

- 1 Q. Provide Tables 2-2, 2-3 and A-1 and Figure 5-1 from Hydro's Generation Planning  
2 Issues 2009 Mid Year Report dated July 2009 submitted to the Board as part of  
3 Hydro's 2010 Capital Budget.  
4  
5  
6 A. Please see the attached pages showing the requested tables and figure.

Table 2-2

Electricity Load Growth Summary – 2009 PLF				
		2008-2013	2008-2018	2008-2028
Utility <sup>1</sup>	HVdc link	1.9%	1.1%	1.1%
	Isolated Island	1.8%	1.3%	1.1%
Industrial <sup>2</sup>	HVdc link	0.0%	0.1%	0.1%
	Isolated Island	0.0%	0.1%	0.1%
Total	HVdc link	1.4%	0.8%	0.8%
	Isolated Island	1.3%	1.0%	0.9%
1. Utility load is the summation of Newfoundland Power and Hydro Rural. 2. Industrial load is the summation of Corner Brook Pulp and Paper, AbitibiBowater <sup>3</sup> , North Atlantic Refining, Teck Resources and Vale Inco NL.				

Table 2-3 provides a summary of the 2009 PLF projections for electric power and energy for the System for the period 2009 to 2018. Similar long-term projections are also prepared for the Labrador Interconnected System and for Hydro's Isolated Diesel Systems to derive a Provincial electricity load forecast. Appendix A contains the longer term PLF that was used to complete the generation expansion analysis.

<sup>3</sup> AbitibiBowater ceased production at its Grand Falls newsprint mill in February 2009.

Table 2-3

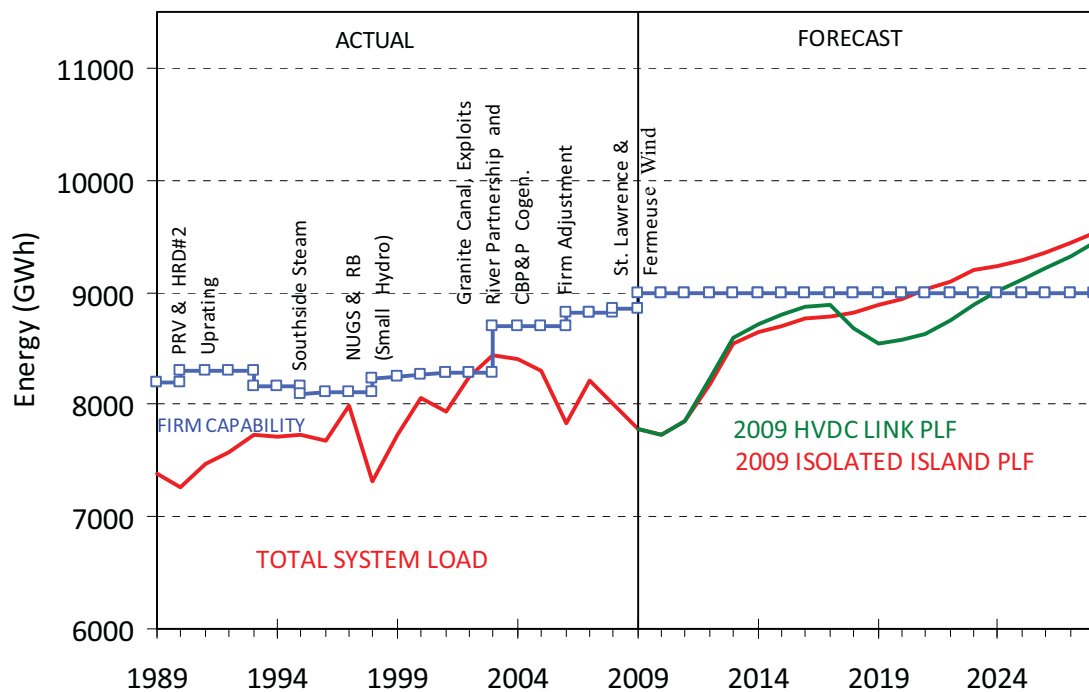
Electricity Load Summary – 2009 PLF						
HVdc Link	Utility <sup>1</sup>		Industrial <sup>1</sup>		Total System <sup>2</sup>	
	Maximum Demand (MW)	Firm Energy (GWh)	Maximum Demand <sup>3</sup> (MW)	Firm Energy (GWh)	Maximum Demand (MW)	Firm Energy (GWh)
2009	1,326	5,985	286	1,603	1,592	7,781
2010	1,351	6,100	196	1,435	1,534	7,727
2011	1,376	6,210	236	1,456	1,568	7,858
2012	1,400	6,348	274	1,679	1,604	8,223
2013	1,417	6,417	282	1,984	1,673	8,601
2014	1,437	6,501	275	2,009	1,686	8,710
2015	1,450	6,588	275	2,009	1,699	8,798
2016	1,469	6,660	275	2,009	1,718	8,871
2017	1,485	6,669	275	2,009	1,733	8,881
2018	1,488	6,473	275	2,009	1,737	8,682
Isolated Island	Utility <sup>1</sup>		Industrial <sup>1</sup>		Total System <sup>2</sup>	
	Maximum Demand (MW)	Firm Energy (GWh)	Maximum Demand (MW)	Firm Energy (GWh)	Maximum Demand (MW)	Firm Energy (GWh)
2009	1,326	5,985	286	1,603	1,592	7,781
2010	1,351	6,100	196	1,435	1,534	7,727
2011	1,376	6,210	236	1,456	1,568	7,858
2012	1,399	6,300	274	1,679	1,603	8,174
2013	1,416	6,366	282	1,984	1,672	8,550
2014	1,431	6,431	275	2,009	1,680	8,640
2015	1,443	6,481	275	2,009	1,691	8,691
2016	1,453	6,562	275	2,009	1,702	8,772
2017	1,471	6,574	275	2,009	1,719	8,784
2018	1,477	6,613	275	2,009	1,726	8,824
Note: 1. Utility and Industrial demands are non-coincident peak demands. 2. Total System is the total Island Interconnected System and includes losses. Demands are coincident peak demands. 3. Maximum demand in 2009 includes AbitibiBowater paper mill.						

