

Government Greenhouse Gas Emissions in 2007

Detailed Report

	Equiv CO ₂ (tonnes)	Equiv CO ₂ (%)	Energy (MMBtu)	Cost (\$)
Buildings				
<i>Bacon Library</i>				
Electricity	9	0.1	73	2,215
Light Fuel Oil	35	0.3	467	7,575
<i>Subtotal Bacon Library</i>	44	0.4	540	9,790
56 Eliot St.; Electricity spending estimated using average unit cost of all other Town buildings; fuel oil spending estimated using average unit cost of other Town buildings using #2 Fuel Oil				
<i>Bennett Hemenway School</i>				
Electricity	264	2.3	2,171	82,330
Light Fuel Oil	254	2.2	3,388	54,943
<i>Subtotal Bennett Hemenway School</i>	518	4.6	5,558	137,273
22 East Evergreen Rd.; Uses #2 Fuel Oil				
<i>Brown Elementary School</i>				
Electricity	126	1.1	1,035	39,601
Natural Gas	180	1.6	3,209	53,513
<i>Subtotal Brown Elementary School</i>	306	2.7	4,244	93,114
1 Jean Burke Dr.				
<i>Cole Recreation Center</i>				
Electricity	43	0.4	357	6,961
Natural Gas	77	0.7	1,377	19,735
<i>Subtotal Cole Recreation Center</i>	121	1.1	1,734	26,696
179 Boden St.				
<i>DPW Yard & Windsor Garage</i>				
Electricity	130	1.2	1,072	22,886
Natural Gas	122	1.1	2,171	31,592
ULSD 2007	4	0.0	49	940
<i>Subtotal DPW Yard & Windsor Garage</i>	256	2.3	3,292	55,418
Windsor Ave; Combines two natural gas meters: Windsor Garage: 14,923 therms (\$21,486) and DPW Admin: 6,789 (\$10,106)				

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<i>Fire Dept. - East Natick</i>				
Electricity	12	0.1	102	2,820
Natural Gas	18	0.2	314	4,759
<i>Subtotal Fire Dept. - East Natick</i>	30	0.3	415	7,579
2 Rhode Island Ave.				
<i>Fire Dept. - South Natick</i>				
Electricity	8	0.1	63	1,762
Natural Gas	18	0.2	323	4,823
<i>Subtotal Fire Dept. - South Natick</i>	26	0.2	386	6,585
210 Union St./ Eliot St.				
<i>Fire Dept. - West Natick</i>				
Electricity	15	0.1	127	3,488
Natural Gas	26	0.2	473	7,380
<i>Subtotal Fire Dept. - West Natick</i>	42	0.4	599	10,868
268 Speen St.				
<i>Ice Rink & Support Building</i>				
Electricity	191	1.7	1,574	61,318
Natural Gas	53	0.5	950	13,495
<i>Subtotal Ice Rink & Support Building</i>	245	2.2	2,525	74,813
75 West Street; Feb, 2007 - July 2007 data extrapolated using the average energy consumption for each month from available data				
<i>Johnson Elementary School</i>				
Electricity	29	0.3	237	8,505
Light Fuel Oil	190	1.7	2,538	41,168
Natural Gas	6	0.1	107	1,631
<i>Subtotal Johnson Elementary School</i>	225	2.0	2,882	51,304
105 South Main St.; Uses #2 Fuel Oil				
<i>Kennedy Middle School</i>				
Electricity	215	1.9	1,771	71,495
Natural Gas	16	0.1	278	4,209
Heavy Fuel 4	345	3.0	4,142	41,194
<i>Subtotal Kennedy Middle School</i>	576	5.1	6,191	116,898

