

Load and Resource Assessment for NSPI
(All values in MW except as noted)

2011

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
A Total System Peak	2301	2207	1978	1821	1613	1514	1580	1578	1507	1652	1890	2198
B Interruptible Demand	326	328	310	316	334	333	333	327	335	329	336	326
C Firm Peak (A - B)	1975	1879	1668	1505	1280	1181	1247	1251	1171	1323	1554	1872
D Required Reserve (C * 20%)	395	376	334	301	256	236	249	250	234	265	311	374
E Required Capacity (C + D)	2370	2254	2002	1806	1535	1418	1497	1501	1406	1588	1864	2246
F Existing Resources	2338	2338	2338	2338	2338	2338	2338	2338	2338	2338	2338	2338
Total Cumulative Additions:												
G Thermal	49	49	49	49	49	49	49	49	49	49	49	49
H Hydro	0	0	0	0	0	0	0	0	0	0	0	0
I Firm Contracted Wind *	43	43	43	43	43	43	43	43	43	43	43	43
J Nuttby Wind Project (firm) *	16	16	16	16	16	16	16	16	16	16	16	16
K Firm RES (2015) *	0	0	0	0	0	0	0	0	0	0	0	0
L Less Derations	0	0	38	188	241	258	260	261	245	191	39	0
Total Firm Supply Resources												
M (F + G + H + I + J + K - L)	2445	2445	2406	2256	2204	2187	2184	2183	2200	2253	2406	2445
+ Surplus / - Deficit (M - E) *	75	190	404	450	669	769	688	682	794	665	542	198
Reserve Margin % (M - C) / C *	24%	30%	44%	50%	72%	85%	75%	75%	88%	70%	55%	31%

Notes:

- 1) Demand values as per NSPI 2010 Load Forecast, April 2010 - demand values include the effects of DSM
 - 2) Resource additions as outlined in the 2010 10 Year System Outlook (<http://oasis.nspower.ca/en/home/default/forecastsandassessments.aspx>)
 - Thermal and Hydro Capacity additions as per the Port Hawkesbury (PH) Biomass (Base Case) Plan. (The PH Biomass Project is configured as an Energy Resource Interconnection Service (ERIS) and is therefore not included in the table.)
 - Firm Contracted Wind and Nuttby Wind includes wind projects expected to be in-service by 2011. The assumed firm capacity contribution is based on a combined three year average of actual capacity factor during peak hours and the annual forecasted value (as per formula agreed on by NSPI and the Renewable Energy Industry Association of Nova Scotia and as modeled in the NSPI 2009 IRP Update).
 - Firm RES (2015) represents an addition of renewable energy to comply with the 2015 RES announced in the Province's Renewable Electricity Plan in April 2010. The RES 2015 is assumed to be met by wind (100MW installed) with a firm capacity contribution of approximately 40 percent based on the winter capacity factor (generator capacity multiplied by the winter capacity factor of 40 percent).
 - 3) Derations include seasonal variability in wind capacity and thermal unit reductions due to ambient temperature and maintenance.
 - 4) NSPI planning criteria requires a reserve margin equal to 20% of its firm system load.
- * Reflects an assumed firm capacity value of intermittent wind generation for long-term planning purposes. For short-term assessments (e.g. 18-Month Load and Capacity Assessment) the assumed on peak capacity may be less.

Load and Resource Assessment for NSPI
(All values in MW except as noted)

