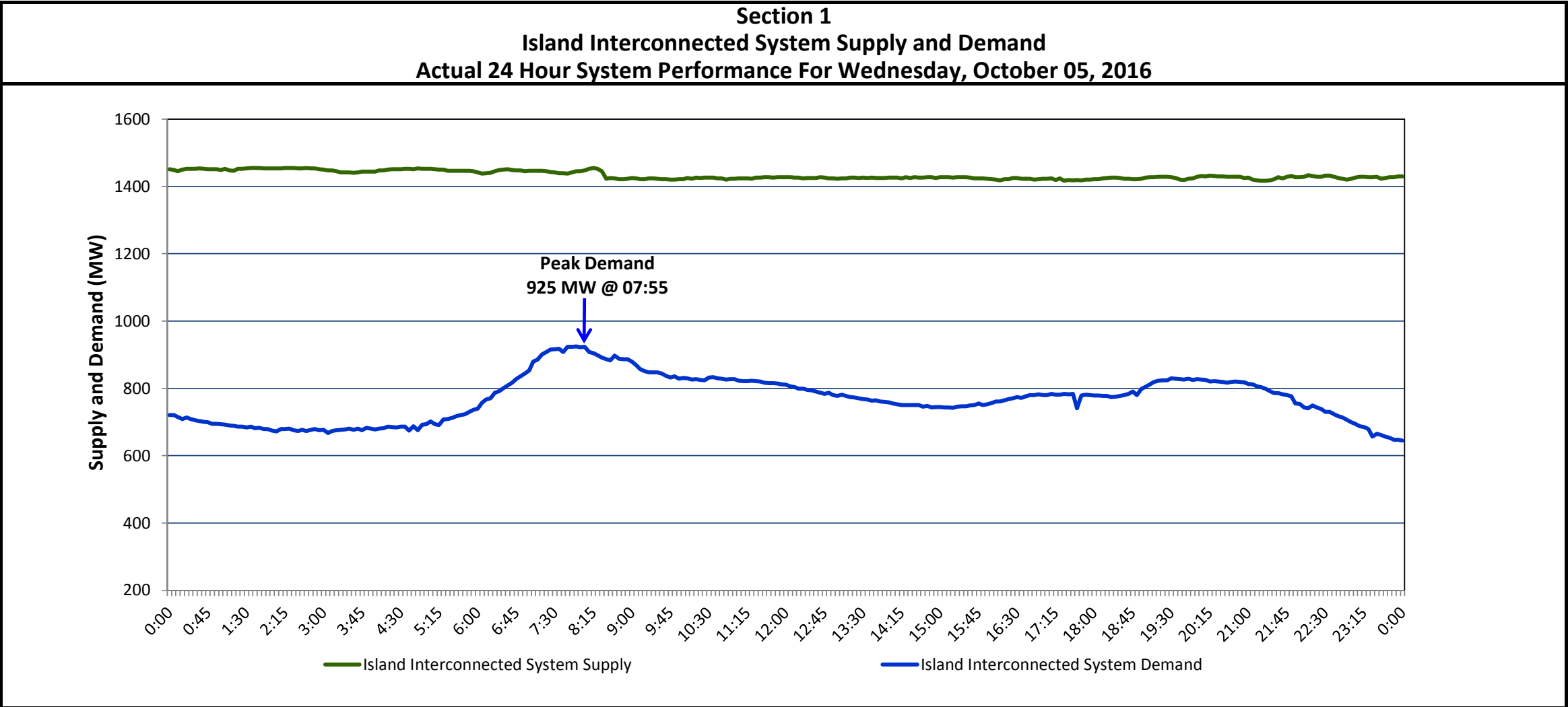


Newfoundland Labrador Hydro (NLH)
Supply and Demand Status Report Filed Thursday, October 06, 2016



Supply Notes For October 05, 2016^{1,2}

| | |
|---|--|
| 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 1316 hours, July 15, 2016, Nalcor Exploits Grand Falls Unit 4 unavailable. Net impact to the Island Interconnected System is 7 MW. |
| D | As of 1341 hours, August 27, 2016, Holyrood Unit 1 unavailable. Previously derated to 120 MW (170 MW). |
| E | As of 0757 hours, August 29, 2016, Bay d'Espoir Unit 5 unavailable (76.5 MW). |
| F | As of 0714 hours, August 31, 2016, Cat Arm Unit 1 unavailable (67 MW). |
| G | As of 1719 hours, September 09, 2016, Nalcor Exploits Bishop's Falls plant units 7 and 9 unavailable. No net impact to the Island Interconnected System. |
| H | As of 0717 hours, September 14, 2016, Bay d'Espoir Unit 1 unavailable (76.5 MW). |
| I | As of 0717 hours, September 14, 2016, Bay d'Espoir Unit 2 unavailable (76.5 MW). |
| J | As of 1956 hours, September 30, 2016, Paradise River Unit unavailable (8 MW). |
| K | As of 1154 hours, October 02, 2016, Holyrood Unit 3 derated to 135 MW (150 MW). |
| L | As of 0408 hours, October 03, 2016, Nalcor Exploits Grand Falls Unit 6 unavailable. Net impact to the Island Interconnected System is 4 MW. |
| M | As of 1928 hours, October 03, 2016, Hardwoods Gas Turbine derated to 38 MW (50 MW). |
| N | As of 0808 hours, October 04, 2016, Holyrood Diesels unit 5 unavailable (2 MW). No net impact to the Island Interconnected System. |
| O | As of 1830 hours, October 04, 2016, Hawkes Bay Diesel Plant unavailable (5 MW). |
| P | At 1839 hours, October 05, 2016, St. Anthony Diesel Plant units G1 (525) and G2 (523) available (2 MW). |

Section 2
Island Interconnected Supply and Demand

| Thu, Oct 06, 2016 | | | Island System Outlook ³ | | Seven-Day Forecast | | Temperature (°C) | | Island System Daily Peak Demand (MW) | |
|---|--|--|------------------------------------|----|-----------------------------|--|------------------|---------|--------------------------------------|--|
| | | | | | | | Morning | Evening | Forecast | |
| Available Island System Supply: ⁵ | | | 1,420 | MW | Thursday, October 06, 2016 | | 10 | 12 | 865 | |
| NLH Generation: ⁴ | | | 1,155 | MW | Friday, October 07, 2016 | | 12 | 13 | 840 | |
| NLH Power Purchases: ⁶ | | | 100 | MW | Saturday, October 08, 2016 | | 7 | 7 | 895 | |
| Other Island Generation: | | | 165 | MW | Sunday, October 09, 2016 | | 10 | 10 | 900 | |
| Current St. John's Temperature: | | | 8 | °C | Monday, October 10, 2016 | | 13 | 9 | 950 | |
| Current St. John's Windchill: | | | N/A | °C | Tuesday, October 11, 2016 | | 6 | 5 | 1,045 | |
| 7-Day Island Peak Demand Forecast: | | | 1,045 | MW | Wednesday, October 12, 2016 | | 7 | 9 | 940 | |
| Supply Notes For October 06, 2016 ³ | | | | | | | | | | |
| Q At 0800 hours, October 06, 2016, St. Anthony Diesel Plant units G5 (546) and G6 (544) unavailable (4 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, Oct 05, 2016 | Actual Island Peak Demand ⁸ | 07:55 | 925 MW |
| Thu, Oct 06, 2016 | Forecast Island Peak Demand | | 865 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). | | | |