

# *ENERGY AND WATER CONSUMPTION - Canadian Office Buildings*



How to most effectively use the  
information contained in the  
Summary data base

# This is what each of the monthly and annual survey tables looks like

JANUARY TO SEPTEMBER, 2000 UTILITIES - CANADIAN OFFICE BUILDINGS																		
Climate Zone	Construction Year	Building Identity/Class*	Approx. Leasable Area, sq.ft.	Heating Degree Days (HDD)	NATURAL GAS USE			ELECTRICITY CONSUMPTION			WATER USE		UTILITY COST PER SQ FT, \$	TOTAL GHG, lbs per sq ft	Unit Rates			
					GJ	GJ per sq ft	GHG, lbs per sq ft	Kwh, Millions	Kwh per sq ft	GHG, lbs per sq ft	CU METERS	GHG, lbs per sq ft			Nat. Gas \$/GJ	Electricity \$/Kwh		
C	1900-1955	BACON	<100,000	3406	1,225	0.017	2	1.2	17	33	7,476	0.011	\$1.22	35.4	\$5.52	\$0.061		
C	1900-1955	CAESAR	<100,000	3406	7,855	0.087	11	0.8	9	18	3,221	0.005	\$1.06	28.5	\$4.67	\$0.069		
C	1956-1960	MARS	100,000 - 200,000	3406	9,685	0.065	8	2.5	17	33	18,713	0.028	\$1.51	41.7	\$5.03	\$0.064		
E	1961-1965	HENRI	<100,000	3693	10,486	0.155	19	1.6	24	49	10,600	0.016	\$2.35	67.9	\$4.29	\$0.060		
C	1961-1965	KWONG	<100,000	3406	3,864	0.060	7	0.9	14	27	2,816	0.004	\$1.39	34.8	\$5.35	\$0.075		
E	1961-1965	GUMP	<100,000	3693	10,475	0.109	14	2.7	28	57	10,640	0.016	\$2.26	70.2	\$4.09	\$0.059		
C	1966-1970	CATO	<100,000	3406	1,706	0.056	7	0.2	5	11	418	0.001	\$0.75	18.0	\$5.54	\$0.075		
E	1966-1970	OLMSTEAD	<100,000	3693	3,153	0.071	9	0.7	16	31	2,321	0.004	\$1.43	39.9	\$4.47	\$0.067		
C	1966-1970	HODGES	100,000 - 200,000	3406	12,467	0.087	11	1.8	13	26	14,285	0.022	\$1.36	36.6	\$5.37	\$0.063		
C	1966-1970	BRIGHT	200,000 - 400,000	3406	7,271	0.032	4	5.0	22	44	24,770	0.038	\$1.71	48.3	\$10.50	\$0.058		
C	1966-1970	FORD	200,000 - 400,000	3406	0	0.000	0	4.2	13	25	54,960	0.084	#DIV/0!	25.5	#DIV/0!	\$0.062		
C	1966-1970	MORLEY	600,000 - 800,000	3406	34,909	0.057	7	12.9	21	42	59,668	0.091	\$1.63	49.5	\$4.51	\$0.061		
C	1971-1975	ERSKIN	<100,000	3406	6,405	0.080	10	0.9	12	23	4,826	0.007	\$1.32	33.4	\$5.51	\$0.069		
C	1971-1975	KILDARE	100,000 - 200,000	3406	20,655	0.163	20	2.5	20	39	8,581	0.013	\$1.98	59.4	\$4.83	\$0.058		
C	1971-1975	ARRHENIUS	100,000 - 200,000	3406	8,658	0.064	8	2.3	17	35	20,459	0.031	\$1.49	42.7	\$4.96	\$0.061		
C	1971-1975	URAIUS	100,000 - 200,000	3406	5,007	0.027	3	2.4	13	26	10,720	0.016	\$0.99	29.4	\$5.02	\$0.062		
C	1971-1975	MOOH	200,000 - 400,000	3406	19,740	0.065	8	5.0	16	33	19,054	0.029	\$1.36	40.8	\$4.70	\$0.062		
C	1971-1975	COLOUMB	400,000 - 600,000	3406	18,151	0.038	5	8.1	17	34	51,281	0.078	\$1.29	38.3	\$4.70	\$0.062		
C	1976-1980	MOHAMED	<100,000	3406	3,081	0.086	11	0.5	15	30	3,737	0.006	\$1.57	40.6	\$5.10	\$0.067		
C	1976-1980	SHARIF	<100,000	3406	2,512	0.068	8	0.7	18	36	965	0.001	\$1.57	44.4	\$5.09	\$0.065		
C	1976-1980	ANAND	<100,000	3406	2,484	0.065	8	0.6	17	33	987	0.002	\$1.47	41.4	\$5.07	\$0.066		
C	1976-1980	HEROD	<100,000	3406	1,030	0.080	10	0.1	7	13	1,213	0.002	\$1.18	23.2	\$5.21	\$0.091		
C	1976-1980	CALIGULA	<100,000	3406	5,151	0.089	11	0.7	11	23	4,616	0.007	\$1.32	33.8	\$5.07	\$0.068		
C	1976-1980	HEPTONE	<100,000	3406	3,278	0.056	7	0.8	15	29	1,984	0.003	\$1.39	36.1	\$5.05	\$0.073		
C	1976-1980	SUNSET	<100,000	3406	2,605	0.035	4	1.8	25	50	9,444	0.014	\$1.81	54.3	\$5.04	\$0.060		
C	1976-1980	KUBLAI	<100,000	3406	7,169	0.093	12	1.4	18	35	8,353	0.013	\$1.73	46.9	\$5.67	\$0.062		
C	1976-1980	DEMOSTHENES	<100,000	3406	5,586	0.070	9	0.0	0	0	6,090	0.009	#DIV/0!	8.7	\$4.83	#DIV/0!		
C	1976-1980	CARNATION	<100,000	3406	3,468	0.083	10	0.7	17	33	2,294	0.003	\$1.62	43.4	\$5.19	\$0.067		
C	1976-1980	JUPITER	<100,000	3406	9,580	0.103	13	0.7	7	15	6,281	0.010	\$1.17	27.4	\$5.13	\$0.079		
C	1976-1980	PLATO	100,000 - 200,000	3406	12,431	0.090	11	0.0	0	0	0	0.000	#DIV/0!	11.2	\$4.73	#DIV/0!		
C	1976-1980	VEIUS	100,000 - 200,000	3406	5,373	0.052	7	1.8	18	36	9,020	0.014	\$1.44	42.2	\$5.34	\$0.060		
C	1976-1980	SOCRATES	100,000 - 200,000	3406	7,053	0.059	7	2.2	19	37	7,348	0.011	\$1.47	44.5	\$4.75	\$0.061		
C	1976-1980	MICHELLE	100,000 - 200,000	3406	5,007	0.037	5	2.0	15	30	10,142	0.015	\$1.26	34.3	\$5.02	\$0.067		
C	1976-1980	PLUTO	100,000 - 200,000	3406	4,769	0.046	6	1.7	16	33	6,196	0.009	\$1.31	38.6	\$5.35	\$0.061		
C	1976-1980	SNIDER	100,000 - 200,000	3406	3,343	0.030	4	1.2	10	21	10,438	0.016	\$0.96	24.7	\$5.03	\$0.069		
C	1976-1980	RESE	100,000 - 200,000	3406	6,060	0.052	7	1.4	12	25	6,022	0.009	\$1.17	31.3	\$5.13	\$0.069		
C	1976-1980	LAURIER	100,000 - 200,000	3406	3,450	0.021	3	2.9	18	36	7,857	0.012	\$1.27	38.4	\$5.33	\$0.062		
C	1976-1980	SUII	100,000 - 200,000	3406	7,561	0.038	5	4.0	20	40	11,246	0.017	\$1.88	45.0	\$4.92	\$0.061		
C	1976-1980	PARKER	200,000 - 400,000	3406	11,312	0.050	6	3.9	17	34	14,601	0.022	\$1.34	40.0	\$4.86	\$0.062		
C	1976-1980	EARTH	200,000 - 400,000	3406	17,047	0.076	10	4.6	21	41	12,551	0.019	\$1.64	50.6	\$4.80	\$0.060		
C	1976-1980	EDISON	200,000 - 400,000	3406	18,845	0.079	10	6.1	26	52	47,860	0.073	\$2.10	61.8	\$4.72	\$0.061		
C	1976-1980	MILKYWAY	200,000 - 400,000	3406	18,891	0.073	9	6.2	24	48	55,479	0.084	\$1.88	57.0	\$4.90	\$0.057		