2012

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
A Total System Peak	2302	2212	1982	1825	1617	1518	1584	1582	1510	1656	1894	2203
B Interruptible Demand	325	329	310	317	334	334	334	328	336	330	337	327
C Firm Peak (A - B)	1977	1883	1672	1509	1282	1184	1250	1254	1174	1326	1557	1876
D Required Reserve (C * 20%)	395	377	334	302	256	237	250	251	235	265	311	375
E Required Capacity (C + D)	2372	2259	2006	1810	1539	1421	1500	1504	1409	1591	1869	2251
F Existing Resources	2338	2338	2338	2338	2338	2338	2338	2338	2338	2338	2338	2338
Total Cumulative Additions:												
G Thermal	49	49	49	49	49	49	49	49	49	49	49	49
H Hydro	4	4	4	4	4	4	4	4	4	4	4	4
I Firm Contracted Wind *	51	51	51	51	51	51	51	51	51	51	51	51
J Nuttby Wind Project (firm) *	16	16	16	16	16	16	16	16	16	16	16	16
K Firm RES (2015) *	0	0	0	0	0	0	0	0	0	0	0	0
L Less Derations	0	0	41	191	244	261	263	264	248	194	42	0
Total Firm Supply Resources												
M (F + G + H + I + J + K - L)	2458	2458	2416	2266	2214	2197	2194	2193	2210	2263	2416	2458
+ Surplus / - Deficit (M - E) *	85	198	410	456	675	776	694	689	801	672	547	206
Reserve Margin % (M - C) / C *	24%	31%	45%	50%	73%	86%	76%	75%	88%	71%	55%	31%

Notes:

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 - Thermal and Hydro Capacity additions as per the Port Hawkesbury (PH) Biomass (Base Case) Plan. (The PH Biomass Project is configured as an Energy Resource Interconnection Service (ERIS) and is therefore not included in the table.)
 - Firm Contracted Wind and Nuttby Wind includes wind projects expected to be in-service by 2011. The assumed firm capacity contribution is based on a combined three year average of actual capacity factor during peak hours and the annual forecasted value (as per formula agreed on by NSPI and the Renewable Energy Industry Association of Nova Scotia and as modeled in the NSPI 2009 IRP Update).
 - Firm RES (2015) represents an addition of renewable energy to comply with the 2015 RES announced in the Province's Renewable Electricity Plan in April 2010. The RES 2015 is assumed to be met by wind (100MW installed) with a firm capacity contribution of approximately 40 percent based on the winter capacity factor (generator capacity multiplied by the winter capacity factor of 40 percent).
 - 3) Derations include seasonal variability in wind capacity and thermal unit reductions due to ambient temperature and maintenance.
 - 4) NSPI planning criteria requires a reserve margin equal to 20% of its firm system load.
- * Reflects an assumed firm capacity value of intermittent wind generation for long-term planning purposes. For short-term assessments (e.g. 18-Month Load and Capacity Assessment) the assumed on peak capacity may be less.

Load and Resource Assessment for NSPI
(All values in MW except as noted)

2013

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
A Total System Peak	2282	2196	1968	1812	1605	1507	1572	1570	1499	1644	1880	2187
B Interruptible Demand	318	326	308	314	332	331	331	326	334	327	334	324
C Firm Peak (A - B)	1964	1869	1660	1498	1273	1176	1241	1245	1166	1317	1546	1863
D Required Reserve (C * 20%)	393	374	332	300	255	235	248	249	233	263	309	373
E Required Capacity (C + D)	2356	2243	1992	1797	1528	1411	1489	1494	1399	1580	1855	2235
F Existing Resources	2338	2338	2338	2338	2338	2338	2338	2338	2338	2338	2338	2338
Total Cumulative Additions:												
G Thermal	49	49	49	49	49	49	49	49	49	49	49	49
H Hydro	4	4	4	4	4	4	4	4	4	4	4	4
I Firm Contracted Wind *	51	51	51	51	51	51	51	51	51	51	51	51
J Nuttby Wind Project (firm) *	16	16	16	16	16	16	16	16	16	16	16	16
K Firm RES (2015) *	0	0	0	0	0	0	0	0	0	0	0	0
L Less Derations	0	0	41	191	244	261	263	264	248	194	42	0
Total Firm Supply Resources												
M (F + G + H + I + J + K - L)	2458	2458	2416	2266	2214	2197	2194	2193	2210	2263	2416	2458
+ Surplus / - Deficit (M - E) *	101	214	424	469	686	786	705	700	811	683	561	222
Reserve Margin % (M - C) / C *	25%	31%	46%	51%	74%	87%	77%	76%	90%	72%	56%	32%

