

UNDERTAKING J8.10

Undertaking

Reference: Ex. K8.1, Tab 10, p. 21

To break down the capacity requirement assumptions between summer and winter.

Response

For the case with Pickering to 2020, the figures below illustrate the summer and winter capacity requirements in the October 2015 Pickering assessment and an indicative March 2017 outlook. Note the IESO is currently in the midst of updating its planning outlook and an indicative outlook based on current information is illustrated herein.

Figure 1: Comparison of Summer Capacity Requirements – October 2015 Pickering Assessment and March 2017 Outlook (Pickering to 2020)¹

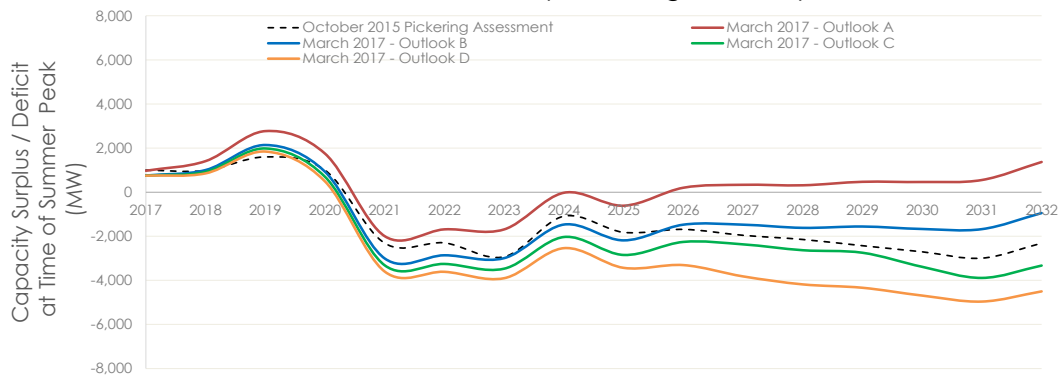
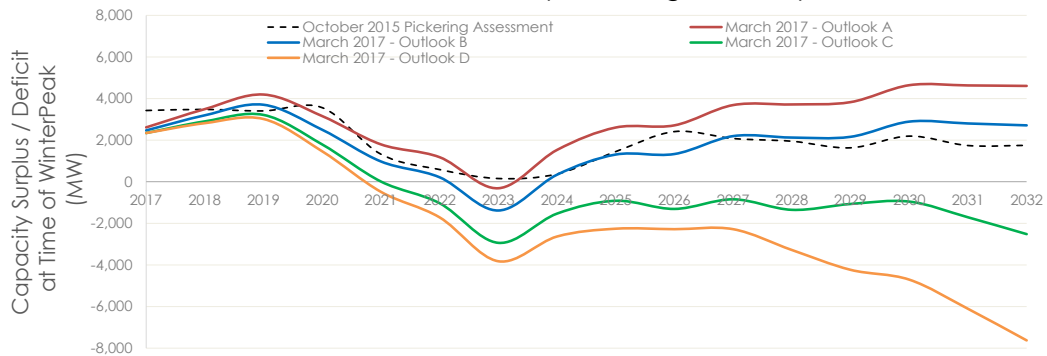


Figure 2: Comparison of Winter Capacity Requirements – October 2015 Pickering Assessment and March 2017 Outlook (Pickering to 2020)



¹ Note that demand outlooks are consistent with the Ontario Planning Outlook (2016). <http://www.ieso.ca/sector-participants/planning-and-forecasting/ontario-planning-outlook>

1
2 Table 1: Comparison of Summer Capacity Requirements – October 2015 Pickering
3 Assessment and March 2017 Outlook (Pickering to 2020)

