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	2234	2010	1936	1652	1415	1386	1438	1484	1373	1497	1827	2078
B	Interruptible Demand	163	145	228	232	214	229	248	240	238	229	227	154
C	Firm Peak (A - B)	2070	1865	1708	1420	1201	1157	1190	1244	1134	1268	1600	1923
D	Required Reserve (C x 20%)	414	373	342	284	240	231	238	249	227	254	320	385
E	Required Capacity (C + D)	2484	2238	2049	1704	1441	1389	1428	1493	1361	1522	1920	2308
F	Existing Resources	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400
	Firm Resource Additions:												
G	Thermal Additions	0	0	0	0	0	-148	-148	-148	-148	-148	-148	-148
H	Biomass	43	43	43	43	43	43	43	43	43	43	43	43
I	Community Feed-in-Tariff	1	1	1	1	1	1	1	1	1	1	1	1
J	Maritime Link Import	0	0	0	0	0	153	153	153	153	153	153	153
K	Less Derations	0	0	150	333	373	373	612	638	601	395	150	0
L	Total Firm Supply Resources (F + G + H + I + J - K)	2444	2444	2294	2111	2071	2076	1837	1811	1848	2054	2298	2449
	+ Surplus / - Deficit (L - E)	-41	206	244	407	630	687	409	318	486	531	378	141
	Reserve Margin % (L -C)/ C	18%	31%	34%	49%	72%	79%	54%	46%	63%	62%	44%	27%

Notes:

1) Demand values as per NSPI 2019 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.
   Tusket CT is currently out of service and is not included as firm capacity for the assessment period.
   Should the UARB approve the resubmitted application for the Tusket CT Generator Replacement Capital Item, the asset will be returned to service and NSPI will include the firm capacity provided by the Tusket CT. Please refer to the 2019 10 Year System Outlook, Section 3.2.1 for more information.
3) Resource additions as outlined in the 2019 10 Year System Outlook (http://oasis.nspower.ca/en/home/oasis/forecasts-and-assessments.aspx):
   - Thermal Capacity additions include an assumed 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 157 MW installed by the beginning of 2020 (151 MW wind and 6 MW non-wind).
   - 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. The current forecast indicates a capacity deficit in the month of January. The Company expects to be able to manage through the peak period, and can also find near-term solutions for access to firm capacity if required. Please refer to the 2019 10 Year System Outlook, Section 7.4, for more information.
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)

2021

		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
A	Total System Peak	2243	2028	1948	1657	1419	1388	1441	1485	1373	1497	1832	2086
B	Interruptible Demand	170	152	237	241	222	238	256	247	246	236	234	162
C	Firm Peak (A - B)	2073	1875	1711	1417	1197	1150	1185	1238	1127	1262	1598	1924
D	Required Reserve (C x 20%)	415	375	342	283	239	230	237	248	225	252	320	385
E	Required Capacity (C + D)	2487	2250	2053	1700	1436	1381	1422	1485	1352	1514	1918	2309
F	Existing Resources	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400
	Firm Resource Additions:												
G	Thermal Additions	-148	-148	-148	-148	-148	-148	-148	-148	-148	-148	-148	-148
H	Biomass	43	43	43	43	43	43	43	43	43	43	43	43
I	Community Feed-in-Tariff	1	1	1	1	1	1	1	1	1	1	1	1
J	Maritime Link Import	153	153	153	153	153	153	153	153	153	153	153	153
K	Less Derations	0	0	150	333	373	373	612	638	601	395	150	0
L	Total Firm Supply Resources (F + G + H + I + J - K)	2449	2449	2299	2116	2076	2076	1837	1811	1848	2054	2298	2449
	+ Surplus / - Deficit (L - E)	-39	198	246	416	639	695	415	326	495	540	381	139
	Reserve Margin % (L -C)/ C	18%	31%	34%	49%	73%	80%	55%	46%	64%	63%	44%	27%

Notes:

