

Cambridge Municipal Facilities Energy Use Disclosure Report Calendar Year 2015-2016

This report is presented in accordance with the Cambridge Building Energy Use Disclosure Ordinance. The ordinance requires large property owners to track and report annual energy use. Under the ordinance, the City reports energy use of buildings in its portfolio that are greater than 10,000 sf.

How Data Are Reported

The ENERGY STAR Portfolio Manager online tool calculates energy use metrics. Portfolio Manager applies a complex analytic model to compare and rank similar types of buildings across the country and over time by adjusting for differences in weather, climate, and use characteristics, such as number of operating hours and number of computers.

Benchmarking Score

K-12 schools and office buildings are the two categories that are eligible for a “benchmarking score” of 1 to 100. A score of 50 means that the building performs at the median of similar buildings nationwide; a score of 75 indicates that the building performs within the top 25% of its peers.

ENERGY STAR scores and energy use intensity (EUI) can be used to compare a building's performance over time, against other buildings nationwide or similar buildings within a portfolio.

Property Name and Address	Gross Floor Area (GFA) (ft ²) ¹	Weather Normalized Site EUI (kBtu/ft ²) ²		Weather Normalized Source EUI (kBtu/ft ²) ²		Total GHG Emissions (Metric Tons CO ₂ e) ³		Water Use (kgal) ⁴		ENERGY STAR Score ⁵	
		CY15	CY16	CY15	CY16	CY15	CY16	CY15	CY16	CY15	CY16
Primary Property Type: K-12 School											
Baldwin School 85 Oxford Street	69,340	63	60	120	117	316	297		50,415	79	81
Cambridge Rindge & Latin School 459 Broadway	407,835	56	55	112	110	1,681	1,595			90	92
Cambridgeport School 89 Elm Street	58,323	69	74	117	123	272	275	39,623	33,269	61	59
Fletcher-Maynard Academy 225 Windsor Street	83,221	70	50	106	88	465	327			62	80
Graham & Parks School 44 Linnaean Street	78,732	53	46	80	76	321	240			88	89
Haggerty School 110 Cushing Street	53,664	78	79	148	150	301	299			66	64
Kennedy-Longfellow School ⁹ 158 Spring Street	127,302	76	74	154	153	732	697	141,372	145,112	59	61
Longfellow Building 359 Broadway (temporary location of King Open School)	74,621	54	49	87	81	267	232			84	88
Martin Luther King Jr. School 102 Putnam Ave	152,065		33		72		283		10,532		100
Morse School 40 Granite Street	74,806	83	84	136	137	418	399	59,144	42,591	68	71
Peabody Complex 70 Rindge Avenue (includes Gately Youth Center and O'Neill Library)	128,392	63	62	122	119	593	562	57,648		80	83
Tobin School 197 Vassal Lane	124,543	56	56	174	175	687	665	390,051	402,507	40	47
Upton Street Building (Amigos School) 15 Upton Street	58,529	65	56	96	87	302	249	36,213	35,883	82	88
Total K-12 School GFA	1,491,373										
K-12 School Median	78,732	64	56	119	117	369	299	58,396	42,591	74	81
Primary Property Type: Office											
Alice K. Wolf Center ¹⁰ 5 Western Avenue	58,318	65	49	140	108	228	221	49,802	90,766	NA ⁶	NA ⁶
City Hall Annex 344 Broadway	33,909	62	55	191	168	203	171	26,930	27,702	55	70
City Hall Building 795 Massachusetts Avenue	59,140	70	61	152	138	320	286	69,683	57,549	NA ⁷	NA ⁷

