

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	2157	1996	1898	1579	1362	1323	1403	1344	1318	1436	1738	1930
B Interruptible Demand	156	134	222	219	206	225	240	235	237	222	225	145
C Firm Peak (A - B)	2001	1862	1676	1360	1156	1098	1163	1110	1081	1214	1514	1785
D Required Reserve (C x 20%)	400	372	335	272	231	220	233	222	216	243	303	357
E Required Capacity (C + D)	2401	2235	2011	1632	1387	1317	1396	1332	1297	1457	1816	2142
F Existing Resources	2405	2405	2405	2405	2405	2405	2405	2405	2405	2405	2405	2405
Firm Resource Additions:												
G Thermal Additions	33	33	33	33	33	33	33	33	33	33	33	33
H Biomass	43	43	43	43	43	43	43	43	43	43	43	43
I Community Feed-in-Tariff	14	14	14	14	14	14	14	14	14	14	14	14
J Tidal Feed-in-Tariff	1	1	1	1	1	1	1	1	1	1	1	1
K Maritime Link Import	0	0	0	0	0	0	0	0	0	0	0	0
L Less Derations	0	0	150	333	382	385	504	504	504	336	150	0
Total Firm Supply Resources												
M (F + G + H + I + J + K - L)	2496	2496	2346	2163	2113	2111	1992	1992	1992	2160	2345	2496
+ Surplus / - Deficit (M - E)	94	261	334	530	726	793	596	660	695	703	529	354
Reserve Margin % (M - C) / C	25%	34%	40%	59%	83%	92%	71%	79%	84%	78%	55%	40%

Notes:

- 1) Demand values as per NSPI 2018 Load Forecast Report (including the effects of DSM).
- 2) Existing Resources include firm capacity contribution from hydro, steam, combined cycle, combustion turbine, Independent Power Producers (IPP) and renewable resources. Energy Resource Interconnection Service (ERIS) and Network Resource Interconnection Service (NRIS) wind projects are assumed to have a firm capacity contribution of 17% of their installed capacity.
- 3) Resource additions as outlined in the 2018 10 Year System Outlook (<http://oasis.nspower.ca/en/home/oasis/forecasts-and-assessments.aspx>):
 - Thermal Capacity additions include Burnside #4 (33 MW) assumed returned to service by the end of Q2, 2018. Also includes assumed unit retirement of Lingan 2 unit in 2020 (shown as a negative value) once the Maritime Link Base Block provides firm capacity service.
 - Biomass includes the Port Hawkesbury Biomass plant which will be able to provide firm service following the transmission upgrades required for the Maritime Link. This will allow for up to 45 MW to be counted as firm; however, testing of net operating capacity indicates the unit can be credited with 43 MW of firm capacity.
 - The Community Feed-in-Tariff represents distribution-connected renewable energy projects totalling 179 MW installed by the beginning of 2020 (157 MW wind and 22 MW non-wind).
 - The Tidal Feed-in-Tariff assumes projects totalling 6.5 MW installed by 2020.
 - The Maritime Link Import represents the Base Block portion that will provide firm capacity service.
- 4) Derations include thermal unit reductions due to ambient temperature, planned maintenance and seasonal shut downs.
- 5) NSPI planning criteria requires a minimum reserve margin equal to 20% of its forecasted firm peak load.
- 6) This table reflects the firm capacity value of intermittent generation assumed 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	2172	1998	1903	1579	1360	1320	1401	1341	1314	1433	1737	1932
B Interruptible Demand	158	137	225	223	209	229	244	238	241	226	228	148
C Firm Peak (A - B)	2015	1861	1678	1357	1151	1091	1157	1103	1073	1207	1509	1784
D Required Reserve (C x 20%)	403	372	336	271	230	218	231	221	215	241	302	357
E Required Capacity (C + D)	2418	2234	2013	1628	1381	1309	1389	1324	1287	1448	1811	2140
F Existing Resources	2405	2405	2405	2405	2405	2405	2405	2405	2405	2405	2405	2405
Firm Resource Additions:												
G Thermal Additions	33	33	33	33	33	33	-120	-120	-120	-120	-120	-120
H Biomass	43	43	43	43	43	43	43	43	43	43	43	43
I Community Feed-in-Tariff	16	16	16	16	16	16	16	16	16	16	16	16
J Tidal Feed-in-Tariff	1	1	1	1	1	1	1	1	1	1	1	1
K Maritime Link Import	0	0	0	0	0	0	153	153	153	153	153	153
L Less Derations	0	0	150	333	382	385	442	504	504	336	150	0
Total Firm Supply Resources												
M (F + G + H + I + J + K - L)	2499	2499	2349	2166	2116	2114	2057	1995	1995	2163	2348	2499
+ Surplus / - Deficit (M - E)	81	265	335	538	735	805	668	671	707	715	537	358
Reserve Margin % (M - C) / C	24%	34%	40%	60%	84%	94%	78%	81%	86%	79%	56%	40%

