

## Government Greenhouse Gas Emissions in 2004 Detailed Report

	Equiv CO <sub>2</sub> (tonnes)	Equiv CO <sub>2</sub> (%)	Energy (MMBtu)	Cost (\$)
<b>Buildings</b>				
<i>Bacon Library</i>				
Electricity	7	0.1	56	1,741
Light Fuel Oil	35	0.3	467	2,929
<i>Subtotal Bacon Library</i>	42	0.3	523	4,670
56 Eliot St.; Only 10 months actual electric data available (13599 kwh) - first 2 months of FY05 used to fill in missing months; Electricity spending estimated using average unit cost of all other Town buildings; no fuel oil data available for FY04 - assumed usage equivalent to FY07				
<i>Bennett Hemenway School</i>				
Electricity	273	2.3	2,244	71,950
Light Fuel Oil	311	2.6	4,148	26,010
<i>Subtotal Bennett Hemenway School</i>	584	4.8	6,392	97,960
22 East Evergreen Rd				
<i>Brown Elementary School</i>				
Electricity	142	1.2	1,165	35,410
Natural Gas	174	1.4	3,108	31,119
<i>Subtotal Brown Elementary School</i>	316	2.6	4,273	66,529
1 Jean Burke Drive				
<i>Cole Recreation Center</i>				
Electricity	40	0.3	325	8,838
Natural Gas	86	0.7	1,533	16,952
<i>Subtotal Cole Recreation Center</i>	125	1.0	1,858	25,790
179 Boden				
<i>DPW Yard &amp; Windsor Garage</i>				
Electricity	128	1.1	1,055	27,389
Natural Gas	166	1.4	2,954	32,670
LSD 2004	5	0.0	61	599
<i>Subtotal DPW Yard &amp; Windsor Garage</i>	299	2.5	4,071	60,658
Windsor Ave; Combines two natural gas meters: Windsor Garage: 19,078 therms (\$20,854) and DPW Admin: 10,463 therms (\$11,816);				

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	Equiv CO <sub>2</sub> (tonnes)	Equiv CO <sub>2</sub> (%)	Energy (MMBtu)	Cost (\$)
<i>Fire Dept. - East Natick</i>				
Electricity	13	0.1	111	3,990
Natural Gas	21	0.2	373	4,338
<i>Subtotal Fire Dept. - East Natick</i>	34	0.3	484	8,328
2 Rhode Island Ave.				
<i>Fire Dept. - South Natick</i>				
Electricity	8	0.1	67	2,334
Natural Gas	19	0.2	333	3,365
<i>Subtotal Fire Dept. - South Natick</i>	27	0.2	400	5,699
210 Union St. / Eliot St.				
<i>Fire Dept. - West Natick</i>				
Electricity	11	0.1	92	3,268
Natural Gas	33	0.3	588	6,629
<i>Subtotal Fire Dept. - West Natick</i>	44	0.4	680	9,897
268 Speen St.				
<i>Ice Rink &amp; Support Building</i>				
Electricity	376	3.1	3,090	97,107
Natural Gas	85	0.7	1,517	21,641
<i>Subtotal Ice Rink &amp; Support Building</i>	461	3.8	4,607	118,748
75 West Street; August, 2003 - January, 2004 data extrapolated using the average energy consumption for each month from available data				
<i>Johnson Elementary School</i>				
Electricity	33	0.3	275	9,706
Light Fuel Oil	176	1.5	2,342	14,686
Natural Gas	3	0.0	62	810
<i>Subtotal Johnson Elementary School</i>	213	1.8	2,679	25,202
105 South Main St.				
<i>Kennedy Middle School</i>				
Electricity	249	2.1	2,044	75,593
Light Fuel Oil	0	0.0	0	0
Natural Gas	19	0.2	340	3,665

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	Equiv CO <sub>2</sub> (tonnes)	Equiv CO <sub>2</sub> (%)	Energy (MMBtu)	Cost (\$)
Heavy Fuel 4	409	3.4	4,913	25,885
<i>Subtotal Kennedy Middle School</i>	677	5.6	7,297	105,143
Trevor Lane				
<i>LFNR Garage</i>				
Electricity	7	0.1	58	2,029
<i>Subtotal LFNR Garage</i>	7	0.1	58	2,029
West St.				
<i>Lilja Elementary School</i>				
Electricity	157	1.3	1,289	43,297
Natural Gas	174	1.4	3,096	37,990
<i>Subtotal Lilja Elementary School</i>	330	2.7	4,386	81,287
41 Bacon St.				
<i>Lincoln Courthouse Senior Center</i>				
Electricity	81	0.7	667	24,346
Natural Gas	123	1.0	2,196	24,200
<i>Subtotal Lincoln Courthouse Senior Center</i>	204	1.7	2,863	48,546
115 East Central Street				
<i>Memorial Elementary School</i>				
Electricity	128	1.1	1,048	33,710
Light Fuel Oil	286	2.4	3,810	23,890
Natural Gas	22	0.2	392	2,735
<i>Subtotal Memorial Elementary School</i>	435	3.6	5,250	60,335
97 Eliot St.				
<i>Miscellaneous Outdoor Lighting</i>				
Electricity	4	0.0	35	1,798
<i>Subtotal Miscellaneous Outdoor Lighting</i>	4	0.0	35	1,798
Includes the following poles: P 446/5 Cole Lighting; P137 Oak St. Gravel Pit; Bay State Town Forest 7/3x P442; P18 Oak St. Gravel Pit; Windsor Ave. Outdoor Light				