Coffon Building 51 Inman Street	31,240	54	53	105	104	124	120			93	94
Lombardi Building 831 Massachusetts Avenue	21,808	96	79	223	192	169	143	16,433	17,229	51	67
Total Office GFA	204,415										
Office Median	33,909	65	55	152	138	203	171	38,366	42,626	55	70
Property Name and Address	Gross Floor Area (GFA) (ft ²) ¹	Weather		Weather		Total GHG		Water Use			
		CY15	CY16	CY15	CY16	CY15	CY16	CY15	CY16		
Primary Property Type: Vocational School											
Solomons Garage 454-456 Broadway (includes Plant Maintenance Dept.)	16,366	79	83	129	137	132	132	13,581	6,793		
Primary Property Type: Library											
Cambridge Public Library 449 Broadway	120,186	131	124	267	246	1,013	940				
Central Square Branch Library 45 Pearl Street	15,447	42	45	76	80	46	47	20,876	25,842		
Total Library GFA	135,633										
Library Median	67,817	86	84	171	163	530	494	20,876	25,842		
Primary Property Type: Recreational Center											
Citywide Senior Center 806 Massachusetts Avenue	27,999	103	102	196	192	209	200	35,955	40,371		
Frisoli Youth Center 61 Willow Street	20,059	96	85	192	169	143	123	1,365	12,415		
Moore Youth Center ⁸ 12 Gilmore Street	10,537	74	76	106	113	49	49	127,160	133,892		
Moses Youth Center 243 Harvard Street	19,405	115	106	185	172	146	132				
Russell Youth and Community Center ¹¹ 680 Huron Avenue	29,131	83	77	241	215	184	169				
Total Recreational Center GFA	107,131										
Recreational Center Median	20,059	96	85	192	172	146	132	35,955	40,371		
Primary Property Type: Fitness Center/Health Club/Gym											
Russell Field Athletic Facility 359 Rindge Avenue	12,089	60	57	143	130	60	54				
War Memorial Recreation Center 1640 Cambridge Street	168,224	130	130	224	223	1,056	1,026	220,734	251,544		
Total Fitness Center/Health Club/Gym GFA	180,313										
Fitness Center/Health Club/Gym Median	90,157	95	93	183	177	558	540	220,734	251,544		
Primary Property Type: Fire Station											
East Cambridge Fire House 175 Cambridge Street	17,093	93	82	159	141	109	93	11,221	11,993		
Fire Headquarters 491 Broadway	30,389	74	69	154	143	171	159	29,198	29,198		
Inman Square Fire House 1384 Cambridge Street	16,728	54	54	77	77	56	50	14,000	11,969		
Lafayette Square Fire House 378 Massachusetts Avenue	19,080	67	63	97	94	81	73	13,489	16,433		
Porter Square Fire House 2029 Massachusetts Avenue	11,213	90	89	120	120	61	58	9,570	9,050		
Taylor Square Fire House 113 Garden Street	16,188	103	115	143	156	103	108				
Total Fire Station GFA	110,691										
Fire Station Median	16,911	82	76	131	131	92	83	13,489	11,993		
Primary Property Type: Police Station											
Robert W. Healy Public Safety Facility 125 Sixth Street	162,547	134	134	342	334	1,322	1,319				
Primary Property Type: Parking Garage											

First Street Parking Garage Complex 51-69 First Street (includes retail and storage spaces)	404,152	131	142	410	447	160	181		
Green Street Garage 260 Green Street	110,884	6	6	19	19	48	47	Included in Central Square Library	
Vehicle Storage Building 250R Fresh Pond Parkway	8,792	183	171	306	283	110	94	Included in Sullivan Purification Facility	
Total Parking Garage GFA	523,828								
Parking Garage Median	110,884	131	142	306	283	110	94		

Primary Property Type: Drinking Water Treatment & Distribution									
Walter J. Sullivan Water Purification Facility 250 Fresh Pond Parkway	155,632	238	197	633	514	3,268	2,650	2,932,913	2,837,762
Primary Property Type: Public Service									
DPW Complex ¹² 147 Hampshire Street (includes Frazier Administration Building, Ryan Garage, Simard Building, and DPW Trailer)	80,764	213	195	288	273	431	382	50,294	45,171

Total City GFA 3,168,693
City Median 58,321 74 74 143 138 209 211 36,213 34,576

Additional Notes:

1 Includes buildings and parking

-An individual building under 10,000 square feet is included if it is one of multiple buildings on a single parcel of land that in summation exceed 10,000 square feet in gross floor area.

2 Energy Use Intensity (EUI): energy use per square foot. Generally, the lower the number the more efficient the building is.

-Portfolio Manager excludes parking areas from EUI calculations, which for First St Garage Complex and some others may result in artificially high EUI numbers.

-Source EUI measures the amount of energy consumed by the building plus losses incurred in energy production, transmission and delivery to the site per square foot of space.

3 Includes Scope 1 emissions (direct - produced on site by the building's energy use) and Scope 2 (indirect - produced off-site at energy generating facility).

-2016 data calculated using 2015 ISO emissions factors

4 Blank cells indicate that a meter/Meter Transmission Unit was installed or replaced mid-year and that a full year of data is not available.

5 K-12 schools and office buildings are the only building categories owned by the City that are eligible for ENERGY STAR scores.

6 Not eligible for ENERGY STAR Score because more than 25% of property is a type that is not eligible for a score (Adult Education)

7 Not eligible for ENERGY STAR Score because unoccupied space (attic) results in time-weighted weekly operating hours less than 30 (29.2)

8 Moore Youth Center water use (kgal) includes Hoyt field water supply.

9 2015 water use was adjusted to report in correct units

10 Water use is based on 6 months of available data, the use was adjusted to report in correct units

11 GFA and EUI for 2015 were adjusted

12 Water Use for 2015 was adjusted

Source: ENERGY STAR Portfolio Manager