

GENERAL SERVICE AVERAGE USES
HISTORICAL NORMALIZED ACTUAL AND BOARD-APPROVED
FISCAL AND CALENDAR YEARS

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 that is caused by weather. The series of tables in this appendix provides historical comparisons of average use volumes for 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 the following page 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 2017 forecast degree days. This alternative presentation is used to consistently eliminate to the same weather impact. In Table 4, the total contract volumes have been normalized to the corresponding Board-Approved degree days for each of the respective years.

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
2006	Rate 1	2,796	2,850	(54)	-1.9%
	Rate 6	22,272	21,999	273	1.2%
	Total General Service	4,444	4,438	6	0.1%
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	2,604	2,637	(33)	-1.3%
	Rate 6	27,281	28,165	(884)	-3.1%
	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%

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>2006</u>	<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 Board- Approved Budget</u>	<u>2017 Forecast</u>
Residential	2,769	2,758	2,710	2,680	2,619	2,568	2,559	2,538	2,534	2,512	2,495	2,472
Change	(11)	(48)	(30)	(61)	(51)	(21)	(9)	(4)	(22)	(17)	(23)	(23)
% Change	-0.40%	-1.74%	-1.11%	-2.28%	-1.95%	-0.82%	-0.35%	-0.16%	-0.87%	-0.68%	-0.92%	-0.92%
Apartment	88,435	102,799	127,049	145,406	164,419	152,531	149,291	149,431	152,418	151,234	145,956	150,321
Change	14,364	24,250	18,357	19,013	(11,888)	140	(3,240)	140	2,987	(1,184)	(5,278)	4,365
% Change	16.24%	23.59%	14.45%	13.08%	-7.23%	0.09%	-2.12%	0.09%	2.00%	-0.78%	-3.49%	2.99%
Commercial	17,280	17,742	18,423	19,078	19,706	19,858	20,026	19,785	19,837	20,374	19,945	19,866
Change	462	681	655	628	152	168	(241)	52	537	(429)	(79)	(79)
% Change	2.67%	3.84%	3.56%	3.29%	0.77%	0.85%	-1.20%	0.26%	2.71%	-2.11%	-0.40%	-0.40%
Industrial	56,460	61,303	75,491	89,219	107,899	109,203	106,657	108,220	111,361	111,201	109,843	113,715
Change	4,843	14,188	13,728	18,680	1,304	(2,546)	1,563	3,141	(160)	(1,358)	3,872	3,872
% Change	8.58%	23.14%	18.18%	20.94%	1.21%	-2.33%	1.47%	2.90%	-0.14%	-1.22%	3.53%	3.53%

* All historical average uses are on a calendar-year basis and have been normalized to the 2017 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
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016 Board- Approved Budget	2017 Forecast
Rate 1	2,769	2,758 (11)	2,710 (48)	2,680 (30)	2,619 (61)	2,568 (51)	2,559 (9)	2,538 (21)	2,534 (4)	2,512 (22)	2,495 (17)	2,472 (23)
% Change		-0.40%	-1.74%	-1.11%	-2.28%	-1.95%	-0.35%	-0.82%	-0.16%	-0.87%	-0.68%	-0.92%
Rate 6	21,807	23,110	25,531	27,394	29,514	29,468	29,332	29,096	29,313	29,641	28,916	29,058
% Change		5.98%	10.48%	7.30%	7.74%	(46)	(136)	(236)	217	328	(725)	142
						-0.16%	-0.46%	-0.80%	0.75%	1.12%	-2.45%	0.49%

* All historical average uses are on a calendar-year basis and have been normalized to the 2017 Budget degree days.

Witness: M. Suarez

TABLE 4
CONTRACT CUSTOMERS' TOTAL NORMALIZED VOLUME

	Col. 1	Col. 2	Col. 3	Col. 4
Test Year	<u>Actual Normalized Consumption</u> (10 ⁶ m ³)	<u>Board-Approved Normalized Consumption</u> (10 ⁶ m ³)	<u>Variance Normalized Consumption</u> (1-2)	<u>%Variance Normalized Consumption</u> (3/2)*100
2006	4,119.1	4,387.9	(268.8)	-6.1%
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%

Witness: M. Suarez