Notes:

- Demand values as per NSPI 2018 Load Forecast Report (including the effects of DSM).
- Existing Resources include firm capacity contribution from hydro, steam, combined cycle, combustion turbine, Independent Power Producers (IPP) and renewable resources. Energy Resource Interconnection Service (ERIS) and Network Resource Interconnection Service (NRIS) wind projects are assumed to have a firm capacity contribution of 17% of their installed capacity.
- Resource additions as outlined in the 2018 10 Year System Outlook (<http://oasis.nspower.ca/en/home/oasis/forecasts-and-assessments.aspx>):
 - Thermal Capacity additions include Burnside #4 (33 MW) assumed returned to service by the end of Q2, 2018. Also includes assumed unit retirement of Lingan 2 unit in 2020 (shown as a negative value) once the Maritime Link Base Block provides firm capacity service.
 - Biomass includes the Port Hawkesbury Biomass plant which will be able to provide firm service following the transmission upgrades required for the Maritime Link. This will allow for up to 45 MW to be counted as firm; however, testing of net operating capacity indicates the unit can be credited with 43 MW of firm capacity.
 - The Community Feed-in-Tariff represents distribution-connected renewable energy projects totalling 179 MW installed by the beginning of 2020 (157 MW wind and 22 MW non-wind).
 - The Tidal Feed-in-Tariff assumes projects totalling 6.5 MW installed by 2020.
 - The Maritime Link Import represents the Base Block portion that will provide firm capacity service.
- Derations include thermal unit reductions due to ambient temperature, planned maintenance and seasonal shut downs.
- NSPI planning criteria requires a minimum reserve margin equal to 20% of its forecasted firm peak load.
- This table reflects the firm capacity value of intermittent generation assumed 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)

2021

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
A Total System Peak	2174	2004	1904	1574	1355	1312	1394	1335	1306	1426	1734	1933
B Interruptible Demand	157	137	225	223	209	229	244	238	240	226	228	148
C Firm Peak (A - B)	2016	1867	1679	1352	1146	1084	1151	1096	1066	1200	1507	1785
D Required Reserve (C x 20%)	403	373	336	270	229	217	230	219	213	240	301	357
E Required Capacity (C + D)	2420	2241	2014	1622	1375	1300	1381	1316	1279	1440	1808	2142
F Existing Resources	2405	2405	2405	2405	2405	2405	2405	2405	2405	2405	2405	2405
Firm Resource Additions:												
G Thermal Additions	-120	-120	-120	-120	-120	-120	-120	-120	-120	-120	-120	-120
H Biomass	43	43	43	43	43	43	43	43	43	43	43	43
I Community Feed-in-Tariff	16	16	16	16	16	16	16	16	16	16	16	16
J Tidal Feed-in-Tariff	1	1	1	1	1	1	1	1	1	1	1	1
K Maritime Link Import	153	153	153	153	153	153	153	153	153	153	153	153
L Less Derations	0	0	156	339	388	391	448	448	448	342	150	0
Total Firm Supply Resources												
M (F + G + H + I + J + K - L)	2499	2499	2343	2160	2110	2108	2051	2051	2051	2157	2348	2499
+ Surplus / - Deficit (M - E)	79	258	328	537	735	808	670	735	772	716	541	357
Reserve Margin % (M - C) / C	24%	34%	40%	60%	84%	95%	78%	87%	92%	80%	56%	40%

Notes:

