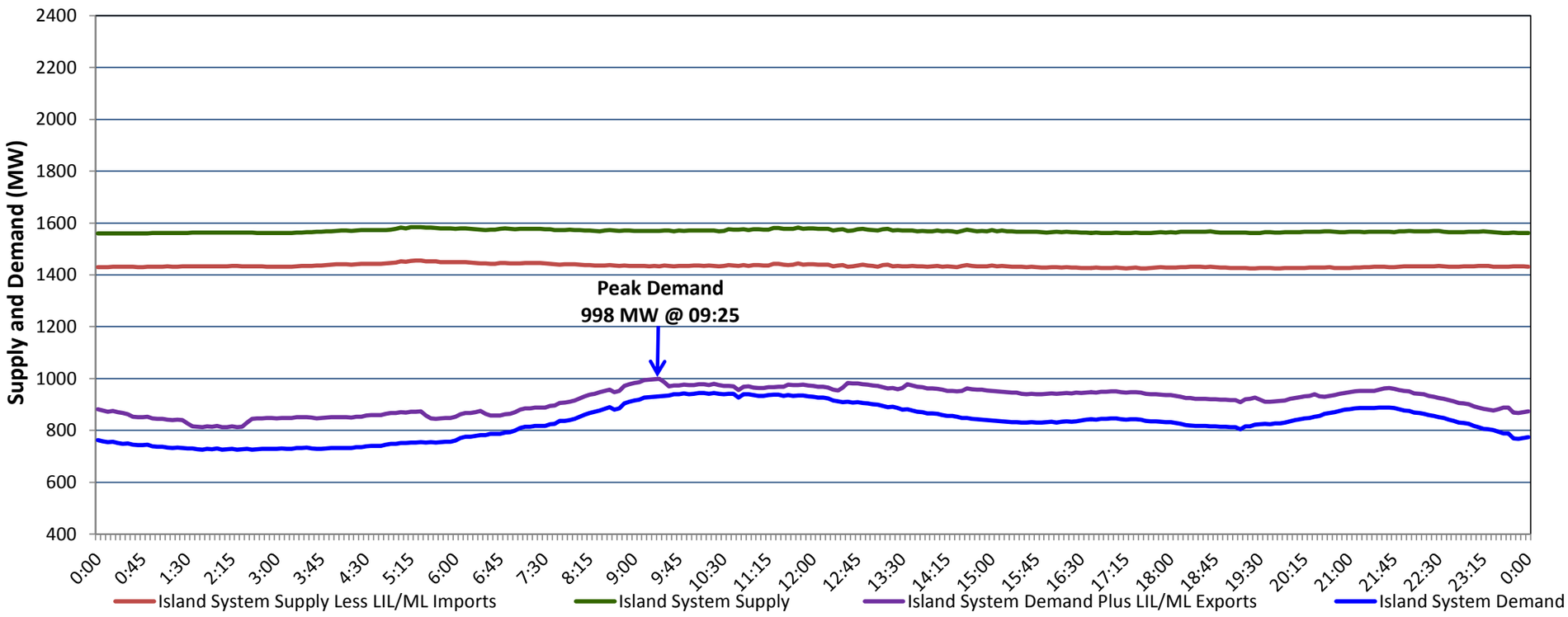
# Newfoundland Labrador Hydro (NLH)
# Supply and Demand Status Report Filed Monday, May 17, 2021

## Section 1
## Island Interconnected System Supply, Demand & Exports
## Actual 24 Hour System Performance For Sunday, May 16, 2021




**Supply Notes For May 16, 2021** [1,2]

**A** As of 0805 hours, April 09, 2021, Holyrood Unit 3 unavailable due to planned outage (150 MW).
**B** As of 1047 hours, April 25, 2021, Bay d'Espoir Unit 1 unavailable due to planned outage (76.5 MW).
**C** As of 0709 hours, May 07, 2021, Bay d'Espoir Unit 2 unavailable due to planned outage (76.5 MW).
**D** As of 1827 hours, May 07, 2021, Holyrood Unit 1 available but not operating (170 MW).
**E** As of 1055 hours, May 15, 2021, Holyrood Gas Turbine unavailable due to planned outage (123.5 MW).

## Section 2
## Island Interconnected Supply and Demand

| Mon, May 17, 2021 | Island System Outlook[3] | | | Seven-Day Forecast | Temperature (°C) Morning | Temperature (°C) Evening | Island System Daily Peak Demand (MW) Forecast | Island System Daily Peak Demand (MW) Adjusted[7] |
|---|---|---|---|---|---|---|---|---|
| Available Island System Supply:[5] | **1,430** | **MW** | | Monday, May 17, 2021 | 2 | 1 | **1,050** | **1,050** |
| NLH Island Generation:[4] | 1,095 | MW | | Tuesday, May 18, 2021 | 3 | 4 | 1,010 | 1,010 |
| NLH Island Power Purchases:[6] | 100 | MW | | Wednesday, May 19, 2021 | 4 | 3 | 1,030 | 1,030 |
| Other Island Generation: | 235 | MW | | Thursday, May 20, 2021 | 4 | 6 | 985 | 985 |
| ML/LIL Imports: | - | MW | | Friday, May 21, 2021 | 9 | 11 | 830 | 830 |
| Current St. John's Temperature & Windchill: | 2 °C | N/A | °C | Saturday, May 22, 2021 | 13 | 14 | 730 | 730 |
| 7-Day Island Peak Demand Forecast: | **1,050** | MW | | Sunday, May 23, 2021 | 15 | 13 | 760 | 760 |

**Supply Notes For May 17, 2021** [3]

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 system having no synchronous connections to the larger North American grid, when there is a sudden loss of large generating units there may be a requirement for some customer's load to 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 (UFLS), is necessary to ensure the integrity and reliability of system equipment. Under frequency events have typically occurred 5 to 8 times per year on the Island Interconnected System and the resultant customer load interruptions are generally less than 30 minutes. With the activation of the Maritime Link frequency controller during the winter of 2018, UFLS events have occurred less frequently.
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 Island Power Purchases include: CBPP Co-Gen, Nalcor Exploits, Rattle Brook, Star Lake, Wind Generation and capacity assistance (when applicable).
7. Adjusted for curtailable load, market activities and the impact of voltage reduction when applicable.

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

| | | | | |
|---|---|---|---|---|
| Sun, May 16, 2021 | Actual Island Peak Demand[8] | 09:25 | 998 | MW |
| Mon, May 17, 2021 | Forecast Island Peak Demand | | 1,050 | MW |

Notes: 8. Island Demand / LIL / ML Exports (where applicable) is supplied by NLH generation and purchases, plus generation owned and operated by Newfoundland Power and Corner Brook Pulp & Paper (Deer Lake Power, DLP).