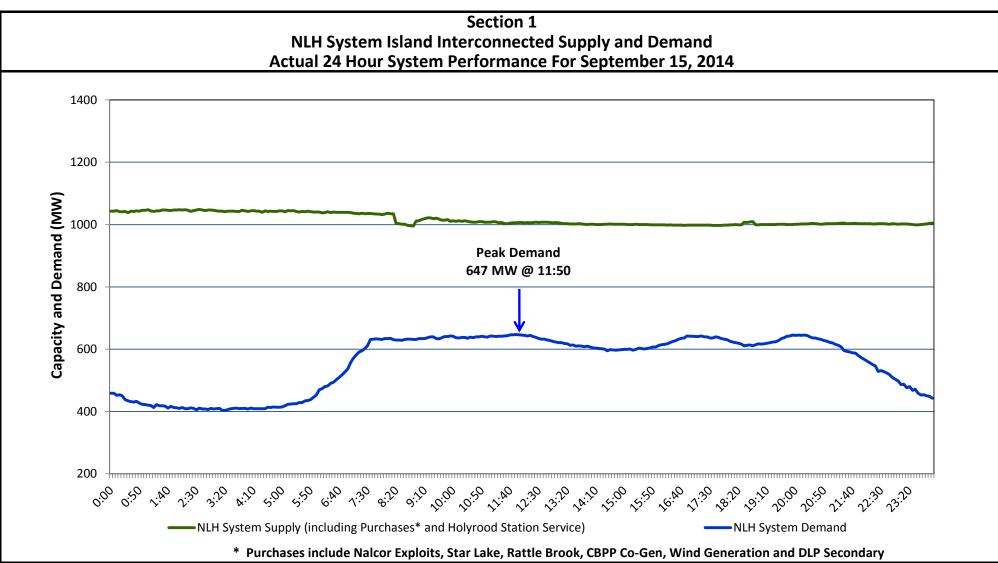
## **Newfoundland Labrador Hydro (NLH)** Supply and Demand Status Report Filed September 16, 2014



## Supply Notes for September 15, 2014

- As of 0800 hours, May 21, 2014, Holyrood Unit 2 removed from service for annual maintenance (165 MW).
- As of 0858 hours, June 13, 2014, Stephenville Gas Turbine End A removed from service for annual maintenance (25 MW).
- As of 1100 hours, July 21, 2014, Holyrood Unit 1 removed from service for annual maintenance (170 MW).
- As of 0347 hours, July 25, 2014, Hardwoods Gas Turbine unavailable due to a forced outage (50 MW).
- As of 1000 hours, August 20, 2014, HRD Unit 3 derating adjusted from 100 to 120 MW (Air heater and condenser vacuum problem) (150 MW).
- As of 1814 hours, August 22, 2014, Stephenville Gas Turbine End B derated to 16 MW (25 MW).
- As of 1738 hours, August 27, 2014, Cat Arm Unit 1 derated to 53 MW (67 MW).
- As of 0227 hours, September 01, 2014, Nalcor Grand Falls Unit 9 removed from service for annual maintenance (30 MW). Net impact to system 5 MW (the excess water utilised by other Nalcor Grand Falls Units 5 to 8).
- At 1216 hours, September 14, 2014, Bay d'Espoir Unit 7 removed from service for annual maintenance, derated to 100 MW(154 MW).
- At 1604 hours, September 14, 2014, Paradise River Unit removed from service for annual maintenance (8 MW).

Section 2  NLH System Island Interconnected Supply and Demand									
September 16, 2014 NLH System Outlook <sup>3</sup>		Five-Day Forecast	(°	Temperature (°C)		NLH System Demand (MW)			
				Morning	Evening	Morning	Evening		
Available NLH System Supply:4	995	MW	Tuesday, September 16, 2014	11	14	625	650		
Current St. John's Temperature:	12	°C	Wednesday, September 17, 2014	9	15	625	650		
Current St. John's Windchill:	N/A	°C	Thursday, September 18, 2014	12	12	625	650		
NLH System Peak Demand Forecast:	650	MW	Friday, September 19, 2014	11	10	650	675		
			Saturday, September 20, 2014	7	12	650	625		

## Supply Notes for September 16, 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. 3. As of 0800 Hours.
  - 4. 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							
September 16, 2014	Forecast NLH System Island Interconnected Peak Demand		650 MW				
September 15, 2014	Actual Total Island Peak Demand <sup>2</sup>	11:45	772 MW				
September 16, 2014	Forecast Total Island Peak Demand		775 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.