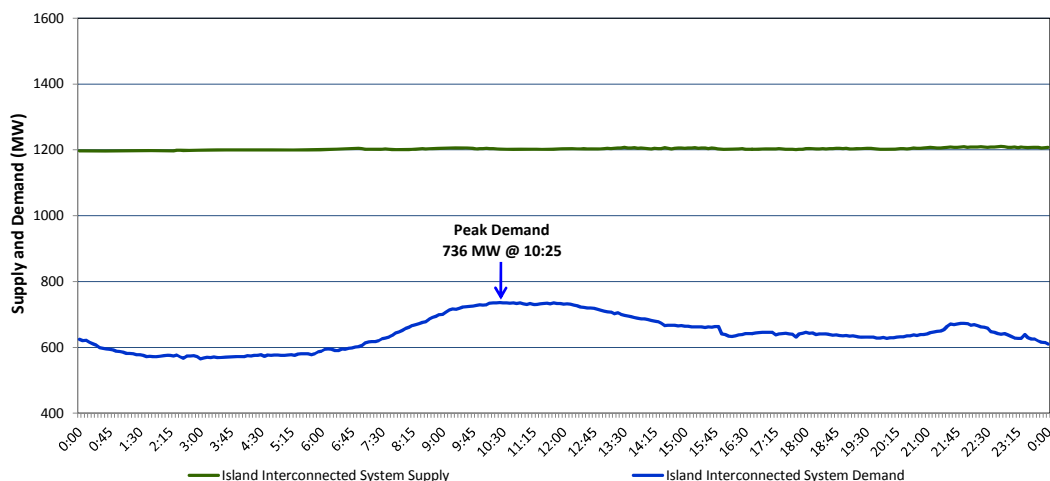


## Newfoundland Labrador Hydro (NLH) Supply and Demand Status Report Filed Tuesday, July 12, 2016

### Section 1 Island Interconnected System Supply and Demand Actual 24 Hour System Performance For Saturday, July 09, 2016



#### Supply Notes For July 09, 2016

- A** As of 1956 hours, January 14, 2016, Nalcor Exploits Grand Falls Unit 7 unavailable. No net impact to the Island Interconnected System.
- B** As of 1526 hours, March 26, 2016, Stephenville Gas Turbine End A unavailable (25 MW).
- C** As of 1029 hours, April 15, 2016, Holyrood Unit 3 unavailable (150 MW).
- D** As of 0822 hours, June 05, 2016, Bay d'Espoir Unit 3 unavailable (76.5 MW).
- E** As of 0822 hours, June 05, 2016, Bay d'Espoir Unit 4 unavailable (76.5 MW).
- F** As of 2008 hours, June 06, 2016, Stephenville Gas Turbine End B unavailable (25 MW).
- G** As of 1411 hours, June 09, 2016, Hardwoods Gas Turbine derated to 38 MW (50 MW). End A 19 MW, End B 25 MW.
- H** As of 1425 hours, June 16, 2016, Holyrood Unit 2 unavailable. Previously derated to 120 MW (170 MW).
- I** As of 0833 hours, June 30, 2016, Bay d'Espoir Unit 7 unavailable (154.4 MW).
- J** As of 1000 hours, June 30, 2016, Nalcor Exploits Grand Falls Unit 4 (30 MW) unavailable. Net impact to the Island Interconnected System is 7 MW.
- K** As of 0957 hours, July 06, 2016, Holyrood Unit 1 derated to 95 MW (170 MW). Previously derated to 120 MW.

### Section 2 Island Interconnected Supply and Demand

Sun, Jul 10, 2016	Island System Outlook <sup>3</sup>	Seven-Day Forecast	Temperature (°C)		Island System Daily Peak Demand (MW) Forecast
			Morning	Evening	
Available Island System Supply: <sup>5</sup>	1,220 MW	Sunday, July 10, 2016	9	8	785
NLH Generation: <sup>4</sup>	930 MW	Monday, July 11, 2016	10	9	880
NLH Power Purchases: <sup>6</sup>	115 MW	Tuesday, July 12, 2016	9	9	840
Other Island Generation:	175 MW	Wednesday, July 13, 2016	9	11	780
Current St. John's Temperature:	7 °C	Thursday, July 14, 2016	14	16	760
Current St. John's Windchill:	N/A °C	Friday, July 15, 2016	17	19	775
7-Day Island Peak Demand Forecast:	880 MW	Saturday, July 16, 2016	19	19	745

#### Supply Notes For July 10, 2016

- 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 under frequency load shedding, is necessary to ensure the integrity and reliability of system equipment. Under frequency 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 NLH hydraulic output due to water levels (35 MW).
  - Gross output from all Island sources (including Note 4).
  - NLH Power Purchases include: CBPP Co-Gen, Nalcor Exploits, Rattle Brook, Star Lake, Vale capacity assistance (when applicable), and Wind Generation.

### Section 3 Island Peak Demand Information Previous Day Actual Peak and Current Day Forecast Peak

Sat, Jul 09, 2016	Actual Island Peak Demand <sup>8</sup>	10:25	736 MW
Sun, Jul 10, 2016	Forecast Island Peak Demand		785 MW

**Notes:** 8. Island Demand is supplied by NLH generation and purchases, plus generation owned and operated by Newfoundland Power and Corner Brook Pulp & Paper (Deer Lake Power, DLP).