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 - Firm RES (2015) represents an addition of renewable energy to comply with the 2015 RES announced in the Province's Renewable Electricity Plan in April 2010. The RES 2015 is assumed to be met by wind (100MW installed) with a firm capacity contribution of approximately 40 percent based on the winter capacity factor (generator capacity multiplied by the winter capacity factor of 40 percent).
 - 3) Derations include seasonal variability in wind capacity and thermal unit reductions due to ambient temperature and maintenance.
 - 4) NSPI planning criteria requires a reserve margin equal to 20% of its firm system load.
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2014

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A Total System Peak	2254	2173	1948	1794	1589	1491	1556	1554	1484	1627	1861	2165
B Interruptible Demand	310	323	305	311	329	328	328	322	330	324	331	321
C Firm Peak (A - B)	1945	1850	1643	1482	1260	1164	1228	1232	1153	1303	1530	1844
D Required Reserve (C * 20%)	389	370	329	296	252	233	246	246	231	261	306	369
E Required Capacity (C + D)	2334	2220	1971	1779	1512	1396	1474	1478	1384	1564	1836	2212
F Existing Resources	2338	2338	2338	2338	2338	2338	2338	2338	2338	2338	2338	2338
Total Cumulative Additions:												
G Thermal	49	49	49	49	49	49	49	49	49	49	49	49
H Hydro	4	4	4	4	4	4	4	4	4	4	4	4
I Firm Contracted Wind *	51	51	51	51	51	51	51	51	51	51	51	51
J Nuttby Wind Project (firm) *	16	16	16	16	16	16	16	16	16	16	16	16
K Firm RES (2015) *	0	0	0	0	0	0	0	0	0	0	0	0
L Less Derations	0	0	41	191	244	261	263	264	248	194	42	0
Total Firm Supply Resources												
M (F + G + H + I + J + K - L)	2458	2458	2416	2266	2214	2197	2194	2193	2210	2263	2416	2458
+ Surplus / - Deficit (M - E) *	124	237	445	487	702	800	720	715	825	699	580	245
Reserve Margin % (M - C) / C *	26%	33%	47%	53%	76%	89%	79%	78%	92%	74%	58%	33%

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2015

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
A Total System Peak	2229	2153	1929	1776	1574	1477	1541	1539	1470	1611	1843	2144
B Interruptible Demand	302	320	302	308	325	325	325	319	327	321	328	318
C Firm Peak (A - B)	1927	1833	1627	1468	1248	1152	1217	1220	1142	1291	1516	1826
D Required Reserve (C * 20%)	385	367	325	294	250	230	243	244	228	258	303	365
E Required Capacity (C + D)	2313	2199	1953	1762	1498	1383	1460	1464	1371	1549	1819	2191
F Existing Resources	2338	2338	2338	2338	2338	2338	2338	2338	2338	2338	2338	2338
Total Cumulative Additions:												
G Thermal	49	49	49	49	49	49	49	49	49	49	49	49
H Hydro	4	4	4	4	4	4	4	4	4	4	4	4
I Firm Contracted Wind *	51	51	51	51	51	51	51	51	51	51	51	51
J Nuttby Wind Project (firm) *	16	16	16	16	16	16	16	16	16	16	16	16
K Firm RES (2015) *	40	40	40	40	40	40	40	40	40	40	40	40
L Less Derations	0	0	61	211	264	281	283	284	268	214	62	0
Total Firm Supply Resources												
M (F + G + H + I + J + K - L)	2498	2498	2436	2286	2234	2217	2214	2213	2230	2283	2436	2498
+ Surplus / - Deficit (M - E) *	185	298	484	524	736	834	754	749	859	734	617	306
Reserve Margin % (M - C) / C *	30%	36%	50%	56%	79%	92%	82%	81%	95%	77%	61%	37%

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Load and Resource Assessment for NSPI
(All values in MW except as noted)