*The first 4 columns identify each building according to climate zone, year of construction, alias name and leasable area*

JANUARY TO SEPTEMBER, 2000 UTILITIES - CANADIAN OFFICE BUILDINGS																		
Climate Zone	Construction Year	Building Identity/Class*	Approx. Leasable Area, sq ft.	Heating Degree Days (HDD)	NATURAL GAS USE			ELECTRICITY CONSUMPTION			WATER USE		UTILITY COST PER SQ FT, \$	TOTAL GHG, lbs per sq ft	Unit Rates			
					GJ	GJ per sq ft	GHG, lbs per sq ft	Kwh, Millions	Kwh per sq ft	GHG, lbs per sq ft	CU METERS	GHG, lbs per sq ft			Nat. Gas \$/GJ	Electricity \$/Kwh		
C	1900-1955	BACON	<100,000	3406	1,225	0.017	2	1.2	17	33	7,476	0.011	\$1.22	35.4	\$5.52	\$0.061		
C	1900-1955	CAESAR	<100,000	3406	7,855	0.087	11	0.8	9	18	3,221	0.005	\$1.06	28.5	\$4.67	\$0.069		
C	1956-1960	MARS	100,000 - 200,000	3406	9,685	0.065	8	2.5	17	33	18,713	0.028	\$1.51	41.7	\$5.03	\$0.064		
E	1961-1965	HENRI	<100,000	3693	10,486	0.155	19	1.6	24	49	10,600	0.016	\$2.35	67.9	\$4.29	\$0.060		
C	1961-1965	KWONG	<100,000	3406	3,864	0.060	7	0.9	14	27	2,816	0.004	\$1.39	34.8	\$5.35	\$0.075		
E	1961-1965	GUMP	<100,000	3693	10,475	0.109	14	2.7	28	57	10,640	0.016	\$2.26	70.2	\$4.09	\$0.059		
C	1966-1970	CATO	<100,000	3406	1,706	0.056	7	0.2	5	11	418	0.001	\$0.75	18.0	\$5.54	\$0.075		
E	1966-1970	OLMSTEAD	<100,000	3693	3,153	0.071	9	0.7	16	31	2,321	0.004	\$1.43	39.9	\$4.47	\$0.067		
C	1966-1970	HODGES	100,000 - 200,000	3406	12,467	0.087	11	1.8	13	26	14,285	0.022	\$1.36	36.6	\$5.37	\$0.063		
C	1966-1970	BRIGHT	200,000 - 400,000	3406	7,271	0.032	4	5.0	22	44	24,770	0.038	\$1.71	48.3	\$10.50	\$0.058		
C	1966-1970	FORD	200,000 - 400,000	3406	0	0.000	0	4.2	13	25	54,960	0.084	#DIV/0!	25.5	#DIV/0!	\$0.062		
C	1966-1970	MORLEY	600,000 - 800,000	3406	34,909	0.057	7	12.9	21	42	59,668	0.091	\$1.63	49.5	\$4.51	\$0.061		
C	1971-1975	ERSKIN	<100,000	3406	6,405	0.080	10	0.9	12	23	4,826	0.007	\$1.32	33.4	\$5.51	\$0.069		
C	1971-1975	KILDARE	100,000 - 200,000	3406	20,655	0.163	20	2.5	20	39	8,581	0.013	\$1.98	59.4	\$4.83	\$0.058		
C	1971-1975	ARRHENIUS	100,000 - 200,000	3406	8,658	0.064	8	2.3	17	35	20,459	0.031	\$1.49	42.7	\$4.98	\$0.061		
C	1971-1975	URAIHUS	100,000 - 200,000	3406	5,007	0.027	3	2.4	13	26	10,720	0.016	\$0.99	29.4	\$5.02	\$0.062		
C	1971-1975	MOOH	200,000 - 400,000	3406	19,740	0.065	8	5.0	16	33	19,054	0.029	\$1.36	40.8	\$4.70	\$0.062		
C	1971-1975	COLOUMB	400,000 - 600,000	3406	18,151	0.038	5	8.1	17	34	51,281	0.078	\$1.29	38.3	\$4.70	\$0.062		
C	1976-1980	MOHAMED	<100,000	3406	3,081	0.086	11	0.5	15	30	3,737	0.006	\$1.57	40.6	\$5.10	\$0.067		
C	1976-1980	SHARIF	<100,000	3406	2,512	0.068	8	0.7	18	36	965	0.001	\$1.57	44.4	\$5.09	\$0.065		
C	1976-1980	ANAID	<100,000	3406	2,484	0.065	8	0.6	17	33	987	0.002	\$1.47	41.4	\$5.07	\$0.066		
C	1976-1980	HEROD	<100,000	3406	1,030	0.080	10	0.1	7	13	1,213	0.002	\$1.18	23.2	\$5.21	\$0.091		
C	1976-1980	CALIGULA	<100,000	3406	5,151	0.089	11	0.7	11	23	4,616	0.007	\$1.32	33.8	\$5.07	\$0.068		
C	1976-1980	NEPTUNE	<100,000	3406	3,278	0.056	7	0.8	15	29	1,984	0.003	\$1.39	36.1	\$5.05	\$0.073		
C	1976-1980	SUNSET	<100,000	3406	2,605	0.035	4	1.8	25	50	9,444	0.014	\$1.81	54.3	\$5.04	\$0.060		
C	1976-1980	KUBLAI	<100,000	3406	7,169	0.093	12	1.4	18	35	8,353	0.013	\$1.73	46.9	\$5.67	\$0.062		
C	1976-1980	DEMOSTHENES	<100,000	3406	5,586	0.070	9	0.0	0	0	6,090	0.009	#DIV/0!	8.7	\$4.83	#DIV/0!		
C	1976-1980	CARNATION	<100,000	3406	3,468	0.083	10	0.7	17	33	2,294	0.003	\$1.62	43.4	\$5.19	\$0.067		
C	1976-1980	JUPITER	<100,000	3406	9,580	0.103	13	0.7	7	15	6,281	0.010	\$1.17	27.4	\$5.13	\$0.079		
C	1976-1980	PLATO	100,000 - 200,000	3406	12,431	0.090	11	0.0	0	0	0	0.000	#DIV/0!	11.2	\$4.73	#DIV/0!		
C	1976-1980	VEHUS	100,000 - 200,000	3406	5,373	0.052	7	1.8	18	36	9,020	0.014	\$1.44	42.2	\$5.34	\$0.060		
C	1976-1980	SOCRATES	100,000 - 200,000	3406	7,053	0.059	7	2.2	19	37	7,348	0.011	\$1.47	44.5	\$4.75	\$0.061		
C	1976-1980	MICHELE	100,000 - 200,000	3406	5,007	0.037	5	2.0	15	30	10,142	0.015	\$1.26	34.3	\$5.02	\$0.067		
C	1976-1980	PLUTO	100,000 - 200,000	3406	4,769	0.046	6	1.7	16	33	6,196	0.009	\$1.31	38.6	\$5.35	\$0.061		
C	1976-1980	SNIDER	100,000 - 200,000	3406	3,343	0.030	4	1.2	10	21	10,438	0.016	\$0.96	24.7	\$5.03	\$0.069		
C	1976-1980	REESE	100,000 - 200,000	3406	6,060	0.052	7	1.4	12	25	6,022	0.009	\$1.17	31.3	\$5.13	\$0.069		
C	1976-1980	LAURIER	100,000 - 200,000	3406	3,450	0.021	3	2.9	18	36	7,857	0.012	\$1.27	38.4	\$5.33	\$0.062		
C	1976-1980	SUIH	100,000 - 200,000	3406	7,561	0.038	5	4.0	20	40	11,246	0.017	\$1.48	45.0	\$4.92	\$0.061		
C	1976-1980	PARKER	200,000 - 400,000	3406	11,312	0.050	6	3.9	17	34	14,601	0.022	\$1.34	40.0	\$4.86	\$0.062		
C	1976-1980	EARTH	200,000 - 400,000	3406	17,047	0.076	10	4.6	21	41	12,551	0.019	\$1.64	50.6	\$4.80	\$0.060		
C	1976-1980	EDISON	200,000 - 400,000	3406	18,845	0.079	10	6.1	26	52	47,860	0.073	\$2.10	61.8	\$4.72	\$0.061		
C	1976-1980	MILKYWAY	200,000 - 400,000	3406	18,891	0.073	9	6.2	24	48	55,479	0.084	\$1.88	57.0	\$4.90	\$0.057		