1) Demand values as per NSPI 2019 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.
   Tusket CT is currently out of service and is not included as firm capacity for the assessment period.
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   - Thermal Capacity additions include an assumed 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 157 MW installed by the beginning of 2020 (151 MW wind and 6 MW non-wind).
   - 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. The current forecast indicates a capacity deficit in the month of January. The Company expects to be able to manage through the peak period, and can also find near-term solutions for access to firm capacity if required. Please refer to the 2019 10 Year System Outlook, Section 7.4, for more information.
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	2248	2031	1951	1655	1416	1382	1437	1479	1366	1491	1830	2088
B	Interruptible Demand	170	152	237	241	222	238	256	247	246	235	234	161
C	Firm Peak (A - B)	2078	1879	1714	1414	1194	1144	1181	1232	1120	1256	1597	1926
D	Required Reserve (C x 20%)	416	376	343	283	239	229	236	246	224	251	319	385
E	Required Capacity (C + D)	2493	2255	2057	1697	1433	1373	1417	1478	1344	1507	1916	2311
F	Existing Resources	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400
	Firm Resource Additions:												
G	Thermal Additions	-148	-148	-148	-148	-148	-148	-148	-148	-148	-148	-148	-148
H	Biomass	43	43	43	43	43	43	43	43	43	43	43	43
I	Community Feed-in-Tariff	1	1	1	1	1	1	1	1	1	1	1	1
J	Maritime Link Import	153	153	153	153	153	153	153	153	153	153	153	153
K	Less Derations	0	0	150	333	373	373	400	426	601	289	256	106
L	Total Firm Supply Resources (F + G + H + I + J - K)	2449	2449	2299	2116	2076	2076	2049	2023	1848	2160	2192	2343
	+ Surplus / - Deficit (L - E)	-44	194	242	419	643	702	632	545	504	652	276	31
	Reserve Margin % (L -C)/ C	18%	30%	34%	50%	74%	81%	74%	64%	65%	72%	37%	22%

Notes:

1) Demand values as per NSPI 2019 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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   - 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. The current forecast indicates a capacity deficit in the month of January. The Company expects to be able to manage through the peak period, and can also find near-term solutions for access to firm capacity if required. Please refer to the 2019 10 Year System Outlook, Section 7.4, for more information.
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	2249	2034	1953	1651	1411	1374	1430	1471	1357	1484	1826	2088
B	Interruptible Demand	170	152	237	240	221	237	256	247	246	235	233	161
C	Firm Peak (A - B)	2080	1882	1716	1410	1189	1137	1174	1224	1111	1249	1593	1926
D	Required Reserve (C x 20%)	416	376	343	282	238	227	235	245	222	250	319	385
E	Required Capacity (C + D)	2495	2258	2060	1692	1427	1364	1409	1469	1333	1499	1912	2312
F	Existing Resources	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400
	Firm Resource Additions:												
G	Thermal Additions	-148	-148	-148	-148	-148	-148	-148	-148	-148	-148	-148	-148
H	Biomass	43	43	43	43	43	43	43	43	43	43	43	43
I	Community Feed-in-Tariff	1	1	1	1	1	1	1	1	1	1	1	1
J	Maritime Link Import	153	153	153	153	153	153	153	153	153	153	153	153
K	Less Derations	0	106	256	439	479	479	612	426	389	395	256	106
L	Total Firm Supply Resources (F + G + H + I + J - K)	2449	2343	2193	2010	1970	1970	1837	2023	2060	2054	2192	2343
	+ Surplus / - Deficit (L - E)	-47	84	133	317	542	605	428	554	726	555	281	31
	Reserve Margin % (L -C)/ C	18%	24%	28%	42%	66%	73%	56%	65%	85%	64%	38%	22%

Notes:

1) Demand values as per NSPI 2019 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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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. The current forecast indicates a capacity deficit in the month of January. The Company expects to be able to manage through the peak period, and can also find near-term solutions for access to firm capacity if required. Please refer to the 2019 10 Year System Outlook, Section 7.4, for more information.
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	2255	2032	1957	1648	1406	1366	1422	1462	1348	1477	1822	2086
B	Interruptible Demand	170	152	236	240	221	237	256	247	246	235	233	161
C	Firm Peak (A - B)	2086	1880	1720	1408	1185	1129	1166	1216	1102	1242	1589	1925
D	Required Reserve (C x 20%)	417	376	344	282	237	226	233	243	220	248	318	385
E	Required Capacity (C + D)	2503	2256	2064	1689	1422	1355	1400	1459	1323	1491	1907	2310
F	Existing Resources	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400
	Firm Resource Additions:												
G	Thermal Additions	-148	-148	-148	-148	-148	-148	-148	-148	-148	-148	-148	-148
H	Biomass	43	43	43	43	43	43	43	43	43	43	43	43
I	Community Feed-in-Tariff	1	1	1	1	1	1	1	1	1	1	1	1
J	Maritime Link Import	153	153	153	153	153	153	153	153	153	153	153	153
K	Less Derations	0	0	256	439	479	479	506	638	389	183	150	0
L	Total Firm Supply Resources (F + G + H + I + J - K)	2449	2449	2193	2010	1970	1970	1943	1811	2060	2266	2298	2449
	+ Surplus / - Deficit (L - E)	-54	192	128	320	547	614	543	352	737	775	392	139
	Reserve Margin % (L -C)/ C	17%	30%	27%	43%	66%	74%	67%	49%	87%	82%	45%	27%

