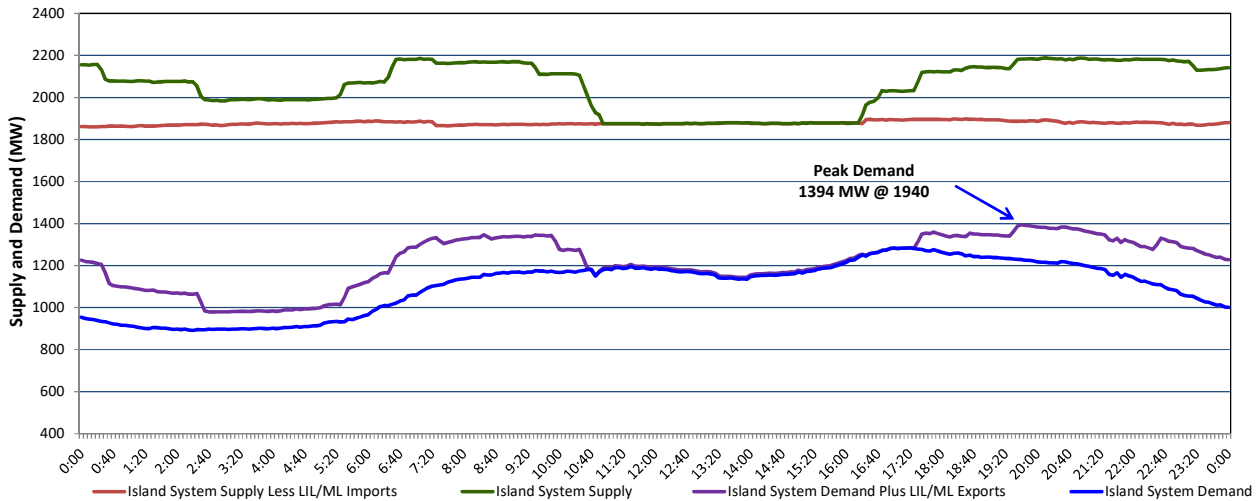


## Newfoundland Labrador Hydro (NLH) Supply and Demand Status Report Filed Wednesday, December 21, 2022

### Section 1 Island Interconnected System Supply, Demand & Exports Actual 24 Hour System Performance For Tuesday, December 20, 2022



#### Supply Notes For December 20, 2022

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A As of 0930 hours, December 08, 2022, Holyrood Unit 1 unavailable due to planned outage 80 MW (170 MW).

### Section 2 Island Interconnected Supply and Demand

Wed, Dec 21, 2022	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>5</sup>	1,887 MW	Wednesday, December 21, 2022	0	0	1,455	1,358
NLH Island Generation: <sup>4,8</sup>	1,525 MW	Thursday, December 22, 2022	-2	-3	1,365	1,269
NLH Island Power Purchases: <sup>6</sup>	140 MW	Friday, December 23, 2022	-2	-1	1,380	1,284
Other Island Generation:	220 MW	Saturday, December 24, 2022	0	6	1,360	1,264
ML/LIL Imports:	2 MW	Sunday, December 25, 2022	4	1	1,250	1,156
Current St. John's Temperature & Windchill:	0 °C   -6 °C	Monday, December 26, 2022	-1	0	1,285	1,190
7-Day Island Peak Demand Forecast:	1,455 MW	Tuesday, December 27, 2022	-1	-3	1,380	1,284

#### Supply Notes For December 21, 2022

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- 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 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.
  - 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 Island Power Purchases include: CBPP Co-Gen, Nalcor Exploits, Rattle Brook, Star Lake, Wind Generation and capacity assistance (when applicable).
  - Adjusted for curtailable load, market activities and the impact of voltage reduction when applicable.
  - Due to limitations inherent in the design of combustion turbines, the output of combustion turbines may be reduced in the event that ambient temperatures exceed the threshold

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

Tue, Dec 20, 2022	Actual Island Peak Demand <sup>9</sup>	19:40	1,394 MW
Wed, Dec 21, 2022	Forecast Island Peak Demand		1,455 MW

Notes: 9. 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).