*Let's take a closer look!*

<b>JANUARY TO SEPTEMBER, 2000 UTILITIES - CANADIAN</b>			
<b>Climate Zone</b>	<b>Construction Year</b>	<b>Building Identity/Class*</b>	<b>Approx. Leasable Area, sq ft.</b>
<b>C</b>	<b>1900-1955</b>	<b>BACON</b>	<b>&lt;100,000</b>
<b>C</b>	<b>1900-1955</b>	<b>CAESAR</b>	<b>&lt;100,000</b>
<b>C</b>	<b>1956-1960</b>	<b>MARS</b>	<b>100,000 - 200,000</b>
<b>E</b>	<b>1961-1965</b>	<b>HENRI</b>	<b>&lt;100,000</b>
<b>C</b>	<b>1961-1965</b>	<b>KWONG</b>	<b>&lt;100,000</b>
<b>C</b>	<b>1961-1965</b>	<b>GUMP</b>	<b>&lt;100,000</b>
<b>E</b>	<b>1966-1970</b>	<b>CATO</b>	<b>&lt;100,000</b>
<b>C</b>	<b>1966-1970</b>	<b>OLMSTEAD</b>	<b>&lt;100,000</b>
<b>C</b>	<b>1966-1970</b>	<b>HODGES</b>	<b>100,000 - 200,000</b>
<b>C</b>	<b>1966-1970</b>	<b>BRIGHT</b>	<b>200,000 - 400,000</b>
<b>C</b>	<b>1966-1970</b>	<b>FORD</b>	<b>200,000 - 400,000</b>

**C5 PLUS LTD.**

*“HENRI” was built between 1961 -1965, has less than 100,000 square feet of leasable area and is located in the climate zone, “E” for “Edmonton”.*

<b>JANUARY TO SEPTEMBER, 2000 UTILITIES - CANADIAN</b>			
<b>Climate Zone</b>	<b>Construction Year</b>	<b>Building Identity/Class*</b>	<b>Approx. Leasable Area, sq ft.</b>
<b>C</b>	<b>1900-1955</b>	<b>BACON</b>	<b>&lt;100,000</b>
<b>C</b>	<b>1900-1955</b>	<b>CAESAR</b>	<b>&lt;100,000</b>
<b>C</b>	<b>1956-1960</b>	<b>MARS</b>	<b>100,000 - 200,000</b>
<b>E</b>	<b>1961-1965</b>	<b>HENRI</b>	<b>&lt;100,000</b>
<b>C</b>	<b>1961-1965</b>	<b>KWONG</b>	<b>&lt;100,000</b>
<b>C</b>	<b>1961-1965</b>	<b>GUMP</b>	<b>&lt;100,000</b>
<b>E</b>	<b>1966-1970</b>	<b>CATO</b>	<b>&lt;100,000</b>
<b>C</b>	<b>1966-1970</b>	<b>OLMSTEAD</b>	<b>&lt;100,000</b>
<b>C</b>	<b>1966-1970</b>	<b>HODGES</b>	<b>100,000 - 200,000</b>
<b>C</b>	<b>1966-1970</b>	<b>BRIGHT</b>	<b>200,000 - 400,000</b>
<b>C</b>	<b>1966-1970</b>	<b>FORD</b>	<b>200,000 - 400,000</b>

**Only the contributors to the data base, i.e., owners or managers, are given the relationship between alias name and building address**

*Column 5 shows the total number of heating degree days (HDD) for each climate zone. This is important when comparing the energy to heat individual buildings. The larger the HDD the more energy that was needed to heat the building.*

