

Requests for Information

Q. Provide Newfoundland Power's generation capacity that was available to supply customers in December 2013 and January 2014. In the reply state whether the capacity is hydro or thermal and whether it was unavailable at anytime during this period, why it was unavailable and its operational status as of January 24, 2014.

A. A summary of Newfoundland Power's generation capacity that was available to supply customers in December 2013 and January 2014 is summarized in Table 1 below, and the capacity and operational status of each plant as of January 24th, 2014 are listed in Table 2. A detailed listing of occasions when plants were unavailable during this period is included in Table 3.

Table 1 Generation Availability			
Date	Daily Hydro Availability (MW)	Daily Thermal Availability (MW)	Daily Total Availability (MW)
1-Dec-13 ¹	92	42	133
2-Dec-13	92	42	133
3-Dec-13	92	42	133
4-Dec-13	92	42	133
5-Dec-13	92	42	133
6-Dec-13	92	42	133
7-Dec-13	92	42	133
8-Dec-13	92	42	133
9-Dec-13	92	42	133
10-Dec-13	92	35	127
11-Dec-13	85	35	120
12-Dec-13	85	35	120
13-Dec-13	85	35	120
14-Dec-13	85	35	120
15-Dec-13	85	35	120
16-Dec-13	85	35	120
17-Dec-13	85	35	120
18-Dec-13	89	33	122
19-Dec-13	89	33	122
20-Dec-13	89	33	122
21-Dec-13	80	33	113

¹ The response to Request for Information PUB-NLH-001 indicates the total capacity available on December 1st, 2013 at 1715 hours from Newfoundland Power was 127 MW. This is 6 MW (133 MW – 127 MW) less than what was actually available. The difference reflects the Company's mobile gas turbine (6.5 MW) being connected and made available at Whitbourne on November 26th, 2013.

Table 1 Generation Availability (Cont'd)			
Date	Daily Hydro Availability (MW)	Daily Thermal Availability (MW)	Daily Total Availability (MW)
22-Dec-13	80	33	113
23-Dec-13	80	33	113
24-Dec-13	86	33	119
25-Dec-13	86	33	119
26-Dec-13	86	33	119
27-Dec-13	87	33	120
28-Dec-13	87	33	120
29-Dec-13	87	33	120
30-Dec-13	86	33	119
31-Dec-13	89	39	128
1-Jan-14	89	39	128
2-Jan-14	89	39	128
3-Jan-14	89	39	128
4-Jan-14 ²	89	19	108
5-Jan-14 ²	89	9	98
6-Jan-14	89	29	118
7-Jan-14	87	27	114
8-Jan-14	87	27	114
9-Jan-14	87	27	114
10-Jan-14	87	27	114
11-Jan-14	87	27	114
12-Jan-14	87	27	114
13-Jan-14	87	27	114
14-Jan-14	87	27	114
15-Jan-14 ³	87	27	114
16-Jan-14	87	27	114
17-Jan-14	87	27	114
18-Jan-14	87	27	114
19-Jan-14	87	27	114
20-Jan-14	87	27	114
21-Jan-14	87	27	114
22-Jan-14	94	37	131
23-Jan-14	87	37	124
24-Jan-14	94	37	131

² On January 4th and 5th, 2014 the Greenhill gas turbine was capable of running but was out of service with no fuel available. See Table 3 for details.

³ The response to Request for Information PUB-NLH-001 indicates the total capacity available on January 15th, 2014 at 1715 hours from Newfoundland Power was 124 MW. This is 10 MW (124 MW – 114 MW) more than what was actually available. The difference reflects the Wesleyville gas turbine (10 MW) being out of service from January 5-22, 2014.

