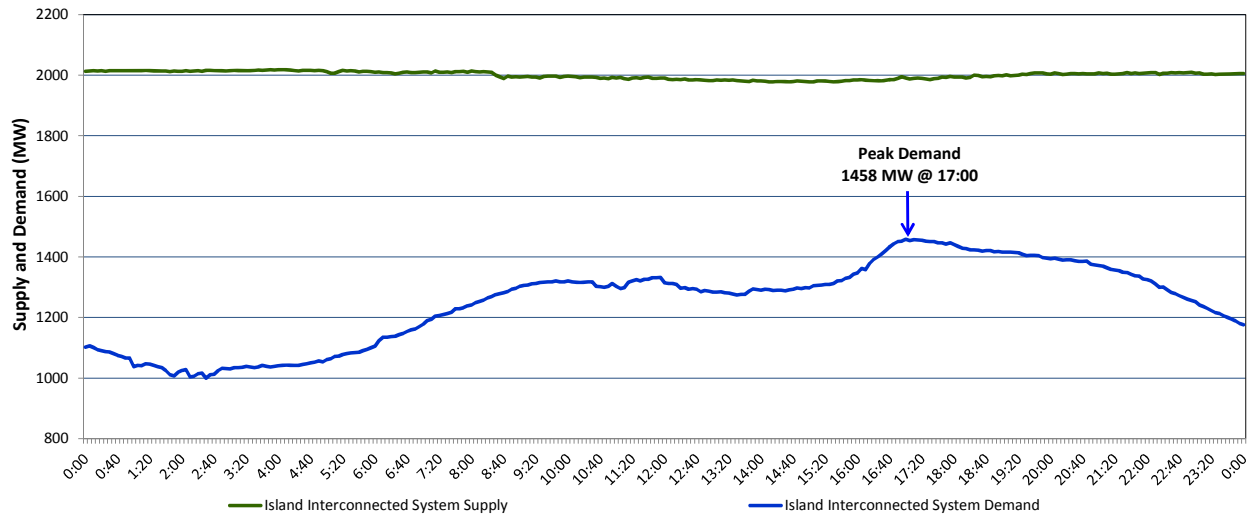


## Newfoundland Labrador Hydro (NLH) Supply and Demand Status Report Filed Thursday, December 29, 2016

### Section 1 Island Interconnected System Supply and Demand Actual 24 Hour System Performance For Wednesday, December 28, 2016



#### Supply Notes For December 28, 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 1719 hours, September 09, 2016, Nalcor Exploits Bishop's Falls plant unit 9 unavailable. No net impact to the Island Interconnected System.
- D** As of 2132 hours, October 10, 2016, Nalcor Exploits Bishop's Falls plant unit 8 unavailable. No net impact to the Island Interconnected System.
- E** As of 1111 hours, December 23, 2016, Holyrood Unit 1 available. Previously derated to 160 MW (170 MW).

### Section 2 Island Interconnected Supply and Demand

Thu, Dec 29, 2016	Island System Outlook <sup>3</sup>	Seven-Day Forecast	Temperature (°C)		Island System Daily Peak Demand (MW)	
			Morning	Evening	Forecast	Adjusted <sup>7</sup>
Available Island System Supply: <sup>3</sup>	1,995 MW	Thursday, December 29, 2016	-2	-2	1,445	1,348
NLH Generation: <sup>4</sup>	1,660 MW	Friday, December 30, 2016	-1	3	1,455	1,358
NLH Power Purchases: <sup>5</sup>	125 MW	Saturday, December 31, 2016	3	0	1,395	1,299
Other Island Generation:	210 MW	Sunday, January 01, 2017	-4	-3	1,345	1,249
Current St. John's Temperature:	-3 °C	Monday, January 02, 2017	-2	-1	1,425	1,328
Current St. John's Windchill:	-9 °C	Tuesday, January 03, 2017	-1	0	1,470	1,373
7-Day Island Peak Demand Forecast:	1,470 MW	Wednesday, January 04, 2017	2	3	1,370	1,274

#### Supply Notes For December 29, 2016 <sup>3</sup>

- 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

Wed, Dec 28, 2016	Actual Island Peak Demand <sup>8</sup>	17:00	1,458 MW
Thu, Dec 29, 2016	Forecast Island Peak Demand		1,445 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).