- 1) Demand values as per NSPI 2018 Load Forecast Report (including the effects of DSM).
- 2) Existing Resources include firm capacity contribution from hydro, steam, combined cycle, combustion turbine, Independent Power Producers (IPP) and renewable resources. Energy Resource Interconnection Service (ERIS) and Network Resource Interconnection Service (NRIS) wind projects are assumed to have a firm capacity contribution of 17% of their installed capacity.
- 3) Resource additions as outlined in the 2018 10 Year System Outlook (<http://oasis.nspower.ca/en/home/oasis/forecasts-and-assessments.aspx>):
 - Thermal Capacity additions include Burnside #4 (33 MW) assumed returned to service by the end of Q2, 2018. Also includes assumed unit retirement of Lingan 2 unit in 2020 (shown as a negative value) once the Maritime Link Base Block provides firm capacity service.
 - Biomass includes the Port Hawkesbury Biomass plant which will be able to provide firm service following the transmission upgrades required for the Maritime Link. This will allow for up to 45 MW to be counted as firm; however, testing of net operating capacity indicates the unit can be credited with 43 MW of firm capacity.
 - The Community Feed-in-Tariff represents distribution-connected renewable energy projects totalling 179 MW installed by the beginning of 2020 (157 MW wind and 22 MW non-wind).
 - The Tidal Feed-in-Tariff assumes projects totalling 6.5 MW installed by 2020.
 - The Maritime Link Import represents the Base Block portion that will provide firm capacity service.
- 4) Derations include thermal unit reductions due to ambient temperature, planned maintenance and seasonal shut downs.
- 5) NSPI planning criteria requires a minimum reserve margin equal to 20% of its forecasted firm peak load.
- 6) This table reflects the firm capacity value of intermittent generation assumed 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)

2022

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
A Total System Peak	2178	2009	1909	1575	1354	1311	1394	1333	1303	1424	1737	1938
B Interruptible Demand	157	137	225	222	209	229	243	238	240	226	228	148
C Firm Peak (A - B)	2021	1872	1684	1352	1146	1082	1151	1095	1063	1199	1509	1790
D Required Reserve (C x 20%)	404	374	337	270	229	216	230	219	213	240	302	358
E Required Capacity (C + D)	2425	2246	2021	1623	1375	1299	1381	1314	1276	1439	1811	2149
F Existing Resources	2405	2405	2405	2405	2405	2405	2405	2405	2405	2405	2405	2405
Firm Resource Additions:												
G Thermal Additions	-120	-120	-120	-120	-120	-120	-120	-120	-120	-120	-120	-120
H Biomass	43	43	43	43	43	43	43	43	43	43	43	43
I Community Feed-in-Tariff	16	16	16	16	16	16	16	16	16	16	16	16
J Tidal Feed-in-Tariff	1	1	1	1	1	1	1	1	1	1	1	1
K Maritime Link Import	153	153	153	153	153	153	153	153	153	153	153	153
L Less Derations	0	0	150	333	382	385	442	442	442	336	150	0
Total Firm Supply Resources												
M (F + G + H + I + J + K - L)	2499	2499	2349	2166	2116	2114	2057	2057	2057	2163	2348	2499
+ Surplus / - Deficit (M - E)	73	252	328	543	741	815	676	742	781	724	538	350
Reserve Margin % (M - C) / C	24%	33%	39%	60%	85%	95%	79%	88%	93%	80%	56%	40%

Notes:

- 1) Demand values as per NSPI 2018 Load Forecast Report (including the effects of DSM).
- 2) Existing Resources include firm capacity contribution from hydro, steam, combined cycle, combustion turbine, Independent Power Producers (IPP) and renewable resources. Energy Resource Interconnection Service (ERIS) and Network Resource Interconnection Service (NRIS) wind projects are assumed to have a firm capacity contribution of 17% of their installed capacity.
- 3) Resource additions as outlined in the 2018 10 Year System Outlook (<http://oasis.nspower.ca/en/home/oasis/forecasts-and-assessments.aspx>):
 - Thermal Capacity additions include Burnside #4 (33 MW) assumed returned to service by the end of Q2, 2018. Also includes assumed unit retirement of Lingan 2 unit in 2020 (shown as a negative value) once the Maritime Link Base Block provides firm capacity service.
 - Biomass includes the Port Hawkesbury Biomass plant which will be able to provide firm service following the transmission upgrades required for the Maritime Link. This will allow for up to 45 MW to be counted as firm; however, testing of net operating capacity indicates the unit can be credited with 43 MW of firm capacity.
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 - The Tidal Feed-in-Tariff assumes projects totalling 6.5 MW installed by 2020.
 - The Maritime Link Import represents the Base Block portion that will provide firm capacity service.
- 4) Derations include thermal unit reductions due to ambient temperature, planned maintenance and seasonal shut downs.
- 5) NSPI planning criteria requires a minimum reserve margin equal to 20% of its forecasted firm peak load.
- 6) This table reflects the firm capacity value of intermittent generation assumed 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)