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	Equiv CO ₂ (tonnes)	Equiv CO ₂ (%)	Energy (MMBtu)	Cost (\$)
Trevor Lane; Uses #4 Fuel Oil				
<i>LFNR Garage</i>				
Electricity	6	0.0	46	1,410
<i>Subtotal LFNR Garage</i>	6	0.0	46	1,410
West St.; Spending estimated using average unit cost of all other Town buildings				
<i>Lilja Elementary School</i>				
Electricity	152	1.3	1,250	49,607
Natural Gas	152	1.3	2,708	45,185
<i>Subtotal Lilja Elementary School</i>	304	2.7	3,958	94,792
41 Bacon St.				
<i>Lincoln Courthouse Senior Center</i>				
Electricity	88	0.8	720	19,696
Natural Gas	122	1.1	2,179	31,537
<i>Subtotal Lincoln Courthouse Senior Center</i>	210	1.9	2,899	51,233
115 East Central St				
<i>Memorial Elementary School</i>				
Electricity	97	0.9	797	38,429
Light Fuel Oil	215	1.9	2,872	46,586
Natural Gas	11	0.1	202	2,717
<i>Subtotal Memorial Elementary School</i>	324	2.9	3,872	87,732
97 Eliot St.; Uses #2 Fuel Oil				
<i>Miscellaneous Outdoor Lighting</i>				
Electricity	9	0.1	78	4,866
<i>Subtotal Miscellaneous Outdoor Lighting</i>	9	0.1	78	4,866
Includes the following poles: P 446/5 Cole Lighting (5 Boden Lane); P137 Oak St. Gravel Pit (9 Oak St.); Bay State Town Forest 7/3x P442 (Bay State Rd.); P18 Oak St. Gravel Pit (Oak Street); Windsor Ave. Outdoor Lite (Windsor Ave poles)				
<i>Morse Institute / Library</i>				
Electricity	334	2.9	2,746	50,536
Natural Gas	115	1.0	2,048	26,430
<i>Subtotal Morse Institute / Library</i>	449	4.0	4,793	76,966

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14 East Central St.				
<i>Natick High School</i>				
Electricity	617	5.4	5,074	178,283
Natural Gas	75	0.7	1,342	17,025
Heavy Fuel 4	1,934	17.1	23,237	235,006
<i>Subtotal Natick High School</i>	2,626	23.2	29,653	430,314
124 Pond St.; Uses #4 Fuel Oil				
<i>Police & Fire Headquarters</i>				
Electricity	337	3.0	2,771	46,444
Natural Gas	216	1.9	3,854	54,559
ULSD 2007	3	0.0	35	674
<i>Subtotal Police & Fire Headquarters</i>	556	4.9	6,661	101,677
20 East Central St.				
<i>Recycling Center</i>				
Electricity	4	0.0	34	887
<i>Subtotal Recycling Center</i>	4	0.0	34	887
251 South Main St.				
<i>Town Hall</i>				
Electricity	248	2.2	2,038	43,711
Natural Gas	81	0.7	1,449	20,855
<i>Subtotal Town Hall</i>	329	2.9	3,486	64,566
13 East Central St.				
<i>Wilson Middle School</i>				
Electricity	338	3.0	2,776	106,150
Natural Gas	261	2.3	4,659	77,280
<i>Subtotal Wilson Middle School</i>	599	5.3	7,435	183,430
22 Rutledge Rd.				
Subtotal Buildings	7,803	68.9	91,281	1,688,211

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	Equiv CO ₂ (tonnes)	Equiv CO ₂ (%)	Energy (MMBtu)	Cost (\$)
Vehicle Fleet				
<i>Administration</i>				
Gasoline	22	0.2	282	5,158
<i>Subtotal Administration</i>	22	0.2	282	5,158
<i>Buses</i>				
Diesel (ULSD)	94	0.8	1,190	22,763
<i>Subtotal Buses</i>	94	0.8	1,190	22,763
<i>Fire Department</i>				
Gasoline	31	0.3	399	7,304
Diesel (ULSD)	161	1.4	2,048	39,153
<i>Subtotal Fire Department</i>	192	1.7	2,446	46,457
<i>Highway</i>				
Gasoline	14	0.1	178	3,258
Diesel (ULSD)	183	1.6	2,323	44,415
<i>Subtotal Highway</i>	197	1.7	2,501	47,673
<i>LFNR</i>				
Gasoline	28	0.2	368	6,731
Diesel (ULSD)	24	0.2	311	5,943
<i>Subtotal LFNR</i>	53	0.5	678	12,674
<i>Library</i>				
Diesel (ULSD)	3	0.0	34	643
<i>Subtotal Library</i>	3	0.0	34	643
<i>Other</i>				
Gasoline	42	0.4	548	10,027
Diesel (ULSD)	4	0.0	55	1,043
<i>Subtotal Other</i>	46	0.4	602	11,070