JANUARY TO SEPTEMBER, 2000 UTILITIES - CANADIAN OFFICE BUILDINGS																
Climate Zone	Construction Year	Building Identity/Class*	Approx. Leasable Area, sq ft.	Heating Degree Days (HDD)	NATURAL GAS USE			ELECTRICITY CONSUMPTION			WATER USE		UTILITY COST PER SQ FT, \$	TOTAL GHG, lbs per sq ft	Unit Rates	
					GJ	GJ per sq ft	GHG, lbs per sq ft	Kwh, Millions	Kwh per sq ft	GHG, lbs per sq ft	CU METERS	GHG, lbs per sq ft			Nat. Gas \$/GJ	Electricity \$/Kwh
C	1900-1955	BACON	<100,000	3406	1,225	0.017	2	1.2	17	33	7,476	0.011	\$1.22	35.4	\$5.52	\$0.061
C	1900-1955	CAESAR	<100,000	3406	7,855	0.087	11	0.8	9	18	3,221	0.005	\$1.06	28.5	\$4.87	\$0.069
C	1956-1960	MARS	100,000 - 200,000	3406	9,685	0.065	8	2.5	17	33	18,713	0.028	\$1.51	41.7	\$5.03	\$0.064
E	1961-1965	HENRI	<100,000	3693	0,486	0.155	19	1.6	24	49	10,600	0.016	\$2.35	67.9	\$4.29	\$0.060
C	1961-1965	KWONG	<100,000	3406	3,864	0.060	7	0.9	14	27	2,816	0.004	\$1.39	34.8	\$5.35	\$0.075
E	1961-1965	GUMP	<100,000	3693	0,475	0.109	14	2.7	28	57	10,640	0.016	\$2.26	70.2	\$4.09	\$0.059
C	1966-1970	CATO	<100,000	3406	1,706	0.056	7	0.2	5	11	418	0.001	\$0.75	18.0	\$5.54	\$0.075
E	1966-1970	OLMSTEAD	<100,000	3693	3,153	0.071	9	0.7	16	31	2,321	0.004	\$1.43	39.9	\$4.47	\$0.067
C	1966-1970	HODGES	100,000 - 200,000	3406	2,467	0.087	11	1.8	13	26	14,285	0.022	\$1.36	36.6	\$5.37	\$0.063
C	1966-1970	BRIGHT	200,000 - 400,000	3406	7,271	0.032	4	5.0	22	44	24,770	0.038	\$1.71	48.3	\$10.50	\$0.058
C	1966-1970	FORD	200,000 - 400,000	3406	0	0.000	0	4.2	13	25	54,960	0.084	#DIV/0!	25.5	#DIV/0!	\$0.062
C	1966-1970	MORLEY	600,000 - 800,000	3406	14,909	0.057	7	12.9	21	42	59,668	0.091	\$1.63	49.5	\$4.51	\$0.061
C	1971-1975	ERSKIN	<100,000	3406	6,405	0.080	10	0.9	12	23	4,826	0.007	\$1.32	33.4	\$5.51	\$0.069
C	1971-1975	KILDARE	100,000 - 200,000	3406	10,655	0.163	20	2.5	20	39	8,581	0.013	\$1.98	59.4	\$4.83	\$0.058
C	1971-1975	ARRHENIUS	100,000 - 200,000	3406	8,658	0.064	8	2.3	17	35	20,459	0.031	\$1.49	42.7	\$4.98	\$0.061
C	1971-1975	URANUS	100,000 - 200,000	3406	5,007	0.027	3	2.4	13	26	10,720	0.016	\$0.99	29.4	\$5.02	\$0.062
C	1971-1975	MOON	200,000 - 400,000	3406	9,740	0.065	8	5.0	16	33	19,054	0.029	\$1.36	40.8	\$4.70	\$0.062
C	1971-1975	COLOUMB	400,000 - 600,000	3406	8,151	0.038	5	8.1	17	34	51,281	0.078	\$1.29	38.3	\$4.70	\$0.062
C	1976-1980	MOHAMED	<100,000	3406	3,081	0.086	11	0.5	15	30	3,737	0.006	\$1.57	40.6	\$5.10	\$0.067
C	1976-1980	SHARIF	<100,000	3406	2,512	0.068	8	0.7	18	36	965	0.001	\$1.57	44.4	\$5.09	\$0.065
C	1976-1980	ANAND	<100,000	3406	2,484	0.065	8	0.6	17	33	987	0.002	\$1.47	41.4	\$5.07	\$0.066
C	1976-1980	HEROD	<100,000	3406	1,030	0.080	10	0.1	7	13	1,213	0.002	\$1.18	23.2	\$5.21	\$0.091
C	1976-1980	CALIGULA	<100,000	3406	5,151	0.089	11	0.7	11	23	4,616	0.007	\$1.32	33.8	\$5.07	\$0.068
C	1976-1980	NEPTUNE	<100,000	3406	3,278	0.056	7	0.8	15	29	1,984	0.003	\$1.39	36.1	\$5.05	\$0.073
C	1976-1980	SUNSET	<100,000	3406	2,605	0.035	4	1.8	25	50	9,444	0.014	\$1.81	54.3	\$5.04	\$0.060
C	1976-1980	KUBLAI	<100,000	3406	7,169	0.093	12	1.4	18	35	8,353	0.013	\$1.73	46.9	\$5.67	\$0.062
C	1976-1980	DEMOSTHENES	<100,000	3406	5,586	0.070	9	0.0	0	0	6,090	0.009	#DIV/0!	8.7	\$4.83	#DIV/0!
C	1976-1980	CARNATION	<100,000	3406	3,468	0.083	10	0.7	17	33	2,294	0.003	\$1.62	43.4	\$5.19	\$0.067
C	1976-1980	JUPITER	<100,000	3406	9,580	0.103	13	0.7	7	15	6,281	0.010	\$1.17	27.4	\$5.13	\$0.079
C	1976-1980	PLATO	100,000 - 200,000	3406	2,431	0.090	10	0.0	0	0	0	0.000	#DIV/0!	11.2	\$4.73	#DIV/0!
C	1976-1980	VENUS	100,000 - 200,000	3406	5,373	0.052	7	1.8	18	36	9,020	0.014	\$1.44	42.2	\$5.34	\$0.060
C	1976-1980	SOCRATES	100,000 - 200,000	3406	7,053	0.059	7	2.2	19	37	7,348	0.011	\$1.47	44.5	\$4.75	\$0.061
C	1976-1980	MICHELLE	100,000 - 200,000	3406	5,007	0.037	5	2.0	15	30	10,142	0.015	\$1.26	34.3	\$5.02	\$0.067
C	1976-1980	PLUTO	100,000 - 200,000	3406	4,769	0.046	6	1.7	16	33	6,196	0.009	\$1.31	38.6	\$5.35	\$0.061
C	1976-1980	SNIDER	100,000 - 200,000	3406	3,343	0.030	4	1.2	10	21	10,438	0.016	\$0.96	24.7	\$5.03	\$0.069
C	1976-1980	REESE	100,000 - 200,000	3406	6,060	0.052	7	1.4	12	25	6,022	0.009	\$1.17	31.3	\$5.13	\$0.069
C	1976-1980	LAURIER	100,000 - 200,000	3406	3,450	0.021	3	2.9	18	36	7,857	0.012	\$1.27	38.4	\$5.33	\$0.062
C	1976-1980	SUN	100,000 - 200,000	3406	7,561	0.038	5	4.0	20	40	11,246	0.017	\$1.48	45.0	\$4.92	\$0.061
C	1976-1980	PARKER	200,000 - 400,000	3406	1,312	0.050	6	3.9	17	34	14,601	0.022	\$1.34	40.0	\$4.86	\$0.062
C	1976-1980	EARTH	200,000 - 400,000	3406	7,047	0.076	10	4.6	21	41	12,551	0.019	\$1.64	50.6	\$4.80	\$0.060
C	1976-1980	EDISON	200,000 - 400,000	3406	8,845	0.079	10	6.1	26	52	47,860	0.073	\$2.10	61.8	\$4.72	\$0.061
C	1976-1980	MILKYWAY	200,000 - 400,000	3406	8,891	0.073	9	6.2	24	48	55,479	0.084	\$1.88	57.0	\$4.90	\$0.057

*Column 5 shows the total number of heating degree days (HDD) for each climate zone. This is important when comparing the energy to heat individual buildings. The larger the HDD the more energy that was needed to heat the building.*

JANUARY TO SEPTEMBER, 2000 UTILITIES - CANADIAN OFFICE BUILD				
Climate Zone	Construction Year	Building Identity/Class*	Approx. Leasable Area, sq ft.	Heating Degree Days (HDD)
C	1900-1955	BACON	<100,000	3406
C	1900-1955	CAESAR	<100,000	3406
C	1956-1960	MARS	100,000 - 200,000	3406
E	1961-1965	HENRI	<100,000	3693
C	1961-1965	KWONG	<100,000	3406
C	1961-1965	GUMP	<100,000	3693
E	1966-1970	CATO	<100,000	3406
C	1966-1970	OLMSTEAD	<100,000	3693
C	1966-1970	HODGES	100,000 - 200,000	3406
C	1966-1970	BRIGHT	200,000 - 400,000	3406

*For example, between January and September, 2000, the “Edmonton” heating zone had 3693 HDD whereas the “C”, for “Calgary”, heating zone had 3406 HDD.*

<b>JANUARY TO SEPTEMBER, 2000 UTILITIES - CANADIAN OFFICE BUILDINGS</b>				
<b>Climate Zone</b>	<b>Construction Year</b>	<b>Building Identity/Class<sup>a</sup></b>	<b>Approx. Leasable Area, sq ft.</b>	<b>Heating Degree Days (HDD)</b>
C	1900-1955	BACON	<100,000	3406
C	1900-1955	CAESAR	<100,000	3406
C	1956-1960	MARS	100,000 - 200,000	3406
E	1961-1965	HENRI	<100,000	3693
C	1961-1965	KWONG	<100,000	3406
E	1961-1965	GUMP	<100,000	3693
C	1966-1970	CATO	<100,000	3406
E	1966-1970	OLMSTEAD	<100,000	3693
C	1966-1970	HODGES	100,000 - 200,000	3406
C	1966-1970	BRIGHT	200,000 - 400,000	3406

*The center portion of the survey table contains energy and water consumption information.*