2023

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
A Total System Peak	2184	2015	1914	1576	1354	1309	1393	1331	1300	1421	1737	1942
B Interruptible Demand	157	136	224	222	208	229	243	238	240	225	227	148
C Firm Peak (A - B)	2028	1878	1690	1354	1146	1080	1149	1093	1060	1196	1510	1794
D Required Reserve (C x 20%)	406	376	338	271	229	216	230	219	212	239	302	359
E Required Capacity (C + D)	2433	2254	2028	1624	1375	1296	1379	1312	1271	1435	1812	2153
F Existing Resources	2405	2405	2405	2405	2405	2405	2405	2405	2405	2405	2405	2405
Firm Resource Additions:												
G Thermal Additions	-120	-120	-120	-120	-120	-120	-120	-120	-120	-120	-120	-120
H Biomass	43	43	43	43	43	43	43	43	43	43	43	43
I Community Feed-in-Tariff	16	16	16	16	16	16	16	16	16	16	16	16
J Tidal Feed-in-Tariff	1	1	1	1	1	1	1	1	1	1	1	1
K Maritime Link Import	153	153	153	153	153	153	153	153	153	153	153	153
L Less Derations	0	0	150	333	382	385	442	442	442	336	150	0
Total Firm Supply Resources												
M (F + G + H + I + J + K - L)	2499	2499	2349	2166	2116	2114	2057	2057	2057	2163	2348	2499
+ Surplus / - Deficit (M - E)	66	245	321	541	742	817	677	745	785	727	537	346
Reserve Margin % (M - C) / C	23%	33%	39%	60%	85%	96%	79%	88%	94%	81%	56%	39%

Notes:

- 1) Demand values as per NSPI 2018 Load Forecast Report (including the effects of DSM).
- 2) Existing Resources include firm capacity contribution from hydro, steam, combined cycle, combustion turbine, Independent Power Producers (IPP) and renewable resources. Energy Resource Interconnection Service (ERIS) and Network Resource Interconnection Service (NRIS) wind projects are assumed to have a firm capacity contribution of 17% of their installed capacity.
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 - Thermal Capacity additions include Burnside #4 (33 MW) assumed returned to service by the end of Q2, 2018. Also includes assumed unit retirement of Lingan 2 unit in 2020 (shown as a negative value) once the Maritime Link Base Block provides firm capacity service.
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 - The Maritime Link Import represents the Base Block portion that will provide firm capacity service.
- 4) Derations include thermal unit reductions due to ambient temperature, planned maintenance and seasonal shut downs.
- 5) NSPI planning criteria requires a minimum reserve margin equal to 20% of its forecasted firm peak load.
- 6) This table reflects the firm capacity value of intermittent generation assumed 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)

2024

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
A Total System Peak	2191	2015	1918	1575	1352	1306	1390	1328	1296	1418	1734	1939
B Interruptible Demand	156	136	224	222	208	228	243	238	240	225	227	147
C Firm Peak (A - B)	2034	1879	1694	1353	1144	1077	1147	1090	1056	1193	1507	1792
D Required Reserve (C x 20%)	407	376	339	271	229	215	229	218	211	239	301	358
E Required Capacity (C + D)	2441	2254	2033	1624	1373	1293	1377	1308	1267	1431	1808	2150
F Existing Resources	2405	2405	2405	2405	2405	2405	2405	2405	2405	2405	2405	2405
Firm Resource Additions:												
G Thermal Additions	-120	-120	-120	-120	-120	-120	-120	-120	-120	-120	-120	-120
H Biomass	43	43	43	43	43	43	43	43	43	43	43	43
I Community Feed-in-Tariff	16	16	16	16	16	16	16	16	16	16	16	16
J Tidal Feed-in-Tariff	1	1	1	1	1	1	1	1	1	1	1	1
K Maritime Link Import	153	153	153	153	153	153	153	153	153	153	153	153
L Less Derations	0	0	150	333	382	385	442	442	442	336	150	0
Total Firm Supply Resources												
M (F + G + H + I + J + K - L)	2499	2499	2349	2166	2116	2114	2057	2057	2057	2163	2348	2499
+ Surplus / - Deficit (M - E)	58	244	316	542	743	821	680	749	790	731	540	348
Reserve Margin % (M - C) / C	23%	33%	39%	60%	85%	96%	79%	89%	95%	81%	56%	39%