Notes:

1) Demand values as per NSPI 2019 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 an assumed 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	2255	2038	1955	1643	1401	1358	1413	1453	1339	1470	1815	2080
B	Interruptible Demand	169	151	236	240	221	237	255	247	246	235	233	161
C	Firm Peak (A - B)	2086	1887	1719	1403	1180	1121	1158	1206	1094	1236	1582	1919
D	Required Reserve (C x 20%)	417	377	344	281	236	224	232	241	219	247	316	384
E	Required Capacity (C + D)	2503	2264	2063	1684	1416	1345	1389	1448	1312	1483	1899	2303
F	Existing Resources	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400
	Firm Resource Additions:												
G	Thermal Additions	-148	-148	-148	-148	-148	-148	-148	-148	-148	-148	-148	-148
H	Biomass	43	43	43	43	43	43	43	43	43	43	43	43
I	Community Feed-in-Tariff	1	1	1	1	1	1	1	1	1	1	1	1
J	Maritime Link Import	153	153	153	153	153	153	153	153	153	153	153	153
K	Less Derations	0	0	150	333	373	479	400	532	389	183	150	0
L	Total Firm Supply Resources (F + G + H + I + J - K)	2449	2449	2299	2116	2076	1970	2049	1917	2060	2266	2298	2449
	+ Surplus / - Deficit (L - E)	-55	184	236	432	660	625	659	469	747	783	400	145
	Reserve Margin % (L -C)/ C	17%	30%	34%	51%	76%	76%	77%	59%	88%	83%	45%	28%

Notes:

1) Demand values as per NSPI 2019 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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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	2250	2034	1950	1637	1395	1349	1404	1443	1331	1464	1809	2074
B	Interruptible Demand	169	151	236	240	221	237	255	246	245	235	233	160
C	Firm Peak (A - B)	2081	1883	1715	1397	1175	1112	1148	1197	1085	1229	1576	1914
D	Required Reserve (C x 20%)	416	377	343	279	235	222	230	239	217	246	315	383
E	Required Capacity (C + D)	2498	2259	2058	1677	1409	1335	1378	1436	1302	1475	1891	2297
F	Existing Resources	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400
	Firm Resource Additions:												
G	Thermal Additions	-148	-148	-148	-148	-148	-148	-148	-148	-148	-148	-148	-148
H	Biomass	43	43	43	43	43	43	43	43	43	43	43	43
I	Community Feed-in-Tariff	1	1	1	1	1	1	1	1	1	1	1	1
J	Maritime Link Import	153	153	153	153	153	153	153	153	153	153	153	153
K	Less Derations	0	0	150	333	373	479	400	532	389	183	150	0
L	Total Firm Supply Resources (F + G + H + I + J - K)	2449	2449	2299	2116	2076	1970	2049	1917	2060	2266	2298	2449
	+ Surplus / - Deficit (L - E)	-49	189	241	439	666	635	671	480	757	790	407	152
	Reserve Margin % (L -C)/ C	18%	30%	34%	51%	77%	77%	78%	60%	90%	84%	46%	28%

Notes:

1) Demand values as per NSPI 2019 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 an assumed 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 157 MW installed by the beginning of 2020 (151 MW wind and 6 MW non-wind).
   - 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. The current forecast indicates a capacity deficit in the month of January. The Company expects to be able to manage through the peak period, and can also find near-term solutions for access to firm capacity if required. Please refer to the 2019 10 Year System Outlook, Section 7.4, for more information.
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	2245	2029	1946	1631	1390	1341	1395	1434	1323	1458	1802	2069
B	Interruptible Demand	169	151	235	239	221	237	255	246	245	235	232	160
C	Firm Peak (A - B)	2076	1879	1710	1392	1169	1104	1140	1188	1077	1224	1570	1909
D	Required Reserve (C x 20%)	415	376	342	278	234	221	228	238	215	245	314	382
E	Required Capacity (C + D)	2492	2254	2052	1670	1403	1325	1367	1426	1293	1468	1884	2290
F	Existing Resources	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400
	Firm Resource Additions:												
G	Thermal Additions	-148	-148	-148	-148	-148	-148	-148	-148	-148	-148	-148	-148
H	Biomass	43	43	43	43	43	43	43	43	43	43	43	43
I	Community Feed-in-Tariff	1	1	1	1	1	1	1	1	1	1	1	1
J	Maritime Link Import	153	153	153	153	153	153	153	153	153	153	153	153
K	Less Derations	0	0	150	333	373	479	400	532	389	183	150	0
L	Total Firm Supply Resources (F + G + H + I + J - K)	2449	2449	2299	2116	2076	1970	2049	1917	2060	2266	2298	2449
	+ Surplus / - Deficit (L - E)	-43	194	247	446	672	645	681	491	767	797	414	158
	Reserve Margin % (L -C)/ C	18%	30%	34%	52%	77%	78%	80%	61%	91%	85%	46%	28%

