

2010 PLF Strategist Generation Expansion Plans		
	Isolated Island	Labrador HVdc Interconnection and Muskrat Falls
	PLF 2010	PLF 2010
2010		
2011		
2012		
2013		
2014	25 MW Wind	50 MW CT
2015	36 MW Island Pond Holyrood ESP & Scrubbers	
2016	Holyrood Upgrade	
2017	Hoyrood Low No _x Burners	Holyrood Unit 1 Syn Condenser 900 MW Labrador Interconnection
2018	23 MW Portland Creek	
2019	Holyrood Upgrade	
2020	18 MW Round Pond	
2021		
2022	170 MW CCCT	
2023		
2024	50 MW CT Holyrood Upgrade	
2025		
2026		
2027	~54 MW CT	
2028	Replace 2 Existing Wind Farms (~50 MW)	
2029	Holyrood Upgrade	
2030	50 MW CT	
2031		
2032		
2033	Holyrood Replacement (2 units) 170 MW CCCT 170 MW CCCT	
2034	Replace 2014 Wind Farm (~25 MW)	
2035		
2036	Holyrood Replacement (3rd unit) 170 MW CCCT	23 MW Portland Creek
2037		170 MW CCCT
2038		
2039		
2040		
2041		
2042	50 MW CT	
2043		
2044		

2010 PLF Strategist Generation Expansion Plans		
2045		
2046	50 MW CT	50 MW CT
2047		
2048	Replace 2 Existing Wind Farms (~54 MW)	
2049	50 MW CT	
2050	170 MW CCCT	50 MW CT
2051		
2052	170 MW CCCT	
2053		
2054	Replace 3rd Wind Farm (~25 MW)	50 MW CT
2055		
2056	170 MW CCCT	
2057		
2058	50 MW CT	50 MW CT
2059		
2060		
2061		
2062		
2063	50 MW CT 170 MW CCCT	50 MW CT
2064	50 MW CT	
2065		
2066	170 MW CCCT	50 MW CT
2067	170 MW CCCT	
CPW \$ MM	\$8,810	\$6,652

WACC= 8%

File name or run name or descriptor etc

2010 Nalcor Energy Corporate Planning Work

Comment		YEAR	YEAR	YEAR	YEAR	YEAR	YEAR	YEAR	YEAR	YEAR	YEAR
		1	2	3	4	5	6	7	8	9	10
		2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
9 Original Peak Load (MW)		0.0	1,518.8	1,537.6	1,570.6	1,600.5	1,666.5	1,682.9	1,694.9	1,704.2	1,714.1
10 Original Total Island Load/Sales (GWh)		0.0	7,585.0	7,709.2	7,849.6	8,213.5	8,488.0	8,608.5	8,625.8	8,665.6	8,735.1
Island Hydroelectric NOT driving Strategist Costs (GWh -NLH,NP,DLP)		0.0	5,524.9	5,730.8	5,820.7	5,820.7	5,820.7	5,820.7	5,820.7	5,820.7	5,820.7
2010 Isolated Island											
	\$1,402,501										
	\$6,096,720										
	\$1,310,764										
	\$8,809,986										
2010 ISO - BASE PLF INIT MAR10 - 100IO-Q											
7 Fixed Charges (\$000)		\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$40,459.7	\$93,144.2	\$102,681.7	\$103,085.1
23 Unit Fuel Costs (\$000)		\$0.0	\$138,789.5	\$131,238.5	\$149,920.8	\$220,333.8	\$269,589.8	\$279,509.3	\$262,926.5	\$280,986.3	\$302,525.4
24 Unit O and M Costs (\$000)		\$0.0	\$70,050.4	\$70,768.2	\$71,786.4	\$73,218.7	\$76,739.0	\$89,833.5	\$96,059.5	\$97,756.4	\$99,682.5
Utility Cost before ENV Adders (\$000) (sum7,23,24)		\$0.0	\$208,839.9	\$202,006.7	\$221,707.2	\$293,552.5	\$346,328.8	\$409,802.5	\$452,130.1	\$481,424.4	\$505,293.0
2010 Labrador Infeed											
	\$1,749,509										
	\$3,900,395										
	\$1,001,909										
	\$6,651,813										
2010 DCL - BASE PLF LCC900 - 1024 - REV101D-M.SAV											
7 Fixed Charges (\$000)		\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$754.5	\$8,924.0	\$8,684.8	\$261,777.8	\$257,706.8
23 Unit Fuel Costs (\$000)		\$0.0	\$138,789.7	\$131,238.5	\$149,920.8	\$220,333.8	\$273,483.5	\$304,239.1	\$319,450.0	\$172,733.7	\$182,833.5
24 Unit O and M Costs (\$000)		\$0.0	\$70,050.4	\$70,775.2	\$71,786.4	\$73,218.7	\$74,552.6	\$76,253.3	\$77,243.4	\$89,194.1	\$90,475.1
Utility Cost before ENV Adders (\$000) (sum7,23,24)		\$0.0	\$208,840.1	\$202,013.7	\$221,707.2	\$293,552.5	\$348,790.5	\$389,416.4	\$405,378.2	\$523,705.6	\$531,015.4
CPW Preference Labrador Infeed											
	-\$2,158,173										