JANUARY TO SEPTEMBER, 2000 UTILITIES - CANADIAN OFFICE BUILDINGS

Climate Zone	Construction Year	Building Identity/Class*	Approx. Leasable Area, sq ft.	Heating Degree Days (HDD)	NATURAL GAS USE			ELECTRICITY CONSUMPTION			WATER USE		UTILITY COST PER SQ FT, \$	TOTAL GHG, lbs per sq ft	Unit Rates	
					GJ	GJ per sq ft	GHG, lbs per sq ft	Kwh, Millions	Kwh per sq ft	GHG, lbs per sq ft	CU METERS	GHG, lbs per sq ft			Nat. Gas \$/GJ	Electricity \$/Kwh
C	1900-1955	BACON	<100,000	3406	1,225	0.017	2	1.2	17	33	7,476	0.011	\$1.22	35.4	\$5.52	\$0.061
C	1900-1955	CAESAR	<100,000	3406	7,855	0.087	11	0.8	9	18	3,221	0.005	\$1.06	28.5	\$4.67	\$0.069
C	1956-1960	MARS	100,000 - 200,000	3406	9,685	0.065	8	2.5	17	33	18,713	0.028	\$1.51	41.7	\$5.03	\$0.064
E	1961-1965	HENRI	<100,000	3693	10,486	0.155	19	1.6	24	49	10,600	0.016	\$2.35	67.9	\$4.29	\$0.060
C	1961-1965	KWONG	<100,000	3406	3,864	0.060	7	0.9	14	27	2,816	0.004	\$1.39	34.8	\$5.35	\$0.075
E	1961-1965	GUMP	<100,000	3693	10,475	0.109	14	2.7	28	57	10,640	0.016	\$2.26	70.2	\$4.09	\$0.059
C	1966-1970	CATO	<100,000	3406	1,706	0.056	7	0.2	5	11	418	0.001	\$0.75	18.0	\$5.54	\$0.075
E	1966-1970	OLMSTEAD	<100,000	3693	3,153	0.071	9	0.7	16	31	2,321	0.004	\$1.43	39.9	\$4.47	\$0.067
C	1966-1970	HODGES	100,000 - 200,000	3406	12,467	0.087	11	1.8	13	26	14,285	0.022	\$1.36	36.6	\$5.37	\$0.063
C	1966-1970	BRIGHT	200,000 - 400,000	3406	7,271	0.032	4	5.0	22	44	24,770	0.038	\$1.71	48.3	\$10.50	\$0.058
C	1966-1970	FORD	200,000 - 400,000	3406	0	0.000	0	4.2	13	25	54,960	0.084	#DIV/0!	25.5	#DIV/0!	\$0.062
C	1966-1970	MORLEY	600,000 - 800,000	3406	34,909	0.057	7	12.9	21	42	59,668	0.091	\$1.63	49.5	\$4.51	\$0.061
C	1971-1975	ERSKIN	<100,000	3406	6,405	0.080	10	0.9	12	23	4,826	0.007	\$1.32	33.4	\$5.51	\$0.069
C	1971-1975	KILDARE	100,000 - 200,000	3406	20,655	0.163	20	2.5	20	39	8,581	0.013	\$1.98	59.4	\$4.83	\$0.058
C	1971-1975	ARRHEIUS	100,000 - 200,000	3406	8,658	0.064	8	2.3	17	35	20,459	0.031	\$1.49	42.7	\$4.98	\$0.061
C	1971-1975	URAIUS	100,000 - 200,000	3406	5,007	0.027	3	2.4	13	26	10,720	0.016	\$0.99	29.4	\$5.02	\$0.062
C	1971-1975	MOOH	200,000 - 400,000	3406	19,740	0.065	8	5.0	16	33	19,054	0.029	\$1.36	40.8	\$4.70	\$0.062
C	1971-1975	COLOUMB	400,000 - 600,000	3406	18,151	0.038	5	8.1	17	34	51,281	0.078	\$1.29	38.3	\$4.70	\$0.062
C	1976-1980	MOHAMED	<100,000	3406	3,081	0.086	11	0.5	15	30	3,737	0.006	\$1.57	40.6	\$5.10	\$0.067
C	1976-1980	SHARIF	<100,000	3406	2,512	0.068	8	0.7	18	36	965	0.001	\$1.57	44.4	\$5.09	\$0.065
C	1976-1980	ANAID	<100,000	3406	2,484	0.065	8	0.6	17	33	987	0.002	\$1.47	41.4	\$5.07	\$0.066
C	1976-1980	HEROD	<100,000	3406	1,030	0.080	10	0.1	7	13	1,213	0.002	\$1.18	23.2	\$5.21	\$0.091
C	1976-1980	CALIGULA	<100,000	3406	5,151	0.089	11	0.7	11	23	4,616	0.007	\$1.32	33.8	\$5.07	\$0.068
C	1976-1980	HEPTUNE	<100,000	3406	3,278	0.056	7	0.8	15	29	1,984	0.003	\$1.39	36.1	\$5.05	\$0.073
C	1976-1980	SUNSET	<100,000	3406	2,605	0.035	4	1.8	25	50	9,444	0.014	\$1.81	54.3	\$5.04	\$0.060
C	1976-1980	KUBLAI	<100,000	3406	7,169	0.093	12	1.4	18	35	8,353	0.013	\$1.73	46.9	\$5.67	\$0.062
C	1976-1980	DEMOSTHENES	<100,000	3406	5,586	0.070	9	0.0	0	0	6,090	0.009	#DIV/0!	8.7	\$4.83	#DIV/0!
C	1976-1980	CARNATION	<100,000	3406	3,468	0.083	10	0.7	17	33	2,294	0.003	\$1.62	43.4	\$5.19	\$0.067
C	1976-1980	JUPITER	<100,000	3406	9,580	0.103	13	0.7	7	15	6,281	0.010	\$1.17	27.4	\$5.13	\$0.079
C	1976-1980	PLATO	100,000 - 200,000	3406	12,431	0.090	11	0.0	0	0	0	0.000	#DIV/0!	11.2	\$4.73	#DIV/0!
C	1976-1980	VEHIUS	100,000 - 200,000	3406	5,373	0.052	7	1.8	18	36	9,020	0.014	\$1.44	42.2	\$5.34	\$0.060
C	1976-1980	SOCRATES	100,000 - 200,000	3406	7,053	0.059	7	2.2	19	37	7,348	0.011	\$1.47	44.5	\$4.75	\$0.061
C	1976-1980	MICHELLE	100,000 - 200,000	3406	5,007	0.037	5	2.0	15	30	10,142	0.015	\$1.26	34.3	\$5.02	\$0.067
C	1976-1980	PLUTO	100,000 - 200,000	3406	4,769	0.046	6	1.7	16	33	6,196	0.009	\$1.31	38.6	\$5.35	\$0.061
C	1976-1980	SNIDER	100,000 - 200,000	3406	3,343	0.030	4	1.2	10	21	10,438	0.016	\$0.96	24.7	\$5.03	\$0.069
C	1976-1980	REESE	100,000 - 200,000	3406	6,060	0.052	7	1.4	12	25	6,022	0.009	\$1.17	31.3	\$5.13	\$0.069
C	1976-1980	LARRIER	100,000 - 200,000	3406	3,450	0.021	3	2.9	18	36	7,857	0.012	\$1.27	38.4	\$5.33	\$0.062
C	1976-1980	SUII	100,000 - 200,000	3406	7,561	0.038	5	4.0	20	40	11,246	0.017	\$1.48	45.0	\$4.92	\$0.061
C	1976-1980	PARKER	200,000 - 400,000	3406	11,312	0.050	6	3.9	17	34	14,601	0.022	\$1.34	40.0	\$4.86	\$0.062
C	1976-1980	EARTH	200,000 - 400,000	3406	17,047	0.076	10	4.6	21	41	12,551	0.019	\$1.64	50.6	\$4.80	\$0.060
C	1976-1980	EDISON	200,000 - 400,000	3406	18,845	0.079	10	6.1	26	52	47,860	0.073	\$2.10	61.8	\$4.72	\$0.061
C	1976-1980	MILKYWAY	200,000 - 400,000	3406	18,891	0.073	9	6.2	24	48	55,479	0.084	\$1.88	57.0	\$4.90	\$0.057

# The center portion of the survey table contains energy and water consumption information.

- Under "NATURAL GAS USE" the first column show natural gas consumption, in giga Joules (GJ), by each building. Under GJ per square foot of leasable area, you have a common denominator for comparing individual buildings, regardless of size. The third column under "NATURAL GAS USE" shows the amount of Green House Gas (GHG), in pounds, that has been produced by each square foot of leasable area.