Notes:

- 1) Demand values as per NSPI 2018 Load Forecast Report (including the effects of DSM).
- 2) Existing Resources include firm capacity contribution from hydro, steam, combined cycle, combustion turbine, Independent Power Producers (IPP) and renewable resources. Energy Resource Interconnection Service (ERIS) and Network Resource Interconnection Service (NRIS) wind projects are assumed to have a firm capacity contribution of 17% of their installed capacity.
- 3) Resource additions as outlined in the 2018 10 Year System Outlook (<http://oasis.nspower.ca/en/home/oasis/forecasts-and-assessments.aspx>):
 - Thermal Capacity additions include Burnside #4 (33 MW) assumed returned to service by the end of Q2, 2018. Also includes assumed unit retirement of Lingan 2 unit in 2020 (shown as a negative value) once the Maritime Link Base Block provides firm capacity service.
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- 6) This table reflects the firm capacity value of intermittent generation assumed 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)

2025

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
A Total System Peak	2187	2016	1915	1572	1350	1303	1387	1324	1292	1413	1729	1934
B Interruptible Demand	156	136	224	222	208	228	243	237	240	225	227	147
C Firm Peak (A - B)	2030	1881	1692	1350	1142	1075	1144	1087	1052	1188	1502	1787
D Required Reserve (C x 20%)	406	376	338	270	228	215	229	217	210	238	300	357
E Required Capacity (C + D)	2436	2257	2030	1620	1370	1290	1373	1304	1262	1426	1803	2145
F Existing Resources	2405	2405	2405	2405	2405	2405	2405	2405	2405	2405	2405	2405
Firm Resource Additions:												
G Thermal Additions	-120	-120	-120	-120	-120	-120	-120	-120	-120	-120	-120	-120
H Biomass	43	43	43	43	43	43	43	43	43	43	43	43
I Community Feed-in-Tariff	16	16	16	16	16	16	16	16	16	16	16	16
J Tidal Feed-in-Tariff	1	1	1	1	1	1	1	1	1	1	1	1
K Maritime Link Import	153	153	153	153	153	153	153	153	153	153	153	153
L Less Derations	0	0	150	333	382	385	442	442	442	336	150	0
Total Firm Supply Resources												
M (F + G + H + I + J + K - L)	2499	2499	2349	2166	2116	2114	2057	2057	2057	2163	2348	2499
+ Surplus / - Deficit (M - E)	62	242	319	545	746	824	684	752	794	737	546	354
Reserve Margin % (M - C) / C	23%	33%	39%	60%	85%	97%	80%	89%	95%	82%	56%	40%

Notes:

- 1) Demand values as per NSPI 2018 Load Forecast Report (including the effects of DSM).
- 2) Existing Resources include firm capacity contribution from hydro, steam, combined cycle, combustion turbine, Independent Power Producers (IPP) and renewable resources. Energy Resource Interconnection Service (ERIS) and Network Resource Interconnection Service (NRIS) wind projects are assumed to have a firm capacity contribution of 17% of their installed capacity.
- 3) Resource additions as outlined in the 2018 10 Year System Outlook (<http://oasis.nspower.ca/en/home/oasis/forecasts-and-assessments.aspx>):
 - Thermal Capacity additions include Burnside #4 (33 MW) assumed returned to service by the end of Q2, 2018. Also includes assumed unit retirement of Lingan 2 unit in 2020 (shown as a negative value) once the Maritime Link Base Block provides firm capacity service.
 - Biomass includes the Port Hawkesbury Biomass plant which will be able to provide firm service following the transmission upgrades required for the Maritime Link. This will allow for up to 45 MW to be counted as firm; however, testing of net operating capacity indicates the unit can be credited with 43 MW of firm capacity.
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- 5) NSPI planning criteria requires a minimum reserve margin equal to 20% of its forecasted firm peak load.
- 6) This table reflects the firm capacity value of intermittent generation assumed 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)

