	281,085	46,695	533,967	533,945	1.9%	1										
Escalation								206,187.0											
Year 1				37,132.0				0.1374	28,326.8	28,865.0	29,413.5	29,972.3	30,541.8	31,122.1	31,713.4	32,316.0	32,930.0	33,555.6	34,193.2
Year 2				150,188.7				0.5377	110,860.9	112,967.3	115,113.7	117,300.8	119,529.5	121,800.6	124,114.8	126,473.0	128,876.0	131,324.6	133,819.8
Year 3				93,764.6				0.3249	66,999.2	68,272.1	69,569.3	70,891.1	72,238.1	73,610.6	75,009.2	76,434.4	77,886.6	79,366.5	80,874.4
Year 4				0.0															
Year 5				0.0															
				281,085.3					206,186.9										
AFUDC					46,694.8														
In-service cost						533,967													

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 ISOLATED ISLAND ALTERNATIVE ($000)

AFUDC **7.53%**	InSvcyr	InSvcMo	CapCost In	Escalation	AFUDC	Calculated InSvcCost	Strategist InSvcCost	Construction Escalation[2]	Construction Start Month	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
GT2x50	2063	12	130,274	243,429	20,823	394,526	394,506	2.0%	4										
Escalation								130,274.0											
Year 1				2,425.1				0.0105	1,367.9	1,395.2	1,423.1	1,451.6	1,480.6	1,510.2	1,540.5	1,571.3	1,602.7	1,634.7	1,667.4
Year 2				63,690.4				0.2674	34,835.3	35,532.0	36,242.6	36,967.5	37,706.8	38,461.0	39,230.2	40,014.8	40,815.1	41,631.4	42,464.0
Year 3				177,314.0				0.7221	94,070.9	95,952.3	97,871.3	99,828.7	101,825.3	103,861.8	105,939.1	108,057.8	110,219.0	112,423.4	114,671.8
Year 4				0.0															
Year 5				0.0															
				243,429.5					130,274.0										
AFUDC					20,822.7														
In-service cost						394,526													
CCCG170G1	2063	12	273,920	461,977	81,873	817,770	817,654	1.9%	3										
Escalation								273,920.0											
Year 1				9,903.8				0.02278	6,240.1	6,358.7	6,479.5	6,602.6	6,728.0	6,855.9	6,986.1	7,118.9	7,254.1	7,392.0	7,532.4
Year 2				124,082.2				0.27684	75,832.4	77,273.2	78,741.4	80,237.5	81,762.0	83,315.5	84,898.5	86,511.5	88,155.3	89,830.2	91,537.0
Year 3				175,915.6				0.38083	104,316.9	106,298.9	108,318.6	110,376.7	112,473.8	114,610.8	116,788.4	119,007.4	121,268.5	123,572.6	125,920.5
Year 4				152,075.6				0.31955	87,530.6	89,193.7	90,888.4	92,615.2	94,374.9	96,168.1	97,995.2	99,857.2	101,754.4	103,687.8	105,657.8
Year 5				0.0															
				461,977.1					273,920.0										
AFUDC					81,872.8														
In-service cost						817,770													
GT50	2064	12	65,137	125,452	10,620	201,208	201,198	2.0%	4										
Escalation								65,137.0											
Year 1				1,250.5				0.0105	683.9	697.6	711.6	725.8	740.3	755.1	770.2	785.6	801.3	817.4	833.7
Year 2				32,830.5				0.2674	17,417.6	17,766.0	18,121.3	18,483.7	18,853.4	19,230.5	19,615.1	20,007.4	20,407.5	20,815.7	21,232.0
Year 3				91,370.8				0.7221	47,035.4	47,976.1	48,935.7	49,914.4	50,912.7	51,930.9	52,969.5	54,028.9	55,109.5	56,211.7	57,335.9
Year 4				0.0															
Year 5				0.0															
				125,451.8					65,137.0										
AFUDC					10,619.6														
In-service cost						201,208													

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 ISOLATED ISLAND ALTERNATIVE ($000)

AFUDC **7.53%**	InSvcyr	InSvcMo	CapCost In	Escalation	AFUDC	Calculated InSvcCost	Strategist InSvcCost	Construction Escalation[2]	Construction Start Month	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
CCCT170G2	2066	12	206,187	381,997	56,365	644,550	644,523	1.9%	1										
Escalation								206,187.0											
Year 1				50,688.3				0.1374	28,326.8	28,865.0	29,413.5	29,972.3	30,541.8	31,122.1	31,713.4	32,316.0	32,930.0	33,555.6	34,193.2
Year 2				204,251.1				0.5377	110,860.9	112,967.3	115,113.7	117,300.8	119,529.5	121,800.6	124,114.8	126,473.0	128,876.0	131,324.6	133,819.8
Year 3				127,058.1				0.3249	66,999.2	68,272.1	69,569.3	70,891.1	72,238.1	73,610.6	75,009.2	76,434.4	77,886.6	79,366.5	80,874.4
Year 4				0.0															
Year 5				0.0															
				381,997.5					206,186.9										
AFUDC					56,365.2														
In-service cost						644,550													
CCCT170G1	2067	12	273,920	519,520	88,275	881,714	881,589	1.9%	3										
Escalation								273,920.0											
Year 1				11,166.1				0.02278	6,240.1	6,358.7	6,479.5	6,602.6	6,728.0	6,855.9	6,986.1	7,118.9	7,254.1	7,392.0	7,532.4
Year 2				139,714.2				0.27684	75,832.4	77,273.2	78,741.4	80,237.5	81,762.0	83,315.5	84,898.5	86,511.5	88,155.3	89,830.2	91,537.0
Year 3				197,828.0				0.38083	104,316.9	106,298.9	108,318.6	110,376.7	112,473.8	114,610.8	116,788.4	119,007.4	121,268.5	123,572.6	125,920.5
Year 4				170,811.2				0.31955	87,530.6	89,193.7	90,888.4	92,615.2	94,374.9	96,168.1	97,995.2	99,857.2	101,754.4	103,687.8	105,657.8
Year 5				0.0															
				519,519.6					273,920.0										
AFUDC					88,274.7														
In-service cost						881,714													

Note: 1. The difference between Calculated In-service cost and Strategist in-service cost is due to rounding.
2. A single escalation factor for all years by project was used, as required by Strategist.
This number represents the CAGR of the escalation series over the study period.
3. Unless otherwise noted, base dollar estimates are in 2010$

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 ISOLATED ISLAND ALTERNATIVE ($000)

AFUDC 7.53%			CapCost			Calculated	Strategist	Construction	Construction Start										
	InSvcyr	InSvcMo	In	Escalation	AFUDC	InSvcCost	InSvcCost	Escalation[2]	Month	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
ESCALATION and AFUDC																			
Escalation Rates																			
CT Escalation 2.0%																			
CCCT Escalation 1.9%																			
Hydro Escalation 1.9%																			
Wind Escalation 2.00%																			
ISLAND POND	2015	11	166,220	15,033	17,874	199,126	199,118	1.9%	4										
Escalation								166,220.0											
Year 1				236.6				0.0295	4,906.7										
Year 2				2,786.9				0.2461	40,898.9										
Year 3				4,833.3				0.3288	54,653.3										
Year 4				7,175.6				0.3956	65,761.1										
Year 5				0.0															
				15,032.5					166,220.0										
AFUDC					17,873.6														
In-service cost						199,126													
HRD ESP	2015	7	581,976	0	0	581,976	581,976		1										
Escalation																			
Year 1			Escalation and AFUDC calculated in Capital Budget Proposal sheet outside of Strategist																
Year 2																			
Year 3																			
Year 4																			
Year 5																			
AFUDC																			
In-service cost																			
HRD UPG	2016	12	100,000	0	0	100,000	100,000		1										
Escalation																			
Year 1			Escalation and AFUDC were included in the original estimate, outside of Strategist.																
Year 2																			
Year 3																			
Year 4																			
Year 5																			

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 ISOLATED ISLAND ALTERNATIVE ($000)

AFUDC	7.53%			CapCost			Calculated	Strategist	Construction	Construction Start										
		InSvcyr	InSvcMo	In	Escalation	AFUDC	InSvcCost	InSvcCost	Escalation[2]	Month	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
	AFUDC																			
	In-service cost																			
					Estimates from Hydro's 20-year Budget; assumes AFUDC in estimat																
HRD LOW Nox		2017	12	17,500	2,317	0	19,817	19,816	1.9%	1										
	Escalation								17,500.0											
	Year 1				555.7				0.2910	5,092.5										
	Year 2				729.1				0.3200	5,600.0										
	Year 3				1,032.4				0.3890	6,807.5										
	Year 4				0.0															
	Year 5				0.0															
					2,317.2					17,500.0										
	AFUDC					0.0														
	In-service cost						19,817													
PORTLAND		2018	12	89,909	14,998	6,034	110,941	110,936	1.9%	1										
	Escalation								89,909.0											
	Year 1				505.6				0.0432	3,883.5	4,389.1									
	Year 2				3,027.2				0.2220	19,960.0	22,987.2									
	Year 3				11,465.4				0.7348	66,065.6	77,530.9									
	Year 4				0.0															
	Year 5				0.0															
					14,998.1					89,909.0										
	AFUDC					6,033.9					6,033.9									
	In-service cost						110,941				**110,941**									
					Estimates from Hydro's 20-year Budget; assumes AFUDC in estimat															
HRD ISOL1		2019	12	105,190	15,788	0	120,978	120,973	1.9%	1										
	Escalation								105,190.0											
	Year 1				3,202.4				0.2790	29,348.0		32,550.4								
	Year 2				1,451.6				0.1060	11,150.1		12,601.8								
	Year 3				3,765.0				0.2360	24,824.8		28,589.9								
	Year 4				3,413.7				0.187	19,670.5		23,084.3								
	Year 5				3,955.3				0.192	20,196.5		24,151.8								
					15,788.1					105,190.0										
	AFUDC					0.0						0.0								
	In-service cost						120,978					**120,978**								
ROUND POND		2029	12	142,192	29,006	14,165	185,363	185,355	0.0%	1										
	Escalation								142,192.0											

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 ISOLATED ISLAND ALTERNATIVE ($000)

AFUDC **7.53%**	InSvcyr	InSvcMo	CapCost In	Escalation	AFUDC	Calculated InSvcCost	Strategist InSvcCost	Construction Escalation[2]	Construction Start Month	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Year 1				2,094.7				0.0849	12,070.1			14,164.8							
Year 2				13,174.3				0.4731	67,270.1			80,444.5							
Year 3				13,737.1				0.4420	62,851.8	76,588.9		76,588.9							
Year 4				0.0															
Year 5				0.0															
				29,006.2					142,192.0										
AFUDC					14,164.7					9,495.9		14,164.7							
In-service cost						185,363				86,084.9		**185,363**							
CCCT 170	2022	12	206,187	50,764	24,623	281,574	281,562	1.9%	1										
Escalation								206,187.0											
Year 1				6,191.2				0.1374	28,326.8	34,518.0				34,518.0					
Year 2				26,796.9				0.5377	110,860.9	136,362.4	137,657.8			137,657.8					
Year 3				17,775.5				0.3249	66,999.2	82,411.0	83,976.8	84,774.6		84,774.6					
Year 4				0.0															
Year 5				0.0															
				50,763.6					206,186.9										
AFUDC					24,623.3					1,299.6	7,879.9	15,443.8		24,623.3					
In-service cost						281,574				35,817.6	145,537.7	100,218.5		**281,574**					

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 ISOLATED ISLAND ALTERNATIVE ($000)

AFUDC 7.53%	InSvcyr	InSvcMo	CapCost In	Escalation	AFUDC	Calculated InSvcCost	Strategist InSvcCost	Construction Escalation[2]	Construction Start Month	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
GT50	2024	12	65,137	21,179	4,810	91,125	91,125	2.0%	4										
Escalation								65,137.0											
Year 1				192.1				0.0105	683.9	850.4	867.4	876.1				876.1			
Year 2				5,339.2				0.2674	17,417.6	21,656.6	22,089.8	22,531.6	22,756.9			22,756.9			
Year 3				15,647.4				0.7221	47,035.4	58,482.6	59,652.3	60,845.3	62,062.2	62,682.9		62,682.9			
Year 4				0.0															
Year 5				0.0															
				21,178.8					65,137.0										
AFUDC					4,809.5							24.7	924.6	3,860.1		4,809.5			
In-service cost						91,125						900.8	23,681.5	66,543.0		**91,125**			

Estimates from Hydro's 20-year Budget; assumes AFUDC in estimat

HRD ISOL2	2024	12	6,832	1,716	0	8,548	8,548	1.9%	1										
Escalation								6,825.0											
Year 1				634.0				0.4250	2,900.6	3,534.6						3,534.6			
Year 2				344.8				0.2090	1,426.4	1,754.5	1,771.2					1,771.2			
Year 3				266.2				0.1470	1,003.3	1,234.1	1,257.5	1,269.5				1,269.5			
Year 4				0.0				0	0.0	0.0	0.0	0.0	0.0			0.0			
Year 5				471.2				0.22	1,501.5	1,846.9	1,882.0	1,917.7	1,954.2	1,972.7		1,972.7			
				1,716.2					6,831.8										
AFUDC					0.0					0.0	0.0	0.0	0.0	0.0		0.0			
In-service cost						8,548				3,534.6	1,771.2	1,269.5	0.0	1,972.7		**8,548**			

GT50	2027	12	65,137	26,462	5,104	96,703	96,698	2.0%	4										
Escalation								65,137.0											
Year 1				245.8				0.0105	683.9	850.4	867.4	884.7	902.4	920.5	929.7				929.7
Year 2				6,732.2				0.2674	17,417.6	21,656.6	22,089.8	22,531.6	22,982.2	23,441.8	23,910.7	24,149.8			24,149.8
Year 3				19,484.1				0.7221	47,035.4	58,482.6	59,652.3	60,845.3	62,062.2	63,303.5	64,569.6	65,861.0	66,519.6		66,519.6
Year 4				0.0															
Year 5				0.0															
				26,462.0					65,137.0										
AFUDC					5,103.9										26.3	981.2	4,096.4		5,103.9
In-service cost						96,703									955.9	25,131.0	70,616.0		**96,703**

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 ISOLATED ISLAND ALTERNATIVE ($000)

AFUDC 7.53%	InSvcyr	InSvcMo	CapCost In	Escalation	AFUDC	Calculated InSvcCost	Strategist InSvcCost	Construction Escalation[2]	Construction Start Month	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
WIND2x27	2028	10	125,458	54,336	9,099	188,893	188,884	2.0%	1										
Escalation								125,458.0											
Year 1				17,323.4				0.3333	41,819.3	51,997.1	53,037.0	54,097.8	55,179.7	56,283.3	57,409.0	58,557.2	59,142.7		
Year 2				37,012.5				0.6667	83,638.7	103,994.2	106,074.1	108,195.5	110,359.4	112,566.6	114,818.0	117,114.3	119,456.6	120,651.2	
Year 3				0.0													0.0	0.0	0.0
Year 4				0.0															
Year 5				0.0															
				54,335.9					125,458.0										
AFUDC					9,099.5												2,226.7	6,872.7	0.0
In-service cost						188,893											61,369.5	127,523.9	0.0