Notes:

1) Demand values as per NSPI 2019 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.
   Tusket CT is currently out of service and is not included as firm capacity for the assessment period.
   Should the UARB approve the resubmitted application for the Tusket CT Generator Replacement Capital Item, the asset will be returned to service and NSPI will include the firm capacity provided by the Tusket CT. Please refer to the 2019 10 Year System Outlook, Section 3.2.1 for more information.
3) Resource additions as outlined in the 2019 10 Year System Outlook (http://oasis.nspower.ca/en/home/oasis/forecasts-and-assessments.aspx):
   - Thermal Capacity additions include an assumed 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 157 MW installed by the beginning of 2020 (151 MW wind and 6 MW non-wind).
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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. The current forecast indicates a capacity deficit in the month of January. The Company expects to be able to manage through the peak period, and can also find near-term solutions for access to firm capacity if required. Please refer to the 2019 10 Year System Outlook, Section 7.4, for more information.
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)

2028

		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
A	Total System Peak	2239	2017	1940	1624	1384	1332	1384	1424	1313	1451	1794	2059
B	Interruptible Demand	168	150	235	239	220	236	255	246	245	234	232	160
C	Firm Peak (A - B)	2070	1867	1705	1385	1164	1095	1130	1178	1068	1217	1562	1900
D	Required Reserve (C x 20%)	414	373	341	277	233	219	226	236	214	243	312	380
E	Required Capacity (C + D)	2485	2240	2045	1662	1397	1315	1355	1413	1282	1461	1874	2279
F	Existing Resources	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400
	Firm Resource Additions:												
G	Thermal Additions	-148	-148	-148	-148	-148	-148	-148	-148	-148	-148	-148	-148
H	Biomass	43	43	43	43	43	43	43	43	43	43	43	43
I	Community Feed-in-Tariff	1	1	1	1	1	1	1	1	1	1	1	1
J	Maritime Link Import	153	153	153	153	153	153	153	153	153	153	153	153
K	Less Derations	0	0	150	333	373	479	400	532	389	183	150	0
L	Total Firm Supply Resources (F + G + H + I + J - K)	2449	2449	2299	2116	2076	1970	2049	1917	2060	2266	2298	2449
	+ Surplus / - Deficit (L - E)	-36	208	253	453	679	655	693	503	778	805	424	169
	Reserve Margin % (L -C)/ C	18%	31%	35%	53%	78%	80%	81%	63%	93%	86%	47%	29%

Notes:

1) Demand values as per NSPI 2019 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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   - The Community Feed-in-Tariff represents distribution-connected renewable energy projects totalling 157 MW installed by the beginning of 2020 (151 MW wind and 6 MW non-wind).
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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. The current forecast indicates a capacity deficit in the month of January. The Company expects to be able to manage through the peak period, and can also find near-term solutions for access to firm capacity if required. Please refer to the 2019 10 Year System Outlook, Section 7.4, for more information.
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)

2029

		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
A	Total System Peak	2228	2014	1930	1616	1378	1321	1372	1411	1303	1444	1785	2049
B	Interruptible Demand	168	150	235	239	220	236	254	245	245	234	232	159
C	Firm Peak (A - B)	2060	1864	1695	1378	1158	1085	1117	1166	1059	1210	1553	1890
D	Required Reserve (C x 20%)	412	373	339	276	232	217	223	233	212	242	311	378
E	Required Capacity (C + D)	2472	2237	2034	1653	1389	1302	1341	1399	1270	1452	1864	2267
F	Existing Resources	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400
	Firm Resource Additions:												
G	Thermal Additions	-148	-148	-148	-148	-148	-148	-148	-148	-148	-148	-148	-148
H	Biomass	43	43	43	43	43	43	43	43	43	43	43	43
I	Community Feed-in-Tariff	1	1	1	1	1	1	1	1	1	1	1	1
J	Maritime Link Import	153	153	153	153	153	153	153	153	153	153	153	153
K	Less Derations	0	0	150	333	373	479	400	532	389	183	150	0
L	Total Firm Supply Resources (F + G + H + I + J - K)	2449	2449	2299	2116	2076	1970	2049	1917	2060	2266	2298	2449
	+ Surplus / - Deficit (L - E)	-23	211	264	463	686	667	708	518	789	813	435	181
	Reserve Margin % (L -C)/ C	19%	31%	36%	54%	79%	81%	83%	64%	95%	87%	48%	30%

Notes:

1) Demand values as per NSPI 2019 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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