Resource Above Requirement (MW)	2017	2018	2019	2020	2021	2022	2023	2024
October 2015 Pickering Study	998	981	1,599	997	-2,316	-2,301	-2,931	-1,090
March 2017, Outlook A	971	1,408	2,769	1,747	-1,997	-1,687	-1,689	-27
March 2017, Outlook B	756	1,004	2,139	925	-3,009	-2,863	-2,993	-1,469
March 2017, Outlook C	749	922	1,982	695	-3,319	-3,255	-3,471	-2,034
March 2017, Outlook D	749	852	1,842	485	-3,603	-3,613	-3,903	-2,540
Resource Above Requirement (MW)	2025	2026	2027	2028	2029	2030	2031	2032
October 2015 Pickering Study	-1,822	-1,688	-1,956	-2,146	-2,429	-2,706	-2,994	-2,315
March 2017, Outlook A	-615	201	334	312	470	462	552	1,369
March 2017, Outlook B	-2,187	-1,475	-1,475	-1,619	-1,559	-1,670	-1,677	-948
March 2017, Outlook C	-2,848	-2,257	-2,368	-2,634	-2,748	-3,386	-3,890	-3,329
March 2017, Outlook D	-3,433	-3,308	-3,821	-4,184	-4,336	-4,690	-4,963	-4,501

4
5 Table 2: Comparison of Winter Capacity Requirements – October 2015 Pickering
6 Assessment and March 2017 Outlook (Pickering to 2020)

Resource Above Requirement (MW)	2017	2018	2019	2020	2021	2022	2023	2024
October 2015 Pickering Study	3,426	3,480	3,407	3,562	1,326	586	155	374
March 2017, Outlook A	2,615	3,493	4,194	3,157	1,797	1,180	-312	1,531
March 2017, Outlook B	2,469	3,196	3,703	2,500	975	214	-1,382	339
March 2017, Outlook C	2,343	2,903	3,214	1,793	10	-1,033	-2,938	-1,532
March 2017, Outlook D	2,343	2,818	3,018	1,462	-486	-1,714	-3,823	-2,633
Resource Above Requirement (MW)	2025	2026	2027	2028	2029	2030	2031	2032
October 2015 Pickering Study	1,450	2,412	2,079	1,948	1,632	2,194	1,741	1,750
March 2017, Outlook A	2,608	2,713	3,688	3,717	3,829	4,643	4,632	4,608

March 2017, Outlook B	1,309	1,334	2,196	2,125	2,161	2,892	2,803	2,712
March 2017, Outlook C	-915	-1,307	-845	-1,350	-1,069	-954	-1,709	-2,518
March 2017, Outlook D	-2,258	-2,281	-2,281	-3,281	-4,234	-4,707	-6,109	-7,629

1
2 The increase in the capacity requirements during the summer and winter periods
3 between operating Pickering to 2020 relative to 2022/2024 are indicated below.
4

5 Table 3: Increase in Summer Capacity Requirements between Pickering to 2020
6 relative to 2022/2024

(MW)	2017	2018	2019	2020	2021	2022	2023	2024
October 2015 Pickering Study	-	-	-	-	2,316	2,301	2,064	1,090
March 2017, Outlook A	-	-	-	-	1,997	1,687	1,689	27
March 2017, Outlook B	-	-	-	-	3,009	2,863	2,064	1,469
March 2017, Outlook C	-	-	-	-	3,094	3,094	2,064	2,034
March 2017, Outlook D	-	-	-	-	3,094	3,094	2,064	2,064

7
8 Table 4: Increase in Winter Capacity Requirements between Pickering to 2020 relative
9 to 2022/2024

(MW)	2017	2018	2019	2020	2021	2022	2023	2024
October 2015 Pickering Study	-	-	-	-	-	-	-	-
March 2017, Outlook A	-	-	-	-	-	-	312	-
March 2017, Outlook B	-	-	-	-	-	-	1,382	-
March 2017, Outlook C	-	-	-	-	-	1,033	2,064	1,532
March 2017, Outlook D	-	-	-	-	486	1,714	2,064	2,064

10