Estimates from Hydro's 20-year Budget; assumes AFUDC in estimat

HRD ISOL3	2029	12	2,550	1,127	0	3,677	3,608	1.9%	1										
Escalation								2,550.0											
Year 1				18.6				0.0200	51.0	62.7	63.9	65.1	66.4	67.6	68.9	69.6			
Year 2				0.0				0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Year 3				0.0				0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Year 4				1,108.3				0.98	2,499.0	3,073.8	3,132.3	3,191.8	3,252.4	3,314.2	3,377.2	3,441.3	3,506.7	3,573.4	3,607.3
Year 5				0.0															
				1,126.9					2,550.0										
AFUDC					0.0											0.0	0.0	0.0	0.0
In-service cost						3,677										69.6	0.0	0.0	3,607.3

GT50	2030	12	65,137	32,069	5,416	102,622	102,617	2.0%	4										
Escalation								65,137.0											
Year 1				302.7				0.0105	683.9	850.4	867.4	884.7	902.4	920.5	938.9	957.7	976.8	986.6	
Year 2				8,210.3				0.2674	17,417.6	21,656.6	22,089.8	22,531.6	22,982.2	23,441.8	23,910.7	24,388.9	24,876.7	25,374.2	25,627.9
Year 3				23,555.7				0.7221	47,035.4	58,482.6	59,652.3	60,845.3	62,062.2	63,303.5	64,569.6	65,861.0	67,178.2	68,521.7	69,892.2
Year 4				0.0															
Year 5				0.0															
				32,068.6					65,137.0										
AFUDC					5,416.3													27.9	1,041.3
In-service cost						102,622												1,014.5	26,669.2

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 ISOLATED ISLAND ALTERNATIVE ($000)

AFUDC **7.53%**	InSvcyr	InSvcMo	CapCost In	Escalation	AFUDC	Calculated InSvcCost	Strategist InSvcCost	Construction Escalation[2]	Construction Start Month	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
CCCT7170G2	2033	12	206,187	109,870	30,287	346,344	346,330	1.9%	1										
Escalation								206,187.0											
Year 1				14,131.4				0.1374	28,326.8	34,842.9	35,504.9	36,179.5	36,866.9	37,567.4	38,281.1	39,008.5	39,749.6	40,504.9	41,274.5
Year 2				58,462.4				0.5377	110,860.9	136,362.4	138,953.3	141,593.4	144,283.6	147,025.0	149,818.5	152,665.1	155,565.7	158,521.4	161,533.3
Year 3				37,276.2				0.3249	66,999.2	82,411.0	83,976.8	85,572.4	87,198.3	88,855.0	90,543.3	92,263.6	94,016.6	95,802.9	97,623.2
Year 4				0.0															
Year 5				0.0															
				109,870.1					206,186.9										
AFUDC					30,287.4														
In-service cost						346,344													
CCCT170G1	2033	12	273,920	144,480	46,549	464,949	464,883	1.9%	3										
Escalation								273,920.0											
Year 1				2,938.6				0.0228	6,240.1	7,675.5	7,821.4	7,970.0	8,121.4	8,275.7	8,432.9	8,593.2	8,756.4	8,922.8	9,092.3
Year 2				37,830.6				0.2768	75,832.4	93,276.2	95,048.4	96,854.4	98,694.6	100,569.8	102,480.6	104,427.7	106,411.9	108,433.7	110,493.9
Year 3				55,011.4				0.3808	104,316.9	128,313.0	130,751.0	133,235.2	135,766.7	138,346.3	140,974.8	143,653.4	146,382.8	149,164.1	151,998.2
Year 4				48,699.3				0.3195	87,530.6	107,665.3	109,711.0	111,795.5	113,919.6	116,084.1	118,289.7	120,537.2	122,827.4	125,161.1	127,539.2
Year 5				0.0															
				144,479.9					273,920.0										
AFUDC					46,549.4														
In-service cost						464,949													
WIND25	2034	10	58,082	35,657	4,744	98,483	98,478	2.0%	1										
Escalation								58,082.0											
Year 1				11,474.5				0.3333	19,360.7	24,072.6	24,554.0	25,045.1	25,546.0	26,056.9	26,578.0	27,109.6	27,651.8	28,204.8	28,768.9
Year 2				24,182.3				0.6667	38,721.3	48,145.1	49,108.0	50,090.2	51,092.0	52,113.8	53,156.1	54,219.2	55,303.6	56,409.7	57,537.9
Year 3				0.0															
Year 4				0.0															
Year 5				0.0															
				35,656.8					58,082.0										
AFUDC					4,744.2														
In-service cost						98,483													

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 ISOLATED ISLAND ALTERNATIVE ($000)

AFUDC **7.53%**	InSvcyr	InSvcMo	CapCost In	Escalation	AFUDC	Calculated InSvcCost	Strategist InSvcCost	Construction Escalation[2]	Construction Start Month	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
CCCT170G1	2036	12	273,920	168,785	49,253	491,958	491,888	1.9%	3										
Escalation								273,920.0											
Year 1				3,471.8				0.02278	6,240.1	7,675.5	7,821.4	7,970.0	8,121.4	8,275.7	8,432.9	8,593.2	8,756.4	8,922.8	9,092.3
Year 2				44,433.2				0.27684	75,832.4	93,276.2	95,048.4	96,854.4	98,694.6	100,569.8	102,480.6	104,427.7	106,411.9	108,433.7	110,493.9
Year 3				64,266.8				0.38083	104,316.9	128,313.0	130,751.0	133,235.2	135,766.7	138,346.3	140,974.8	143,653.4	146,382.8	149,164.1	151,998.2
Year 4				56,612.9				0.31955	87,530.6	107,665.3	109,711.0	111,795.5	113,919.6	116,084.1	118,289.7	120,537.2	122,827.4	125,161.1	127,539.2
Year 5				0.0															
				168,784.7					273,920.0										
AFUDC					49,253.4														
In-service cost						491,958													
GT50	2042	12	65,137	58,143	6,869	130,149	130,143	2.0%	4										
Escalation								65,137.0											
Year 1				567.3				0.0105	683.9	850.4	867.4	884.7	902.4	920.5	938.9	957.7	976.8	996.4	1,016.3
Year 2				15,084.8				0.2674	17,417.6	21,656.6	22,089.8	22,531.6	22,982.2	23,441.8	23,910.7	24,388.9	24,876.7	25,374.2	25,881.7
Year 3				42,491.1				0.7221	47,035.4	58,482.6	59,652.3	60,845.3	62,062.2	63,303.5	64,569.6	65,861.0	67,178.2	68,521.7	69,892.2
Year 4				0.0															
Year 5				0.0															
				58,143.3					65,137.0										
AFUDC					6,869.2														
In-service cost						130,149													
GT50	2046	12	65,137	68,306	7,435	140,878	140,871	2.0%	4										
Escalation								65,137.0											
Year 1				670.5				0.0105	683.9	850.4	867.4	884.7	902.4	920.5	938.9	957.7	976.8	996.4	1,016.3
Year 2				17,764.0				0.2674	17,417.6	21,656.6	22,089.8	22,531.6	22,982.2	23,441.8	23,910.7	24,388.9	24,876.7	25,374.2	25,881.7
Year 3				49,871.0				0.7221	47,035.4	58,482.6	59,652.3	60,845.3	62,062.2	63,303.5	64,569.6	65,861.0	67,178.2	68,521.7	69,892.2
Year 4				0.0															
Year 5				0.0															
				68,305.5					65,137.0										
AFUDC					7,435.4														
In-service cost						140,878													

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 ISOLATED ISLAND ALTERNATIVE ($000)

AFUDC **7.53%**	InSvcyr	InSvcMo	CapCost In	Escalation	AFUDC	Calculated InSvcCost	Strategist InSvcCost	Construction Escalation[2]	Construction Start Month	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
WIND2x27	2048	10	125,458	141,706	13,521	280,686	280,672	2.0%	1										
Escalation								125,458.0											
Year 1				46,063.7				0.3333	41,819.3	51,997.1	53,037.0	54,097.8	55,179.7	56,283.3	57,409.0	58,557.2	59,728.3	60,922.9	62,141.3
Year 2				95,642.6				0.6667	83,638.7	103,994.2	106,074.1	108,195.5	110,359.4	112,566.6	114,818.0	117,114.3	119,456.6	121,845.7	124,282.7
Year 3				0.0															
Year 4				0.0															
Year 5				0.0															
				141,706.3					125,458.0										
AFUDC					13,521.3														
In-service cost						280,686													
GT50	2049	12	65,137	76,473	7,890	149,501	149,493	2.0%	4										
Escalation								65,137.0											
Year 1				753.4				0.0105	683.9	850.4	867.4	884.7	902.4	920.5	938.9	957.7	976.8	996.4	1,016.3
Year 2				19,917.4				0.2674	17,417.6	21,656.6	22,089.8	22,531.6	22,982.2	23,441.8	23,910.7	24,388.9	24,876.7	25,374.2	25,881.7
Year 3				55,802.5				0.7221	47,035.4	58,482.6	59,652.3	60,845.3	62,062.2	63,303.5	64,569.6	65,861.0	67,178.2	68,521.7	69,892.2
Year 4				0.0															
Year 5				0.0															
				76,473.3					65,137.0										
AFUDC					7,890.5														
In-service cost						149,501													
CCCT170G2	2050	12	206,187	229,051	41,708	476,946	476,925	1.9%	1										
Escalation								206,187.0											
Year 1				30,141.8				0.1374	28,326.8	34,842.9	35,504.9	36,179.5	36,866.9	37,567.4	38,281.1	39,008.5	39,749.6	40,504.9	41,274.5
Year 2				122,311.9				0.5377	110,860.9	136,362.4	138,953.3	141,593.4	144,283.6	147,025.0	149,818.5	152,665.1	155,565.7	158,521.4	161,533.3
Year 3				76,597.1				0.3249	66,999.2	82,411.0	83,976.8	85,572.4	87,198.3	88,855.0	90,543.3	92,263.6	94,016.6	95,802.9	97,623.2
Year 4				0.0															
Year 5				0.0															
				229,050.8					206,186.9										
AFUDC					41,708.4														
In-service cost						476,946													

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 ISOLATED ISLAND ALTERNATIVE ($000)

AFUDC **7.53%**	InSvcyr	InSvcMo	CapCost In	Escalation	AFUDC	Calculated InSvcCost	Strategist InSvcCost	Construction Escalation[2]	Construction Start Month	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
CCCT170G1	2052	12	273,920	324,355	66,562	664,837	664,743	1.9%	3										
Escalation								273,920.0											
Year 1				6,884.7				0.02278	6,240.1	7,675.5	7,821.4	7,970.0	8,121.4	8,275.7	8,432.9	8,593.2	8,756.4	8,922.8	9,092.3
Year 2				86,695.7				0.27684	75,832.4	93,276.2	95,048.4	96,854.4	98,694.6	100,569.8	102,480.6	104,427.7	106,411.9	108,433.7	110,493.9
Year 3				123,508.7				0.38083	104,316.9	128,313.0	130,751.0	133,235.2	135,766.7	138,346.3	140,974.8	143,653.4	146,382.8	149,164.1	151,998.2
Year 4				107,266.3				0.31955	87,530.6	107,665.3	109,711.0	111,795.5	113,919.6	116,084.1	118,289.7	120,537.2	122,827.4	125,161.1	127,539.2
Year 5				0.0															
				324,355.3					273,920.0										
AFUDC					66,561.6														
In-service cost						664,837													
WIND25	2054	10	58,082	81,209	7,050	146,340	146,333	2.0%	1										
Escalation								58,082.0											
Year 1				26,458.7				0.3333	19,360.7	24,072.6	24,554.0	25,045.1	25,546.0	26,056.9	26,578.0	27,109.6	27,651.8	28,204.8	28,768.9
Year 2				54,750.2				0.6667	38,721.3	48,145.1	49,108.0	50,090.2	51,092.0	52,113.8	53,156.1	54,219.2	55,303.6	56,409.7	57,537.9
Year 3				0.0															
Year 4				0.0															
Year 5				0.0															
				81,208.9					58,082.0										
AFUDC					7,049.6														
In-service cost						146,340													
CCCT170G2	2056	12	206,187	281,085	46,695	533,967	533,945	1.9%	1										
Escalation								206,187.0											
Year 1				37,132.0				0.1374	28,326.8	34,842.9	35,504.9	36,179.5	36,866.9	37,567.4	38,281.1	39,008.5	39,749.6	40,504.9	41,274.5
Year 2				150,188.7				0.5377	110,860.9	136,362.4	138,953.3	141,593.4	144,283.6	147,025.0	149,818.5	152,665.1	155,565.7	158,521.4	161,533.3
Year 3				93,764.6				0.3249	66,999.2	82,411.0	83,976.8	85,572.4	87,198.3	88,855.0	90,543.3	92,263.6	94,016.6	95,802.9	97,623.2
Year 4				0.0															
Year 5				0.0															
				281,085.3					206,186.9										
AFUDC					46,694.8														
In-service cost						533,967													

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 ISOLATED ISLAND ALTERNATIVE ($000)

AFUDC 7.53%	InSvcyr	InSvcMo	CapCost In	Escalation	AFUDC	Calculated InSvcCost	Strategist InSvcCost	Construction Escalation[2]	Construction Start Month	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
GT2x50	2063	12	130,274	243,429	20,823	394,526	394,506	2.0%	4										
Escalation								130,274.0											
Year 1				2,425.1				0.0105	1,367.9	1,700.8	1,734.8	1,769.5	1,804.9	1,841.0	1,877.8	1,915.4	1,953.7	1,992.7	2,032.6
Year 2				63,690.4				0.2674	34,835.3	43,313.3	44,179.5	45,063.1	45,964.4	46,883.7	47,821.4	48,777.8	49,753.3	50,748.4	51,763.4
Year 3				177,314.0				0.7221	94,070.9	116,965.3	119,304.6	121,690.7	124,124.5	126,607.0	129,139.1	131,721.9	134,356.3	137,043.5	139,784.3
Year 4				0.0															
Year 5				0.0															
				243,429.5					130,274.0										
AFUDC					20,822.7														
In-service cost						394,526													
CCCG170G1	2063	12	273,920	461,977	81,873	817,770	817,654	1.9%	3										
Escalation								273,920.0											
Year 1				9,903.8				0.02278	6,240.1	7,675.5	7,821.4	7,970.0	8,121.4	8,275.7	8,432.9	8,593.2	8,756.4	8,922.8	9,092.3
Year 2				124,082.2				0.27684	75,832.4	93,276.2	95,048.4	96,854.4	98,694.6	100,569.8	102,480.6	104,427.7	106,411.9	108,433.7	110,493.9
Year 3				175,915.6				0.38083	104,316.9	128,313.0	130,751.0	133,235.2	135,766.7	138,346.3	140,974.8	143,653.4	146,382.8	149,164.1	151,998.2
Year 4				152,075.6				0.31955	87,530.6	107,665.3	109,711.0	111,795.5	113,919.6	116,084.1	118,289.7	120,537.2	122,827.4	125,161.1	127,539.2
Year 5				0.0															
				461,977.1					273,920.0										
AFUDC					81,872.8														
In-service cost						817,770													
GT50	2064	12	65,137	125,452	10,620	201,208	201,198	2.0%	4										
Escalation								65,137.0											
Year 1				1,250.5				0.0105	683.9	850.4	867.4	884.7	902.4	920.5	938.9	957.7	976.8	996.4	1,016.3
Year 2				32,830.5				0.2674	17,417.6	21,656.6	22,089.8	22,531.6	22,982.2	23,441.8	23,910.7	24,388.9	24,876.7	25,374.2	25,881.7
Year 3				91,370.8				0.7221	47,035.4	58,482.6	59,652.3	60,845.3	62,062.2	63,303.5	64,569.6	65,861.0	67,178.2	68,521.7	69,892.2
Year 4				0.0															
Year 5				0.0															
				125,451.8					65,137.0										
AFUDC					10,619.6														
In-service cost						201,208													