2026

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
A Total System Peak	2183	2013	1912	1569	1347	1300	1384	1321	1289	1410	1725	1930
B Interruptible Demand	156	135	224	221	208	228	243	237	240	225	227	147
C Firm Peak (A - B)	2027	1878	1689	1348	1140	1072	1142	1084	1049	1185	1498	1783
D Required Reserve (C x 20%)	405	376	338	270	228	214	228	217	210	237	300	357
E Required Capacity (C + D)	2433	2254	2027	1617	1368	1287	1370	1301	1259	1422	1798	2139
F Existing Resources	2405	2405	2405	2405	2405	2405	2405	2405	2405	2405	2405	2405
Firm Resource Additions:												
G Thermal Additions	-120	-120	-120	-120	-120	-120	-120	-120	-120	-120	-120	-120
H Biomass	43	43	43	43	43	43	43	43	43	43	43	43
I Community Feed-in-Tariff	16	16	16	16	16	16	16	16	16	16	16	16
J Tidal Feed-in-Tariff	1	1	1	1	1	1	1	1	1	1	1	1
K Maritime Link Import	153	153	153	153	153	153	153	153	153	153	153	153
L Less Derations	0	0	150	333	382	385	442	442	442	336	150	0
Total Firm Supply Resources												
M (F + G + H + I + J + K - L)	2499	2499	2349	2166	2116	2114	2057	2057	2057	2163	2348	2499
+ Surplus / - Deficit (M - E)	66	245	322	549	749	827	687	755	798	741	551	359
Reserve Margin % (M - C) / C	23%	33%	39%	61%	86%	97%	80%	90%	96%	83%	57%	40%

Notes:

- 1) Demand values as per NSPI 2018 Load Forecast Report (including the effects of DSM).
- 2) Existing Resources include firm capacity contribution from hydro, steam, combined cycle, combustion turbine, Independent Power Producers (IPP) and renewable resources. Energy Resource Interconnection Service (ERIS) and Network Resource Interconnection Service (NRIS) wind projects are assumed to have a firm capacity contribution of 17% of their installed capacity.
- 3) Resource additions as outlined in the 2018 10 Year System Outlook (<http://oasis.nspower.ca/en/home/oasis/forecasts-and-assessments.aspx>):
 - Thermal Capacity additions include Burnside #4 (33 MW) assumed returned to service by the end of Q2, 2018. Also includes assumed unit retirement of Lingan 2 unit in 2020 (shown as a negative value) once the Maritime Link Base Block provides firm capacity service.
 - Biomass includes the Port Hawkesbury Biomass plant which will be able to provide firm service following the transmission upgrades required for the Maritime Link. This will allow for up to 45 MW to be counted as firm; however, testing of net operating capacity indicates the unit can be credited with 43 MW of firm capacity.
 - The Community Feed-in-Tariff represents distribution-connected renewable energy projects totalling 179 MW installed by the beginning of 2020 (157 MW wind and 22 MW non-wind).
 - The Tidal Feed-in-Tariff assumes projects totalling 6.5 MW installed by 2020.
 - The Maritime Link Import represents the Base Block portion that will provide firm capacity service.
- 4) Derations include thermal unit reductions due to ambient temperature, planned maintenance and seasonal shut downs.
- 5) NSPI planning criteria requires a minimum reserve margin equal to 20% of its forecasted firm peak load.
- 6) This table reflects the firm capacity value of intermittent generation assumed 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)

2027

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
A Total System Peak	2177	2009	1908	1566	1345	1297	1382	1319	1286	1406	1721	1926
B Interruptible Demand	156	135	223	221	207	228	242	237	239	225	226	146
C Firm Peak (A - B)	2022	1874	1685	1344	1137	1070	1139	1082	1046	1182	1494	1780
D Required Reserve (C x 20%)	404	375	337	269	227	214	228	216	209	236	299	356
E Required Capacity (C + D)	2426	2248	2022	1613	1365	1284	1367	1298	1255	1418	1793	2136
F Existing Resources	2405	2405	2405	2405	2405	2405	2405	2405	2405	2405	2405	2405
Firm Resource Additions:												
G Thermal Additions	-120	-120	-120	-120	-120	-120	-120	-120	-120	-120	-120	-120
H Biomass	43	43	43	43	43	43	43	43	43	43	43	43
I Community Feed-in-Tariff	16	16	16	16	16	16	16	16	16	16	16	16
J Tidal Feed-in-Tariff	1	1	1	1	1	1	1	1	1	1	1	1
K Maritime Link Import	153	153	153	153	153	153	153	153	153	153	153	153
L Less Derations	0	0	150	333	382	385	442	442	442	336	150	0
Total Firm Supply Resources												
M (F + G + H + I + J + K - L)	2499	2499	2349	2166	2116	2114	2057	2057	2057	2163	2348	2499
+ Surplus / - Deficit (M - E)	72	250	326	552	752	830	689	758	801	745	555	363
Reserve Margin % (M - C) / C	24%	33%	39%	61%	86%	98%	80%	90%	97%	83%	57%	40%