Please note: Unit O&M Costs include costs for all PPAs, except energy from the Labrador Infeed.
Energy from the Labrador Infeed is included under Unit Fuel Costs.

YEAR	YEAR	YEAR	YEAR	YEAR	YEAR	YEAR	YEAR	YEAR	YEAR	YEAR	YEAR	YEAR	YEAR	YEAR	YEAR	YEAR	YEAR	YEAR
11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	
1,729.2	1,743.6	1,757.2	1,775.8	1,794.3	1,813.3	1,827.2	1,840.1	1,856.2	1,872.4	1,887.7	1,903.0	1,918.3	1,933.7	1,949.0	1,964.3	1,978.1	1,991.9	
8,805.7	8,872.2	8,967.4	9,064.7	9,171.4	9,234.7	9,292.7	9,375.1	9,464.0	9,545.3	9,625.6	9,703.8	9,781.9	9,860.1	9,938.3	10,016.5	10,086.8	10,157.2	
5,820.7	5,820.7	5,820.7	5,820.7	5,820.7	5,820.7	5,820.7	5,820.7	5,820.7	5,820.7	5,820.7	5,820.7	5,820.7	5,820.7	5,820.7	5,820.7	5,820.7	5,820.7	
\$111,375.4	\$124,972.1	\$137,740.0	\$136,495.6	\$161,703.8	\$158,059.3	\$164,593.3	\$159,563.6	\$155,509.9	\$167,210.7	\$179,953.5	\$175,611.8	\$180,690.9	\$174,226.6	\$175,500.8	\$256,200.6	\$256,965.4	\$237,792.9	
\$298,575.5	\$313,461.6	\$314,608.5	\$341,069.2	\$373,148.4	\$394,342.5	\$414,735.9	\$441,617.0	\$470,771.6	\$499,151.6	\$529,050.8	\$558,974.4	\$589,878.2	\$622,149.9	\$655,253.3	\$822,618.3	\$861,723.1	\$934,560.4	
\$101,020.3	\$102,809.4	\$104,425.0	\$106,914.1	\$108,744.7	\$110,803.0	\$112,997.3	\$115,493.1	\$118,197.6	\$118,964.6	\$113,977.3	\$116,904.8	\$120,702.3	\$123,756.8	\$127,445.8	\$107,006.3	\$104,408.8	\$99,174.1	
\$510,971.2	\$541,243.1	\$556,773.5	\$584,478.9	\$643,596.9	\$663,204.8	\$692,326.5	\$716,673.7	\$744,479.1	\$785,326.9	\$822,981.6	\$851,491.0	\$891,271.4	\$920,133.3	\$958,199.9	\$1,185,825.2	\$1,223,097.3	\$1,271,527.4	
\$253,378.3	\$249,049.7	\$244,721.2	\$240,392.6	\$236,064.1	\$231,735.5	\$227,532.9	\$224,579.2	\$220,230.0	\$215,880.9	\$211,628.6	\$208,336.7	\$203,971.7	\$199,606.7	\$195,241.7	\$190,876.6	\$186,511.6	\$183,412.9	
\$193,221.9	\$203,537.5	\$217,185.8	\$231,469.3	\$246,817.5	\$258,425.5	\$269,781.8	\$284,239.6	\$299,938.0	\$321,287.7	\$353,431.1	\$369,868.9	\$386,768.5	\$404,319.3	\$422,386.4	\$441,002.9	\$459,164.4	\$476,767.0	
\$97,287.7	\$93,136.4	\$80,890.8	\$69,101.7	\$66,453.8	\$66,907.1	\$66,876.5	\$75,289.8	\$69,509.7	\$66,448.6	\$56,144.5	\$56,875.6	\$65,020.1	\$58,392.6	\$59,175.7	\$59,980.0	\$60,801.7	\$70,082.4	
\$543,887.9	\$545,723.6	\$542,797.8	\$540,963.6	\$549,335.4	\$557,068.1	\$564,191.2	\$584,108.6	\$589,677.7	\$603,617.2	\$621,204.2	\$635,081.2	\$655,760.3	\$662,318.6	\$676,803.8	\$691,859.5	\$706,477.7	\$730,262.3	