Table 2
Newfoundland Power Generation Summary
January 24th, 2014

Hydro Plants	Capacity (MW)	Available (MW)	Operational Status January 24, 2014
Cape Broyle	6.280	6.280	Available
Hearts Content	2.700	2.700	Available
Horsechops	8.130	8.130	Available
Mobile	10.500	10.500	Available
Morris	1.100	1.100	Available
New Chelsea	4.300	4.300	Available
Petty Harbour G1	1.450	1.450	Available
Petty Harbour G2	1.350	1.350	Available
Petty Harbour G3	2.450	2.450	Available
Pierre's Brook	4.100	4.100	Available
Pitman's	0.625	0.600	Available
Rocky Pond	3.250	3.250	Available
Seal Cove G1	1.300	1.300	Available
Seal Cove G2	2.280	2.280	Available
Topsail	2.600	2.600	Available
Tors Cove G1	2.050	2.050	Available
Tors Cove G2	2.050	2.050	Available
Tors Cove G3	2.400	0.000	Out of service AC Drive failure
Victoria	0.550	0.550	Available
Total Avalon	59.465	57.040	
Fall Pond	0.350	0.350	Available
Lawn	0.600	0.600	Available
West Brook	0.680	0.000	Out of service. Bearing replacement
Total Burin	1.630	0.950	
Lockston G1	1.500	1.500	Available
Lockston G2	1.500	1.500	Available
Port Union G1	0.255	0.255	Available
Port Union G2	0.256	0.256	Available
Rattling Brook G1	7.400	7.400	Available
Rattling Brook G2	7.400	7.400	Available
Sandy Brook	6.310	6.310	Available
Total Central	24.621	24.621	
Lookout Brook G3	2.800	2.800	Available
Lookout Brook G4	3.000	3.000	Available
Rose Blanche 2 Turbines	6.000	6.000	Available
Total Western	11.800	11.800	
Total Hydro	97.516	94.411	

1

Table 2 Newfoundland Power Generation Summary January 24th, 2014 (Cont'd)			
Thermal Plants	Capacity (MW)	Available (MW)	Operational Status January 24, 2014
Port Aux Basques Diesel	2.500	0.000	Out of service. Bearing damage
Portable Diesel (MD3)	2.500	0.000	Out of Service. Bearing replacement
Mobile Gas Turbine (MGT)	6.500	6.500	Available. Located at Holyrood
Greenhill Gas Turbine	20.000	20.000	Available
Wesleyville Gas Turbine	10.000	10.000	Available
Total Thermal	41.500	36.500	
Total Company	139.016	130.911	

Table 3
Generation Outage Summary Dec 01/2013 - Jan 24/2014

	Outage		Duration	
Hydro Plant	Start	Finish	(Hours)	Reason for Unavailability
Cape Broyle	12/6/13 9:18	12/6/13 9:46	0:28	Tripped on cooling temp
	12/26/13 16:17	12/26/13 18:23	2:06	Tripped on start-up - Bearing Oil Level
	12/28/13 20:30	12/29/13 14:48	18:18	Bearing Oil Level
Hearts Content	12/15/13 16:49	12/15/13 18:34	1:45	Ice in Forebay
	12/17/13 7:13	12/17/13 8:57	1:44	Plant lockout
	12/18/13 12:36	12/18/13 14:30	1:54	Ice in Forebay
	12/27/13 7:01	12/27/13 7:51	0:50	Generator Trip
	12/29/13 5:59	12/29/13 7:29	1:30	Ice in Forebay
	1/8/14 17:45	1/8/14 23:24	5:39	Ice in Forebay
	1/14/14 17:08	1/14/14 18:54	1:46	Ice in Forebay
	1/23/14 9:49	1/23/14 11:10	1:21	Ice in Forebay
Horsechops	12/20/13 22:24	12/30/13 19:05		Trip on 20L. Remained off due to low water level
	12/31/14 5:56	12/31/14 7:46	1:50	PLC Network Module Fault
	1/5/14 19:20	1/5/14 19:45	0:25	RTD Board Failure
Mobile	12/11/13 9:18	12/11/13 10:21	1:03	Turbine Oil level
Morris	12/8/13 4:50	12/9/13 10:30	5:40	Blocked trash racks
	12/20/13 22:24	12/23/13 15:24		Trip on 20L. Remained off due to low water level
	12/23/13 18:45	12/27/13 9:59		Plant Lockout
	12/29/13 17:53	12/30/13 16:24	22:31	Blocked trash racks
New Chelsea	6/17/13 14:00	12/18/13 12:00		Out of service for planned rewind/runner replacement
	12/19/13 3:35	12/19/13 4:36	1:01	Governor alarm
	1/8/14 22:57	1/9/14 12:15	13:18	Fault on feeder NCH-03 supplying the forebay
	1/10/14 16:58	1/10/14 18:04	1:06	AC Drive Failure
	1/17/14 4:30	1/17/14 5:00	0:30	AC Drive Failure
	1/23/14 7:55	1/24/14 7:59	24:04	AC Drive Failure