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 ISOLATED ISLAND ALTERNATIVE ($000)

AFUDC 7.53%	InSvcyr	InSvcMo	CapCost In	Escalation	AFUDC	Calculated InSvcCost	Strategist InSvcCost	Construction Escalation[2]	Construction Start Month	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
CCCT170G2	2066	12	206,187	381,997	56,365	644,550	644,523	1.9%	1										
Escalation								206,187.0											
Year 1				50,688.3				0.1374	28,326.8	34,842.9	35,504.9	36,179.5	36,866.9	37,567.4	38,281.1	39,008.5	39,749.6	40,504.9	41,274.5
Year 2				204,251.1				0.5377	110,860.9	136,362.4	138,953.3	141,593.4	144,283.6	147,025.0	149,818.5	152,665.1	155,565.7	158,521.4	161,533.3
Year 3				127,058.1				0.3249	66,999.2	82,411.0	83,976.8	85,572.4	87,198.3	88,855.0	90,543.3	92,263.6	94,016.6	95,802.9	97,623.2
Year 4				0.0															
Year 5				0.0															
				381,997.5					206,186.9										
AFUDC					56,365.2														
In-service cost						644,550													
CCCT170G1	2067	12	273,920	519,520	88,275	881,714	881,589	1.9%	3										
Escalation								273,920.0											
Year 1				11,166.1				0.02278	6,240.1	7,675.5	7,821.4	7,970.0	8,121.4	8,275.7	8,432.9	8,593.2	8,756.4	8,922.8	9,092.3
Year 2				139,714.2				0.27684	75,832.4	93,276.2	95,048.4	96,854.4	98,694.6	100,569.8	102,480.6	104,427.7	106,411.9	108,433.7	110,493.9
Year 3				197,828.0				0.38083	104,316.9	128,313.0	130,751.0	133,235.2	135,766.7	138,346.3	140,974.8	143,653.4	146,382.8	149,164.1	151,998.2
Year 4				170,811.2				0.31955	87,530.6	107,665.3	109,711.0	111,795.5	113,919.6	116,084.1	118,289.7	120,537.2	122,827.4	125,161.1	127,539.2
Year 5				0.0															
				519,519.6					273,920.0										
AFUDC					88,274.7														
In-service cost						881,714													

Note: 1. The difference between Calculated In-service cost and Strategist in-service cost is due to roundir
2. A single escalation factor for all years by project was used, as required by Strategist.
This number represents the CAGR of the escalation series over the study period.
3. Unless otherwise noted, base dollar estimates are in 2010$

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 ISOLATED ISLAND ALTERNATIVE ($000)

AFUDC	7.53%			CapCost			Calculated	Strategist	Construction	Construction Start										
	InSvcyr	InSvcMo	In	Escalation	AFUDC	InSvcCost	InSvcCost	Escalation[2]	Month	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039

ESCALATION and AFUDC

Escalation Rates

CT Escalation	2.0%
CCCT Escalation	1.9%
Hydro Escalation	1.9%
Wind Escalation	2.00%

ISLAND POND	2015	11	166,220	15,033	17,874	199,126	199,118	1.9%	4
Escalation								166,220.0	
Year 1				236.6				0.0295	4,906.7
Year 2				2,786.9				0.2461	40,898.9
Year 3				4,833.3				0.3288	54,653.3
Year 4				7,175.6				0.3956	65,761.1
Year 5				0.0					
				15,032.5					166,220.0
AFUDC					17,873.6				
In-service cost						199,126			

HRD ESP	2015	7	581,976	0	0	581,976	581,976		1
Escalation									
Year 1			Escalation and AFUDC calculated in Capital Budget Proposal sheet outside of Strategist						
Year 2									
Year 3									
Year 4									
Year 5									
AFUDC									
In-service cost									

HRD UPG	2016	12	100,000	0	0	100,000	100,000		1
Escalation									
Year 1			Escalation and AFUDC were included in the original estimate, outside of Strategist.						
Year 2									
Year 3									
Year 4									
Year 5									

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 ISOLATED ISLAND ALTERNATIVE ($000)

AFUDC	**7.53%**			CapCost			Calculated	Strategist	Construction	Start											
		InSvcyr	InSvcMo	In	Escalation	AFUDC	InSvcCost	InSvcCost	Escalation[2]	Month	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039
	AFUDC																				
	In-service cost																				
						Estimates from Hydro's 20-year Budget; assumes AFUDC in estimat															
HRD LOW Nox		2017	12	17,500	2,317	0	19,817	19,816	1.9%	1											
	Escalation								17,500.0												
	Year 1				555.7				0.2910	5,092.5											
	Year 2				729.1				0.3200	5,600.0											
	Year 3				1,032.4				0.3890	6,807.5											
	Year 4				0.0																
	Year 5				0.0																
					2,317.2					17,500.0											
	AFUDC					0.0															
	In-service cost						19,817														
PORTLAND		2018	12	89,909	14,998	6,034	110,941	110,936	1.9%	1											
	Escalation								89,909.0												
	Year 1				505.6				0.0432	3,883.5											
	Year 2				3,027.2				0.2220	19,960.0											
	Year 3				11,465.4				0.7348	66,065.6											
	Year 4				0.0																
	Year 5				0.0																
					14,998.1					89,909.0											
	AFUDC					6,033.9															
	In-service cost						110,941														
						Estimates from Hydro's 20-year Budget; assumes AFUDC in estimat															
HRD ISOL1		2019	12	105,190	15,788	0	120,978	120,973	1.9%	1											
	Escalation								105,190.0												
	Year 1				3,202.4				0.2790	29,348.0											
	Year 2				1,451.6				0.1060	11,150.1											
	Year 3				3,765.0				0.2360	24,824.8											
	Year 4				3,413.7				0.187	19,670.5											
	Year 5				3,955.3				0.192	20,196.5											
					15,788.1					105,190.0											
	AFUDC					0.0															
	In-service cost						120,978														
ROUND POND		2029	12	142,192	29,006	14,165	185,363	185,355	0.0%	1											
	Escalation								142,192.0												

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 ISOLATED ISLAND ALTERNATIVE ($000)

AFUDC **7.53%**			CapCost			Calculated	Strategist	Construction	Construction Start											
	InSvcyr	InSvcMo	In	Escalation	AFUDC	InSvcCost	InSvcCost	Escalation[2]	Month	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039
Year 1				2,094.7				0.0849	12,070.1										
Year 2				13,174.3				0.4731	67,270.1										
Year 3				13,737.1				0.4420	62,851.8										
Year 4				0.0															
Year 5				0.0															
				29,006.2					142,192.0										
AFUDC					14,164.7														
In-service cost						185,363													
CCCT 170	2022	12	206,187	50,764	24,623	281,574	281,562	1.9%	1										
Escalation								206,187.0											
Year 1				6,191.2				0.1374	28,326.8										
Year 2				26,796.9				0.5377	110,860.9										
Year 3				17,775.5				0.3249	66,999.2										
Year 4				0.0															
Year 5				0.0															
				50,763.6					206,186.9										
AFUDC					24,623.3														
In-service cost						281,574													

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 ISOLATED ISLAND ALTERNATIVE ($000)

AFUDC **7.53%**	InSvcyr	InSvcMo	CapCost In	Escalation	AFUDC	Calculated InSvcCost	Strategist InSvcCost	Construction Escalation[2]	Construction Start Month	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039
GT50	2024	12	65,137	21,179	4,810	91,125	91,125	2.0%	4										
Escalation								65,137.0											
Year 1				192.1				0.0105	683.9										
Year 2				5,339.2				0.2674	17,417.6										
Year 3				15,647.4				0.7221	47,035.4										
Year 4				0.0															
Year 5				0.0															
				21,178.8					65,137.0										
AFUDC					4,809.5														
In-service cost						91,125													

Estimates from Hydro's 20-year Budget; assumes AFUDC in estimat

HRD ISOL2	2024	12	6,832	1,716	0	8,548	8,548	1.9%	1										
Escalation								6,825.0											
Year 1				634.0				0.4250	2,900.6										
Year 2				344.8				0.2090	1,426.4										
Year 3				266.2				0.1470	1,003.3										
Year 4				0.0				0	0.0										
Year 5				471.2				0.22	1,501.5										
				1,716.2					6,831.8										
AFUDC					0.0														
In-service cost						8,548													

GT50	2027	12	65,137	26,462	5,104	96,703	96,698	2.0%	4										
Escalation								65,137.0											
Year 1				245.8				0.0105	683.9										
Year 2				6,732.2				0.2674	17,417.6										
Year 3				19,484.1				0.7221	47,035.4										
Year 4				0.0															
Year 5				0.0															
				26,462.0					65,137.0										
AFUDC					5,103.9														
In-service cost						96,703													

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 ISOLATED ISLAND ALTERNATIVE ($000)

AFUDC 7.53%	InSvcyr	InSvcMo	CapCost In	Escalation	AFUDC	Calculated InSvcCost	Strategist InSvcCost	Construction Escalation[2]	Construction Start Month	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039
WIND2x27	2028	10	125,458	54,336	9,099	188,893	188,884	2.0%	1										
Escalation								125,458.0											
Year 1				17,323.4				0.3333	41,819.3		59,142.7								
Year 2				37,012.5				0.6667	83,638.7		120,651.2								
Year 3				0.0							0.0								
Year 4				0.0															
Year 5				0.0															
				54,335.9					125,458.0										
AFUDC					9,099.5						9,099.5								
In-service cost						188,893					**188,893**								

Estimates from Hydro's 20-year Budget; assumes AFUDC in estimat

HRD ISOL3	2029	12	2,550	1,127	0	3,677	3,608	1.9%	1										
Escalation								2,550.0											
Year 1				18.6				0.0200	51.0			69.6							
Year 2				0.0				0.0000	0.0			0.0							
Year 3				0.0				0.0000	0.0			0.0							
Year 4				1,108.3				0.98	2,499.0			3,607.3							
Year 5				0.0															
				1,126.9					2,550.0										
AFUDC					0.0					0.0		0.0							
In-service cost						3,677				0.0		**3,677**							

GT50	2030	12	65,137	32,069	5,416	102,622	102,617	2.0%	4										
Escalation								65,137.0											
Year 1				302.7				0.0105	683.9			986.6							
Year 2				8,210.3				0.2674	17,417.6			25,627.9							
Year 3				23,555.7				0.7221	47,035.4	70,591.1		70,591.1							
Year 4				0.0															
Year 5				0.0															
				32,068.6					65,137.0										
AFUDC					5,416.3					4,347.1		5,416.3							
In-service cost						102,622				74,938.2		**102,622**							

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 ISOLATED ISLAND ALTERNATIVE ($000)

AFUDC **7.53%**	InSvcyr	InSvcMo	CapCost In	Escalation	AFUDC	Calculated InSvcCost	Strategist InSvcCost	Construction Escalation[2]	Construction Start Month	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039
CCCT7170G2	2033	12	206,187	109,870	30,287	346,344	346,330	1.9%	1										
Escalation								206,187.0											
Year 1				14,131.4				0.1374	28,326.8	42,058.7	42,458.2				42,458.2				
Year 2				58,462.4				0.5377	110,860.9	164,602.5	167,729.9	169,323.4			169,323.4				
Year 3				37,276.2				0.3249	66,999.2	99,478.0	101,368.1	103,294.1	104,275.4		104,275.4				
Year 4				0.0															
Year 5				0.0															
				109,870.1					206,186.9										
AFUDC					30,287.4						1,598.6	9,692.5	18,996.4		30,287.4				
In-service cost						346,344					44,056.8	179,015.9	123,271.8		**346,344**				
CCCT170G1	2033	12	273,920	144,480	46,549	464,949	464,883	1.9%	3										
Escalation								273,920.0											
Year 1				2,938.6				0.0228	6,240.1	9,178.7				9,178.7					
Year 2				37,830.6				0.2768	75,832.4	112,593.3	113,663.0			113,663.0					
Year 3				55,011.4				0.3808	104,316.9	154,886.1	157,829.0	159,328.3		159,328.3					
Year 4				48,699.3				0.3195	87,530.6	129,962.4	132,431.7	134,947.9	136,229.9	136,229.9					
Year 5				0.0															
				144,479.9					273,920.0										
AFUDC					46,549.4					288.0	4,992.3	15,646.3	25,622.9	46,549.4					
In-service cost						464,949				9,466.7	118,655.2	174,974.6	161,852.8	**464,949**					
WIND25	2034	10	58,082	35,657	4,744	98,483	98,478	2.0%	1										
Escalation								58,082.0											
Year 1				11,474.5				0.3333	19,360.7	29,344.3	29,931.2	30,529.8	30,835.1				30,835.1		
Year 2				24,182.3				0.6667	38,721.3	58,688.6	59,862.4	61,059.6	62,280.8	62,903.6			62,903.6		
Year 3				0.0									0.0	0.0	0.0		0.0		
Year 4				0.0															
Year 5				0.0															
				35,656.8					58,082.0										
AFUDC					4,744.2								1,160.9	3,583.2	0.0		4,744.2		
In-service cost						98,483							31,996.1	66,486.9	0.0		**98,483**		

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 ISOLATED ISLAND ALTERNATIVE ($000)