YEAR	YEAR	YEAR	YEAR	YEAR	YEAR	YEAR	YEAR	YEAR	YEAR	YEAR	YEAR	YEAR	YEAR	YEAR	YEAR	YEAR
29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	
2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	
2,005.7	2,019.6	2,033.4	2,045.6	2,057.9	2,070.2	2,082.4	2,094.7	2,107.0	2,119.2	2,131.5	2,143.8	2,156.0	2,166.8	2,177.5	2,188.2	
10,227.5	10,297.9	10,368.3	10,430.8	10,493.3	10,555.9	10,618.4	10,681.0	10,743.5	10,806.0	10,868.6	10,931.1	10,993.7	11,048.4	11,103.1	11,157.8	
5,820.7	5,820.7	5,820.7	5,820.7	5,820.7	5,820.7	5,820.7	5,820.7	5,820.7	5,820.7	5,820.7	5,820.7	5,820.7	5,820.7	5,820.7	5,820.7	
\$254,264.5	\$247,299.3	\$240,334.2	\$233,369.0	\$226,403.8	\$220,752.2	\$228,010.5	\$220,628.8	\$213,247.2	\$207,287.4	\$215,301.6	\$214,312.3	\$227,704.0	\$237,104.7	\$278,074.8	\$273,658.2	
\$1,020,564.0	\$1,066,058.0	\$1,112,936.0	\$1,158,366.0	\$1,203,133.0	\$1,250,500.0	\$1,298,998.0	\$1,351,107.0	\$1,404,983.0	\$1,459,862.0	\$1,516,550.0	\$1,573,596.0	\$1,632,934.0	\$1,688,976.0	\$1,747,908.0	\$1,809,130.0	
\$98,322.0	\$101,086.6	\$103,949.2	\$106,817.3	\$109,784.1	\$112,964.2	\$117,342.6	\$120,667.7	\$124,105.2	\$127,782.8	\$132,804.6	\$136,651.4	\$140,630.5	\$145,023.2	\$153,620.2	\$157,935.5	
\$1,373,150.5	\$1,414,443.9	\$1,457,219.4	\$1,498,552.3	\$1,539,320.9	\$1,584,216.4	\$1,644,351.1	\$1,692,403.5	\$1,742,335.4	\$1,794,932.2	\$1,864,656.2	\$1,924,559.7	\$2,001,268.5	\$2,071,103.9	\$2,179,603.0	\$2,240,723.7	
\$196,426.5	\$230,497.7	\$224,682.4	\$216,417.1	\$211,088.0	\$205,758.9	\$200,429.7	\$195,100.6	\$189,771.5	\$185,864.2	\$195,930.9	\$190,151.0	\$184,371.0	\$180,130.2	\$191,015.2	\$184,747.3	
\$477,631.7	\$497,444.2	\$517,556.5	\$537,044.2	\$557,172.6	\$577,970.8	\$599,302.3	\$621,262.6	\$643,897.6	\$667,146.4	\$691,364.3	\$715,984.9	\$741,422.6	\$766,137.0	\$791,634.8	\$817,861.8	
\$63,656.6	\$67,744.8	\$68,676.1	\$68,621.5	\$79,138.2	\$70,743.2	\$72,294.1	\$72,968.5	\$74,120.3	\$86,132.8	\$77,990.3	\$79,274.6	\$80,588.6	\$82,071.5	\$97,072.2	\$86,418.5	
\$737,714.8	\$795,686.7	\$810,915.0	\$822,082.8	\$847,398.8	\$854,472.9	\$872,026.1	\$889,331.7	\$907,789.4	\$939,143.4	\$965,285.5	\$985,410.5	\$1,006,382.2	\$1,028,338.7	\$1,079,722.2	\$1,089,027.6	

