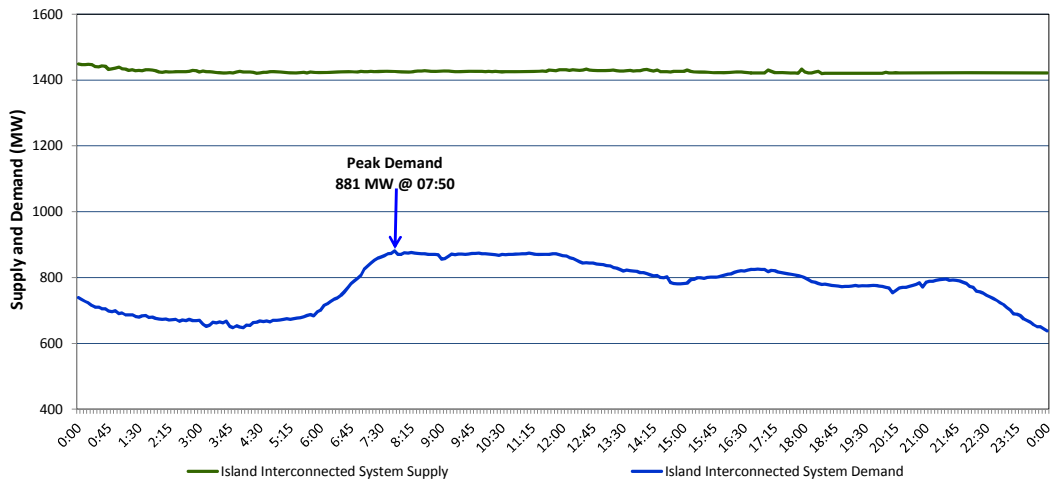


## Newfoundland Labrador Hydro (NLH) Supply and Demand Status Report Filed Wednesday, June 15, 2016

### Section 1 Island Interconnected System Supply and Demand Actual 24 Hour System Performance For Tuesday, June 14, 2016



#### Supply Notes For June 14, 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 0937 hours, May 10, 2016, Bay d'Espoir Unit 6 unavailable (76.5 MW).
- E** As of 0919 hours, May 29, 2016, Holyrood Unit 2 derated to 120 MW (170 MW).
- F** As of 0822 hours, June 05, 2016, Bay d'Espoir Unit 3 unavailable (76.5 MW).
- G** As of 0822 hours, June 05, 2016, Bay d'Espoir Unit 4 unavailable (76.5 MW).
- H** As of 1059 hours, June 05, 2016, Nalcor Exploits Grand Falls Unit 9 (30 MW) unavailable. Net impact to the Island Interconnected System is 7 MW.
- I** As of 2008 hours, June 06, 2016, Stephenville Gas Turbine End B unavailable (25 MW).
- J** As of 2315 hours, June 08, 2016, Holyrood Unit 1 derated to 120 MW (170 MW).
- K** As of 1411 hours, June 09, 2016, Hardwoods Gas Turbine derated to 38 MW (50 MW). End A 19 MW, End B 25 MW.

### Section 2 Island Interconnected Supply and Demand

Wed, Jun 15, 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>	1,415 MW	Wednesday, June 15, 2016	11	10	855
NLH Generation: <sup>4</sup>	1,150 MW	Thursday, June 16, 2016	9	8	885
NLH Power Purchases: <sup>6</sup>	90 MW	Friday, June 17, 2016	6	6	925
Other Island Generation:	175 MW	Saturday, June 18, 2016	4	9	940
Current St. John's Temperature:	12 °C	Sunday, June 19, 2016	13	10	765
Current St. John's Windchill:	N/A °C	Monday, June 20, 2016	13	15	795
7-Day Island Peak Demand Forecast:	940 MW	Tuesday, June 21, 2016	14	14	775

#### Supply Notes For June 15, 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

Tue, Jun 14, 2016	Actual Island Peak Demand <sup>8</sup>	07:50	881 MW
Wed, Jun 15, 2016	Forecast Island Peak Demand		855 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).