AFUDC 7.53%	InSvcyr	InSvcMo	CapCost In	Escalation	AFUDC	Calculated InSvcCost	Strategist InSvcCost	Construction Escalation[2]	Construction Start Month	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039
CCCT170G1	2036	12	273,920	168,785	49,253	491,958	491,888	1.9%	3										
Escalation								273,920.0											
Year 1				3,471.8				0.02278	6,240.1	9,265.1	9,441.1	9,620.5	9,711.9				9,711.9		
Year 2				44,433.2				0.27684	75,832.4	112,593.3	114,732.6	116,912.5	119,133.9	120,265.6			120,265.6		
Year 3				64,266.8				0.38083	104,316.9	154,886.1	157,829.0	160,827.7	163,883.4	166,997.2	168,583.7		168,583.7		
Year 4				56,612.9				0.31955	87,530.6	129,962.4	132,431.7	134,947.9	137,511.9	140,124.6	142,787.0	144,143.5	144,143.5		
Year 5				0.0															
				168,784.7					273,920.0										
AFUDC					49,253.4								304.7	5,282.3	16,555.2	27,111.3	49,253.4		
In-service cost						491,958							10,016.6	125,547.9	185,138.9	171,254.8	**491,958**		
GT50	2042	12	65,137	58,143	6,869	130,149	130,143	2.0%	4										
Escalation								65,137.0											
Year 1				567.3				0.0105	683.9	1,036.6	1,057.4	1,078.5	1,100.1	1,122.1	1,144.5	1,167.4	1,190.8	1,214.6	1,238.9
Year 2				15,084.8				0.2674	17,417.6	26,399.3	26,927.3	27,465.9	28,015.2	28,575.5	29,147.0	29,729.9	30,324.5	30,931.0	31,549.6
Year 3				42,491.1				0.7221	47,035.4	71,290.0	72,715.8	74,170.1	75,653.5	77,166.6	78,709.9	80,284.1	81,889.8	83,527.6	85,198.2
Year 4				0.0															
Year 5				0.0															
				58,143.3					65,137.0										
AFUDC					6,869.2														
In-service cost						130,149													
GT50	2046	12	65,137	68,306	7,435	140,878	140,871	2.0%	4										
Escalation								65,137.0											
Year 1				670.5				0.0105	683.9	1,036.6	1,057.4	1,078.5	1,100.1	1,122.1	1,144.5	1,167.4	1,190.8	1,214.6	1,238.9
Year 2				17,764.0				0.2674	17,417.6	26,399.3	26,927.3	27,465.9	28,015.2	28,575.5	29,147.0	29,729.9	30,324.5	30,931.0	31,549.6
Year 3				49,871.0				0.7221	47,035.4	71,290.0	72,715.8	74,170.1	75,653.5	77,166.6	78,709.9	80,284.1	81,889.8	83,527.6	85,198.2
Year 4				0.0															
Year 5				0.0															
				68,305.5					65,137.0										
AFUDC					7,435.4														
In-service cost						140,878													

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 ISOLATED ISLAND ALTERNATIVE ($000)

AFUDC **7.53%**	InSvcyr	InSvcMo	CapCost In	Escalation	AFUDC	Calculated InSvcCost	Strategist InSvcCost	Construction Escalation[2]	Construction Start Month	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039
WIND2x27	2048	10	125,458	141,706	13,521	280,686	280,672	2.0%	1										
Escalation								125,458.0											
Year 1				46,063.7				0.3333	41,819.3	63,384.2	64,651.8	65,944.9	67,263.8	68,609.0	69,981.2	71,380.9	72,808.5	74,264.6	75,749.9
Year 2				95,642.6				0.6667	83,638.7	126,768.3	129,303.7	131,889.8	134,527.5	137,218.1	139,962.5	142,761.7	145,616.9	148,529.3	151,499.9
Year 3				0.0															
Year 4				0.0															
Year 5				0.0															
				141,706.3					125,458.0										
AFUDC					13,521.3														
In-service cost						280,686													
GT50	2049	12	65,137	76,473	7,890	149,501	149,493	2.0%	4										
Escalation								65,137.0											
Year 1				753.4				0.0105	683.9	1,036.6	1,057.4	1,078.5	1,100.1	1,122.1	1,144.5	1,167.4	1,190.8	1,214.6	1,238.9
Year 2				19,917.4				0.2674	17,417.6	26,399.3	26,927.3	27,465.9	28,015.2	28,575.5	29,147.0	29,729.9	30,324.5	30,931.0	31,549.6
Year 3				55,802.5				0.7221	47,035.4	71,290.0	72,715.8	74,170.1	75,653.5	77,166.6	78,709.9	80,284.1	81,889.8	83,527.6	85,198.2
Year 4				0.0															
Year 5				0.0															
				76,473.3					65,137.0										
AFUDC					7,890.5														
In-service cost						149,501													
CCCT170G2	2050	12	206,187	229,051	41,708	476,946	476,925	1.9%	1										
Escalation								206,187.0											
Year 1				30,141.8				0.1374	28,326.8	42,058.7	42,857.8	43,672.1	44,501.9	45,347.4	46,209.0	47,087.0	47,981.6	48,893.3	49,822.3
Year 2				122,311.9				0.5377	110,860.9	164,602.5	167,729.9	170,916.8	174,164.2	177,473.3	180,845.3	184,281.4	187,782.7	191,350.6	194,986.3
Year 3				76,597.1				0.3249	66,999.2	99,478.0	101,368.1	103,294.1	105,256.7	107,256.6	109,294.4	111,371.0	113,487.1	115,643.3	117,840.6
Year 4				0.0															
Year 5				0.0															
				229,050.8					206,186.9										
AFUDC					41,708.4														
In-service cost						476,946													

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 ISOLATED ISLAND ALTERNATIVE ($000)

AFUDC **7.53%**	InSvcyr	InSvcMo	CapCost In	Escalation	AFUDC	Calculated InSvcCost	Strategist InSvcCost	Construction Escalation[2]	Construction Start Month	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039
CCCT170G1	2052	12	273,920	324,355	66,562	664,837	664,743	1.9%	3										
Escalation								273,920.0											
Year 1				6,884.7				0.02278	6,240.1	9,265.1	9,441.1	9,620.5	9,803.3	9,989.6	10,179.4	10,372.8	10,569.9	10,770.7	10,975.3
Year 2				86,695.7				0.27684	75,832.4	112,593.3	114,732.6	116,912.5	119,133.9	121,397.4	123,703.9	126,054.3	128,449.4	130,889.9	133,376.8
Year 3				123,508.7				0.38083	104,316.9	154,886.1	157,829.0	160,827.7	163,883.4	166,997.2	170,170.2	173,403.4	176,698.1	180,055.3	183,476.4
Year 4				107,266.3				0.31955	87,530.6	129,962.4	132,431.7	134,947.9	137,511.9	140,124.6	142,787.0	145,500.0	148,264.5	151,081.5	153,952.0
Year 5				0.0															
				324,355.3					273,920.0										
AFUDC					66,561.6														
In-service cost						664,837													
WIND25	2054	10	58,082	81,209	7,050	146,340	146,333	2.0%	1										
Escalation								58,082.0											
Year 1				26,458.7				0.3333	19,360.7	29,344.3	29,931.2	30,529.8	31,140.4	31,763.2	32,398.5	33,046.5	33,707.4	34,381.5	35,069.2
Year 2				54,750.2				0.6667	38,721.3	58,688.6	59,862.4	61,059.6	62,280.8	63,526.5	64,797.0	66,092.9	67,414.8	68,763.1	70,138.3
Year 3				0.0															
Year 4				0.0															
Year 5				0.0															
				81,208.9					58,082.0										
AFUDC					7,049.6														
In-service cost						146,340													
CCCT170G2	2056	12	206,187	281,085	46,695	533,967	533,945	1.9%	1										
Escalation								206,187.0											
Year 1				37,132.0				0.1374	28,326.8	42,058.7	42,857.8	43,672.1	44,501.9	45,347.4	46,209.0	47,087.0	47,981.6	48,893.3	49,822.3
Year 2				150,188.7				0.5377	110,860.9	164,602.5	167,729.9	170,916.8	174,164.2	177,473.3	180,845.3	184,281.4	187,782.7	191,350.6	194,986.3
Year 3				93,764.6				0.3249	66,999.2	99,478.0	101,368.1	103,294.1	105,256.7	107,256.6	109,294.4	111,371.0	113,487.1	115,643.3	117,840.6
Year 4				0.0															
Year 5				0.0															
				281,085.3					206,186.9										
AFUDC					46,694.8														
In-service cost						533,967													

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 ISOLATED ISLAND ALTERNATIVE ($000)

AFUDC 7.53%	InSvcyr	InSvcMo	CapCost In	Escalation	AFUDC	Calculated InSvcCost	Strategist InSvcCost	Construction Escalation[2]	Construction Start Month	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039
GT2x50	2063	12	130,274	243,429	20,823	394,526	394,506	2.0%	4										
Escalation								130,274.0											
Year 1				2,425.1				0.0105	1,367.9	2,073.2	2,114.7	2,157.0	2,200.1	2,244.1	2,289.0	2,334.8	2,381.5	2,429.1	2,477.7
Year 2				63,690.4				0.2674	34,835.3	52,798.6	53,854.6	54,931.7	56,030.3	57,150.9	58,294.0	59,459.8	60,649.0	61,862.0	63,099.3
Year 3				177,314.0				0.7221	94,070.9	142,580.0	145,431.6	148,340.3	151,307.1	154,333.2	157,419.9	160,568.3	163,779.6	167,055.2	170,396.3
Year 4				0.0															
Year 5				0.0															
				243,429.5					130,274.0										
AFUDC					20,822.7														
In-service cost						394,526													
CCCG170G1	2063	12	273,920	461,977	81,873	817,770	817,654	1.9%	3										
Escalation								273,920.0											
Year 1				9,903.8				0.02278	6,240.1	9,265.1	9,441.1	9,620.5	9,803.3	9,989.6	10,179.4	10,372.8	10,569.9	10,770.7	10,975.3
Year 2				124,082.2				0.27684	75,832.4	112,593.3	114,732.6	116,912.5	119,133.9	121,397.4	123,703.9	126,054.3	128,449.4	130,889.9	133,376.8
Year 3				175,915.6				0.38083	104,316.9	154,886.1	157,829.0	160,827.7	163,883.4	166,997.2	170,170.2	173,403.4	176,698.1	180,055.3	183,476.4
Year 4				152,075.6				0.31955	87,530.6	129,962.4	132,431.7	134,947.9	137,511.9	140,124.6	142,787.0	145,500.0	148,264.5	151,081.5	153,952.0
Year 5				0.0															
				461,977.1					273,920.0										
AFUDC					81,872.8														
In-service cost						817,770													
GT50	2064	12	65,137	125,452	10,620	201,208	201,198	2.0%	4										
Escalation								65,137.0											
Year 1				1,250.5				0.0105	683.9	1,036.6	1,057.4	1,078.5	1,100.1	1,122.1	1,144.5	1,167.4	1,190.8	1,214.6	1,238.9
Year 2				32,830.5				0.2674	17,417.6	26,399.3	26,927.3	27,465.9	28,015.2	28,575.5	29,147.0	29,729.9	30,324.5	30,931.0	31,549.6
Year 3				91,370.8				0.7221	47,035.4	71,290.0	72,715.8	74,170.1	75,653.5	77,166.6	78,709.9	80,284.1	81,889.8	83,527.6	85,198.2
Year 4				0.0															
Year 5				0.0															
				125,451.8					65,137.0										
AFUDC					10,619.6														
In-service cost						201,208													

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 ISOLATED ISLAND ALTERNATIVE ($000)

AFUDC 7.53%	InSvcyr	InSvcMo	CapCost In	Escalation	AFUDC	Calculated InSvcCost	Strategist InSvcCost	Construction Escalation[2]	Construction Start Month	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039
CCCT170G2	2066	12	206,187	381,997	56,365	644,550	644,523	1.9%	1										
Escalation								206,187.0											
Year 1				50,688.3				0.1374	28,326.8	42,058.7	42,857.8	43,672.1	44,501.9	45,347.4	46,209.0	47,087.0	47,981.6	48,893.3	49,822.3
Year 2				204,251.1				0.5377	110,860.9	164,602.5	167,729.9	170,916.8	174,164.2	177,473.3	180,845.3	184,281.4	187,782.7	191,350.6	194,986.3
Year 3				127,058.1				0.3249	66,999.2	99,478.0	101,368.1	103,294.1	105,256.7	107,256.6	109,294.4	111,371.0	113,487.1	115,643.3	117,840.6
Year 4				0.0															
Year 5				0.0															
				381,997.5					206,186.9										
AFUDC					56,365.2														
In-service cost						644,550													
CCCT170G1	2067	12	273,920	519,520	88,275	881,714	881,589	1.9%	3										
Escalation								273,920.0											
Year 1				11,166.1				0.02278	6,240.1	9,265.1	9,441.1	9,620.5	9,803.3	9,989.6	10,179.4	10,372.8	10,569.9	10,770.7	10,975.3
Year 2				139,714.2				0.27684	75,832.4	112,593.3	114,732.6	116,912.5	119,133.9	121,397.4	123,703.9	126,054.3	128,449.4	130,889.9	133,376.8
Year 3				197,828.0				0.38083	104,316.9	154,886.1	157,829.0	160,827.7	163,883.4	166,997.2	170,170.2	173,403.4	176,698.1	180,055.3	183,476.4
Year 4				170,811.2				0.31955	87,530.6	129,962.4	132,431.7	134,947.9	137,511.9	140,124.6	142,787.0	145,500.0	148,264.5	151,081.5	153,952.0
Year 5				0.0															
				519,519.6					273,920.0										
AFUDC					88,274.7														
In-service cost						881,714													

Note: 1. The difference between Calculated In-service cost and Strategist in-service cost is due to roundir
2. A single escalation factor for all years by project was used, as required by Strategist.
This number represents the CAGR of the escalation series over the study period.
3. Unless otherwise noted, base dollar estimates are in 2010$

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 ISOLATED ISLAND ALTERNATIVE ($000)

AFUDC 7.53%			CapCost			Calculated	Strategist	Construction	Construction Start										
	InSvcyr	InSvcMo	In	Escalation	AFUDC	InSvcCost	InSvcCost	Escalation[2]	Month	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049
ESCALATION and AFUDC																			
Escalation Rates																			
CT Escalation	2.0%																		
CCCT Escalation	1.9%																		
Hydro Escalation	1.9%																		
Wind Escalation	2.00%																		
ISLAND POND	2015	11	166,220	15,033	17,874	199,126	199,118	1.9%	4										
Escalation								166,220.0											
Year 1				236.6				0.0295	4,906.7										
Year 2				2,786.9				0.2461	40,898.9										
Year 3				4,833.3				0.3288	54,653.3										
Year 4				7,175.6				0.3956	65,761.1										
Year 5				0.0															
				15,032.5					166,220.0										
AFUDC					17,873.6														
In-service cost						199,126													
HRD ESP	2015	7	581,976	0	0	581,976	581,976		1										
Escalation																			
Year 1			Escalation and AFUDC calculated in Capital Budget Proposal sheet outside of Strategist																
Year 2																			
Year 3																			
Year 4																			
Year 5																			
AFUDC																			
In-service cost																			
HRD UPG	2016	12	100,000	0	0	100,000	100,000		1										
Escalation																			
Year 1			Escalation and AFUDC were included in the original estimate, outside of Strategist.																
Year 2																			
Year 3																			
Year 4																			
Year 5																			

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 ISOLATED ISLAND ALTERNATIVE ($000)

AFUDC	7.53%			CapCost			Calculated	Strategist	Construction	Construction Start										
		InSvcyr	InSvcMo	In	Escalation	AFUDC	InSvcCost	InSvcCost	Escalation[2]	Month	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049
	AFUDC																			
	In-service cost																			
										Estimates from Hydro's 20-year Budget; assumes AFUDC in estimat										
HRD LOW Nox		2017	12	17,500	2,317	0	19,817	19,816	1.9%	1										
	Escalation								17,500.0											
	Year 1				555.7				0.2910	5,092.5										
	Year 2				729.1				0.3200	5,600.0										
	Year 3				1,032.4				0.3890	6,807.5										
	Year 4				0.0															
	Year 5				0.0															
					2,317.2					17,500.0										
	AFUDC					0.0														
	In-service cost						19,817													
PORTLAND		2018	12	89,909	14,998	6,034	110,941	110,936	1.9%	1										
	Escalation								89,909.0											
	Year 1				505.6				0.0432	3,883.5										
	Year 2				3,027.2				0.2220	19,960.0										
	Year 3				11,465.4				0.7348	66,065.6										
	Year 4				0.0															
	Year 5				0.0															
					14,998.1					89,909.0										
	AFUDC					6,033.9														
	In-service cost						110,941													
										Estimates from Hydro's 20-year Budget; assumes AFUDC in estimat										
HRD ISOL1		2019	12	105,190	15,788	0	120,978	120,973	1.9%	1										
	Escalation								105,190.0											
	Year 1				3,202.4				0.2790	29,348.0										
	Year 2				1,451.6				0.1060	11,150.1										
	Year 3				3,765.0				0.2360	24,824.8										
	Year 4				3,413.7				0.187	19,670.5										
	Year 5				3,955.3				0.192	20,196.5										
					15,788.1					105,190.0										
	AFUDC					0.0														
	In-service cost						120,978													
ROUND POND		2029	12	142,192	29,006	14,165	185,363	185,355	0.0%	1										
	Escalation								142,192.0											