Table 3
Generation Outage Summary Dec 01/2013 - Jan 24/2014
(Cont'd)

	Outage		Duration	
Hydro Plant	Start	Finish	(Hours)	Reason for Unavailability
Petty Harbour G2	12/15/13 0:35	12/15/13 9:38	9:03	Feeder PHR-01 tripped supplying the forebay
	12/15/13 17:12	12/15/13 17:57	0:45	Governor alarm
	1/1/14 11:25	1/1/14 11:58	0:33	Governor alarm
Petty Harbour G3	12/15/2013 5:03	12/15/2013 5:44	0:51	Bearing cooling water
	12/15/2013 18:03	12/15/2013 18:16	0:13	Bearing cooling water
	12/28/2013 8:09	12/28/2013 9:34	1:25	Bearing cooling water
	12/29/2013 17:25	12/29/2013 19:11	1:46	Turbine over speed
	12/30/2013 9:29	12/30/2013 16:02	6:33	Over current
	1/8/2014 15:08	1/8/2014 15:38	0:30	Over current
	1/8/2014 15:42	1/8/2014 15:46	0:04	Over current
	1/23/2014 8:40	1/23/2014 9:00	0:20	Cooling water
Pierre's Brook	1/23/14 13:52	1/23/14 15:02	1:10	Forebay Line Tripped
Pitman's	6/6/13 10:10	12/19/13 12:00		Out of service until 12/19/2013 for planned runner replacement
	12/29/13 11:19	12/29/13 16:29	5:10	Trip on 65L transmission line
	1/14/14 7:32	1/14/14 8:26	0:54	Plant locked out
Rocky Pond	12/14/13 12:09	12/14/13 12:30	0:21	Plant lockout on over speed
	12/20/13 22:24	12/21/13 14:10	15:46	Transmission line 20L tripped
Seal Cove G1	12/30/13 11:20	12/30/13 13:40	2:20	Plant locked out
	1/14/14 8:03	1/14/14 9:15	1:12	Blocked trash racks
Seal Cove G2	12/30/13 11:20	12/30/13 13:40	2:20	Plant locked out
	1/14/14 8:03	1/14/14 9:15	1:12	Blocked trash racks
Tors Cove G2	12/23/13 11:20	12/30/13 10:10		Governor issue.
Tors Cove G3	1/6/14 17:55			Out of service AC drive Failure. Expected return 1/31/2014
Victoria	1/12/14 2:34	1/12/14 8:30	5:56	Trip on CAR 40L Breaker
	1/23/14 12:53	1/24/14 16:08	27:15	Water level Meter damaged with lightning

Table 3
Generation Outage Summary Dec 01/2013 - Jan 24/2014
(Cont'd)

	Outage		Duration	
Hydro Plant	Start	Finish	(Hours)	Reason for Unavailability
Lawn	12/19/13 9:03	12/19/13 13:16	4:13	Bus Lockout
West Brook	9/17/14 9:27			Out of service bearing replacement. Expected return 2/14/2014
Rattling Brook G1	12/10/13 11:00	1/21/14 1:35		Out of service 12/10/2013 – 1/21/2014 with damaged rotor pole
	1/22/14 09:05	1/23/14 09:03	24:00	Exciter inspection required
Lookout Brook G3	1/8/14 9:58	1/8/14 16:30	6:32	Alarm on brush gear temperature
Lookout Brook G4	12/23/13 0:42	12/23/13 4:52	3:48	Alarm on brush gear temperature
Rose Blanche	12/25/13 17:29	12/25/13 22:50	5:21	LGL-02 tripped
	Outage		Duration	
Thermal Plant	Start	Finish	(Hours)	Reason for Unavailability
PAB Diesel	1/6/14 12:01			Out of service. Bearing damage
Portable Diesel MD3	12/18/13 8:00			Out of service. Bearing replacement
Wesleyville GT	1/4/14 16:00	1/22/14 18:32		Out of service 1/4/2013 – 1/22/2014 lube oil cooler leak.
Mobile GT	12/09/13 9:00	12/30/13 17:00		Unavailable due to transport from Whitbourne to Holyrood Generating Station and to reconnect to system.
Greenhill GT	1/3/2014 19:00	1/4/2014 16:00	21:00	Lack of fuel supply to operate.
Greenhill GT	1/4/2014 19:14	1/5/2014 13:45	18:30	Lack of fuel supply to operate.