2016

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
A Total System Peak	2197	2127	1906	1755	1555	1460	1523	1521	1452	1592	1821	2119
B Interruptible Demand	294	316	299	305	322	321	321	315	323	317	324	314
C Firm Peak (A - B)	1903	1811	1608	1451	1233	1139	1202	1206	1129	1275	1498	1804
D Required Reserve (C * 20%)	381	362	322	290	247	228	240	241	226	255	300	361
E Required Capacity (C + D)	2284	2173	1929	1741	1480	1366	1443	1447	1355	1530	1797	2165
F Existing Resources	2338	2338	2338	2338	2338	2338	2338	2338	2338	2338	2338	2338
Total Cumulative Additions:												
G Thermal	49	49	49	49	49	49	49	49	49	49	49	49
H Hydro	4	4	4	4	4	4	4	4	4	4	4	4
I Firm Contracted Wind *	51	51	51	51	51	51	51	51	51	51	51	51
J Nuttby Wind Project (firm) *	16	16	16	16	16	16	16	16	16	16	16	16
K Firm RES (2015) *	40	40	40	40	40	40	40	40	40	40	40	40
L Less Derations	0	0	61	211	264	281	283	284	268	214	62	0
Total Firm Supply Resources												
M (F + G + H + I + J + K - L)	2498	2498	2436	2286	2234	2217	2214	2213	2230	2283	2436	2498
+ Surplus / - Deficit (M - E) *	213	325	507	545	754	850	772	766	875	753	639	332
Reserve Margin % (M - C) / C *	31%	38%	52%	58%	81%	95%	84%	84%	97%	79%	63%	38%

Notes:

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2017

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
A Total System Peak	2165	2100	1883	1733	1535	1441	1504	1502	1434	1572	1799	2092
B Interruptible Demand	286	312	295	301	318	317	317	311	319	313	320	310
C Firm Peak (A - B)	1879	1788	1588	1433	1218	1124	1187	1191	1115	1259	1479	1782
D Required Reserve (C * 20%)	376	358	318	287	244	225	237	238	223	252	296	356
E Required Capacity (C + D)	2254	2146	1905	1719	1461	1349	1424	1429	1338	1511	1775	2138
F Existing Resources	2338	2338	2338	2338	2338	2338	2338	2338	2338	2338	2338	2338
Total Cumulative Additions:												
G Thermal	49	49	49	49	49	49	49	49	49	49	49	49
H Hydro	4	4	4	4	4	4	4	4	4	4	4	4
I Firm Contracted Wind *	51	51	51	51	51	51	51	51	51	51	51	51
J Nuttby Wind Project (firm) *	16	16	16	16	16	16	16	16	16	16	16	16
K Firm RES (2015) *	40	40	40	40	40	40	40	40	40	40	40	40
L Less Derations	0	0	61	211	264	281	283	284	268	214	62	0
Total Firm Supply Resources												
M (F + G + H + I + J + K - L)	2498	2498	2436	2286	2234	2217	2214	2213	2230	2283	2436	2498
+ Surplus / - Deficit (M - E) *	243	352	531	567	773	867	790	785	892	772	661	359
Reserve Margin % (M - C) / C *	33%	40%	53%	60%	83%	97%	87%	86%	100%	81%	65%	40%

Notes:

