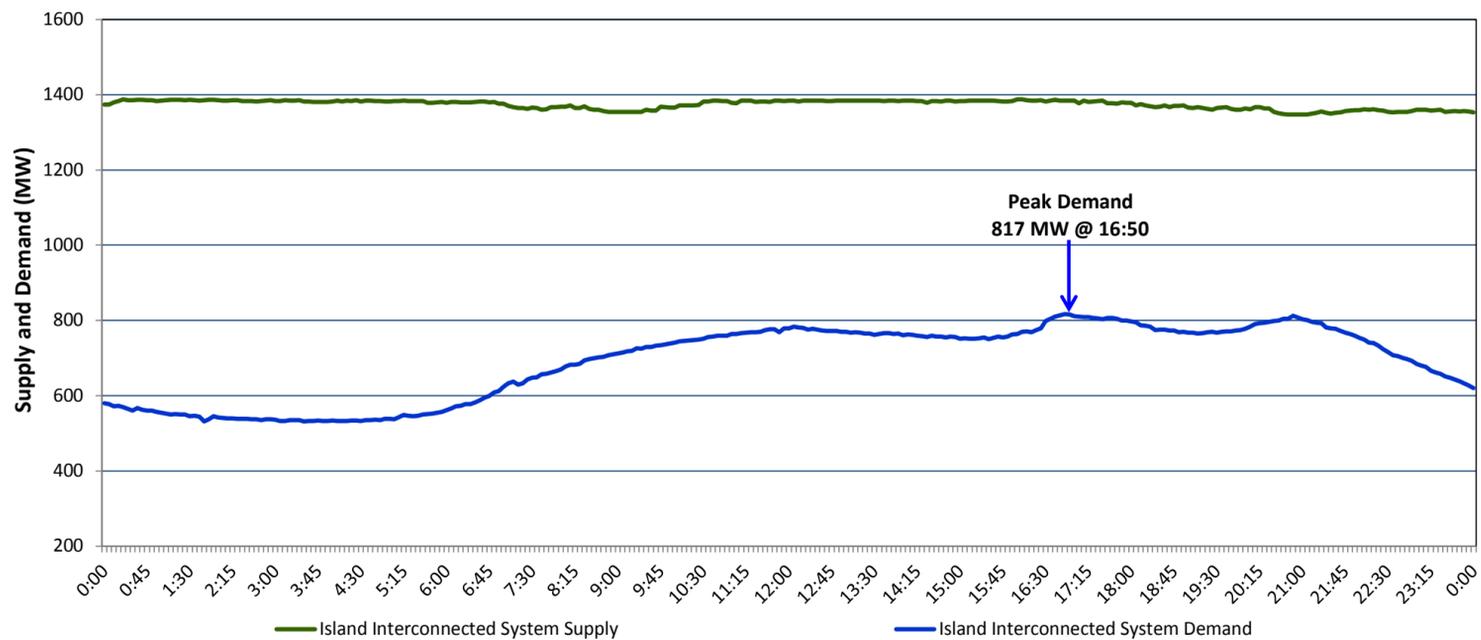


**Newfoundland Labrador Hydro (NLH)**  
**Supply and Demand Status Report Filed Wednesday, August 31, 2016 (Revised - September 01, 2016)**

**Section 1**  
**Island Interconnected System Supply and Demand**  
**Actual 24 Hour System Performance For Tuesday, August 30, 2016**



**Supply Notes For August 30, 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 0822 hours, June 05, 2016, Bay d'Espoir Unit 4 unavailable (76.5 MW).
- D As of 1425 hours, June 16, 2016, Holyrood Unit 2 unavailable. Previously derated to 120 MW (170 MW).
- E As of 1316 hours, July 15, 2016, Nalcor Exploits Grand Falls Unit 4 unavailable. Net impact to the Island Interconnected System is 7 MW.
- F As of 1125 hours, July 18, 2016, Hardwoods Turbine unavailable. Previously derated to 38 MW (50 MW).
- G As of 1451 hours, August 22, 2016, Nalcor Exploits Bishop's Falls plant unavailable. Net impact to the Island Interconnected System is 15 MW.
- H As of 1733 hours, August 26, 2016, Holyrood Unit 3 derated to 135 MW (150 MW).
- I As of 1341 hours, August 27, 2016, Holyrood Unit 1 unavailable. Previously derated to 120 MW (170 MW).
- J As of 0757 hours, August 29, 2016, Bay d'Espoir Unit 5 unavailable (76.5 MW).
- K **At 0536 hours, August 30, 2016, Nalcor Exploits Grand Falls Unit 5 unavailable. No net impact to the Island Interconnected System.**
- L **At 1029 hours, August 30, 2016, Nalcor Exploits Grand Falls Unit 5 available.**

**Section 2**  
**Island Interconnected Supply and Demand**

Wed, Aug 31, 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>	<b>1,295</b> MW	Wednesday, August 31, 2016	11	14	<b>795</b>
NLH Generation: <sup>4</sup>	<b>1,040</b> MW	Thursday, September 01, 2016	12	10	810
NLH Power Purchases: <sup>6</sup>	90 MW	Friday, September 02, 2016	9	10	840
Other Island Generation:	165 MW	Saturday, September 03, 2016	11	10	800
Current St. John's Temperature:	9 °C	Sunday, September 04, 2016	12	13	775
Current St. John's Windchill:	N/A °C	Monday, September 05, 2016	14	16	775
7-Day Island Peak Demand Forecast:	<b>840</b> MW	Tuesday, September 06, 2016	18	20	795

**Supply Notes For August 31, 2016**

- M At 0714 hours, August 31, 2016, Cat Arm Unit 1 unavailable (67 MW).**
- N At 0800 hours, August 31, 2016, Hawkes Bay Diesel Plant unavailable (5 MW).**

- 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, Aug 30, 2016	Actual Island Peak Demand <sup>8</sup>	16:50	817 MW
Wed, Aug 31, 2016	Forecast Island Peak Demand		795 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).