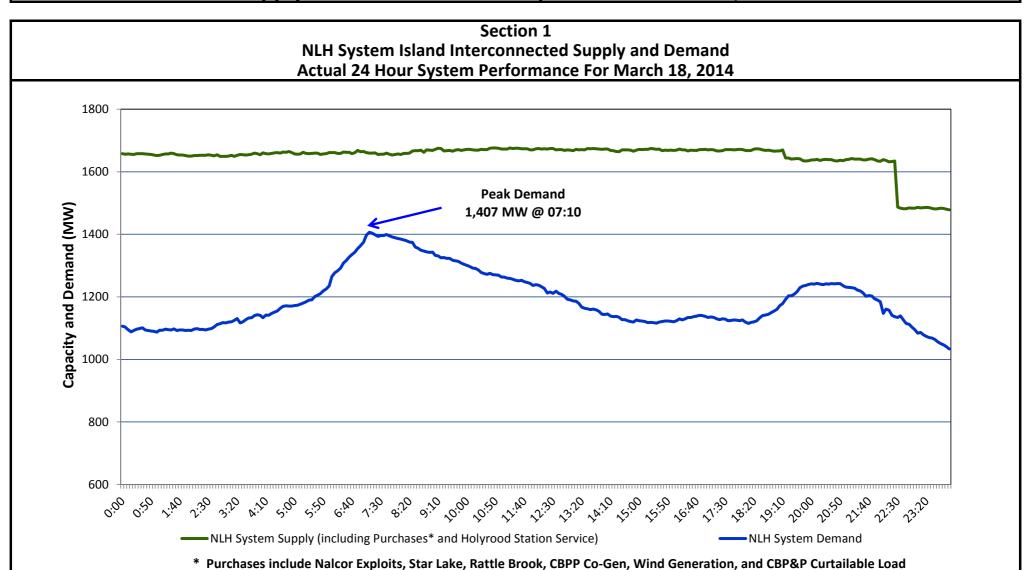
## **Newfoundland Labrador Hydro (NLH)** Supply and Demand Status Report Filed March 19, 2014



## Supply Notes for March 18, 2014

- As of 0422 hours, Feb. 17, 2014, Bay d'Espoir Unit 6 (75 MW) unavailable for service.
- As of 0627 hours, March 17, 2014, Holyrood Unit 1 derated to 150 MW from 170 MW.
- As of 1910 hours Hardwoods End B (25 MW) is unavailable for service. Hardwoods derated to 25 MW. Hydro is investigating.
- At 2203 hours while taking Bay d'Espoir Unit 4 offline, its breaker misoperated and caused Bay d'Espoir Unit 3 (77 MW) to trip. Unit 4 (77 MW) is unavailable for service. Hydro is investigating.

Section 2  NLH System Island Interconnected Supply and Demand									
March 19, 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	1,520	MW	Wednesday, March 19, 2014	-6	-2	1,275	1,175		
Current St. John's Temperature:	-5	°C	Thursday, March 20, 2014	-6	-4	1,250	1,175		
Current St. John's Windchill:	-11	°C	Friday, March 21, 2014	-2	2	1,150	1,025		
NLH System Peak Demand Forecast:	1,275	MW	Saturday, March 22, 2014	-1	-2	1,150	1,125		
			Sunday, March 23, 2014	-4	-3	1,175	1,200		

## Supply Notes for March 19, 2014<sup>3</sup>

Bay d'Espoir Unit 3 returned to service at 0148 hours following a trip caused by Bay d'Espoir Unit 4 breaker misoperation.

- 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.
  - 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.

  - 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, and CBPP Curtailable Load (60 MW). Excludes wind generation.

Section 3 Peak Demand Information Previous Day Actual Peak and Current Day Forecast Peak							
March 19, 2014	Forecast NLH System Island Interconnected Peak Demand		1,275 MW				
March 18, 2014	Actual Total Island Peak Demand <sup>2</sup>	7:40	1,502 MW				
March 19, 2014	Forecast Total Island Peak Demand		1,450 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.