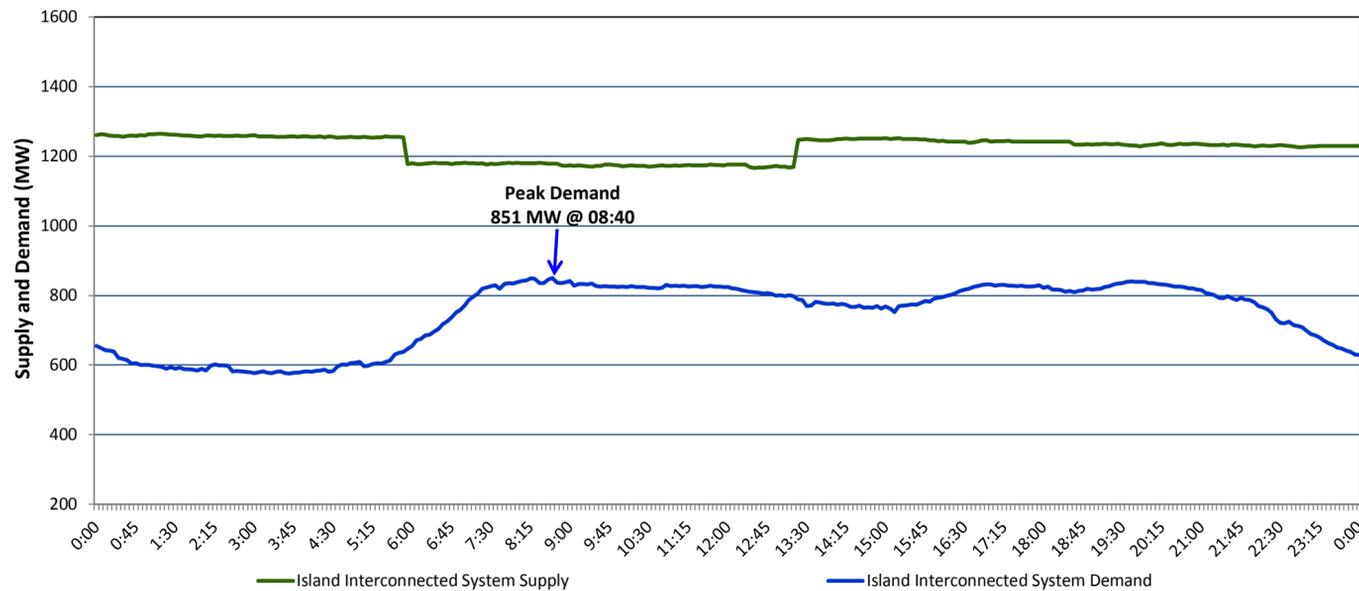


**Newfoundland Labrador Hydro (NLH)  
Supply and Demand Status Report Filed Wednesday, September 21, 2016**

**Section 1  
Island Interconnected System Supply and Demand  
Actual 24 Hour System Performance For Tuesday, September 20, 2016**



**Supply Notes For September 20, 2016**

- <sup>1,2</sup>
- 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 1609 hours, August 31, 2016, Hardwoods Gas Turbine derated to 38 MW (50 MW).
  - H** 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.
  - I** As of 0902 hours, September 12, 2016, Stephenville Gas Turbine End B unavailable (25 MW).
  - J** As of 0717 hours, September 14, 2016, Bay d'Espoir Unit 1 unavailable (76.5 MW).
  - K** As of 0717 hours, September 14, 2016, Bay d'Espoir Unit 2 unavailable (76.5 MW).
  - L** As of 0313 hours, September 15, 2016, Holyrood Unit 2 derated to 130 MW (170 MW).
  - M** As of 2256 hours, September 19, 2016, Holyrood Unit 3 unavailable. Previously derated to 135 MW (150 MW).
  - N** At 0544 hours, September 20, 2016, Bay d'Espoir Unit 4 unavailable (76.5 MW).
  - O** At 1225 hours, September 20, 2016, Hawkes Bay Diesel Plant unavailable (5 MW).
  - P** At 1316 hours, September 20, 2016, Bay d'Espoir Unit 4 available (76.5 MW).
  - Q** At 1833 hours, September 20, 2016, Paradise River Unit unavailable (8 MW).

**Section 2  
Island Interconnected Supply and Demand**

Wed, Sep 21, 2016	Island System Outlook <sup>3</sup>	Seven-Day Forecast	Temperature (°C)		Island System Daily Peak Demand (MW)
			Morning	Evening	Forecast
Available Island System Supply: <sup>5</sup>	<b>1,170 MW</b>	Wednesday, September 21, 2016	14	15	<b>790</b>
NLH Generation: <sup>4</sup>	970 MW	Thursday, September 22, 2016	13	13	825
NLH Power Purchases: <sup>6</sup>	35 MW	Friday, September 23, 2016	10	11	860
Other Island Generation:	165 MW	Saturday, September 24, 2016	9	9	890
Current St. John's Temperature:	12 °C	Sunday, September 25, 2016	8	6	995
Current St. John's Windchill:	N/A °C	Monday, September 26, 2016	6	7	980
7-Day Island Peak Demand Forecast:	<b>995 MW</b>	Tuesday, September 27, 2016	8	7	950

**Supply Notes For September 21, 2016**

- <sup>3</sup>
- R** At 0502 hours, September 21, 2016, Nalcor Exploits Bishop's Falls plant units 1,2,3,4,5,6 and 8 unavailable. Net impact to the Island Interconnected System is 15 MW.
  - S** At 0601 hours, September 21, 2016, Nalcor Exploits Grand Falls Units 5 and 6 unavailable. Net impact to the Island Interconnected System is 8 MW.
  - T** At 0601 hours, September 21, 2016, Nalcor Exploits Grand Falls Unit 8 unavailable. Net impact to the Island Interconnected System is 4 MW.
  - U** At 0601 hours, September 21, 2016, Nalcor Exploits Grand Falls Unit 9 unavailable. Net impact to the Island Interconnected System is 30 MW.
  - V** At 0603 hours, September 21, 2016, Paradise River Unit available (8 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, Sep 20, 2016	Actual Island Peak Demand <sup>8</sup>	08:40	851 MW
Wed, Sep 21, 2016	Forecast Island Peak Demand		790 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).