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 ISOLATED ISLAND ALTERNATIVE ($000)

AFUDC **7.53%**			CapCost		Calculated		Strategist	Construction	Construction Start										
	InSvcyr	InSvcMo	In	Escalation	AFUDC	InSvcCost	InSvcCost	Escalation[2]	Month	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049
Year 1				2,094.7				0.0849	12,070.1										
Year 2				13,174.3				0.4731	67,270.1										
Year 3				13,737.1				0.4420	62,851.8										
Year 4				0.0															
Year 5				0.0															
				29,006.2					142,192.0										
AFUDC					14,164.7														
In-service cost						185,363													
CCCT 170	2022	12	206,187	50,764	24,623	281,574	281,562	1.9%	1										
Escalation								206,187.0											
Year 1				6,191.2				0.1374	28,326.8										
Year 2				26,796.9				0.5377	110,860.9										
Year 3				17,775.5				0.3249	66,999.2										
Year 4				0.0															
Year 5				0.0															
				50,763.6					206,186.9										
AFUDC					24,623.3														
In-service cost						281,574													

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 ISOLATED ISLAND ALTERNATIVE ($000)

AFUDC **7.53%**	InSvcyr	InSvcMo	CapCost In	Escalation	AFUDC	Calculated InSvcCost	Strategist InSvcCost	Construction Escalation[2]	Construction Start Month	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049
GT50	2024	12	65,137	21,179	4,810	91,125	91,125	2.0%	4										
Escalation								65,137.0											
Year 1				192.1				0.0105	683.9										
Year 2				5,339.2				0.2674	17,417.6										
Year 3				15,647.4				0.7221	47,035.4										
Year 4				0.0															
Year 5				0.0															
				21,178.8					65,137.0										
AFUDC					4,809.5														
In-service cost						91,125													

Estimates from Hydro's 20-year Budget; assumes AFUDC in estimat

HRD ISOL2	2024	12	6,832	1,716	0	8,548	8,548	1.9%	1											
Escalation								6,825.0												
Year 1				634.0				0.4250	2,900.6											
Year 2				344.8				0.2090	1,426.4											
Year 3				266.2				0.1470	1,003.3											
Year 4				0.0				0	0.0											
Year 5				471.2				0.22	1,501.5											
				1,716.2					6,831.8											
AFUDC					0.0															
In-service cost						8,548														

GT50	2027	12	65,137	26,462	5,104	96,703	96,698	2.0%	4											
Escalation								65,137.0												
Year 1				245.8				0.0105	683.9											
Year 2				6,732.2				0.2674	17,417.6											
Year 3				19,484.1				0.7221	47,035.4											
Year 4				0.0																
Year 5				0.0																
				26,462.0					65,137.0											
AFUDC					5,103.9															
In-service cost						96,703														

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 ISOLATED ISLAND ALTERNATIVE ($000)

AFUDC **7.53%**	InSvcyr	InSvcMo	CapCost In	Escalation	AFUDC	Calculated InSvcCost	Strategist InSvcCost	Construction Escalation[2]	Construction Start Month	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049
WIND2x27	2028	10	125,458	54,336	9,099	188,893	188,884	2.0%	1										
Escalation								125,458.0											
Year 1				17,323.4				0.3333	41,819.3										
Year 2				37,012.5				0.6667	83,638.7										
Year 3				0.0															
Year 4				0.0															
Year 5				0.0															
				54,335.9					125,458.0										
AFUDC					9,099.5														
In-service cost						188,893													

Estimates from Hydro's 20-year Budget; assumes AFUDC in estimat

HRD ISOL3	2029	12	2,550	1,127	0	3,677	3,608	1.9%	1										
Escalation								2,550.0											
Year 1				18.6				0.0200	51.0										
Year 2				0.0				0.0000	0.0										
Year 3				0.0				0.0000	0.0										
Year 4				1,108.3				0.98	2,499.0										
Year 5				0.0															
				1,126.9					2,550.0										
AFUDC					0.0														
In-service cost						3,677													

GT50	2030	12	65,137	32,069	5,416	102,622	102,617	2.0%	4										
Escalation								65,137.0											
Year 1				302.7				0.0105	683.9										
Year 2				8,210.3				0.2674	17,417.6										
Year 3				23,555.7				0.7221	47,035.4										
Year 4				0.0															
Year 5				0.0															
				32,068.6					65,137.0										
AFUDC					5,416.3														
In-service cost						102,622													

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 ISOLATED ISLAND ALTERNATIVE ($000)

AFUDC **7.53%**	InSvcyr	InSvcMo	CapCost In	Escalation	AFUDC	Calculated InSvcCost	Strategist InSvcCost	Construction Escalation[2]	Construction Start Month	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049
CCCT7170G2	2033	12	206,187	109,870	30,287	346,344	346,330	1.9%	1										
Escalation								206,187.0											
Year 1				14,131.4				0.1374	28,326.8										
Year 2				58,462.4				0.5377	110,860.9										
Year 3				37,276.2				0.3249	66,999.2										
Year 4				0.0															
Year 5				0.0															
				109,870.1					206,186.9										
AFUDC					30,287.4														
In-service cost						346,344													
CCCT170G1	2033	12	273,920	144,480	46,549	464,949	464,883	1.9%	3										
Escalation								273,920.0											
Year 1				2,938.6				0.0228	6,240.1										
Year 2				37,830.6				0.2768	75,832.4										
Year 3				55,011.4				0.3808	104,316.9										
Year 4				48,699.3				0.3195	87,530.6										
Year 5				0.0															
				144,479.9					273,920.0										
AFUDC					46,549.4														
In-service cost						464,949													
WIND25	2034	10	58,082	35,657	4,744	98,483	98,478	2.0%	1										
Escalation								58,082.0											
Year 1				11,474.5				0.3333	19,360.7										
Year 2				24,182.3				0.6667	38,721.3										
Year 3				0.0															
Year 4				0.0															
Year 5				0.0															
				35,656.8					58,082.0										
AFUDC					4,744.2														
In-service cost						98,483													

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 ISOLATED ISLAND ALTERNATIVE ($000)

AFUDC 7.53%	InSvcyr	InSvcMo	CapCost In	Escalation	AFUDC	Calculated InSvcCost	Strategist InSvcCost	Construction Escalation[2]	Construction Start Month	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049
CCCT170G1	2036	12	273,920	168,785	49,253	491,958	491,888	1.9%	3										
Escalation								273,920.0											
Year 1				3,471.8				0.02278	6,240.1										
Year 2				44,433.2				0.27684	75,832.4										
Year 3				64,266.8				0.38083	104,316.9										
Year 4				56,612.9				0.31955	87,530.6										
Year 5				0.0															
				168,784.7					273,920.0										
AFUDC					49,253.4														
In-service cost						491,958													
GT50	2042	12	65,137	58,143	6,869	130,149	130,143	2.0%	4										
Escalation								65,137.0											
Year 1				567.3				0.0105	683.9	1,251.2				1,251.2					
Year 2				15,084.8				0.2674	17,417.6	32,180.6	32,502.4			32,502.4					
Year 3				42,491.1				0.7221	47,035.4	86,902.1	88,640.2	89,526.6		89,526.6					
Year 4				0.0															
Year 5				0.0															
				58,143.3					65,137.0										
AFUDC					6,869.2					35.3	1,320.6	5,513.2		6,869.2					
In-service cost						130,149				1,286.6	33,823.0	95,039.8		**130,149**					
GT50	2046	12	65,137	68,306	7,435	140,878	140,871	2.0%	4										
Escalation								65,137.0											
Year 1				670.5				0.0105	683.9	1,263.6	1,288.9	1,314.7	1,341.0	1,354.4				1,354.4	
Year 2				17,764.0				0.2674	17,417.6	32,180.6	32,824.2	33,480.7	34,150.3	34,833.3	35,181.7			35,181.7	
Year 3				49,871.0				0.7221	47,035.4	86,902.1	88,640.2	90,413.0	92,221.2	94,065.7	95,947.0	96,906.4		96,906.4	
Year 4				0.0															
Year 5				0.0															
				68,305.5					65,137.0										
AFUDC					7,435.4									38.2	1,429.5	5,967.7		7,435.4	
In-service cost						140,878								1,392.6	36,611.1	102,874.1		**140,878**	

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 ISOLATED ISLAND ALTERNATIVE ($000)

AFUDC **7.53%**	InSvcyr	InSvcMo	CapCost In	Escalation	AFUDC	Calculated InSvcCost	Strategist InSvcCost	Construction Escalation[2]	Construction Start Month	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049
WIND2x27	2048	10	125,458	141,706	13,521	280,686	280,672	2.0%	1										
Escalation								125,458.0											
Year 1				46,063.7				0.3333	41,819.3	77,264.9	78,810.2	80,386.4	81,994.2	83,634.0	85,306.7	87,012.9	87,883.0		
Year 2				95,642.6				0.6667	83,638.7	154,529.9	157,620.5	160,772.9	163,988.3	167,268.1	170,613.5	174,025.7	177,506.2	179,281.3	
Year 3				0.0													0.0	0.0	0.0
Year 4				0.0															
Year 5				0.0															
				141,706.3					125,458.0										
AFUDC					13,521.3												3,308.8	10,212.5	0.0
In-service cost						280,686											91,191.8	189,493.8	0.0
GT50	2049	12	65,137	76,473	7,890	149,501	149,493	2.0%	4										
Escalation								65,137.0											
Year 1				753.4				0.0105	683.9	1,263.6	1,288.9	1,314.7	1,341.0	1,367.8	1,395.2	1,423.1	1,437.3		
Year 2				19,917.4				0.2674	17,417.6	32,180.6	32,824.2	33,480.7	34,150.3	34,833.3	35,530.0	36,240.6	36,965.4	37,335.1	
Year 3				55,802.5				0.7221	47,035.4	86,902.1	88,640.2	90,413.0	92,221.2	94,065.7	95,947.0	97,865.9	99,823.2	101,819.7	102,837.9
Year 4				0.0															
Year 5				0.0															
				76,473.3					65,137.0										
AFUDC					7,890.5												40.6	1,516.9	6,333.0
In-service cost						149,501											1,477.9	38,852.0	109,170.9
CCCT170G2	2050	12	206,187	229,051	41,708	476,946	476,925	1.9%	1										
Escalation								206,187.0											
Year 1				30,141.8				0.1374	28,326.8	50,768.9	51,733.5	52,716.4	53,718.0	54,738.7	55,778.7	56,838.5	57,918.4	58,468.7	
Year 2				122,311.9				0.5377	110,860.9	198,691.0	202,466.1	206,313.0	210,232.9	214,227.4	218,297.7	222,445.3	226,671.8	230,978.6	233,172.9
Year 3				76,597.1				0.3249	66,999.2	120,079.5	122,361.1	124,685.9	127,054.9	129,469.0	131,928.9	134,435.5	136,989.8	139,592.6	142,244.9
Year 4				0.0															
Year 5				0.0															
				229,050.8					206,186.9										
AFUDC					41,708.4													2,201.3	13,347.4
In-service cost						476,946												60,670.0	246,520.3

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 ISOLATED ISLAND ALTERNATIVE ($000)

AFUDC 7.53%	InSvcyr	InSvcMo	CapCost In	Escalation	AFUDC	Calculated InSvcCost	Strategist InSvcCost	Construction Escalation[2]	Construction Start Month	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049
CCCT170G1	2052	12	273,920	324,355	66,562	664,837	664,743	1.9%	3										
Escalation								273,920.0											
Year 1				6,884.7				0.02278	6,240.1	11,183.9	11,396.4	11,612.9	11,833.5	12,058.4	12,287.5	12,520.9	12,758.8	13,001.2	13,124.8
Year 2				86,695.7				0.27684	75,832.4	135,911.0	138,493.3	141,124.6	143,806.0	146,538.3	149,322.6	152,159.7	155,050.7	157,996.7	160,998.6
Year 3				123,508.7				0.38083	104,316.9	186,962.4	190,514.7	194,134.5	197,823.1	201,581.7	205,411.8	209,314.6	213,291.6	217,344.1	221,473.6
Year 4				107,266.3				0.31955	87,530.6	156,877.1	159,857.8	162,895.1	165,990.1	169,143.9	172,357.6	175,632.4	178,969.4	182,369.9	185,834.9
Year 5				0.0															
				324,355.3					273,920.0										
AFUDC					66,561.6														411.8
In-service cost						664,837													13,536.6
WIND25	2054	10	58,082	81,209	7,050	146,340	146,333	2.0%	1										
Escalation								58,082.0											
Year 1				26,458.7				0.3333	19,360.7	35,770.6	36,486.0	37,215.7	37,960.0	38,719.2	39,493.6	40,283.5	41,089.1	41,910.9	42,749.1
Year 2				54,750.2				0.6667	38,721.3	71,541.1	72,971.9	74,431.4	75,920.0	77,438.4	78,987.2	80,566.9	82,178.2	83,821.8	85,498.2
Year 3				0.0															
Year 4				0.0															
Year 5				0.0															
				81,208.9					58,082.0										
AFUDC					7,049.6														
In-service cost						146,340													
CCCT170G2	2056	12	206,187	281,085	46,695	533,967	533,945	1.9%	1										
Escalation								206,187.0											
Year 1				37,132.0				0.1374	28,326.8	50,768.9	51,733.5	52,716.4	53,718.0	54,738.7	55,778.7	56,838.5	57,918.4	59,018.9	60,140.2
Year 2				150,188.7				0.5377	110,860.9	198,691.0	202,466.1	206,313.0	210,232.9	214,227.4	218,297.7	222,445.3	226,671.8	230,978.6	235,367.2
Year 3				93,764.6				0.3249	66,999.2	120,079.5	122,361.1	124,685.9	127,054.9	129,469.0	131,928.9	134,435.5	136,989.8	139,592.6	142,244.9
Year 4				0.0															
Year 5				0.0															
				281,085.3					206,186.9										
AFUDC					46,694.8														
In-service cost						533,967													

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 ISOLATED ISLAND ALTERNATIVE ($000)