JANUARY TO SEPTEMBER, 2000 UTILITIES - CANADIAN OFFICE BUILDINGS							
Climate Zone	Construction Year	Building Identity/Class <sup>4</sup>	Approx. Leasable Area, sq ft.	Heating Degree Days (HDD)	NATURAL GAS USE		
					GJ	GJ per sq ft	GHG, lbs per sq ft
C	1900-1955	BACON	<100,000	3406	1,225	0.017	2
C	1900-1955	CAESAR	<100,000	3406	7,855	0.087	11
C	1956-1960	MARS	100,000 - 200,000	3406	9,685	0.065	8
E	1961-1965	HENRI	<100,000	3693	10,486	0.155	19
C	1961-1965	KWONG	<100,000	3406	3,864	0.060	7
E	1961-1965	GUMP	<100,000	3693	10,475	0.109	14
C	1966-1970	CATO	<100,000	3406	1,706	0.056	7
E	1966-1970	OLMSTEAD	<100,000	3693	3,153	0.071	9
C	1966-1970	HODGES	100,000 - 200,000	3406	12,467	0.087	11
C	1966-1970	BRIGHT	200,000 - 400,000	3406	7,271	0.032	4

# The center portion of the survey table contains energy and water consumption information.

2. Under "ELECTRICITY CONSUMPTION" the first column show electrical consumption, in kilowatt hours (Kwh), by each building. Under Kwh per square foot of leasable area you have a common denominator for comparing individual buildings, regardless of size. The third column under "ELECTRICITY CONSUMPTION" shows the amount of Green House Gas (GHG), in pounds, that has been produced by each square foot of leasable area.

JANUARY TO SEPTEMBER, 2000 UTILITIES - CANADIAN OFFICE BUILDINGS										
Climate Zone	Construction Year	Building Identity/Class <sup>1</sup>	Approx. Leasable Area, sq ft.	Heating Degree Days (HDD)	NATURAL GAS USE			ELECTRICITY CONSUMPTION		
					GJ	GJ per sq ft	GHG, lbs per sq ft	Kwh, Millions	Kwh per sq ft	GHG, lbs per sq ft
C	1900-1955	BACON	<100,000	3406	1,225	0.017	2	1.2	17	33
C	1900-1955	CAESAR	<100,000	3406	7,855	0.087	11	0.8	9	18
C	1956-1960	MARS	100,000 - 200,000	3406	9,685	0.065	8	2.5	17	33
E	1961-1965	HENRI	<100,000	3693	10,486	0.155	19	1.6	24	49
C	1961-1965	KWOIG	<100,000	3406	3,864	0.060	7	0.9	14	27
E	1961-1965	GUMP	<100,000	3693	10,475	0.109	14	2.7	28	57
C	1966-1970	CATO	<100,000	3406	1,706	0.056	7	0.2	5	11
E	1966-1970	OLMSTEAD	<100,000	3693	3,153	0.071	9	0.7	16	31
C	1966-1970	HODGES	100,000 - 200,000	3406	12,467	0.087	11	1.8	13	26
C	1966-1970	BRIGHT	200,000 - 400,000	3406	7,271	0.032	4	5.0	22	44

# The center portion of the survey table contains energy and water consumption information.

3. Under "WATER USE" the first column shows total water consumption, in cubic meters, by each building. Under GHG per square foot of leasable area shows the estimated amount of Green House Gas (GHG), in pounds, that has been produced per square foot of leasable area; to purify the water and pump it to each building.

BUILDINGS										
Heating Degree Days (HDD)	NATURAL GAS USE				ELECTRICITY CONSUMPTION				WATER USE	
	GJ	GJ per sq ft	GHG, lbs per sq ft		Kwh, Millions	Kwh per sq ft	GHG, lbs per sq ft		CU METERS	GHG, lbs per sq ft
3406	7,855	0.087	11	0.8	9	18	3,221	0.005		
3406	9,685	0.065	8	2.5	17	33	18,713	0.028		
3693	10,486	0.155	19	1.6	24	49	10,600	0.016		
3406	3,864	0.060	7	0.9	14	27	2,816	0.004		
3693	10,475	0.109	14	2.7	28	57	10,640	0.016		
3406	1,706	0.056	7	0.2	5	11	418	0.001		
3693	3,153	0.071	9	0.7	16	31	2,321	0.004		
3406	12,467	0.087	11	1.8	13	26	14,285	0.022		
3406	7,271	0.032	4	5.0	22	44	24,770	0.038		

*The last portion (4 columns) of the survey table contains information on energy and water costs.*