YEAR	YEAR	YEAR	YEAR	YEAR	YEAR	YEAR	YEAR	YEAR	YEAR	YEAR	YEAR	YEAR	YEAR	YEAR	YEAR
45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	
2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	
2,199.0	2,209.7	2,220.4	2,231.2	2,241.9	2,252.7	2,263.4	2,274.1	2,284.9	2,295.6	2,306.3	2,317.1	2,327.8	2,338.5	2,349.3	
11,212.6	11,267.3	11,322.0	11,376.7	11,431.5	11,486.2	11,540.9	11,595.6	11,650.4	11,705.1	11,759.8	11,814.5	11,869.3	11,924.0	11,978.7	
5,820.7	5,820.7	5,820.7	5,820.7	5,820.7	5,820.7	5,820.7	5,820.7	5,820.7	5,820.7	5,820.7	5,820.7	5,820.7	5,820.7	5,820.7	
\$320,785.3	\$313,982.5	\$313,708.7	\$304,537.9	\$349,561.6	\$337,904.1	\$326,246.7	\$314,589.3	\$302,931.8	\$291,274.4	\$289,150.9	\$382,712.9	\$391,765.0	\$382,969.5	\$429,185.9	
\$1,871,641.0	\$1,935,699.0	\$1,999,934.0	\$2,070,634.0	\$2,141,883.0	\$2,213,404.0	\$2,285,477.0	\$2,360,558.0	\$2,438,412.0	\$2,519,237.0	\$2,601,528.0	\$2,681,905.0	\$2,767,099.0	\$2,858,790.0	\$2,951,439.0	
\$161,551.2	\$166,219.4	\$170,887.3	\$174,628.5	\$185,007.0	\$190,435.6	\$196,044.0	\$201,838.0	\$207,825.5	\$214,008.8	\$220,204.3	\$224,876.6	\$233,831.0	\$240,785.8	\$247,623.9	
\$2,353,977.5	\$2,415,900.9	\$2,484,530.0	\$2,549,800.4	\$2,676,451.6	\$2,741,743.7	\$2,807,767.7	\$2,876,985.3	\$2,949,169.3	\$3,024,520.2	\$3,110,883.2	\$3,289,494.5	\$3,392,695.0	\$3,482,545.3	\$3,628,248.8	
\$178,479.5	\$173,877.5	\$185,648.3	\$178,852.3	\$172,056.2	\$167,063.4	\$179,793.0	\$172,425.3	\$165,057.5	\$157,689.8	\$152,312.9	\$166,503.1	\$158,504.2	\$152,618.0	\$117,439.7	
\$844,832.4	\$873,869.6	\$903,794.8	\$934,465.1	\$962,221.8	\$984,705.5	\$1,007,596.0	\$1,030,770.0	\$1,055,092.0	\$1,079,686.0	\$1,104,859.0	\$1,130,423.0	\$1,159,789.0	\$1,192,487.0	\$1,228,338.0	
\$87,917.9	\$89,674.2	\$92,994.5	\$108,443.6	\$96,524.1	\$98,535.8	\$102,287.5	\$104,275.6	\$121,847.3	\$108,438.6	\$110,793.7	\$115,146.4	\$117,597.1	\$129,076.0	\$133,724.9	
\$1,111,229.8	\$1,137,421.3	\$1,182,437.6	\$1,221,761.0	\$1,230,802.1	\$1,250,304.7	\$1,289,676.5	\$1,307,470.9	\$1,341,996.8	\$1,345,814.4	\$1,367,965.6	\$1,412,072.5	\$1,435,890.3	\$1,474,181.0	\$1,479,502.6	