Notes:

- Demand values as per NSPI 2018 Load Forecast Report (including the effects of DSM).
- Existing Resources include firm capacity contribution from hydro, steam, combined cycle, combustion turbine, Independent Power Producers (IPP) and renewable resources. Energy Resource Interconnection Service (ERIS) and Network Resource Interconnection Service (NRIS) wind projects are assumed to have a firm capacity contribution of 17% of their installed capacity.
- Resource additions as outlined in the 2018 10 Year System Outlook (<http://oasis.nspower.ca/en/home/oasis/forecasts-and-assessments.aspx>):
 - Thermal Capacity additions include Burnside #4 (33 MW) assumed returned to service by the end of Q2, 2018. Also includes assumed unit retirement of Lingan 2 unit in 2020 (shown as a negative value) once the Maritime Link Base Block provides firm capacity service.
 - Biomass includes the Port Hawkesbury Biomass plant which will be able to provide firm service following the transmission upgrades required for the Maritime Link. This will allow for up to 45 MW to be counted as firm; however, testing of net operating capacity indicates the unit can be credited with 43 MW of firm capacity.
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- Derations include thermal unit reductions due to ambient temperature, planned maintenance and seasonal shut downs.
- NSPI planning criteria requires a minimum reserve margin equal to 20% of its forecasted firm peak load.
- This table reflects the firm capacity value of intermittent generation assumed 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)

2028

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
A Total System Peak	2172	1999	1903	1562	1342	1295	1379	1316	1282	1402	1715	1918
B Interruptible Demand	155	135	223	221	207	227	242	237	239	224	226	146
C Firm Peak (A - B)	2017	1864	1681	1341	1135	1067	1137	1079	1043	1178	1489	1772
D Required Reserve (C x 20%)	403	373	336	268	227	213	227	216	209	236	298	354
E Required Capacity (C + D)	2421	2237	2017	1609	1362	1281	1364	1295	1252	1413	1786	2126
F Existing Resources	2405	2405	2405	2405	2405	2405	2405	2405	2405	2405	2405	2405
Firm Resource Additions:												
G Thermal Additions	-120	-120	-120	-120	-120	-120	-120	-120	-120	-120	-120	-120
H Biomass	43	43	43	43	43	43	43	43	43	43	43	43
I Community Feed-in-Tariff	16	16	16	16	16	16	16	16	16	16	16	16
J Tidal Feed-in-Tariff	1	1	1	1	1	1	1	1	1	1	1	1
K Maritime Link Import	153	153	153	153	153	153	153	153	153	153	153	153
L Less Derations	0	0	150	333	382	385	442	442	442	336	150	0
Total Firm Supply Resources												
M (F + G + H + I + J + K - L)	2499	2499	2349	2166	2116	2114	2057	2057	2057	2163	2348	2499
+ Surplus / - Deficit (M - E)	78	261	332	556	754	833	693	762	805	749	562	373
Reserve Margin % (M - C) / C	24%	34%	40%	61%	86%	98%	81%	91%	97%	84%	58%	41%

Notes:

- 1) Demand values as per NSPI 2018 Load Forecast Report (including the effects of DSM).
- 2) Existing Resources include firm capacity contribution from hydro, steam, combined cycle, combustion turbine, Independent Power Producers (IPP) and renewable resources. Energy Resource Interconnection Service (ERIS) and Network Resource Interconnection Service (NRIS) wind projects are assumed to have a firm capacity contribution of 17% of their installed capacity.
- 3) Resource additions as outlined in the 2018 10 Year System Outlook (<http://oasis.nspower.ca/en/home/oasis/forecasts-and-assessments.aspx>):
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- 5) NSPI planning criteria requires a minimum reserve margin equal to 20% of its forecasted firm peak load.
- 6) This table reflects the firm capacity value of intermittent generation assumed 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.