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	Equiv CO <sub>2</sub> (tonnes)	Equiv CO <sub>2</sub> (%)	Energy (MMBtu)	Cost (\$)
<i>Morse Institute Library</i>				
Electricity	301	2.5	2,477	57,814
Natural Gas	152	1.3	2,714	29,258
<i>Subtotal Morse Institute Library</i>	453	3.8	5,191	87,072
14 East Central Street				
<i>Natick High School</i>				
Electricity	619	5.1	5,091	149,728
Natural Gas	141	1.2	2,512	26,303
Heavy Fuel 4	1,943	16.1	23,353	122,908
<i>Subtotal Natick High School</i>	2,703	22.4	30,956	298,939
124 Pond St.				
<i>Police &amp; Fire Headquarters</i>				
Electricity	356	2.9	2,926	64,353
Natural Gas	283	2.3	5,050	54,589
LSD 2004	1	0.0	12	121
<i>Subtotal Police &amp; Fire Headquarters</i>	640	5.3	7,988	119,063
20 East Central Street;				
<i>Recycling Center</i>				
Electricity	5	0.0	45	1,250
<i>Subtotal Recycling Center</i>	5	0.0	45	1,250
251 South Main St.				
<i>Town Hall</i>				
Electricity	257	2.1	2,110	64,676
Natural Gas	108	0.9	1,924	20,903
<i>Subtotal Town Hall</i>	364	3.0	4,034	85,579
13 East Central St.				
<i>Wilson Middle School</i>				
Electricity	413	3.4	3,395	116,001
Natural Gas	315	2.6	5,626	40,928
<i>Subtotal Wilson Middle School</i>	728	6.0	9,022	156,929
22 Rutledge Road				

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	Equiv CO <sub>2</sub> (tonnes)	Equiv CO <sub>2</sub> (%)	Energy (MMBtu)	Cost (\$)
<b>Subtotal Buildings</b>	8,698	72.0	103,091	1,471,451

### Vehicle Fleet

#### *Administration*

Gasoline	28	0.2	359	3,747
<b>Subtotal Administration</b>	28	0.2	359	3,747

Cost estimates based on an average fuel cost for the year 2004 of \$1.31 for gasoline and \$1.19 for diesel.

#### *Buses*

Gasoline	13	0.1	166	1,734
Diesel	76	0.6	967	9,432
<b>Subtotal Buses</b>	89	0.7	1,133	11,166

Cost estimates based on an average fuel cost for the year 2004 of \$1.31 for gasoline and \$1.19 for diesel.

#### *Fire Department*

Gasoline	18	0.1	230	2,403
Diesel	147	1.2	1,868	18,216
<b>Subtotal Fire Department</b>	165	1.4	2,098	20,619

Cost estimates based on an average fuel cost for the year 2004 of \$1.31 for gasoline and \$1.19 for diesel.

#### *Highway*

Gasoline	27	0.2	354	3,689
Diesel	164	1.4	2,084	20,322
<b>Subtotal Highway</b>	191	1.6	2,437	24,011

Cost estimates based on an average fuel cost for the year 2004 of \$1.31 for gasoline and \$1.19 for diesel.

#### *LFNR*

Gasoline	33	0.3	432	4,506
Diesel	25	0.2	315	3,074
<b>Subtotal LFNR</b>	58	0.5	747	7,580

Cost estimates based on an average fuel cost for the year 2004 of \$1.31 for gasoline and \$1.19 for diesel.

#### *Library*

Diesel	2	0.0	28	277
<b>Subtotal Library</b>	2	0.0	28	277

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Cost estimates based on an average fuel cost for the year 2004 of \$1.31 for gasoline and \$1.19 for diesel.

### *Other*

Gasoline	34	0.3	448	4,677
Diesel	10	0.1	125	1,216
<b>Subtotal Other</b>	<b>44</b>	<b>0.4</b>	<b>573</b>	<b>5,893</b>

Includes vehicles where "Fleet" designation is one of the following: Engineering, Equipment Main, Rental-Other. Cost estimates based on an average fuel cost for the year 2004 of \$1.31 for gasoline and \$1.19 for diesel.

