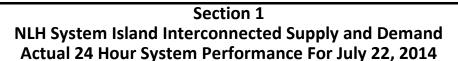
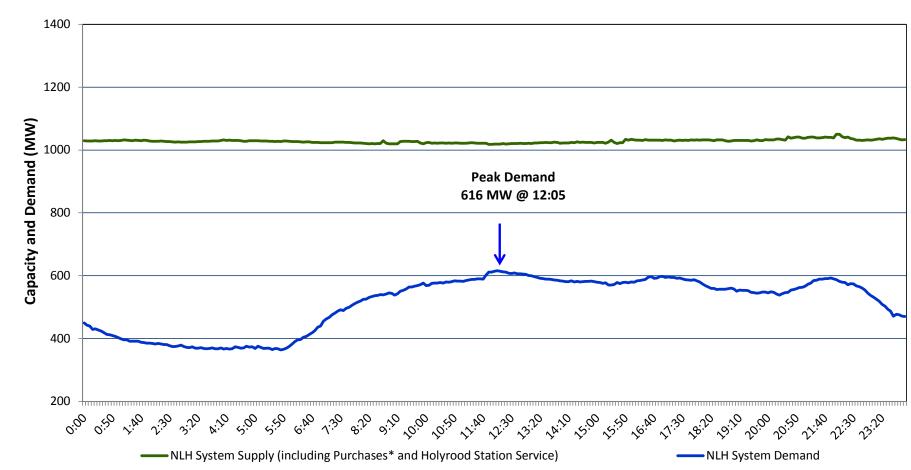
## **Newfoundland Labrador Hydro (NLH)** Supply and Demand Status Report Filed July 23, 2014





## \* Purchases include Nalcor Exploits, Star Lake, Rattle Brook, CBPP Co-Gen, Wind Generation and DLP Secondary

## Supply Notes for July 22, 2014

- As of 0422 hours, Feb. 17, 2014, Bay d'Espoir Unit 6 unavailable for service (77 MW).
- As of 0800 hours, May 21, 2014, Holyrood Unit 2 removed from service for annual maintenance (165 MW).
- As of 1554 hours, May 24, 2014, Bay d'Espoir Unit 3 removed from service for annual maintenance (76.5 MW).
- As of 0858 hours, June 13, 2014, Stephenville Gas Turbine End A removed from service for annual maintenance (25 MW).
- As of 1800 hours, July 04, 2014, Stephenville Gas Turbine End B derated to 14 MW (25 MW).
- As of 0755 hours, July 06, 2014, Bay d'Espoir Unit 4 removed from service for annual maintenance (76.5 MW).
- As of 1139 hours, July 09, 2014, Cat Arm Unit 1 derated to 53 MW (67 MW).
- As of 1100 hours, July 21, 2014, Holyrood Unit 1 removed from service for annual maintenance (170 MW).

Section 2  NLH System Island Interconnected Supply and Demand									
July 23, 2014 NLH System Outlook <sup>3</sup>		Five-Day Forecast	-	Temperature (°C)		NLH System Demand (MW)			
				Morning	Evening	Morning	Evening		
Available NLH System Supply: <sup>4</sup>	1,020	MW	Wednesday, July 23, 2014	17	24	600	625		
Current St. John's Temperature:	17	°C	Thursday, July 24, 2014	17	24	600	625		
Current St. John's Windchill:	N/A	°C	Friday, July 25, 2014	19	21	625	600		
NLH System Peak Demand Forecast:	625	MW	Saturday, July 26, 2014	15	19	600	575		
			Sunday, July 27, 2014	15	24	575	550		

## Supply Notes for July 23, 2014<sup>3</sup>

- Notes: 1. Generation outages for running and corrective maintenance are included. These are not unusual for power system operations. They generally do not impact customer supply. The power system operators schedule outages to system equipment whenever possible to coincide with periods when customer demands are low and sufficient supply reserves are available. However, from time to time equipment outages are necessary and reserves may be impacted.
  - 2. Due to the Island Interconnected System being isolated from the larger North American grid, when there is a sudden loss of large generating units some customer's load must be interrupted for short periods to bring generation output equal to customer demand. This automatic action of power system protection, referred to as underfrequency load shedding, is necessary to ensure the integrity and reliability of system equipment. Underfrequency events typically occur 5 to 8 times per year on the Island Interconnected System and the resultant customer load interruptions are generally less than 30 minutes.
  - As of 0800 Hours.
  - Gross output including station service at Holyrood (24.5 MW) and improved hydraulic output due to water levels (35 MW). Includes Nalcor Exploits, Star Lake, Rattle Brook, CBPP Co-Gen. Excludes wind generation and DLP Secondary.

Section 3 Peak Demand Information							
Previous Day Actual Peak and Current Day Forecast Peak							
July 22, 2014	Actual NLH System Island Interconnected Peak Demand <sup>1</sup>	12:05	616 MW				
July 23, 2014	Forecast NLH System Island Interconnected Peak Demand		625 MW				
July 22, 2014	Actual Total Island Peak Demand <sup>2</sup>	11:55	751 MW				
July 23, 2014	Forecast Total Island Peak Demand		750 MW				

- Notes: 1. NLH System Island Interconnected is supplied by generation owned by NLH as well as NLH Power Purchases as detailed in Section 1 above.
  - 2. Total Island System Demand is supplied by NLH generation and NLH Power Purchases, plus generation owned and operated by Newfoundland Power and Corner Brook Pulp & Paper to meet their respective supply needs.