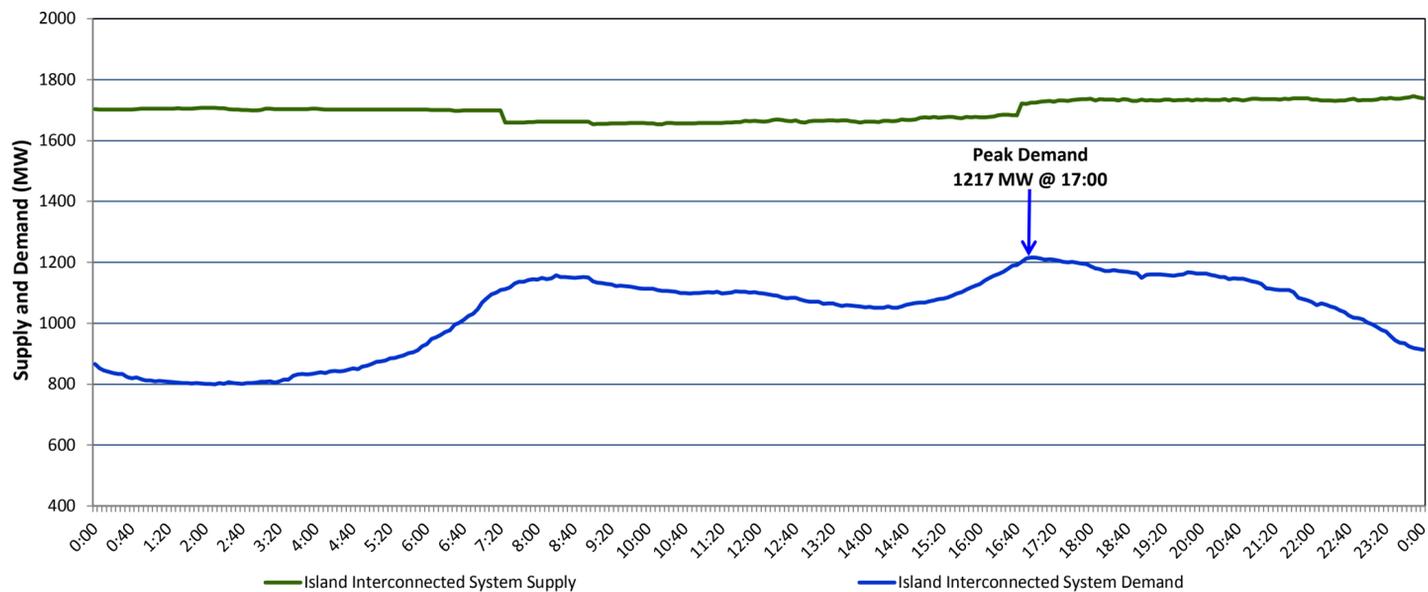


**Newfoundland Labrador Hydro (NLH)
Supply and Demand Status Report Filed Wednesday, November 30, 2016**

**Section 1
Island Interconnected System Supply and Demand
Actual 24 Hour System Performance For Tuesday, November 29, 2016**



Supply Notes For November 29, 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 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 1719 hours, September 09, 2016, Nalcor Exploits Bishop's Falls plant unit 9 unavailable. No net impact to the Island Interconnected System.
- E As of 0717 hours, September 14, 2016, Bay d'Espoir Unit 1 unavailable (76.5 MW).
- F As of 0717 hours, September 14, 2016, Bay d'Espoir Unit 2 unavailable (76.5 MW).
- G As of 2132 hours, October 10, 2016, Nalcor Exploits Bishop's Falls plant units 4 and 8 unavailable. Net impact to the Island Interconnected System is 5 MW.
- H As of 1007 hours, November 04, 2016, Nalcor Exploits Bishop's Falls plant unit 2 unavailable. Net impact to the Island Interconnected System is 2 MW.
- I As of 1245 hours, November 13, 2016, Star Lake Unit unavailable (18 MW).
- J As of 0842 hours, November 19, 2016, Hardwoods Gas Turbine End A unavailable. Previously derated to to 19 MW (25 MW).
- K As of 0840 hours, November 24, 2016, Hardwoods Gas Turbine End B unavailable (25 MW).
- L As of 0746 hours, November 27, 2016, Stephenville Gas Turbine End B unavailable (25 MW).
- M At 0725 hours, November 29, 2016, Granite Canal Unit unavailable (40 MW).
- N At 0856 hours, November 29, 2016, Paradise River Unit unavailable (8 MW).
- O At 1451 hours, November 29, 2016, Paradise River Unit available (8 MW).
- P At 1639 hours, November 29, 2016, Granite Canal Unit available (40 MW).
- Q At 1651 hours, November 29, 2016, Nalcor Exploits Grand Falls Unit 8 available. Net gain to the Island Interconnected System is 4 MW.

**Section 2
Island Interconnected Supply and Demand**

Wed, Nov 30, 2016	Island System Outlook ³	Seven-Day Forecast	Temperature (°C)		Island System Daily Peak Demand (MW)	
			Morning	Evening	Forecast	Adjusted ⁷
Available Island System Supply: ⁵	1,820 MW	Wednesday, November 30, 2016	0	0	1,335	1,319
NLH Generation: ⁴	1,555 MW	Thursday, December 01, 2016	0	1	1,350	1,334
NLH Power Purchases: ⁶	65 MW	Friday, December 02, 2016	2	3	1,305	1,290
Other Island Generation:	200 MW	Saturday, December 03, 2016	2	1	1,285	1,270
Current St. John's Temperature:	-1 °C	Sunday, December 04, 2016	1	0	1,355	1,339
Current St. John's Windchill:	-5 °C	Monday, December 05, 2016	-1	-2	1,440	1,423
7-Day Island Peak Demand Forecast:	1,465 MW	Tuesday, December 06, 2016	-1	-3	1,465	1,448

Supply Notes For November 30, 2016 ³

- R At 0405 hours, November 30, 2016, Nalcor Exploits Grand Falls Unit 6 unavailable. Net impact to the Island Interconnected System is 4 MW.
- S At 0732 hours, November 30, 2016, Bay d'Espoir Unit 1 available (76.5 MW).
- T At 0738 hours, November 30, 2016, Bay d'Espoir Unit 2 available (76.5 MW).
- U At 0742 hours, November 30, 2016, Granite Canal Unit unavailable (40 MW).

- 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.
 - Adjusted for CBP&P interruptible load and the impact of voltage reduction, when applicable.

**Section 3
Island Peak Demand Information
Previous Day Actual Peak and Current Day Forecast Peak**

Tue, Nov 29, 2016	Actual Island Peak Demand ⁸	17:00	1,217 MW
Wed, Nov 30, 2016	Forecast Island Peak Demand		1,335 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).