JANUARY TO SEPTEMBER, 2000 UTILITIES - CANADIAN OFFICE BUILDINGS																
Climate Zone	Construction Year	Building Identity/Class <sup>a</sup>	Approx. Leasable Area, sq ft.	Heating Degree Days (HDD)	NATURAL GAS USE			ELECTRICITY CONSUMPTION			WATER USE		UTILITY COST PER SQ FT, \$	TOTAL GHG, lbs per sq ft	Unit Rates	
					GJ	GJ per sq ft	GHG, lbs per sq ft	Kwh, Millions	Kwh per sq ft	GHG, lbs per sq ft	CU METERS	GHG, lbs per sq ft			Nat. Gas \$/GJ	Electricity \$/Kwh
C	1900-1955	BACON	<100,000	3406	1,225	0.017	2	1.2	17	33	7,476	0.011	\$1.22	35.4	\$5.52	\$0.061
C	1900-1955	CAESAR	<100,000	3406	7,855	0.087	11	0.8	9	18	3,221	0.005	\$1.06	28.5	\$4.67	\$0.069
C	1956-1960	MARS	100,000 - 200,000	3406	9,685	0.065	8	2.5	17	33	18,713	0.028	\$1.51	41.7	\$5.03	\$0.064
E	1961-1965	HENRI	<100,000	3693	10,486	0.155	19	1.6	24	49	10,600	0.016	\$2.35	67.9	\$4.29	\$0.060
C	1961-1965	KWONG	<100,000	3406	3,864	0.060	7	0.9	14	27	2,816	0.004	\$1.39	34.8	\$5.35	\$0.075
E	1961-1965	GUMP	<100,000	3693	10,475	0.109	14	2.7	28	57	10,640	0.016	\$2.26	70.2	\$4.09	\$0.059
C	1966-1970	CATO	<100,000	3406	1,706	0.056	7	0.2	5	11	418	0.001	\$0.75	18.0	\$5.54	\$0.075
E	1966-1970	OLMSTEAD	<100,000	3693	3,153	0.071	9	0.7	16	31	2,321	0.004	\$1.43	39.9	\$4.47	\$0.067
C	1966-1970	HODGES	100,000 - 200,000	3406	12,467	0.087	11	1.8	13	26	14,285	0.022	\$1.36	36.6	\$5.37	\$0.063
C	1966-1970	BRIGHT	200,000 - 400,000	3406	7,271	0.032	4	5.0	22	44	24,770	0.038	\$1.71	48.3	\$10.50	\$0.058
C	1966-1970	FORD	200,000 - 400,000	3406	0	0.000	0	4.2	13	25	54,960	0.084	#DIV/0!	25.5	#DIV/0!	\$0.062
C	1966-1970	MORLEY	600,000 - 800,000	3406	34,909	0.057	7	12.9	21	42	59,668	0.091	\$1.63	49.5	\$4.51	\$0.061
C	1971-1975	ERSKIN	<100,000	3406	6,405	0.080	10	0.9	12	23	4,826	0.007	\$1.32	33.4	\$5.51	\$0.069
C	1971-1975	KILDARE	100,000 - 200,000	3406	20,655	0.163	20	2.5	20	39	8,581	0.013	\$1.98	59.4	\$4.83	\$0.058
C	1971-1975	ARRHEIUS	100,000 - 200,000	3406	8,658	0.064	8	2.3	17	35	20,459	0.031	\$1.49	42.7	\$4.98	\$0.061
C	1971-1975	URAIUS	100,000 - 200,000	3406	5,007	0.027	3	2.4	13	26	10,720	0.016	\$0.99	29.4	\$5.02	\$0.062
C	1971-1975	MOOH	200,000 - 400,000	3406	19,740	0.065	8	5.0	16	33	19,054	0.029	\$1.36	40.8	\$4.70	\$0.062
C	1971-1975	COLOUMB	400,000 - 600,000	3406	18,151	0.038	5	8.1	17	34	51,281	0.078	\$1.29	38.3	\$4.70	\$0.062
C	1976-1980	MOHAMED	<100,000	3406	3,081	0.086	11	0.5	15	30	3,737	0.006	\$1.57	40.6	\$5.10	\$0.067
C	1976-1980	SHARIF	<100,000	3406	2,512	0.068	8	0.7	18	36	965	0.001	\$1.57	44.4	\$5.09	\$0.065
C	1976-1980	ANAND	<100,000	3406	2,484	0.065	8	0.6	17	33	987	0.002	\$1.47	41.4	\$5.07	\$0.066
C	1976-1980	HEROD	<100,000	3406	1,030	0.080	10	0.1	7	13	1,213	0.002	\$1.18	23.2	\$5.21	\$0.091
C	1976-1980	CALIGULA	<100,000	3406	5,151	0.089	11	0.7	11	23	4,616	0.007	\$1.32	33.8	\$5.07	\$0.068
C	1976-1980	HEPTUNE	<100,000	3406	3,278	0.056	7	0.8	15	29	1,984	0.003	\$1.39	36.1	\$5.05	\$0.073
C	1976-1980	SUNSET	<100,000	3406	2,605	0.035	4	1.8	25	50	9,444	0.014	\$1.81	54.3	\$5.04	\$0.060
C	1976-1980	KUBLAJ	<100,000	3406	7,169	0.093	12	1.4	18	35	8,353	0.013	\$1.73	46.9	\$5.67	\$0.062
C	1976-1980	DEMOSTHENEIS	<100,000	3406	5,586	0.070	9	0.0	0	0	6,090	0.009	#DIV/0!	8.7	\$4.83	#DIV/0!
C	1976-1980	CARIATION	<100,000	3406	3,468	0.083	10	0.7	17	33	2,294	0.003	\$1.62	43.4	\$5.19	\$0.067
C	1976-1980	JUPITER	<100,000	3406	9,580	0.103	13	0.7	7	15	6,281	0.010	\$1.17	27.4	\$5.13	\$0.079
C	1976-1980	PLATO	100,000 - 200,000	3406	12,431	0.090	11	0.0	0	0	0	0.000	#DIV/0!	11.2	\$4.73	#DIV/0!
C	1976-1980	VENUS	100,000 - 200,000	3406	5,373	0.052	7	1.8	18	36	9,020	0.014	\$1.44	42.2	\$5.34	\$0.060
C	1976-1980	SOCRATES	100,000 - 200,000	3406	7,053	0.059	7	2.2	19	37	7,348	0.011	\$1.47	44.5	\$4.75	\$0.061
C	1976-1980	MICHELLE	100,000 - 200,000	3406	5,007	0.037	5	2.0	15	30	10,142	0.015	\$1.26	34.3	\$5.02	\$0.067
C	1976-1980	PLUTO	100,000 - 200,000	3406	4,769	0.046	6	1.7	16	33	6,196	0.009	\$1.31	38.6	\$5.35	\$0.061
C	1976-1980	SNIDER	100,000 - 200,000	3406	3,343	0.030	4	1.2	10	21	10,438	0.016	\$0.96	24.7	\$5.03	\$0.069
C	1976-1980	RESE	100,000 - 200,000	3406	6,060	0.052	7	1.4	12	25	6,022	0.009	\$1.17	31.3	\$5.13	\$0.069
C	1976-1980	LAURIER	100,000 - 200,000	3406	3,450	0.021	3	2.9	18	36	7,857	0.012	\$1.27	38.4	\$5.33	\$0.062
C	1976-1980	SUM	100,000 - 200,000	3406	7,561	0.038	5	4.0	20	40	11,246	0.017	\$1.48	45.0	\$4.92	\$0.061
C	1976-1980	PARKER	200,000 - 400,000	3406	11,312	0.050	6	3.9	17	34	14,601	0.022	\$1.34	40.0	\$4.86	\$0.062
C	1976-1980	EARTH	200,000 - 400,000	3406	17,047	0.076	10	4.6	21	41	12,551	0.019	\$1.64	50.6	\$4.80	\$0.060
C	1976-1980	EDISON	200,000 - 400,000	3406	18,845	0.079	10	6.1	26	52	47,860	0.073	\$2.10	61.8	\$4.72	\$0.061
C	1976-1980	MILKYWAY	200,000 - 400,000	3406	18,891	0.073	9	6.2	24	48	55,479	0.084	\$1.88	57.0	\$4.90	\$0.057

*The last portion (4 columns) of the survey table contains information on energy and water costs.*

ELECTRICITY CONSUMPTION			WATER USE		UTILITY	TOTAL	Unit Rates	
Kwh, Millions	Kwh per sq ft	GHG, lbs per sq ft	CU METERS	GHG, lbs per sq ft	COST PER SQ FT, \$	GHG, lbs per sq ft	Nat. Gas \$/GJ	Electricity \$/Kwh
1.2	17	33	7,476	0.011	\$1.22	35.4	\$5.52	\$0.061
0.8	9	18	3,221	0.005	\$1.06	28.5	\$4.67	\$0.069
2.5	17	33	18,713	0.028	\$1.51	41.7	\$5.03	\$0.064
1.6	24	49	10,600	0.016	\$2.35	67.9	\$4.29	\$0.060
0.9	14	27	2,816	0.004	\$1.39	34.8	\$5.35	\$0.075
2.7	28	57	10,640	0.016	\$2.26	70.2	\$4.09	\$0.059
0.2	5	11	418	0.001	\$0.75	18.0	\$5.54	\$0.075
0.7	16	31	2,321	0.004	\$1.43	39.9	\$4.47	\$0.067
1.8	13	26	14,285	0.022	\$1.36	36.6	\$5.37	\$0.063
5.0	22	44	24,770	0.038	\$1.71	48.3	\$10.50	\$0.058

*Total cost of electricity, natural gas and water per square foot of leasable area.*