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2018

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A Total System Peak	2134	2076	1860	1713	1517	1424	1486	1484	1417	1554	1777	2067
B Interruptible Demand	279	309	291	297	314	313	313	308	315	309	316	307
C Firm Peak (A - B)	1855	1767	1569	1416	1203	1111	1173	1177	1102	1245	1461	1761
D Required Reserve (C * 20%)	371	353	314	283	241	222	235	235	220	249	292	352
E Required Capacity (C + D)	2226	2120	1883	1699	1444	1333	1408	1412	1322	1493	1754	2113
F Existing Resources	2338	2338	2338	2338	2338	2338	2338	2338	2338	2338	2338	2338
Total Cumulative Additions:												
G Thermal	49	49	49	49	49	49	49	49	49	49	49	49
H Hydro	4	4	4	4	4	4	4	4	4	4	4	4
I Firm Contracted Wind *	51	51	51	51	51	51	51	51	51	51	51	51
J Nuttby Wind Project (firm) *	16	16	16	16	16	16	16	16	16	16	16	16
K Firm RES (2015) *	40	40	40	40	40	40	40	40	40	40	40	40
L Less Derations	0	0	61	211	264	281	283	284	268	214	62	0
Total Firm Supply Resources												
M (F + G + H + I + J + K - L)	2498	2498	2436	2286	2234	2217	2214	2213	2230	2283	2436	2498
+ Surplus / - Deficit (M - E) *	271	377	553	587	790	883	807	801	908	790	682	385
Reserve Margin % (M - C) / C *	35%	41%	55%	61%	86%	99%	89%	88%	102%	83%	67%	42%

Notes:

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 - 3) Derations include seasonal variability in wind capacity and thermal unit reductions due to ambient temperature and maintenance.
 - 4) NSPI planning criteria requires a reserve margin equal to 20% of its firm system load.
- * Reflects an assumed firm capacity value of intermittent wind generation for long-term planning purposes. For short-term assessments (e.g. 18-Month Load and Capacity Assessment) the assumed on peak capacity may be less.

Load and Resource Assessment for NSPI
(All values in MW except as noted)

2019

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
A Total System Peak	2103	2050	1838	1692	1499	1407	1468	1466	1400	1535	1756	2042
B Interruptible Demand	272	305	288	294	310	309	309	304	312	305	312	303
C Firm Peak (A - B)	1831	1745	1550	1398	1189	1098	1159	1162	1088	1229	1443	1739
D Required Reserve (C * 20%)	366	349	310	280	238	220	232	232	218	246	289	348
E Required Capacity (C + D)	2197	2094	1860	1678	1426	1317	1390	1395	1306	1475	1732	2087
F Existing Resources	2338	2338	2338	2338	2338	2338	2338	2338	2338	2338	2338	2338
Total Cumulative Additions:												
G Thermal	49	49	49	49	49	49	49	49	49	49	49	49
H Hydro	4	4	4	4	4	4	4	4	4	4	4	4
I Firm Contracted Wind *	51	51	51	51	51	51	51	51	51	51	51	51
J Nuttby Wind Project (firm) *	16	16	16	16	16	16	16	16	16	16	16	16
K Firm RES (2015) *	40	40	40	40	40	40	40	40	40	40	40	40
L Less Derations	0	0	61	211	264	281	283	284	268	214	62	0
Total Firm Supply Resources												
M (F + G + H + I + J + K - L)	2498	2498	2436	2286	2234	2217	2214	2213	2230	2283	2436	2498
+ Surplus / - Deficit (M - E) *	301	403	576	608	808	899	824	819	924	808	704	411
Reserve Margin % (M - C) / C *	36%	43%	57%	63%	88%	102%	91%	90%	105%	86%	69%	44%

Notes:

- 1) Demand values as per NSPI 2010 Load Forecast, April 2010 - demand values include the effects of DSM
 - 2) Resource additions as outlined in the 2010 10 Year System Outlook (<http://oasis.nspower.ca/en/home/default/forecastsandassessments.aspx>)
 - Thermal and Hydro Capacity additions as per the Port Hawkesbury (PH) Biomass (Base Case) Plan. (The PH Biomass Project is configured as an Energy Resource Interconnection Service (ERIS) and is therefore not included in the table.)
 - Firm Contracted Wind and Nuttby Wind includes wind projects expected to be in-service by 2011. The assumed firm capacity contribution is based on a combined three year average of actual capacity factor during peak hours and the annual forecasted value (as per formula agreed on by NSPI and the Renewable Energy Industry Association of Nova Scotia and as modeled in the NSPI 2009 IRP Update).
 - Firm RES (2015) represents an addition of renewable energy to comply with the 2015 RES announced in the Province's Renewable Electricity Plan in April 2010. The RES 2015 is assumed to be met by wind (100MW installed) with a firm capacity contribution of approximately 40 percent based on the winter capacity factor (generator capacity multiplied by the winter capacity factor of 40 percent).
 - 3) Derations include seasonal variability in wind capacity and thermal unit reductions due to ambient temperature and maintenance.
 - 4) NSPI planning criteria requires a reserve margin equal to 20% of its firm system load.
- * Reflects an assumed firm capacity value of intermittent wind generation for long-term planning purposes. For short-term assessments (e.g. 18-Month Load and Capacity Assessment) the assumed on peak capacity may be less.