AFUDC 7.53%	InSvcyr	InSvcMo	CapCost In	Escalation	AFUDC	Calculated InSvcCost	Strategist InSvcCost	Construction Escalation[2]	Construction Start Month	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049
GT2x50	2063	12	130,274	243,429	20,823	394,526	394,506	2.0%	4										
Escalation								130,274.0											
Year 1				2,425.1				0.0105	1,367.9	2,527.3	2,577.8	2,629.4	2,682.0	2,735.6	2,790.3	2,846.1	2,903.0	2,961.1	3,020.3
Year 2				63,690.4				0.2674	34,835.3	64,361.3	65,648.5	66,961.4	68,300.7	69,666.7	71,060.0	72,481.2	73,930.8	75,409.5	76,917.7
Year 3				177,314.0				0.7221	94,070.9	173,804.3	177,280.3	180,826.0	184,442.5	188,131.3	191,893.9	195,731.8	199,646.5	203,639.4	207,712.2
Year 4				0.0															
Year 5				0.0															
				243,429.5					130,274.0										
AFUDC					20,822.7														
In-service cost						394,526													
CCCG170G1	2063	12	273,920	461,977	81,873	817,770	817,654	1.9%	3										
Escalation								273,920.0											
Year 1				9,903.8				0.02278	6,240.1	11,183.9	11,396.4	11,612.9	11,833.5	12,058.4	12,287.5	12,520.9	12,758.8	13,001.2	13,248.3
Year 2				124,082.2				0.27684	75,832.4	135,911.0	138,493.3	141,124.6	143,806.0	146,538.3	149,322.6	152,159.7	155,050.7	157,996.7	160,998.6
Year 3				175,915.6				0.38083	104,316.9	186,962.4	190,514.7	194,134.5	197,823.1	201,581.7	205,411.8	209,314.6	213,291.6	217,344.1	221,473.6
Year 4				152,075.6				0.31955	87,530.6	156,877.1	159,857.8	162,895.1	165,990.1	169,143.9	172,357.6	175,632.4	178,969.4	182,369.9	185,834.9
Year 5				0.0															
				461,977.1					273,920.0										
AFUDC					81,872.8														
In-service cost						817,770													
GT50	2064	12	65,137	125,452	10,620	201,208	201,198	2.0%	4										
Escalation								65,137.0											
Year 1				1,250.5				0.0105	683.9	1,263.6	1,288.9	1,314.7	1,341.0	1,367.8	1,395.2	1,423.1	1,451.5	1,480.6	1,510.2
Year 2				32,830.5				0.2674	17,417.6	32,180.6	32,824.2	33,480.7	34,150.3	34,833.3	35,530.0	36,240.6	36,965.4	37,704.7	38,458.8
Year 3				91,370.8				0.7221	47,035.4	86,902.1	88,640.2	90,413.0	92,221.2	94,065.7	95,947.0	97,865.9	99,823.2	101,819.7	103,856.1
Year 4				0.0															
Year 5				0.0															
				125,451.8					65,137.0										
AFUDC					10,619.6														
In-service cost						201,208													

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 ISOLATED ISLAND ALTERNATIVE ($000)

AFUDC 7.53%	InSvcyr	InSvcMo	CapCost In	Escalation	AFUDC	Calculated InSvcCost	Strategist InSvcCost	Construction Escalation[2]	Construction Start Month	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049
CCCT170G2	2066	12	206,187	381,997	56,365	644,550	644,523	1.9%	1										
Escalation								206,187.0											
Year 1				50,688.3				0.1374	28,326.8	50,768.9	51,733.5	52,716.4	53,718.0	54,738.7	55,778.7	56,838.5	57,918.4	59,018.9	60,140.2
Year 2				204,251.1				0.5377	110,860.9	198,691.0	202,466.1	206,313.0	210,232.9	214,227.4	218,297.7	222,445.3	226,671.8	230,978.6	235,367.2
Year 3				127,058.1				0.3249	66,999.2	120,079.5	122,361.1	124,685.9	127,054.9	129,469.0	131,928.9	134,435.5	136,989.8	139,592.6	142,244.9
Year 4				0.0															
Year 5				0.0															
				381,997.5					206,186.9										
AFUDC					56,365.2														
In-service cost						644,550													
CCCT170G1	2067	12	273,920	519,520	88,275	881,714	881,589	1.9%	3										
Escalation								273,920.0											
Year 1				11,166.1				0.02278	6,240.1	11,183.9	11,396.4	11,612.9	11,833.5	12,058.4	12,287.5	12,520.9	12,758.8	13,001.2	13,248.3
Year 2				139,714.2				0.27684	75,832.4	135,911.0	138,493.3	141,124.6	143,806.0	146,538.3	149,322.6	152,159.7	155,050.7	157,996.7	160,998.6
Year 3				197,828.0				0.38083	104,316.9	186,962.4	190,514.7	194,134.5	197,823.1	201,581.7	205,411.8	209,314.6	213,291.6	217,344.1	221,473.6
Year 4				170,811.2				0.31955	87,530.6	156,877.1	159,857.8	162,895.1	165,990.1	169,143.9	172,357.6	175,632.4	178,969.4	182,369.9	185,834.9
Year 5				0.0															
				519,519.6					273,920.0										
AFUDC					88,274.7														
In-service cost						881,714													

Note: 1. The difference between Calculated In-service cost and Strategist in-service cost is due to roundir
2. A single escalation factor for all years by project was used, as required by Strategist.
This number represents the CAGR of the escalation series over the study period.
3. Unless otherwise noted, base dollar estimates are in 2010$

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 ISOLATED ISLAND ALTERNATIVE ($000)

AFUDC 7.53%			CapCost			Calculated	Strategist	Construction	Construction Start											
	InSvcyr	InSvcMo	In	Escalation	AFUDC	InSvcCost	InSvcCost	Escalation[2]	Month	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059

ESCALATION and AFUDC

Escalation Rates

CT Escalation	2.0%
CCCT Escalation	1.9%
Hydro Escalation	1.9%
Wind Escalation	2.00%

ISLAND POND	2015	11	166,220	15,033	17,874	199,126	199,118	1.9%	4
Escalation								166,220.0	
Year 1				236.6				0.0295	4,906.7
Year 2				2,786.9				0.2461	40,898.9
Year 3				4,833.3				0.3288	54,653.3
Year 4				7,175.6				0.3956	65,761.1
Year 5				0.0					
				15,032.5					166,220.0
AFUDC					17,873.6				
In-service cost						199,126			

HRD ESP	2015	7	581,976	0	0	581,976	581,976		1
Escalation									
Year 1			Escalation and AFUDC calculated in Capital Budget Proposal sheet outside of Strategist						
Year 2									
Year 3									
Year 4									
Year 5									
AFUDC									
In-service cost									

HRD UPG	2016	12	100,000	0	0	100,000	100,000		1
Escalation									
Year 1			Escalation and AFUDC were included in the original estimate, outside of Strategist.						
Year 2									
Year 3									
Year 4									
Year 5									

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 ISOLATED ISLAND ALTERNATIVE ($000)

AFUDC	7.53%			CapCost			Calculated	Strategist	Construction	Start											
		InSvcyr	InSvcMo	In	Escalation	AFUDC	InSvcCost	InSvcCost	Escalation[2]	Month	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059
	AFUDC																				
	In-service cost																				
						Estimates from Hydro's 20-year Budget; assumes AFUDC in estimat															
HRD LOW Nox		2017	12	17,500	2,317	0	19,817	19,816	1.9%	1											
	Escalation								17,500.0												
	Year 1				555.7				0.2910	5,092.5											
	Year 2				729.1				0.3200	5,600.0											
	Year 3				1,032.4				0.3890	6,807.5											
	Year 4				0.0																
	Year 5				0.0																
					2,317.2					17,500.0											
	AFUDC					0.0															
	In-service cost						19,817														
PORTLAND		2018	12	89,909	14,998	6,034	110,941	110,936	1.9%	1											
	Escalation								89,909.0												
	Year 1				505.6				0.0432	3,883.5											
	Year 2				3,027.2				0.2220	19,960.0											
	Year 3				11,465.4				0.7348	66,065.6											
	Year 4				0.0																
	Year 5				0.0																
					14,998.1					89,909.0											
	AFUDC					6,033.9															
	In-service cost						110,941														
						Estimates from Hydro's 20-year Budget; assumes AFUDC in estimat															
HRD ISOL1		2019	12	105,190	15,788	0	120,978	120,973	1.9%	1											
	Escalation								105,190.0												
	Year 1				3,202.4				0.2790	29,348.0											
	Year 2				1,451.6				0.1060	11,150.1											
	Year 3				3,765.0				0.2360	24,824.8											
	Year 4				3,413.7				0.187	19,670.5											
	Year 5				3,955.3				0.192	20,196.5											
					15,788.1					105,190.0											
	AFUDC					0.0															
	In-service cost						120,978														
ROUND POND		2029	12	142,192	29,006	14,165	185,363	185,355	0.0%	1											
	Escalation								142,192.0												

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 ISOLATED ISLAND ALTERNATIVE ($000)

AFUDC **7.53%**			CapCost			Calculated	Strategist	Construction	Construction Start											
	InSvcyr	InSvcMo	In	Escalation	AFUDC	InSvcCost	InSvcCost	Escalation[2]	Month	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059
Year 1				2,094.7				0.0849	12,070.1										
Year 2				13,174.3				0.4731	67,270.1										
Year 3				13,737.1				0.4420	62,851.8										
Year 4				0.0															
Year 5				0.0															
				29,006.2					142,192.0										
AFUDC					14,164.7														
In-service cost						185,363													
CCCT 170	2022	12	206,187	50,764	24,623	281,574	281,562	1.9%	1										
Escalation								206,187.0											
Year 1				6,191.2				0.1374	28,326.8										
Year 2				26,796.9				0.5377	110,860.9										
Year 3				17,775.5				0.3249	66,999.2										
Year 4				0.0															
Year 5				0.0															
				50,763.6					206,186.9										
AFUDC					24,623.3														
In-service cost						281,574													

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 ISOLATED ISLAND ALTERNATIVE ($000)

AFUDC **7.53%**	InSvcyr	InSvcMo	CapCost In	Escalation	AFUDC	Calculated InSvcCost	Strategist InSvcCost	Construction Escalation[2]	Construction Start Month	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059
GT50	2024	12	65,137	21,179	4,810	91,125	91,125	2.0%	4										
Escalation								65,137.0											
Year 1				192.1				0.0105	683.9										
Year 2				5,339.2				0.2674	17,417.6										
Year 3				15,647.4				0.7221	47,035.4										
Year 4				0.0															
Year 5				0.0															
				21,178.8					65,137.0										
AFUDC					4,809.5														
In-service cost						91,125													

Estimates from Hydro's 20-year Budget; assumes AFUDC in estimat

HRD ISOL2	2024	12	6,832	1,716	0	8,548	8,548	1.9%	1										
Escalation								6,825.0											
Year 1				634.0				0.4250	2,900.6										
Year 2				344.8				0.2090	1,426.4										
Year 3				266.2				0.1470	1,003.3										
Year 4				0.0				0	0.0										
Year 5				471.2				0.22	1,501.5										
				1,716.2					6,831.8										
AFUDC					0.0														
In-service cost						8,548													

GT50	2027	12	65,137	26,462	5,104	96,703	96,698	2.0%	4										
Escalation								65,137.0											
Year 1				245.8				0.0105	683.9										
Year 2				6,732.2				0.2674	17,417.6										
Year 3				19,484.1				0.7221	47,035.4										
Year 4				0.0															
Year 5				0.0															
				26,462.0					65,137.0										
AFUDC					5,103.9														
In-service cost						96,703													

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 ISOLATED ISLAND ALTERNATIVE ($000)

AFUDC **7.53%**	InSvcyr	InSvcMo	CapCost In	Escalation	AFUDC	Calculated InSvcCost	Strategist InSvcCost	Construction Escalation[2]	Construction Start Month	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059
WIND2x27	2028	10	125,458	54,336	9,099	188,893	188,884	2.0%	1										
Escalation								125,458.0											
Year 1				17,323.4				0.3333	41,819.3										
Year 2				37,012.5				0.6667	83,638.7										
Year 3				0.0															
Year 4				0.0															
Year 5				0.0															
				54,335.9					125,458.0										
AFUDC					9,099.5														
In-service cost						188,893													

Estimates from Hydro's 20-year Budget; assumes AFUDC in estimat

HRD ISOL3	2029	12	2,550	1,127	0	3,677	3,608	1.9%	1										
Escalation								2,550.0											
Year 1				18.6				0.0200	51.0										
Year 2				0.0				0.0000	0.0										
Year 3				0.0				0.0000	0.0										
Year 4				1,108.3				0.98	2,499.0										
Year 5				0.0															
				1,126.9					2,550.0										
AFUDC					0.0														
In-service cost						3,677													

GT50	2030	12	65,137	32,069	5,416	102,622	102,617	2.0%	4										
Escalation								65,137.0											
Year 1				302.7				0.0105	683.9										
Year 2				8,210.3				0.2674	17,417.6										
Year 3				23,555.7				0.7221	47,035.4										
Year 4				0.0															
Year 5				0.0															
				32,068.6					65,137.0										
AFUDC					5,416.3														
In-service cost						102,622													

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 ISOLATED ISLAND ALTERNATIVE ($000)

AFUDC **7.53%**	InSvcyr	InSvcMo	CapCost In	Escalation	AFUDC	Calculated InSvcCost	Strategist InSvcCost	Construction Escalation[2]	Construction Start Month	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059
CCCT7170G2	2033	12	206,187	109,870	30,287	346,344	346,330	1.9%	1										
Escalation								206,187.0											
Year 1				14,131.4				0.1374	28,326.8										
Year 2				58,462.4				0.5377	110,860.9										
Year 3				37,276.2				0.3249	66,999.2										
Year 4				0.0															
Year 5				0.0															
				109,870.1					206,186.9										
AFUDC					30,287.4														
In-service cost						346,344													
CCCT170G1	2033	12	273,920	144,480	46,549	464,949	464,883	1.9%	3										
Escalation								273,920.0											
Year 1				2,938.6				0.0228	6,240.1										
Year 2				37,830.6				0.2768	75,832.4										
Year 3				55,011.4				0.3808	104,316.9										
Year 4				48,699.3				0.3195	87,530.6										
Year 5				0.0															
				144,479.9					273,920.0										
AFUDC					46,549.4														
In-service cost						464,949													
WIND25	2034	10	58,082	35,657	4,744	98,483	98,478	2.0%	1										
Escalation								58,082.0											
Year 1				11,474.5				0.3333	19,360.7										
Year 2				24,182.3				0.6667	38,721.3										
Year 3				0.0															
Year 4				0.0															
Year 5				0.0															
				35,656.8					58,082.0										
AFUDC					4,744.2														
In-service cost						98,483													

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 ISOLATED ISLAND ALTERNATIVE ($000)