ELECTRICITY CONSUMPTION			WATER USE			UTILITY	TOTAL	Unit Rates	
Kwh, Millions	Kwh per sq ft	GHG, lbs per sq ft	CU METERS	GHG, lbs per sq ft	COST PER SQ FT, \$	GHG, lbs per sq ft	Nat. Gas \$/GJ	Electricity \$/Kwh	
1.2	17	33	7,476	0.011	\$1.22	35.4	\$5.52	\$0.061	
0.8	9	18	3,221	0.005	\$1.06	28.5	\$4.67	\$0.069	
2.5	17	33	18,713	0.028	\$1.51	41.7	\$5.03	\$0.064	
1.6	24	49	10,600	0.016	\$2.35	67.9	\$4.29	\$0.060	
0.9	14	27	2,816	0.004	\$1.39	34.8	\$5.35	\$0.075	
2.7	28	57	10,640	0.016	\$2.26	70.2	\$4.09	\$0.059	
0.2	5	11	418	0.001	\$0.75	18.0	\$5.54	\$0.075	
0.7	16	31	2,321	0.004	\$1.43	39.9	\$4.47	\$0.067	
1.8	13	26	14,285	0.022	\$1.36	36.6	\$5.37	\$0.063	
5.0	22	44	24,770	0.038	\$1.71	48.3	\$10.50	\$0.058	

**Total pounds of GHG produced per square foot of leasable area.**

ELECTRICITY CONSUMPTION			WATER USE			UTILITY	TOTAL	Unit Rates	
Kwh, Millions	Kwh per sq ft	GHG, lbs per sq ft	CU METERS	GHG, lbs per sq ft	COST PER SQ FT, \$	GHG, lbs per sq ft	Nat. Gas \$/GJ	Electricity \$/Kwh	
1.2	17	33	7,476	0.011	\$1.22	35.4	\$5.52	\$0.061	
0.8	9	18	3,221	0.005	\$1.06	28.5	\$4.67	\$0.069	
2.5	17	33	18,713	0.028	\$1.51	41.7	\$5.03	\$0.064	
1.6	24	49	10,600	0.016	\$2.35	67.9	\$4.29	\$0.060	
0.9	14	27	2,816	0.004	\$1.39	34.8	\$5.35	\$0.075	
2.7	28	57	10,640	0.016	\$2.26	70.2	\$4.09	\$0.059	
0.2	5	11	418	0.001	\$0.75	18.0	\$5.54	\$0.075	
0.7	16	31	2,321	0.004	\$1.43	39.9	\$4.47	\$0.067	
1.8	13	26	14,285	0.022	\$1.36	36.6	\$5.37	\$0.063	
5.0	22	44	24,770	0.038	\$1.71	48.3	\$10.50	\$0.058	

*Amount paid per giga Joule (GJ) of Natural gas*

ELECTRICITY CONSUMPTION			WATER USE		UTILITY	TOTAL	Unit Rates	
Kwh, Millions	Kwh per sq ft	GHG, lbs per sq ft	CU METERS	GHG, lbs per sq ft	COST PER SQ FT, \$	GHG, lbs per sq ft	Nat. Gas \$/GJ	Electricity \$/Kwh
1.2	17	33	7,476	0.011	\$1.22	35.4	\$5.52	\$0.061
0.8	9	18	3,221	0.005	\$1.06	28.5	\$4.67	\$0.069
2.5	17	33	18,713	0.028	\$1.51	41.7	\$5.03	\$0.064
1.6	24	49	10,600	0.016	\$2.35	67.9	\$4.29	\$0.060
0.9	14	27	2,816	0.004	\$1.39	34.8	\$5.35	\$0.075
2.7	28	57	10,640	0.016	\$2.26	70.2	\$4.09	\$0.059
0.2	5	11	418	0.001	\$0.75	18.0	\$5.54	\$0.075
0.7	16	31	2,321	0.004	\$1.43	39.9	\$4.47	\$0.067
1.8	13	26	14,285	0.022	\$1.36	36.6	\$5.37	\$0.063
5.0	22	44	24,770	0.038	\$1.71	48.3	\$10.50	\$0.058

**C5 PLUS LTD.** *Amount paid per Kwh of Electricity*

**JANUARY TO SEPTEMBER, 2000 UTILITIES - CANADIAN OFFICE BUILDINGS**

Climate Zone	Construction Year	Building Identity/Class <sup>1</sup>	Approx. Leasable Area, sq ft.	Heating Degree Days (HDD)	NATURAL GAS USE			ELECTRICITY CONSUMPTION		
					GJ	GJ per sq ft	GHG, lbs per sq ft	Kwh, Millions	Kwh per sq ft	GHG, lbs per sq ft
C	1900-1955	BACON	<100,000	3406	1,225	0.017	2	1.2	17	33
C	1900-1955	CAESAR	<100,000	3406	7,855	0.087	11	0.8	9	18
C	1956-1960	MARS	100,000 - 200,000	3406	9,685	0.065	8	2.5	17	33
E	1961-1965	HENRI	<100,000	3693	10,486	0.155	19	1.6	24	49
C	1961-1965	KWONG	<100,000	3406	3,864	0.060	7	0.9	14	27

In summary, this table shows, for example, that the building called “HENRI”, located in the climate zone, “Edmonton” and built between 1961 and 1965, having less than 100,000 square feet of leasable area; between January and September,

CU METERS	WATER USE GHG, lbs per sq ft	UTILITY COST PER SQ FT, \$	TOTAL GHG, lbs per sq ft	Unit Rates	
				Nat. Gas \$/GJ	Electricity \$/Kwh
7,476	0.011	\$1.22	35.4	\$5.52	\$0.061
3,221	0.005	\$1.06	28.5	\$4.67	\$0.069
18,713	0.028	\$1.51	41.7	\$5.03	\$0.064
10,600	0.016	\$2.35	67.9	\$4.29	\$0.060
2,816	0.004	\$1.39	34.8	\$5.35	\$0.075

2000 used 0.155GJ/ft<sup>2</sup> of Natural gas, 24 Kwh /ft<sup>2</sup> of Electricity and 10,600 m<sup>3</sup> of Water. These Utilities had a cost of \$2.35 / ft<sup>2</sup> and resulted in the production of 67.9 pounds of GHG/ ft<sup>2</sup>

JANUARY TO SEPTEMBER, 2000 UTILITIES - CANADIAN OFFICE BUILDINGS

Climate Zone	Construction Year	Building Identity/Class <sup>1</sup>	Approx. Leasable Area, sq ft.	Heating Degree Days (HDD)	NATURAL GAS USE			ELECTRICITY CONSUMPTION		
					GJ	GJ per sq ft	GHG, lbs per sq ft	Kwh, Millions	Kwh per sq ft	GHG, lbs per sq ft
C	1900-1955	BACON	<100,000	3406	1,225	0.017	2	1.2	17	33
C	1900-1955	CAESAR	<100,000	3406	7,855	0.087	11	0.8	9	18
C	1956-1960	MARS	100,000 - 200,000	3406	9,685	0.065	8	2.5	17	33
E	1961-1965	HENRI	<100,000	3693	10,486	0.155	19	1.6	24	49
C	1961-1965	KWONG	<100,000	3406	3,864	0.060	7	0.9	14	27

Between January and September "Henri" paid \$4.29 per GJ of Natural Gas and 6.0 cents per Kwh of Electricity.

CU METERS	WATER USE GHG, lbs per sq ft	UTILITY COST PER SQ FT, \$	TOTAL GHG, lbs per sq ft	Unit Rates	
				Nat. Gas \$/GJ	Electricity \$/Kwh
7,476	0.011	\$1.22	35.4	\$5.52	\$0.061
3,221	0.005	\$1.06	28.5	\$4.67	\$0.069
18,713	0.028	\$1.51	41.7	\$5.03	\$0.064
10,600	0.016	\$2.35	67.9	\$4.29	\$0.060
2,816	0.004	\$1.39	34.8	\$5.35	\$0.075

*We hope that this description has been clear to you, If we have missed something or it is not perfectly clear, just give us a call at 403-215-0040 or e-mail us at [techno@c5plus.com](mailto:techno@c5plus.com)*

*If you want to see how “HENRI” compares with other buildings of the same age and size you can obtain that information by clicking on the “Averages” tables.*