### *Police Department*

Gasoline	335	2.8	4,323	45,089
<b>Subtotal Police Department</b>	<b>335</b>	<b>2.8</b>	<b>4,323</b>	<b>45,089</b>

Cost estimates based on an average fuel cost for the year 2004 of \$1.31 for gasoline and \$1.19 for diesel.

### *Recreation*

Gasoline	4	0.0	58	601
Diesel	5	0.0	64	623
<b>Subtotal Recreation</b>	<b>9</b>	<b>0.1</b>	<b>122</b>	<b>1,224</b>

Cost estimates based on an average fuel cost for the year 2004 of \$1.31 for gasoline and \$1.19 for diesel.

### *Sanitation*

Gasoline	13	0.1	174	1,819
Diesel	260	2.2	3,304	32,220
<b>Subtotal Sanitation</b>	<b>273</b>	<b>2.3</b>	<b>3,478</b>	<b>34,039</b>

Cost estimates based on an average fuel cost for the year 2004 of \$1.31 for gasoline and \$1.19 for diesel.

### *Schools*

Gasoline	32	0.3	407	4,243
Diesel	285	2.4	3,627	35,379
<b>Subtotal Schools</b>	<b>317</b>	<b>2.6</b>	<b>4,034</b>	<b>39,622</b>

Cost estimates based on an average fuel cost for the year 2004 of \$1.31 for gasoline and \$1.19 for diesel.

### *Town Hall*

Gasoline	17	0.1	218	2,270
<b>Subtotal Town Hall</b>	<b>17</b>	<b>0.1</b>	<b>218</b>	<b>2,270</b>

Cost estimates based on an average fuel cost for the year 2004 of \$1.31 for gasoline and \$1.19 for diesel.

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<i>Water &amp; Sewer</i>				
Gasoline	115	1.0	1,504	15,686
Diesel	87	0.7	1,101	10,736
<b>Subtotal Water &amp; Sewer</b>	<b>202</b>	<b>1.7</b>	<b>2,605</b>	<b>26,422</b>
Cost estimates based on an average fuel cost for the year 2004 of \$1.31 for gasoline and \$1.19 for diesel.				
<b>Subtotal Vehicle Fleet</b>	<b>1,730</b>	<b>14.3</b>	<b>22,157</b>	<b>221,959</b>
<b>Streetlights</b>				
<i>Streetlights (Townwide)</i>				
Electricity	345	2.9	2,836	45,705
<b>Subtotal Streetlights (Townwide)</b>	<b>345</b>	<b>2.9</b>	<b>2,836</b>	<b>45,705</b>
Total energy use for all 2,482 streetlights, as reported by NStar. Costs estimated based on Natick's contracted rate of \$0.055/kWh.				
<b>Subtotal Streetlights</b>	<b>345</b>	<b>2.9</b>	<b>2,836</b>	<b>45,705</b>
<b>Water/Sewage</b>				
<i>Sewer Pumps</i>				
Electricity	361	3.0	2,970	87,382
<b>Subtotal Sewer Pumps</b>	<b>361</b>	<b>3.0</b>	<b>2,970</b>	<b>87,382</b>
Includes 34 meters (see workpapers)				
<i>Water Pumps - All Others</i>				
Electricity	175	1.4	1,436	55,189
<b>Subtotal Water Pumps - All Others</b>	<b>175</b>	<b>1.4</b>	<b>1,436</b>	<b>55,189</b>
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	61	0.5	497	18,212
<b>Subtotal Water Pumps - Morse's Pond</b>	<b>61</b>	<b>0.5</b>	<b>497</b>	<b>18,212</b>
103 Bacon St.				

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	Equiv CO <sub>2</sub> (tonnes)	Equiv CO <sub>2</sub> (%)	Energy (MMBtu)	Cost (\$)
<i>Water Treatment - Springvale Facilities</i>				
Electricity	598	4.9	4,915	125,683
Natural Gas	22	0.2	396	4,754
LSD 2004	12	0.1	149	1,458
<i>Subtotal Water Treatment - Springvale Facilities</i>	632	5.2	5,461	131,895
1076-1080 Worcester St., Meter Nos. 26142961007 & 26149871006; electricity includes 1,020,048 kwh (\$90,444) for 1080 Worcester St. and 420,160 kwh (\$35,239) for 1076 Worcester St.				
<b>Subtotal Water/Sewage</b>	1,229	10.2	10,364	292,678
<b>Other</b>				
<i>Equipment</i>				
Carbon Dioxide	83	0.7		
<i>Subtotal Equipment</i>	83	0.7		
Includes CO2 emissions from 2,819 gal of gasoline and 5,720 gal of diesel used in "equipment" by various departments. 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."				
<b>Subtotal Other</b>	83	0.7		
<b>Total</b>	12,084	100.0	138,448	2,031,793