Other includes vehicles where "Fleet" designation is one of the following: Engineering, Equipment Main, Rental-Other.

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<i>Police Department</i>				
Gasoline	348	3.1	4,501	82,425
Subtotal Police Department	348	3.1	4,501	82,425
<i>Recreation</i>				
Gasoline	5	0.0	62	1,131
Diesel (ULSD)	4	0.0	48	910
Subtotal Recreation	9	0.1	109	2,041
<i>Sanitation</i>				
Diesel (ULSD)	265	2.3	3,371	64,468
Subtotal Sanitation	265	2.3	3,371	64,468
<i>Schools</i>				
Gasoline	38	0.3	491	8,992
Diesel (ULSD)	215	1.9	2,729	52,177
Subtotal Schools	252	2.2	3,220	61,169
Cost of school buses estimated based on annual rate of \$2.09 paid for ULSD in 2007.				
<i>Town Hall</i>				
Gasoline	9	0.1	121	2,210
Subtotal Town Hall	9	0.1	121	2,210
<i>Water & Sewer</i>				
Gasoline	113	1.0	1,479	27,086
Diesel (ULSD)	97	0.9	1,230	23,526
Subtotal Water & Sewer	210	1.9	2,709	50,612
Subtotal Vehicle Fleet	1,699	15.0	21,766	409,363
Streetlights				
<i>Streetlights - Townwide</i>				
Electricity	345	3.0	2,836	45,705
Subtotal Streetlights - Townwide	345	3.0	2,836	45,705
Subtotal Streetlights	345	3.0	2,836	45,705

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Water/Sewage				
<i>Sewer Pumps</i>				
Electricity	364	3.2	2,989	76,558
Subtotal Sewer Pumps	364	3.2	2,989	76,558
Includes 34 meters (see workpapers)				
<i>Water Pumps - All Others</i>				
Electricity	185	1.6	1,523	41,141
Subtotal Water Pumps - All Others	185	1.6	1,523	41,141
Includes the following 3 pumps: CPT. Tom's Hill Pump P 5097; Turtle Lane Pump P65/5 (Turtle Lane); Elm Bank Pump (Turtle Lane)				
<i>Water Pumps - Morse's Pond</i>				
Electricity	31	0.3	256	24,273
Subtotal Water Pumps - Morse's Pond	31	0.3	256	24,273
103 Bacon St.				
<i>Water Treatment - Springvale Facilities</i>				
Electricity	786	6.9	6,464	120,580
Natural Gas	20	0.2	352	5,170
ULSD 2007	11	0.1	140	2,689
Subtotal Water Treatment - Springvale Facilities	817	7.2	6,956	128,439
1076-1080 Worcester St., Meter Nos. 26142961007 & 26149871006; electricity includes 1,286,956 kwh (\$82,549) for 1080 Worcester St. and 607,040 kwh (\$38,031) for 1076 Worcester St.				
Subtotal Water/Sewage	1,397	12.3	11,723	270,411
Other				
<i>Equipment</i>				
Carbon Dioxide	88	0.8		
Subtotal Equipment	88	0.8		
Includes CO2 emissions from 2,811 gal of gasoline and 6,366 gal of ULSD. eCO2 was estimated using the "passenger vehicle" coefficients due to lack of data on specific types of equipment included in these totals. Departments/fleets with equipment included are: Highway, LFNR, NFD, NPD, Schools, Water & Sewer, and "Equipment Main."				

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Subtotal Other	88	0.8		
Total	11,332	100.0	127,606	2,413,690