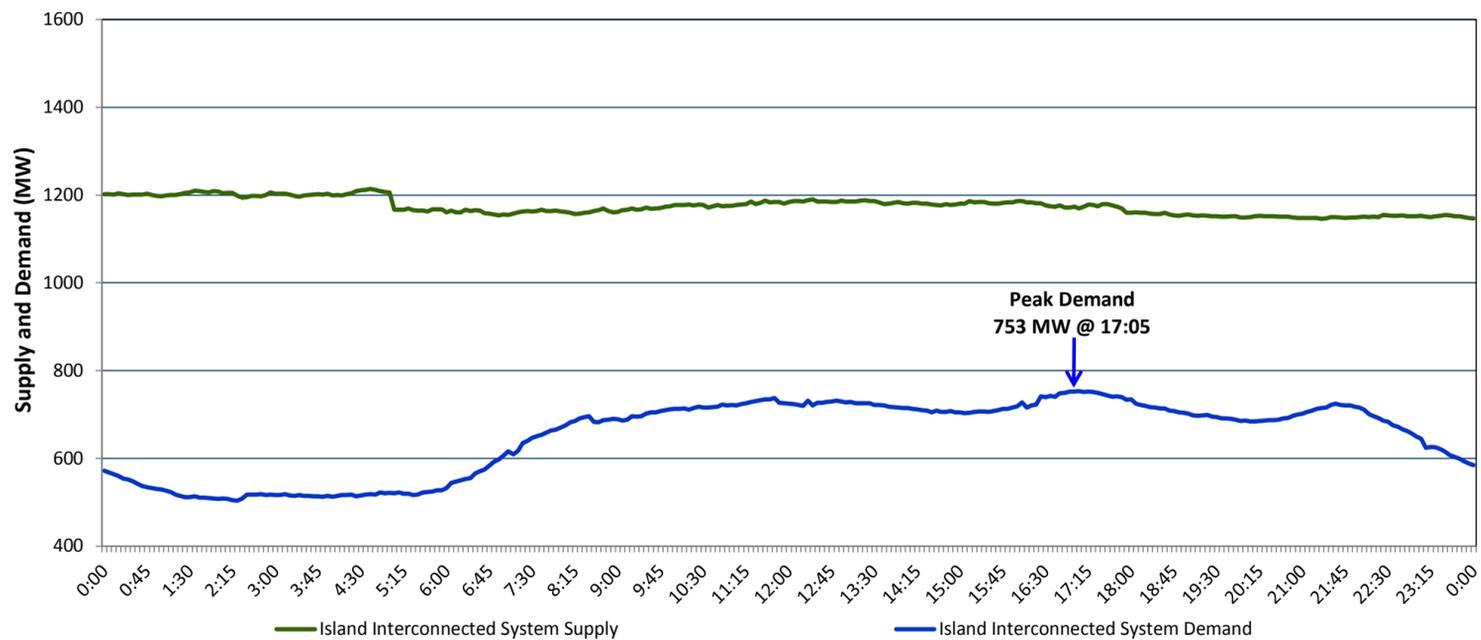


**Newfoundland Labrador Hydro (NLH)  
Supply and Demand Status Report Filed Wednesday, July 20, 2016**

**Section 1  
Island Interconnected System Supply and Demand  
Actual 24 Hour System Performance For Tuesday, July 19, 2016**



**Supply Notes For July 19, 2016**

- 1,2
- 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 1425 hours, June 16, 2016, Holyrood Unit 2 unavailable. Previously derated to 120 MW (170 MW).
  - H As of 0833 hours, June 30, 2016, Bay d'Espoir Unit 7 unavailable (154.4 MW).
  - I As of 0846 hours, July 12, 2016, St. Anthony Diesel Plant G6 (unit 544) unavailable (2 MW).
  - J As of 1316 hours, July 15, 2016, Nalcor Exploits Grand Falls Unit 4 unavailable. Net impact to the Island Interconnected System is 7 MW.
  - K As of 1610 hours, July 16, 2016, Holyrood Unit 1 derated to 120 MW (170 MW).
  - L As of 1125 hours, July 18, 2016, Hardwoods Turbine unavailable. Previously derated to 38 MW (50 MW).
  - M **At 0501 hours, July 19, 2016, Granite Canal Unit unavailable (40 MW).**

**Section 2  
Island Interconnected Supply and Demand**

Wed, Jul 20, 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>	1,135 MW	Wednesday, July 20, 2016	17	16	750
NLH Generation: <sup>4</sup>	875 MW	Thursday, July 21, 2016	15	19	765
NLH Power Purchases: <sup>6</sup>	90 MW	Friday, July 22, 2016	19	19	755
Other Island Generation:	170 MW	Saturday, July 23, 2016	20	20	735
Current St. John's Temperature:	15 °C	Sunday, July 24, 2016	15	17	735
Current St. John's Windchill:	N/A °C	Monday, July 25, 2016	11	13	785
7-Day Island Peak Demand Forecast:	785 MW	Tuesday, July 26, 2016	15	15	775

**Supply Notes For July 20, 2016**

- 3
- 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 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.
  3. As of 0800 Hours.
  4. Gross output including station service at Holyrood (24.5 MW) and improved NLH hydraulic output due to water levels (35 MW).
  5. Gross output from all Island sources (including Note 4).
  6. 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, Jul 19, 2016	Actual Island Peak Demand <sup>8</sup>	17:05	753 MW
Wed, Jul 20, 2016	Forecast Island Peak Demand		750 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).