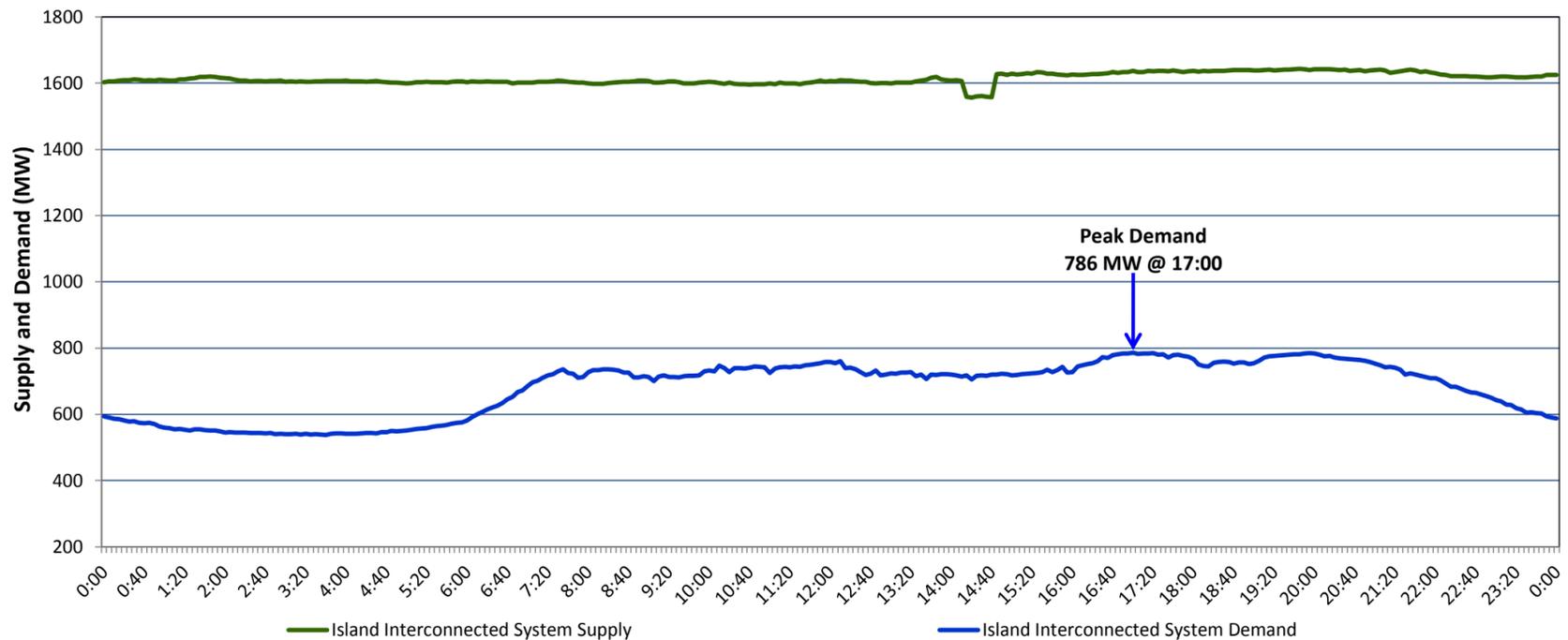


## Newfoundland Labrador Hydro (NLH) Supply and Demand Status Report Filed Thursday, September 21, 2017

### Section 1 Island Interconnected System Supply and Demand Actual 24 Hour System Performance For Wednesday, September 20, 2017



#### Supply Notes For September 20, 2017 <sup>1,2</sup>

- A As of 1858 hours, June 22, 2017, Stephenville Gas Turbine available at 25 MW (50 MW).
- B As of 0827 hours, July 31, 2017, Holyrood Unit 2 unavailable due to planned outage 165 MW (170 MW).
- C As of 1704 hours, August 31, 2017, Hardwoods Gas Turbine available at 25 MW (50 MW).
- D As of 1527 hours, September 17, 2017, Cat Arm Unit 1 unavailable due to planned outage (67 MW).
- E As of 2000 hours, September 17, 2017, Hawke's Bay Diesel Plant available at 2.5 MW due to a planned outage (5 MW).
- F At 1415 hours, September 20, 2017, Holyrood Unit 1 unavailable due to planned outage 50 MW (170 MW).
- G At 1442 hours, September 20, 2017, Holyrood Unit 1 available at 70 MW (170 MW).

### Section 2 Island Interconnected Supply and Demand

Thu, Sep 21, 2017	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>	1,605 MW	Thursday, September 21, 2017	13	10	835
NLH Generation: <sup>4</sup>	1,280 MW	Friday, September 22, 2017	9	12	850
NLH Power Purchases: <sup>6</sup>	135 MW	Saturday, September 23, 2017	11	15	810
Other Island Generation:	190 MW	Sunday, September 24, 2017	10	7	870
Current St. John's Temperature:	12 °C	Monday, September 25, 2017	10	9	905
Current St. John's Windchill:	N/A °C	Tuesday, September 26, 2017	7	6	965
7-Day Island Peak Demand Forecast:	975 MW	Wednesday, September 27, 2017	6	9	975

#### Supply Notes For September 21, 2017 <sup>3</sup>

- H At 0633 hours, September 21, 2017, Stephenville Gas Turbine unavailable due to planned outage 25 MW (50 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

Wed, Sep 20, 2017	Actual Island Peak Demand <sup>8</sup>	17:00	786 MW
Thu, Sep 21, 2017	Forecast Island Peak Demand		835 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).