AFUDC **7.53%**	InSvcyr	InSvcMo	CapCost In	Escalation	AFUDC	Calculated InSvcCost	Strategist InSvcCost	Construction Escalation[2]	Construction Start Month	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059
CCCT170G1	2036	12	273,920	168,785	49,253	491,958	491,888	1.9%	3										
Escalation								273,920.0											
Year 1				3,471.8				0.02278	6,240.1										
Year 2				44,433.2				0.27684	75,832.4										
Year 3				64,266.8				0.38083	104,316.9										
Year 4				56,612.9				0.31955	87,530.6										
Year 5				0.0															
				168,784.7					273,920.0										
AFUDC					49,253.4														
In-service cost						491,958													
GT50	2042	12	65,137	58,143	6,869	130,149	130,143	2.0%	4										
Escalation								65,137.0											
Year 1				567.3				0.0105	683.9										
Year 2				15,084.8				0.2674	17,417.6										
Year 3				42,491.1				0.7221	47,035.4										
Year 4				0.0															
Year 5				0.0															
				58,143.3					65,137.0										
AFUDC					6,869.2														
In-service cost						130,149													
GT50	2046	12	65,137	68,306	7,435	140,878	140,871	2.0%	4										
Escalation								65,137.0											
Year 1				670.5				0.0105	683.9										
Year 2				17,764.0				0.2674	17,417.6										
Year 3				49,871.0				0.7221	47,035.4										
Year 4				0.0															
Year 5				0.0															
				68,305.5					65,137.0										
AFUDC					7,435.4														
In-service cost						140,878													

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 ISOLATED ISLAND ALTERNATIVE ($000)

AFUDC **7.53%**	InSvcyr	InSvcMo	CapCost In	Escalation	AFUDC	Calculated InSvcCost	Strategist InSvcCost	Construction Escalation[2]	Construction Start Month	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059
WIND2x27	2048	10	125,458	141,706	13,521	280,686	280,672	2.0%	1										
Escalation								125,458.0											
Year 1				46,063.7				0.3333	41,819.3		87,883.0								
Year 2				95,642.6				0.6667	83,638.7		179,281.3								
Year 3				0.0							0.0								
Year 4				0.0															
Year 5				0.0															
				141,706.3					125,458.0										
AFUDC					13,521.3						13,521.3								
In-service cost						280,686					**280,686**								
GT50	2049	12	65,137	76,473	7,890	149,501	149,493	2.0%	4										
Escalation								65,137.0											
Year 1				753.4				0.0105	683.9		1,437.3								
Year 2				19,917.4				0.2674	17,417.6		37,335.1								
Year 3				55,802.5				0.7221	47,035.4		102,837.9								
Year 4				0.0															
Year 5				0.0															
				76,473.3					65,137.0										
AFUDC					7,890.5						7,890.5								
In-service cost						149,501					**149,501**								
CCCT170G2	2050	12	206,187	229,051	41,708	476,946	476,925	1.9%	1										
Escalation								206,187.0											
Year 1				30,141.8				0.1374	28,326.8			58,468.7							
Year 2				122,311.9				0.5377	110,860.9			233,172.9							
Year 3				76,597.1				0.3249	66,999.2	143,596.2		143,596.2							
Year 4				0.0															
Year 5				0.0															
				229,050.8					206,186.9										
AFUDC					41,708.4					26,159.7		41,708.4							
In-service cost						476,946				169,755.9		**476,946**							

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 ISOLATED ISLAND ALTERNATIVE ($000)

AFUDC **7.53%**	InSvcyr	InSvcMo	CapCost In	Escalation	AFUDC	Calculated InSvcCost	Strategist InSvcCost	Construction Escalation[2]	Construction Start Month	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059
CCCT170G1	2052	12	273,920	324,355	66,562	664,837	664,743	1.9%	3										
Escalation								273,920.0											
Year 1				6,884.7				0.02278	6,240.1				13,124.8						
Year 2				86,695.7				0.27684	75,832.4	162,528.1			162,528.1						
Year 3				123,508.7				0.38083	104,316.9	225,681.6	227,825.6		227,825.6						
Year 4				107,266.3				0.31955	87,530.6	189,365.8	192,963.7	194,796.9	194,796.9						
Year 5				0.0															
				324,355.3					273,920.0										
AFUDC					66,561.6					7,138.5	22,372.8	36,638.5	66,561.6						
In-service cost						664,837				169,666.6	250,198.4	231,435.3	**664,837**						
WIND25	2054	10	58,082	81,209	7,050	146,340	146,333	2.0%	1										
Escalation								58,082.0											
Year 1				26,458.7				0.3333	19,360.7	43,604.1	44,476.2	45,365.7	45,819.4				45,819.4		
Year 2				54,750.2				0.6667	38,721.3	87,208.2	88,952.4	90,731.4	92,546.0	93,471.5			93,471.5		
Year 3				0.0									0.0	0.0	0.0		0.0		
Year 4				0.0															
Year 5				0.0															
				81,208.9					58,082.0										
AFUDC					7,049.6								1,725.1	5,324.5	0.0		7,049.6		
In-service cost						146,340							47,544.5	98,796.0	0.0		**146,340**		
CCCT170G2	2056	12	206,187	281,085	46,695	533,967	533,945	1.9%	1										
Escalation								206,187.0											
Year 1				37,132.0				0.1374	28,326.8	61,282.9	62,447.3	63,633.8	64,842.8	65,458.8				65,458.8	
Year 2				150,188.7				0.5377	110,860.9	239,839.1	244,396.1	249,039.6	253,771.4	258,593.0	261,049.6			261,049.6	
Year 3				93,764.6				0.3249	66,999.2	144,947.5	147,701.5	150,507.9	153,367.5	156,281.5	159,250.9	160,763.7		160,763.7	
Year 4				0.0															
Year 5				0.0															
				281,085.3					206,186.9										
AFUDC					46,694.8									2,464.5	14,943.1	29,287.2		46,694.8	
In-service cost						533,967								67,923.4	275,992.8	190,050.9		**533,967**	

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 ISOLATED ISLAND ALTERNATIVE ($000)

AFUDC **7.53%**	InSvcyr	InSvcMo	CapCost In	Escalation	AFUDC	Calculated InSvcCost	Strategist InSvcCost	Construction Escalation[2]	Construction Start Month	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059
GT2x50	2063	12	130,274	243,429	20,823	394,526	394,506	2.0%	4										
Escalation								130,274.0											
Year 1				2,425.1				0.0105	1,367.9	3,080.7	3,142.3	3,205.2	3,269.3	3,334.7	3,401.4	3,469.4	3,538.8	3,609.6	3,681.8
Year 2				63,690.4				0.2674	34,835.3	78,456.0	80,025.1	81,625.6	83,258.1	84,923.3	86,621.8	88,354.2	90,121.3	91,923.7	93,762.2
Year 3				177,314.0				0.7221	94,070.9	211,866.4	216,103.8	220,425.8	224,834.3	229,331.0	233,917.7	238,596.0	243,367.9	248,235.3	253,200.0
Year 4				0.0															
Year 5				0.0															
				243,429.5					130,274.0										
AFUDC					20,822.7														
In-service cost						394,526													
CCCG170G1	2063	12	273,920	461,977	81,873	817,770	817,654	1.9%	3										
Escalation								273,920.0											
Year 1				9,903.8				0.02278	6,240.1	13,500.0	13,756.5	14,017.9	14,284.2	14,555.6	14,832.2	15,114.0	15,401.1	15,693.8	15,991.9
Year 2				124,082.2				0.27684	75,832.4	164,057.6	167,174.7	170,351.0	173,587.7	176,885.8	180,246.7	183,671.4	187,161.1	190,717.2	194,340.8
Year 3				175,915.6				0.38083	104,316.9	225,681.6	229,969.6	234,339.0	238,791.4	243,328.5	247,951.7	252,662.8	257,463.4	262,355.2	267,340.0
Year 4				152,075.6				0.31955	87,530.6	189,365.8	192,963.7	196,630.0	200,366.0	204,172.9	208,052.2	212,005.2	216,033.3	220,137.9	224,320.6
Year 5				0.0															
				461,977.1					273,920.0										
AFUDC					81,872.8														
In-service cost						817,770													
GT50	2064	12	65,137	125,452	10,620	201,208	201,198	2.0%	4										
Escalation								65,137.0											
Year 1				1,250.5				0.0105	683.9	1,540.4	1,571.2	1,602.6	1,634.6	1,667.3	1,700.7	1,734.7	1,769.4	1,804.8	1,840.9
Year 2				32,830.5				0.2674	17,417.6	39,228.0	40,012.6	40,812.8	41,629.1	42,461.7	43,310.9	44,177.1	45,060.6	45,961.9	46,881.1
Year 3				91,370.8				0.7221	47,035.4	105,933.2	108,051.9	110,212.9	112,417.2	114,665.5	116,958.8	119,298.0	121,684.0	124,117.6	126,600.0
Year 4				0.0															
Year 5				0.0															
				125,451.8					65,137.0										
AFUDC					10,619.6														
In-service cost						201,208													

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 ISOLATED ISLAND ALTERNATIVE ($000)

AFUDC 7.53%	InSvcyr	InSvcMo	CapCost In	Escalation	AFUDC	Calculated InSvcCost	Strategist InSvcCost	Construction Escalation[2]	Construction Start Month	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059
CCCT170G2	2066	12	206,187	381,997	56,365	644,550	644,523	1.9%	1										
Escalation								206,187.0											
Year 1				50,688.3				0.1374	28,326.8	61,282.9	62,447.3	63,633.8	64,842.8	66,074.8	67,330.3	68,609.5	69,913.1	71,241.5	72,595.1
Year 2				204,251.1				0.5377	110,860.9	239,839.1	244,396.1	249,039.6	253,771.4	258,593.0	263,506.3	268,512.9	273,614.6	278,813.3	284,110.8
Year 3				127,058.1				0.3249	66,999.2	144,947.5	147,701.5	150,507.9	153,367.5	156,281.5	159,250.9	162,276.6	165,359.9	168,501.7	171,703.2
Year 4				0.0															
Year 5				0.0															
				381,997.5					206,186.9										
AFUDC					56,365.2														
In-service cost						644,550													
CCCT170G1	2067	12	273,920	519,520	88,275	881,714	881,589	1.9%	3										
Escalation								273,920.0											
Year 1				11,166.1				0.02278	6,240.1	13,500.0	13,756.5	14,017.9	14,284.2	14,555.6	14,832.2	15,114.0	15,401.1	15,693.8	15,991.9
Year 2				139,714.2				0.27684	75,832.4	164,057.6	167,174.7	170,351.0	173,587.7	176,885.8	180,246.7	183,671.4	187,161.1	190,717.2	194,340.8
Year 3				197,828.0				0.38083	104,316.9	225,681.6	229,969.6	234,339.0	238,791.4	243,328.5	247,951.7	252,662.8	257,463.4	262,355.2	267,340.0
Year 4				170,811.2				0.31955	87,530.6	189,365.8	192,963.7	196,630.0	200,366.0	204,172.9	208,052.2	212,005.2	216,033.3	220,137.9	224,320.6
Year 5				0.0															
				519,519.6					273,920.0										
AFUDC					88,274.7														
In-service cost						881,714													

Note: 1. The difference between Calculated In-service cost and Strategist in-service cost is due to roundir
2. A single escalation factor for all years by project was used, as required by Strategist.
This number represents the CAGR of the escalation series over the study period.
3. Unless otherwise noted, base dollar estimates are in 2010$

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 ISOLATED ISLAND ALTERNATIVE ($000)

AFUDC 7.53%	InSvcyr	InSvcMo	CapCost In	Escalation	AFUDC	Calculated InSvcCost	Strategist InSvcCost	Construction Escalation[2]	Construction Start Month	2060	2061	2062	2063	2064	2065	2066	2067
ESCALATION and AFUDC																	
Escalation Rates																	
CT Escalation 2.0%																	
CCCT Escalation 1.9%																	
Hydro Escalation 1.9%																	
Wind Escalation 2.00%																	
ISLAND POND	2015	11	166,220	15,033	17,874	199,126	199,118	1.9%	4								
Escalation								166,220.0									
Year 1				236.6				0.0295	4,906.7								
Year 2				2,786.9				0.2461	40,898.9								
Year 3				4,833.3				0.3288	54,653.3								
Year 4				7,175.6				0.3956	65,761.1								
Year 5				0.0													
				15,032.5					166,220.0								
AFUDC					17,873.6												
In-service cost						199,126											
HRD ESP	2015	7	581,976	0	0	581,976	581,976		1								
Escalation																	
Year 1			Escalation and AFUDC calculated in Capital Budget Proposal sheet outside of Strategist														
Year 2																	
Year 3																	
Year 4																	
Year 5																	
AFUDC																	
In-service cost																	
HRD UPG	2016	12	100,000	0	0	100,000	100,000		1								
Escalation																	
Year 1			Escalation and AFUDC were included in the original estimate, outside of Strategist.														
Year 2																	
Year 3																	
Year 4																	
Year 5																	

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 ISOLATED ISLAND ALTERNATIVE ($000)

AFUDC 7.53%	InSvcyr	InSvcMo	CapCost In	Escalation	AFUDC	Calculated InSvcCost	Strategist InSvcCost	Construction Escalation[2]	Construction Start Month	2060	2061	2062	2063	2064	2065	2066	2067
AFUDC																	
In-service cost																	
				Estimates from Hydro's 20-year Budget; assumes AFUDC in estimat													
HRD LOW Nox	2017	12	17,500	2,317	0	19,817	19,816	1.9%	1								
Escalation								17,500.0									
Year 1				555.7				0.2910	5,092.5								
Year 2				729.1				0.3200	5,600.0								
Year 3				1,032.4				0.3890	6,807.5								
Year 4				0.0													
Year 5				0.0													
				2,317.2					17,500.0								
AFUDC					0.0												
In-service cost						19,817											
PORTLAND	2018	12	89,909	14,998	6,034	110,941	110,936	1.9%	1								
Escalation								89,909.0									
Year 1				505.6				0.0432	3,883.5								
Year 2				3,027.2				0.2220	19,960.0								
Year 3				11,465.4				0.7348	66,065.6								
Year 4				0.0													
Year 5				0.0													
				14,998.1					89,909.0								
AFUDC					6,033.9												
In-service cost						110,941											
				Estimates from Hydro's 20-year Budget; assumes AFUDC in estimat													
HRD ISOL1	2019	12	105,190	15,788	0	120,978	120,973	1.9%	1								
Escalation								105,190.0									
Year 1				3,202.4				0.2790	29,348.0								
Year 2				1,451.6				0.1060	11,150.1								
Year 3				3,765.0				0.2360	24,824.8								
Year 4				3,413.7				0.187	19,670.5								
Year 5				3,955.3				0.192	20,196.5								
				15,788.1					105,190.0								
AFUDC					0.0												
In-service cost						120,978											
ROUND POND	2029	12	142,192	29,006	14,165	185,363	185,355	0.0%	1								
Escalation								142,192.0									

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 ISOLATED ISLAND ALTERNATIVE ($000)

AFUDC **7.53%**	InSvcyr	InSvcMo	CapCost In	Escalation	AFUDC	Calculated InSvcCost	Strategist InSvcCost	Construction Escalation[2]	Construction Start Month	2060	2061	2062	2063	2064	2065	2066	2067
Year 1				2,094.7				0.0849	12,070.1								
Year 2				13,174.3				0.4731	67,270.1								
Year 3				13,737.1				0.4420	62,851.8								
Year 4				0.0													
Year 5				0.0													
				29,006.2					142,192.0								
AFUDC					14,164.7												
In-service cost						185,363											
CCCT 170	2022	12	206,187	50,764	24,623	281,574	281,562	1.9%	1								
Escalation								206,187.0									
Year 1				6,191.2				0.1374	28,326.8								
Year 2				26,796.9				0.5377	110,860.9								
Year 3				17,775.5				0.3249	66,999.2								
Year 4				0.0													
Year 5				0.0													
				50,763.6					206,186.9								
AFUDC					24,623.3												
In-service cost						281,574											

