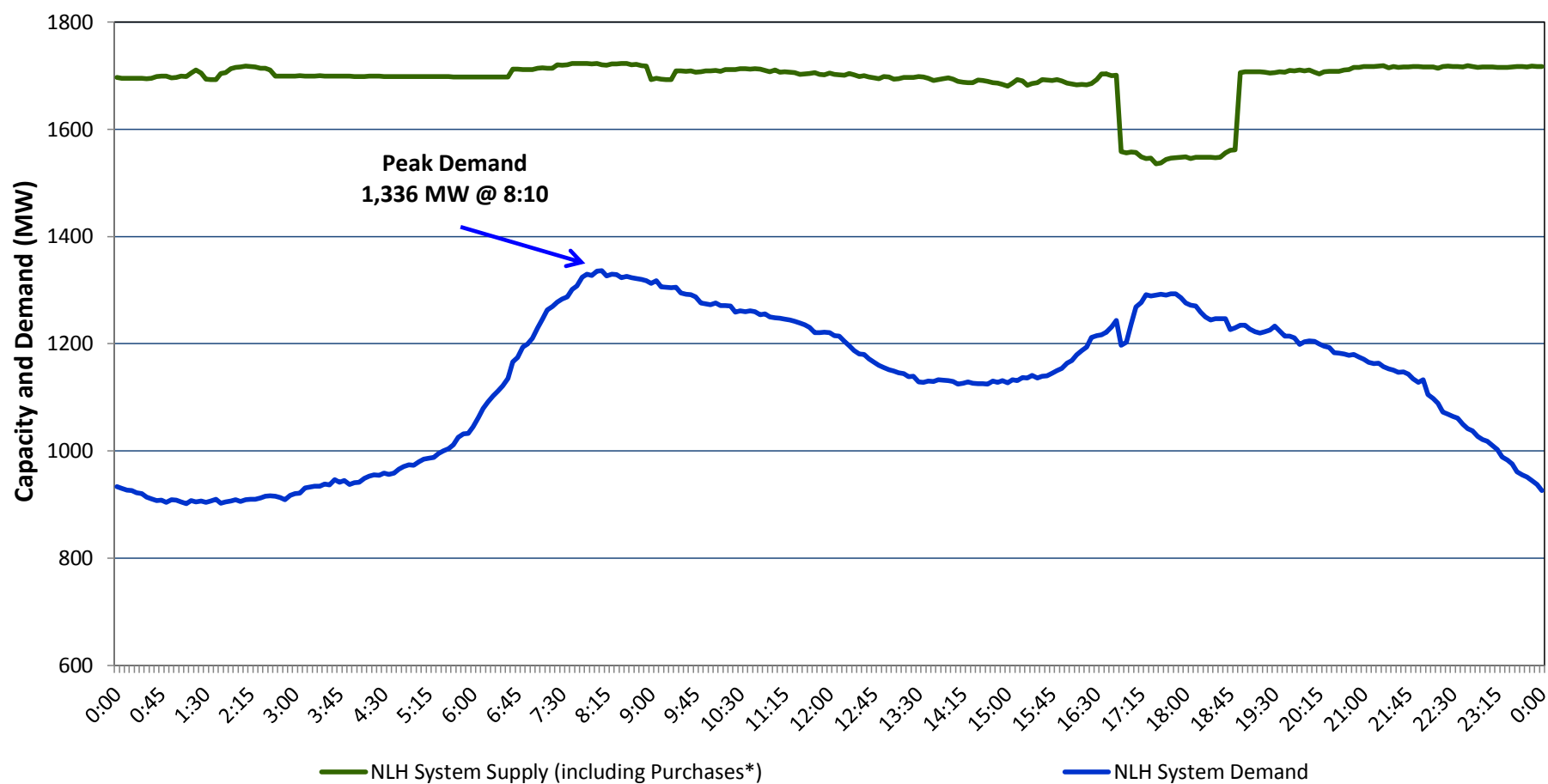


# Newfoundland and Labrador Hydro

## NLH System Supply and Demand

### January 27, 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 tripped offline at 1650 hours causing Under Frequency Load Shedding. Unit 1 was returned to service at 1851 hours. The cause of the trip is under investigation and Unit 1 is operating at reduced loading until the investigation is complete.

28-Jan-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>	1,690	MW	Tuesday, January 28, 2014		4	-1	1,000	1,250
Current St. John's Temperature:	5	°C	Wednesday, January 29, 2014		-9	-5	1,375	1,350
Current St. John's Windchill:	N/A	°C	Thursday, January 30, 2014		-8	-9	1,350	1,350
NLH System Peak Demand Forecast:	1,250	MW	Friday, January 31, 2014		-9	-3	1,325	1,225
			Saturday, February 01, 2014		-2	-5	1,150	1,250

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

## 28-Jan-2014 Island Demand<sup>1</sup>

Island Peak Demand Forecast:	1,450	MW	Previous Day's Island Peak Demand:	1,528	MW @	8:45
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- Note:
- 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.