

GENERAL SERVICE AVERAGE USES
HISTORICAL NORMALIZED ACTUAL AND BOARD APPROVED

1. To facilitate the comparison of average uses between Actual and Board Approved values, as well as observe year-over-year trends, it is essential to normalize the weather impact by removing the variation in demand that is caused by weather. The series of tables in this appendix provides historical comparisons of average use volumes for the General Service and Contract Market classes.
2. Tables 1 to 3 show normalized General Service average uses, and Table 4 shows normalized total contract volumes. Actual average uses in Table 1 on page 2 have been normalized to the corresponding Board Approved degree days for the respective year. In contrast, the normalized average uses in Tables 2 and 3 are presented on a calendar-year basis where each year has been normalized to the 2018 forecast degree days. The latter presentation is used to consistently eliminate weather variations across years. In Table 4, the total contract volumes have been normalized to the corresponding Board Approved degree days for each of the respective years.
3. Additionally, as agreed in the Settlement Proposal in Enbridge's 2016 Earning Sharing Mechanism, EB-2017-0102, Tables 5 and 6 have been added to provide a monthly breakdown of the 2018 volumetric forecast, average use per Rate 1 and Rate 6 customer (also broken out between baseload and heatload), and customer meter forecasts (unlocks).

TABLE 1
GENERAL SERVICE AVERAGE USE

Test Year	Rate Classes	Col. 1	Col. 2	Col. 3	Col. 4
		Actual Normalized Average Use	Board-Approved Normalized Average Use	Variance Normalized Average Use	%Variance Normalized Average Use
2007	Rate 1	2,726	2,687	39	1.5%
	Rate 6	22,783	21,010	1,773	8.4%
	Total General Service	4,412	4,200	212	5.0%
2008	Rate 1	2,636	2,647	(11)	-0.4%
	Rate 6	24,869	24,204	665	2.7%
	Total General Service	4,493	4,449	44	1.0%
2009	Rate 1	2,616	2,637	(21)	-0.8%
	Rate 6	27,654	28,165	(511)	-1.8%
	Total General Service	4,659	4,770	(111)	-2.3%
2010	Rate 1	2,579	2,622	(43)	-1.6%
	Rate 6	29,106	27,949	1,157	4.1%
	Total General Service	4,403	4,705	(302)	-6.4%
2011	Rate 1	2,594	2,643	(49)	-1.8%
	Rate 6	29,471	28,029	1,442	5.1%
	Total General Service	4,764	4,726	38	0.8%
2012	Rate 1	2,529	2,510	18	0.7%
	Rate 6	28,941	30,122	(1,182)	-3.9%
	Total General Service	4,642	4,715	(73)	-1.5%
2013	Rate 1	2,547	2,568	(22)	-0.8%
	Rate 6	29,878	29,878	(0)	0.0%
	Total General Service	4,665	4,719	(54)	-1.1%
2014	Rate 1	2,475	2,433	41	1.7%
	Rate 6	28,634	28,383	251	0.9%
	Total General Service	4,543	4,461	82	1.8%
2015	Rate 1	2,427	2,419	9	0.4%
	Rate 6	28,600	28,341	259	0.9%
	Total General Service	4,485	4,465	20	0.4%
2016	Rate 1	2,401	2,480	(79)	-3.2%
	Rate 6	28,203	28,753	(550)	-1.9%
	Total General Service	4,413	4,537	(124)	-2.7%

Witness: M. Suarez

TABLE 2
 GENERAL SERVICE
SYSTEM-WIDE TOTAL NORMALIZED AVERAGE USE*

	Col. 1	Col. 2	Col. 3	Col. 4	Col. 5	Col. 6	Col. 7	Col. 8	Col. 9	Col. 10	Col. 11	Col. 12
	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017 Board- Approved Budget</u>	<u>2018 Forecast</u>
Residential	2,755	2,709	2,677	2,624	2,567	2,556	2,534	2,532	2,509	2,410	2,464	2,363
Change		(46)	(32)	(53)	(57)	(11)	(22)	(2)	(23)	(99)	54	(101)
% Change		-1.67%	-1.18%	-1.98%	-2.17%	-0.43%	-0.86%	-0.08%	-0.91%	-3.95%	2.24%	-4.10%
Apartment	103,014	127,392	144,974	164,686	152,591	149,384	149,420	152,493	151,422	145,249	150,031	147,130
Change		24,378	17,582	19,712	(12,095)	(3,207)	36	3,073	(1,071)	(6,173)	4,782	(2,901)
% Change		23.66%	13.80%	13.60%	-7.34%	-2.10%	0.02%	2.06%	-0.70%	-4.08%	3.29%	-1.93%
Commercial	17,726	18,426	19,069	19,740	19,863	20,014	19,785	19,837	20,388	19,428	19,794	19,627
Change		700	643	671	123	151	(229)	52	551	(960)	366	(167)
% Change		3.95%	3.49%	3.52%	0.62%	0.76%	-1.14%	0.26%	2.78%	-4.71%	1.88%	-0.84%
Industrial	61,171	75,685	89,209	108,231	109,202	106,688	108,256	111,396	111,219	109,863	113,360	116,354
Change		14,514	13,524	19,022	971	(2,514)	1,568	3,140	(177)	(1,356)	3,497	2,994
% Change		23.73%	17.87%	21.32%	0.90%	-2.30%	1.47%	2.90%	-0.16%	-1.22%	3.18%	2.64%

* All historical average uses are on a calendar-year basis and have been normalized to the 2018 Budget degree days.