Load and Resource Assessment for NSPI
(All values in MW except as noted)

2020

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
A Total System Peak	2066	2021	1811	1668	1477	1387	1447	1445	1380	1513	1730	2013
B Interruptible Demand	266	300	284	289	306	305	305	300	307	301	308	299
C Firm Peak (A - B)	1800	1720	1527	1378	1172	1082	1142	1145	1072	1212	1423	1714
D Required Reserve (C * 20%)	360	344	305	276	234	216	228	229	214	242	285	343
E Required Capacity (C + D)	2160	2064	1833	1654	1406	1298	1370	1374	1287	1454	1707	2057
F Existing Resources	2338	2338	2338	2338	2338	2338	2338	2338	2338	2338	2338	2338
Total Cumulative Additions:												
G Thermal	49	49	49	49	49	49	49	49	49	49	49	49
H Hydro	4	4	4	4	4	4	4	4	4	4	4	4
I Firm Contracted Wind *	51	51	51	51	51	51	51	51	51	51	51	51
J Nuttby Wind Project (firm) *	16	16	16	16	16	16	16	16	16	16	16	16
K Firm RES (2015) *	40	40	40	40	40	40	40	40	40	40	40	40
L Less Derations	0	0	61	211	264	281	283	284	268	214	62	0
Total Firm Supply Resources												
M (F + G + H + I + J + K - L)	2498	2498	2436	2286	2234	2217	2214	2213	2230	2283	2436	2498
+ Surplus / - Deficit (M - E) *	337	433	603	632	828	918	844	839	943	829	729	441
Reserve Margin % (M - C) / C *	39%	45%	59%	66%	91%	105%	94%	93%	108%	88%	71%	46%

Notes:

- 1) Demand values as per NSPI 2010 Load Forecast, April 2010 - demand values include the effects of DSM
 - 2) Resource additions as outlined in the 2010 10 Year System Outlook (<http://oasis.nspower.ca/en/home/default/forecastsandassessments.aspx>)
 - Thermal and Hydro Capacity additions as per the Port Hawkesbury (PH) Biomass (Base Case) Plan. (The PH Biomass Project is configured as an Energy Resource Interconnection Service (ERIS) and is therefore not included in the table.)
 - Firm Contracted Wind and Nuttby Wind includes wind projects expected to be in-service by 2011. The assumed firm capacity contribution is based on a combined three year average of actual capacity factor during peak hours and the annual forecasted value (as per formula agreed on by NSPI and the Renewable Energy Industry Association of Nova Scotia and as modeled in the NSPI 2009 IRP Update).
 - Firm RES (2015) represents an addition of renewable energy to comply with the 2015 RES announced in the Province's Renewable Electricity Plan in April 2010. The RES 2015 is assumed to be met by wind (100MW installed) with a firm capacity contribution of approximately 40 percent based on the winter capacity factor (generator capacity multiplied by the winter capacity factor of 40 percent).
 - 3) Derations include seasonal variability in wind capacity and thermal unit reductions due to ambient temperature and maintenance.
 - 4) NSPI planning criteria requires a reserve margin equal to 20% of its firm system load.
- * Reflects an assumed firm capacity value of intermittent wind generation for long-term planning purposes. For short-term assessments (e.g. 18-Month Load and Capacity Assessment) the assumed on peak capacity may be less.