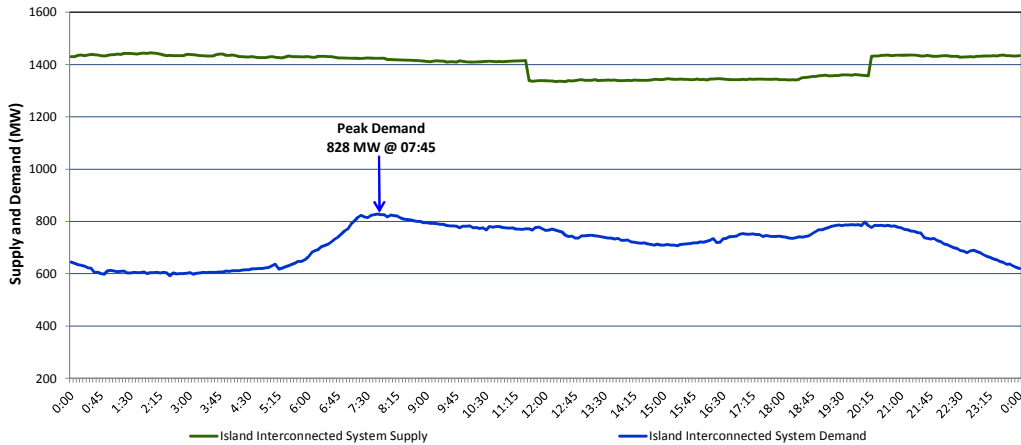


**Newfoundland Labrador Hydro (NLH)  
Supply and Demand Status Report Filed Friday, October 07, 2016**

**Section 1  
Island Interconnected System Supply and Demand  
Actual 24 Hour System Performance For Thursday, October 06, 2016**



**Supply Notes For October 06, 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 1316 hours, July 15, 2016, Nalcor Exploits Grand Falls Unit 4 unavailable. Net impact to the Island Interconnected System is 7 MW.
- D** As of 1341 hours, August 27, 2016, Holyrood Unit 1 unavailable. Previously derated to 120 MW (170 MW).
- E** As of 0757 hours, August 29, 2016, Bay d'Espoir Unit 5 unavailable (76.5 MW).
- F** As of 0714 hours, August 31, 2016, Cat Arm Unit 1 unavailable (67 MW).
- G** As of 1719 hours, September 09, 2016, Nalcor Exploits Bishop's Falls plant units 7 and 9 unavailable. No net impact to the Island Interconnected System.
- H** As of 0717 hours, September 14, 2016, Bay d'Espoir Unit 1 unavailable (76.5 MW).
- I** As of 0717 hours, September 14, 2016, Bay d'Espoir Unit 2 unavailable (76.5 MW).
- J** As of 1956 hours, September 30, 2016, Paradise River Unit unavailable (8 MW).
- K** As of 1154 hours, October 02, 2016, Holyrood Unit 3 derated to 135 MW (150 MW).
- L** As of 1928 hours, October 03, 2016, Hardwoods Gas Turbine derated to 38 MW (50 MW).
- M** As of 0808 hours, October 04, 2016, Holyrood Diesels unit 5 unavailable (2 MW). No net impact to the Island Interconnected System.
- N** As of 1830 hours, October 04, 2016, Hawkes Bay Diesel Plant unavailable (5 MW).
- O** At 0800 hours, October 06, 2016, St. Anthony Diesel Plant units G5 (546) and G6 (544) unavailable (4 MW).
- P** At 1130 hours, October 06, 2016, Bay d'Espoir Unit 6 unavailable (76.5 MW).
- Q** At 1446 hours, October 06, 2016, Nalcor Exploits Grand Falls Unit 6 available. Net gain to the Island Interconnected System is 4 MW.
- R** At 1830 hours, October 06, 2016, St. Anthony Diesel Plant units G5 (546) and G6 (544) available (4 MW).
- S** At 2007 hours, October 06, 2016, Bay d'Espoir Unit 6 available (76.5 MW).

**Section 2  
Island Interconnected Supply and Demand**

Fri, Oct 07, 2016		Island System Outlook <sup>3</sup>	Seven-Day Forecast	Temperature (°C)		Island System Daily Peak Demand (MW)
				Morning	Evening	
Available Island System Supply: <sup>5</sup>	1,450	MW	Friday, October 07, 2016	11	10	830
NLH Generation: <sup>4</sup>	1,160	MW	Saturday, October 08, 2016	5	5	920
NLH Power Purchases: <sup>6</sup>	125	MW	Sunday, October 09, 2016	9	11	875
Other Island Generation:	165	MW	Monday, October 10, 2016	15	7	990
Current St. John's Temperature:	9	°C	Tuesday, October 11, 2016	5	4	1,080
Current St. John's Windchill:	N/A	°C	Wednesday, October 12, 2016	5	7	1,020
7-Day Island Peak Demand Forecast:	1,080	MW	Thursday, October 13, 2016	7	7	940

**Supply Notes For October 07, 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**

Thu, Oct 06, 2016	Actual Island Peak Demand <sup>8</sup>	07:45	828 MW
Fri, Oct 07, 2016	Forecast Island Peak Demand		830 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).