TABLE 3
 GENERAL SERVICE
SYSTEM-WIDE TOTAL NORMALIZED AVERAGE USE*

	Col. 1	Col. 2	Col. 3	Col. 4	Col. 5	Col. 6	Col. 7	Col. 8	Col. 9	Col. 10	Col. 11	Col. 12
	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017 Board- Approved Budget</u>	<u>2018 Forecast</u>
Rate 1	2,755	2,709 (46)	2,677 (32)	2,624 (53)	2,567 (57)	2,556 (11)	2,534 (22)	2,532 (2)	2,509 (23)	2,410 (99)	2,464 54	2,363 (101)
% Change		-1.67%	-1.18%	-1.98%	-2.17%	-0.43%	-0.86%	-0.08%	-0.91%	-3.95%	2.24%	-4.10%
Rate 6	23,101	25,559	27,363	29,571	29,476	29,327	29,096	29,316	29,662	28,360	28,966	28,656
Change		2,458	1,804	2,208	(95)	(149)	(231)	220	346	(1,302)	606	(310)
% Change		10.64%	7.06%	8.07%	-0.32%	-0.51%	-0.79%	0.76%	1.18%	-4.39%	2.14%	-1.07%

* All historical average uses are on a calendar-year basis and have been normalized to the 2018 Budget degree days.

Witness: M. Suarez

TABLE 4
CONTRACT CUSTOMERS' TOTAL NORMALIZED VOLUME

	Col. 1	Col. 2	Col. 3	Col. 4
Test Year	Actual Normalized Consumption (10 ⁶ m ³)	Board-Approved Normalized Consumption (10 ⁶ m ³)	Variance Normalized Consumption (1-2)	%Variance Normalized Consumption (3/2)*100
2007	3,739.8	4,134.3	(394.5)	-9.5%
2008	3,099.6	3,355.2	(255.6)	-7.6%
2009	2,191.4	2,316.6	(125.2)	-5.4%
2010	2,191.5	2,008.6	182.9	9.1%
2011	2,081.8	2,022.9	58.9	2.9%
2012	2,072.6	1,943.4	129.2	6.6%
2013	2,022.7	1,945.5	77.2	4.0%
2014	1,923.6	1,967.0	(43.4)	-2.2%
2015	1,913.5	1,916.2	(2.7)	-0.1%
2016	1,935.1	1,899.8	35.3	1.9%

Witness: M. Suarez

TABLE 5
 GENERAL SERVICE RATE 1
2018 BUDGET - VOLUME, CUSTOMERS & AVERAGE USE

Item.	Col. 1	Col. 2	Col. 3	Col. 4	Col. 5	Col. 6	Col. 7	Col. 8	Col. 9	Col. 10	Col. 11	Col. 12	Col. 13	Exhibit Reference
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	
1.1	803.3	825.5	716.3	521.9	286.8	146.6	112.8	108.3	108.5	173.1	367.5	589.9	4,760.5	Exhibit C3, Tab 2, Schedule 1
1.2	2,007,006	2,009,216	2,011,243	2,012,841	2,012,650	2,011,270	2,010,569	2,012,498	2,014,584	2,020,929	2,026,670	2,031,442	2,015,077	
1.3	400	411	356	259	143	73	56	54	54	86	181	290	2,363	Row 1.1 / Row 1.2
1.4	68	68	71	67	65	65	56	54	54	56	62	65	751	
1.5	332	343	285	193	78	7	0	0	0	30	119	225	1,612	

Witness: M. Suarez

TABLE 6
 GENERAL SERVICE RATE 6
 2018 BUDGET - VOLUME, CUSTOMERS & AVERAGE USE

Item.	Col. 1	Col. 2	Col. 3	Col. 4	Col. 5	Col. 6	Col. 7	Col. 8	Col. 9	Col. 10	Col. 11	Col. 12	Col. 13	Exhibit Reference
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	
1.1	729.4	870.0	740.9	540.7	316.6	155.8	110.8	107.7	108.6	177.2	385.5	586.5	4,829.8	Exhibit C3, Tab 2, Schedule 1
1.2	168,893	169,139	169,371	169,049	168,348	166,578	165,889	165,044	164,861	166,287	168,153	169,158	167,564	
1.3	4,319	5,144	4,374	3,198	1,881	935	668	652	659	1,066	2,293	3,467	28,656	Row 1.1 / Row 1.2
1.4	1,145	1,271	1,171	979	910	841	668	652	659	666	920	1,078	10,959	
1.5	3,174	3,873	3,203	2,220	971	94	0	0	0	400	1,373	2,389	17,697	

Witness: M. Suarez