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Figure 5-1 presents a graphical representation of historical and forecasted load and system capability for the HVdc link and Isolated Island scenarios. It is a visual representation of the energy balance shown in Table 5-1.

**Figure 5-1  
Island Interconnected System Capability vs. Load Forecast**



## 6.0 Near-Term Resource Options

This section presents a summary of identified near-term generation expansion options. It represents Hydro's current portfolio of alternatives that may be considered to fulfill future generation expansion requirements. Included is a brief project description as well as discussion surrounding project schedules; the basis for capital cost estimates; issues of bringing an alternative into service; and other issues related to generation expansion analysis.

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A-2

Table A-1  
2009 Planning Load Forecasts

Year	2009 PLF HVdc Link Case		2009 PLF Isolated Island Case	
	Maximum Demand [MW]	Firm Energy [GWh]	Maximum Demand [MW]	Firm Energy [GWh]
2009	1,592	7,781	1,592	7,781
2010	1,534	7,727	1,534	7,727
2011	1,568	7,858	1,568	7,858
2012	1,604	8,223	1,603	8,174
2013	1,673	8,601	1,672	8,550
2014	1,686	8,710	1,680	8,640
2015	1,699	8,798	1,691	8,691
2016	1,718	8,871	1,702	8,772
2017	1,733	8,881	1,719	8,784
2018	1,737	8,682	1,726	8,824
2019	1,712	8,534	1,734	8,887
2020	1,693	8,579	1,745	8,936
2021	1,702	8,636	1,756	9,027
2022	1,713	8,757	1,773	9,100
2023	1,732	8,883	1,785	9,199
2024	1,751	9,005	1,801	9,233
2025	1,770	9,113	1,809	9,290
2026	1,787	9,211	1,819	9,362
2027	1,803	9,326	1,831	9,444
2028	1,820	9,445	1,844	9,525