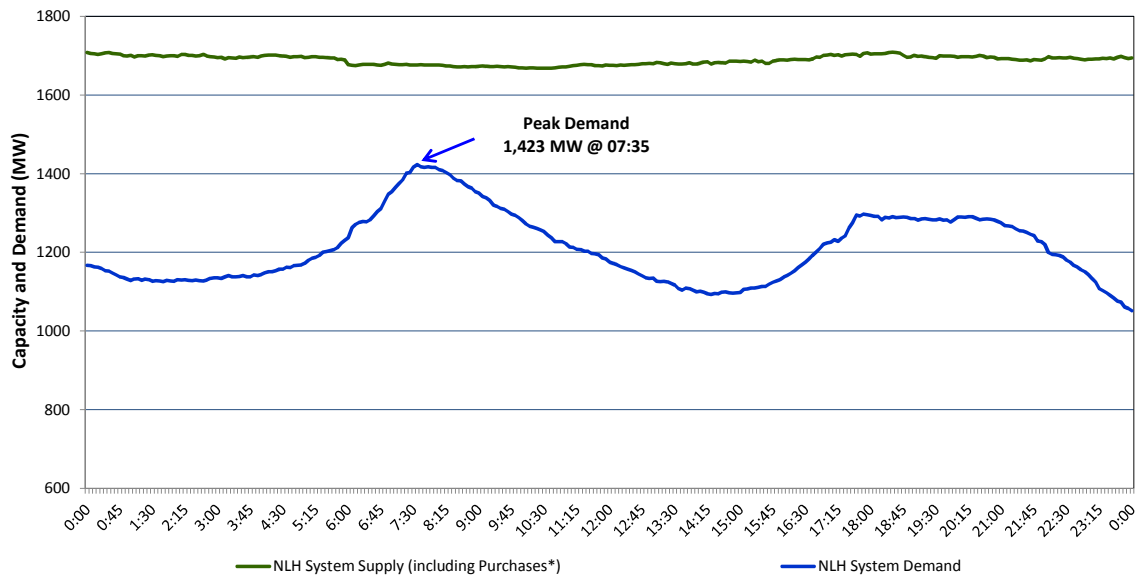


# **Newfoundland and Labrador Hydro** **NLH System Supply and Demand** **February 13, 2014**



\* Purchases include Nalcor Exploits and Star Lake, Rattle Brook, CBPP Co-Gen, Wind Generation, and CBPP Curtailable Load (60 MW)

## **Previous Day's NLH System Supply Notes<sup>1,2</sup>:**

- Ongoing derating for the Stephenville Gas Turbine (to 25 MW).
- Holyrood Unit 1 capability improved to 140 MW but still restricted due to issues with the burner guns. Hydro is working to correct the problem.

14-Feb-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>	1,660	MW	Friday, February 14, 2014		-4	5	1,250	1,150
Current St. John's Temperature:	-2	°C	Saturday, February 15, 2014		0	-6	1,150	1,250
Current St. John's Windchill:	-10	°C	Sunday, February 16, 2014		-7	4	1,250	1,125
NLH System Peak Demand Forecast:	1,250	MW	Monday, February 17, 2014		-7	-6	1,225	1,300
			Tuesday, February 18, 2014		-9	-9	1,400	1,450

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

## **14-Feb-2014 Island Demand<sup>1</sup>**

Island Peak Demand Forecast:	1,425	MW	Previous Day's Island Peak Demand:	1,593	MW @	8:15
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- Note:
1. The Island supply includes generation owned by NLH, purchased by NLH and generation owned by Newfoundland Power (NP) and Corner Brook Pulp and Paper (CBPP) to supply their needs. The total power produced and purchased by NLH is referred to as the NLH System Supply.