

Newfoundland Labrador Hydro (NLH) Supply and Demand Status Report Filed Monday, January 24, 2022

Section 1 Island Interconnected System Supply, Demand & Exports Actual 24 Hour System Performance For Sunday, January 23, 2022



Supply Notes For January 23, 2022

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A As of 1715 hours, January 21, 2022, Holyrood Unit 2 available at 150 MW (170 MW).

Section 2 Island Interconnected Supply and Demand

Mon, Jan 24, 2022	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	2,218	MW	Monday, January 24, 2022	-5	-1	1,545	1,439
NLH Island Generation: ^{4,8}	1,675	MW	Tuesday, January 25, 2022	-1	-5	1,375	1,271
NLH Island Power Purchases: ⁶	120	MW	Wednesday, January 26, 2022	1	4	1,310	1,207
Other Island Generation:	230	MW	Thursday, January 27, 2022	-3	-8	1,490	1,385
ML/LIL Imports:	193	MW	Friday, January 28, 2022	-8	-4	1,450	1,345
Current St. John's Temperature & Windchill:	-3 °C	-8 °C	Saturday, January 29, 2022	-6	-1	1,285	1,182
7-Day Island Peak Demand Forecast:	1,545	MW	Sunday, January 30, 2022	5	3	1,170	1,068

Supply Notes For January 24, 2022

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- 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.
 8. 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 required for full rated output. This threshold is dependent on the design of each turbine.

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

Sun, Jan 23, 2022	Actual Island Peak Demand ⁹	17:30	1,560 MW
Mon, Jan 24, 2022	Forecast Island Peak Demand		1,545 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).