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 ISOLATED ISLAND ALTERNATIVE ($000)

AFUDC **7.53%**	InSvcyr	InSvcMo	CapCost In	Escalation	AFUDC	Calculated InSvcCost	Strategist InSvcCost	Construction Escalation[2]	Construction Start Month	2060	2061	2062	2063	2064	2065	2066	2067
GT50	2024	12	65,137	21,179	4,810	91,125	91,125	2.0%	4								
Escalation								65,137.0									
Year 1				192.1				0.0105	683.9								
Year 2				5,339.2				0.2674	17,417.6								
Year 3				15,647.4				0.7221	47,035.4								
Year 4				0.0													
Year 5				0.0													
				21,178.8					65,137.0								
AFUDC					4,809.5												
In-service cost						91,125											

Estimates from Hydro's 20-year Budget; assumes AFUDC in estimat

HRD ISOL2	2024	12	6,832	1,716	0	8,548	8,548	1.9%	1								
Escalation								6,825.0									
Year 1				634.0				0.4250	2,900.6								
Year 2				344.8				0.2090	1,426.4								
Year 3				266.2				0.1470	1,003.3								
Year 4				0.0				0	0.0								
Year 5				471.2				0.22	1,501.5								
				1,716.2					6,831.8								
AFUDC					0.0												
In-service cost						8,548											

GT50	2027	12	65,137	26,462	5,104	96,703	96,698	2.0%	4								
Escalation								65,137.0									
Year 1				245.8				0.0105	683.9								
Year 2				6,732.2				0.2674	17,417.6								
Year 3				19,484.1				0.7221	47,035.4								
Year 4				0.0													
Year 5				0.0													
				26,462.0					65,137.0								
AFUDC					5,103.9												
In-service cost						96,703											

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 ISOLATED ISLAND ALTERNATIVE ($000)

AFUDC **7.53%**	InSvcyr	InSvcMo	CapCost In	Escalation	AFUDC	Calculated InSvcCost	Strategist InSvcCost	Construction Escalation[2]	Construction Start Month	2060	2061	2062	2063	2064	2065	2066	2067
WIND2x27	2028	10	125,458	54,336	9,099	188,893	188,884	2.0%	1								
Escalation								125,458.0									
Year 1				17,323.4				0.3333	41,819.3								
Year 2				37,012.5				0.6667	83,638.7								
Year 3				0.0													
Year 4				0.0													
Year 5				0.0													
				54,335.9					125,458.0								
AFUDC					9,099.5												
In-service cost						188,893											

Estimates from Hydro's 20-year Budget; assumes AFUDC in estimat

HRD ISOL3	2029	12	2,550	1,127	0	3,677	3,608	1.9%	1								
Escalation								2,550.0									
Year 1				18.6				0.0200	51.0								
Year 2				0.0				0.0000	0.0								
Year 3				0.0				0.0000	0.0								
Year 4				1,108.3				0.98	2,499.0								
Year 5				0.0													
				1,126.9					2,550.0								
AFUDC					0.0												
In-service cost						3,677											

GT50	2030	12	65,137	32,069	5,416	102,622	102,617	2.0%	4								
Escalation								65,137.0									
Year 1				302.7				0.0105	683.9								
Year 2				8,210.3				0.2674	17,417.6								
Year 3				23,555.7				0.7221	47,035.4								
Year 4				0.0													
Year 5				0.0													
				32,068.6					65,137.0								
AFUDC					5,416.3												
In-service cost						102,622											

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 ISOLATED ISLAND ALTERNATIVE ($000)

AFUDC **7.53%**	InSvcyr	InSvcMo	CapCost In	Escalation	AFUDC	Calculated InSvcCost	Strategist InSvcCost	Construction Escalation[2]	Construction Start Month	2060	2061	2062	2063	2064	2065	2066	2067
CCCT7170G2	2033	12	206,187	109,870	30,287	346,344	346,330	1.9%	1								
Escalation								206,187.0									
Year 1				14,131.4				0.1374	28,326.8								
Year 2				58,462.4				0.5377	110,860.9								
Year 3				37,276.2				0.3249	66,999.2								
Year 4				0.0													
Year 5				0.0													
				109,870.1					206,186.9								
AFUDC					30,287.4												
In-service cost						346,344											
CCCT170G1	2033	12	273,920	144,480	46,549	464,949	464,883	1.9%	3								
Escalation								273,920.0									
Year 1				2,938.6				0.0228	6,240.1								
Year 2				37,830.6				0.2768	75,832.4								
Year 3				55,011.4				0.3808	104,316.9								
Year 4				48,699.3				0.3195	87,530.6								
Year 5				0.0													
				144,479.9					273,920.0								
AFUDC					46,549.4												
In-service cost						464,949											
WIND25	2034	10	58,082	35,657	4,744	98,483	98,478	2.0%	1								
Escalation								58,082.0									
Year 1				11,474.5				0.3333	19,360.7								
Year 2				24,182.3				0.6667	38,721.3								
Year 3				0.0													
Year 4				0.0													
Year 5				0.0													
				35,656.8					58,082.0								
AFUDC					4,744.2												
In-service cost						98,483											

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 ISOLATED ISLAND ALTERNATIVE ($000)

AFUDC **7.53%**	InSvcyr	InSvcMo	CapCost In	Escalation	AFUDC	Calculated InSvcCost	Strategist InSvcCost	Construction Escalation[2]	Construction Start Month	2060	2061	2062	2063	2064	2065	2066	2067
CCCT170G1	2036	12	273,920	168,785	49,253	491,958	491,888	1.9%	3								
Escalation								273,920.0									
Year 1				3,471.8				0.02278	6,240.1								
Year 2				44,433.2				0.27684	75,832.4								
Year 3				64,266.8				0.38083	104,316.9								
Year 4				56,612.9				0.31955	87,530.6								
Year 5				0.0													
				168,784.7					273,920.0								
AFUDC					49,253.4												
In-service cost						491,958											
GT50	2042	12	65,137	58,143	6,869	130,149	130,143	2.0%	4								
Escalation								65,137.0									
Year 1				567.3				0.0105	683.9								
Year 2				15,084.8				0.2674	17,417.6								
Year 3				42,491.1				0.7221	47,035.4								
Year 4				0.0													
Year 5				0.0													
				58,143.3					65,137.0								
AFUDC					6,869.2												
In-service cost						130,149											
GT50	2046	12	65,137	68,306	7,435	140,878	140,871	2.0%	4								
Escalation								65,137.0									
Year 1				670.5				0.0105	683.9								
Year 2				17,764.0				0.2674	17,417.6								
Year 3				49,871.0				0.7221	47,035.4								
Year 4				0.0													
Year 5				0.0													
				68,305.5					65,137.0								
AFUDC					7,435.4												
In-service cost						140,878											

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 ISOLATED ISLAND ALTERNATIVE ($000)

AFUDC **7.53%**	InSvcyr	InSvcMo	CapCost In	Escalation	AFUDC	Calculated InSvcCost	Strategist InSvcCost	Construction Escalation[2]	Construction Start Month	2060	2061	2062	2063	2064	2065	2066	2067
WIND2x27	2048	10	125,458	141,706	13,521	280,686	280,672	2.0%	1								
Escalation								125,458.0									
Year 1				46,063.7				0.3333	41,819.3								
Year 2				95,642.6				0.6667	83,638.7								
Year 3				0.0													
Year 4				0.0													
Year 5				0.0													
				141,706.3					125,458.0								
AFUDC					13,521.3												
In-service cost						280,686											
GT50	2049	12	65,137	76,473	7,890	149,501	149,493	2.0%	4								
Escalation								65,137.0									
Year 1				753.4				0.0105	683.9								
Year 2				19,917.4				0.2674	17,417.6								
Year 3				55,802.5				0.7221	47,035.4								
Year 4				0.0													
Year 5				0.0													
				76,473.3					65,137.0								
AFUDC					7,890.5												
In-service cost						149,501											
CCCT170G2	2050	12	206,187	229,051	41,708	476,946	476,925	1.9%	1								
Escalation								206,187.0									
Year 1				30,141.8				0.1374	28,326.8								
Year 2				122,311.9				0.5377	110,860.9								
Year 3				76,597.1				0.3249	66,999.2								
Year 4				0.0													
Year 5				0.0													
				229,050.8					206,186.9								
AFUDC					41,708.4												
In-service cost						476,946											

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 ISOLATED ISLAND ALTERNATIVE ($000)

AFUDC **7.53%**	InSvcyr	InSvcMo	CapCost In	Escalation	AFUDC	Calculated InSvcCost	Strategist InSvcCost	Construction Escalation[2]	Construction Start Month	2060	2061	2062	2063	2064	2065	2066	2067
CCCT170G1	2052	12	273,920	324,355	66,562	664,837	664,743	1.9%	3								
Escalation								273,920.0									
Year 1				6,884.7				0.02278	6,240.1								
Year 2				86,695.7				0.27684	75,832.4								
Year 3				123,508.7				0.38083	104,316.9								
Year 4				107,266.3				0.31955	87,530.6								
Year 5				0.0													
				324,355.3					273,920.0								
AFUDC					66,561.6												
In-service cost						664,837											
WIND25	2054	10	58,082	81,209	7,050	146,340	146,333	2.0%	1								
Escalation								58,082.0									
Year 1				26,458.7				0.3333	19,360.7								
Year 2				54,750.2				0.6667	38,721.3								
Year 3				0.0													
Year 4				0.0													
Year 5				0.0													
				81,208.9					58,082.0								
AFUDC					7,049.6												
In-service cost						146,340											
CCCT170G2	2056	12	206,187	281,085	46,695	533,967	533,945	1.9%	1								
Escalation								206,187.0									
Year 1				37,132.0				0.1374	28,326.8								
Year 2				150,188.7				0.5377	110,860.9								
Year 3				93,764.6				0.3249	66,999.2								
Year 4				0.0													
Year 5				0.0													
				281,085.3					206,186.9								
AFUDC					46,694.8												
In-service cost						533,967											

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 ISOLATED ISLAND ALTERNATIVE ($000)

AFUDC 7.53%	InSvcyr	InSvcMo	CapCost In	Escalation	AFUDC	Calculated InSvcCost	Strategist InSvcCost	Construction Escalation[2]	Construction Start Month	2060	2061	2062	2063	2064	2065	2066	2067
GT2x50	2063	12	130,274	243,429	20,823	394,526	394,506	2.0%	4								
Escalation								130,274.0									
Year 1				2,425.1				0.0105	1,367.9	3,755.4	3,793.0				3,793.0		
Year 2				63,690.4				0.2674	34,835.3	95,637.4	97,550.2	98,525.7			98,525.7		
Year 3				177,314.0				0.7221	94,070.9	258,264.0	263,429.3	268,697.9	271,384.8		271,384.8		
Year 4				0.0													
Year 5				0.0													
				243,429.5					130,274.0								
AFUDC					20,822.7						107.1	4,003.2	16,712.4		20,822.7		
In-service cost						394,526					3,900.1	102,528.8	288,097.3		**394,526**		
CCCG170G1	2063	12	273,920	461,977	81,873	817,770	817,654	1.9%	3								
Escalation								273,920.0									
Year 1				9,903.8				0.02278	6,240.1	16,143.9				16,143.9			
Year 2				124,082.2				0.27684	75,832.4	198,033.3	199,914.6			199,914.6			
Year 3				175,915.6				0.38083	104,316.9	272,419.4	277,595.4	280,232.5		280,232.5			
Year 4				152,075.6				0.31955	87,530.6	228,582.7	232,925.7	237,351.3	239,606.2	239,606.2			
Year 5				0.0													
				461,977.1					273,920.0								
AFUDC					81,872.8					506.5	8,780.6	27,519.3	45,066.5	81,872.8			
In-service cost						817,770				16,650.4	208,695.1	307,751.8	284,672.6	**817,770**			
GT50	2064	12	65,137	125,452	10,620	201,208	201,198	2.0%	4								
Escalation								65,137.0									
Year 1				1,250.5				0.0105	683.9	1,877.7	1,915.3	1,934.4				1,934.4	
Year 2				32,830.5				0.2674	17,417.6	47,818.7	48,775.1	49,750.6	50,248.1			50,248.1	
Year 3				91,370.8				0.7221	47,035.4	129,132.0	131,714.6	134,348.9	137,035.9	138,406.3		138,406.3	
Year 4				0.0													
Year 5				0.0													
				125,451.8					65,137.0								
AFUDC					10,619.6							54.6	2,041.6	8,523.3		10,619.6	
In-service cost						201,208						1,989.0	52,289.7	146,929.6		**201,208**	

NEWFOUNDLAND AND LABRADOR HYDRO GENERATION EXPANSION ANALYSIS
2010 ISOLATED ISLAND ALTERNATIVE ($000)

AFUDC **7.53%**	InSvcyr	InSvcMo	CapCost In	Escalation	AFUDC	Calculated InSvcCost	Strategist InSvcCost	Construction Escalation[2]	Construction Start Month	2060	2061	2062	2063	2064	2065	2066	2067	
CCCT170G2	2066	12	206,187	381,997	56,365	644,550	644,523	1.9%	1									
Escalation								206,187.0										
Year 1				50,688.3				0.1374	28,326.8	73,974.4	75,379.9	76,812.1	78,271.5	79,015.1				79,015.1
Year 2				204,251.1				0.5377	110,860.9	289,508.9	295,009.5	300,614.7	306,326.4	312,146.6	315,112.0			315,112.0
Year 3				127,058.1				0.3249	66,999.2	174,965.6	178,290.0	181,677.5	185,129.3	188,646.8	192,231.1	194,057.3		194,057.3
Year 4				0.0														
Year 5				0.0														
				381,997.5					206,186.9									
AFUDC					56,365.2									2,974.9	18,037.8	35,352.4		56,365.2
In-service cost						644,550								81,990.0	333,149.8	229,409.7		**644,550**
CCCT170G1	2067	12	273,920	519,520	88,275	881,714	881,589	1.9%	3									
Escalation								273,920.0										
Year 1				11,166.1				0.02278	6,240.1	16,295.8	16,605.4	16,920.9	17,242.4	17,406.2				17,406.2
Year 2				139,714.2				0.27684	75,832.4	198,033.3	201,795.9	205,630.0	209,537.0	213,518.2	215,546.6			215,546.6
Year 3				197,828.0				0.38083	104,316.9	272,419.4	277,595.4	282,869.7	288,244.2	293,720.9	299,301.6	302,144.9		302,144.9
Year 4				170,811.2				0.31955	87,530.6	228,582.7	232,925.7	237,351.3	241,861.0	246,456.3	251,139.0	255,910.7	258,341.8	258,341.8
Year 5				0.0														
				519,519.6					273,920.0									
AFUDC					88,274.7									546.1	9,467.1	29,671.1	48,590.4	88,274.7
In-service cost						881,714								17,952.3	225,013.8	331,816.0	306,932.2	**881,714**

Note: 1. The difference between Calculated In-service cost and Strategist in-service cost is due to roundir
2. A single escalation factor for all years by project was used, as required by Strategist.
This number represents the CAGR of the escalation series over the study period.
3. Unless otherwise noted, base dollar estimates are in 2010$