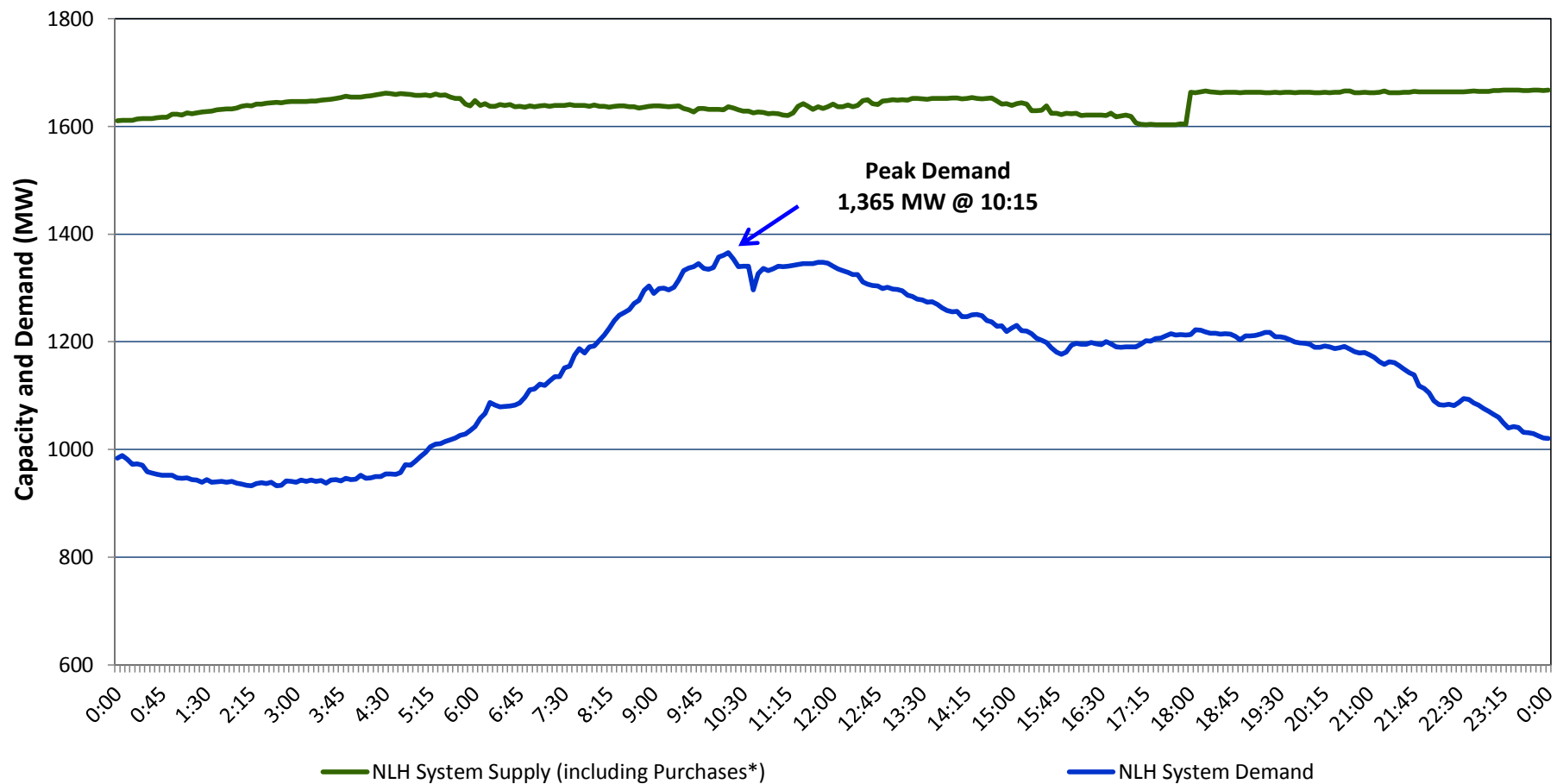


## Newfoundland and Labrador Hydro

### NLH System Supply and Demand

### February 16, 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).
- Ongoing derating for Holyrood Unit 1 (to 140 MW).
- Corner Brook P&P Capacity Deliveries reduced from 60 MW to 0 MW between 0000 to 1800 hours due to frazil ice conditions at Deer Lake Power.
- Bay d'Espoir Unit 6 tripped offline at 0422 hours (February 17, 2014) causing under frequency load shedding. Hydro is investigating.

17-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>	1,580	MW	Monday, February 17, 2014		-5	-5	1,300	1,325
Current St. John's Temperature:	-6	°C	Tuesday, February 18, 2014		-9	-9	1,400	1,425
Current St. John's Windchill:	-17	°C	Wednesday, February 19, 2014		-8	0	1,350	1,275
NLH System Peak Demand Forecast:	1,325	MW	Thursday, February 20, 2014		-4	-1	1,275	1,225
			Friday, February 21, 2014		-5	-7	1,325	1,325

- 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.

### 17-Feb-2014 Island Demand<sup>1</sup>

Island Peak Demand Forecast:	1,500	MW	Previous Day's Island Peak Demand:	1,434	MW @	11:55
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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.