

**Table CT1. Energy Consumption Estimates for Selected Energy Sources in Physical Units, Selected Years, 1960-2021, Massachusetts**

Year	Coal Thousand Short Tons	Natural Gas <sup>a</sup> Billion Cubic Feet	Petroleum							Nuclear Electric Power Million Kilowatthours	Hydro-electric Power <sup>g</sup> Million Kilowatthours	Fuel Ethanol <sup>h</sup> Thousand Barrels	Biodiesel Thousand Barrels
			Distillate Fuel Oil <sup>b</sup>	HGL <sup>c</sup>	Jet Fuel <sup>d</sup>	Motor Gasoline <sup>e</sup>	Residual Fuel Oil	Other <sup>f</sup>	Total				
			Thousand Barrels										
1960	4,559	78	51,240	1,148	1,209	34,993	39,108	11,024	138,722	34	982	NA	NA
1965	4,932	114	55,825	1,511	3,166	39,752	54,207	9,904	164,366	966	664	NA	NA
1970	910	147	59,239	1,820	7,864	49,527	86,130	7,015	211,594	1,209	753	NA	NA
1971	535	156	61,616	1,852	8,642	50,827	83,869	6,983	213,789	1,435	706	NA	NA
1972	317	160	64,284	2,164	8,904	53,634	87,842	6,707	223,535	1,499	859	NA	NA
1973	221	156	64,628	2,131	9,027	55,596	86,191	6,614	224,187	5,120	560	NA	NA
1974	1,119	155	60,575	2,061	8,220	54,280	69,100	5,722	199,957	2,885	428	NA	NA
1975	1,016	154	58,665	2,315	8,009	54,630	65,975	4,504	194,096	3,781	417	NA	NA
1976	170	156	62,879	2,556	8,032	56,310	74,384	5,126	209,287	3,664	490	NA	NA
1977	167	160	61,008	2,984	8,773	56,962	71,513	5,054	206,294	3,675	422	NA	NA
1978	131	161	58,788	2,785	8,470	57,539	69,849	4,971	202,401	5,570	214	NA	NA
1979	185	156	43,445	2,234	8,734	55,533	57,530	4,503	171,979	6,077	438	NA	NA
1980	874	183	37,613	2,125	8,573	51,443	54,143	4,052	157,949	3,232	158	NA	NA
1981	1,035	185	32,035	2,572	7,992	52,079	49,418	3,988	148,085	4,331	430	13	NA
1982	3,422	195	31,906	2,157	7,360	51,956	42,111	4,226	139,716	4,173	252	1	NA
1983	3,660	192	31,557	2,169	7,280	52,559	35,005	3,452	132,023	6,063	278	(s)	NA
1984	4,403	209	36,779	1,721	6,899	53,880	37,554	4,260	141,092	1,035	297	0	NA
1985	4,176	219	36,020	1,719	6,984	54,847	36,075	3,836	139,480	6,133	262	0	NA
1986	3,785	186	38,697	2,279	6,913	56,380	49,646	3,664	157,579	2,420	392	0	NA
1987	4,487	227	42,152	2,634	7,850	57,692	38,070	3,974	152,372	1,136	310	0	NA
1988	4,463	211	40,881	2,373	9,320	59,344	38,420	3,938	154,277	1,117	212	0	NA
1989	4,670	251	43,762	2,567	10,005	58,290	38,030	3,541	156,196	3,015	404	0	NA
1990	4,370	264	38,606	2,631	9,806	56,125	31,948	3,354	142,469	5,070	1,249	0	NA
1991	4,494	273	37,398	1,919	9,398	54,488	30,503	3,892	137,598	4,417	1,115	0	NA
1992	4,295	332	39,725	1,869	7,880	55,436	27,315	3,590	135,815	4,742	1,011	0	NA
1993	3,852	338	38,457	2,102	7,728	56,065	24,276	3,492	132,120	4,339	882	(s)	NA
1994	3,970	372	38,311	2,056	7,433	56,871	20,988	2,802	128,459	3,859	938	0	NA
1995	4,149	382	37,278	2,143	6,636	58,775	13,869	3,042	121,743	4,486	869	0	NA
1996	4,498	377	34,449	2,563	6,873	59,794	15,396	3,034	122,109	5,324	1,189	0	NA
1997	4,891	403	34,545	2,109	7,301	60,912	60,912	2,764	130,017	4,310	1,032	0	NA
1998	4,373	359	32,837	1,969	7,736	62,284	25,658	2,922	133,405	5,698	1,030	0	NA
1999	4,509	345	32,766	2,295	8,081	63,433	19,248	3,294	129,118	4,518	975	0	NA
2000	4,556	343	37,019	2,923	8,204	65,029	16,653	3,850	133,678	5,512	1,065	0	NA
2001	4,429	349	38,599	2,910	7,003	65,358	16,347	3,558	133,775	5,144	703	0	1
2002	4,735	393	37,750	2,315	5,609	67,106	12,843	3,486	129,109	5,769	875	21	2
2003	4,498	404	39,799	2,608	6,396	66,973	13,762	3,000	132,538	4,978	1,075	21	1
2004	4,446	373	37,923	1,962	8,235	68,242	14,152	3,023	133,537	5,939	998	200	3
2005	5,136	378	37,668	2,875	9,025	68,048	14,379	3,018	135,014	5,475	1,042	1,760	10
2006	4,843	371	32,642	3,681	8,387	68,400	6,504	3,012	122,625	5,890	1,513	4,760	29
2007	5,229	409	32,524	3,362	8,235	70,647	7,011	2,345	124,125	5,120	797	6,104	39
2008	4,664	407	30,872	2,878	11,060	68,020	5,015	1,457	119,303	5,869	1,156	5,089	33
2009	3,941	396	29,473	2,574	6,205	66,453	2,605	3,372	110,682	5,396	1,201	5,647	35
2010	3,563	432	32,437	2,387	8,553	66,604	1,285	3,464	114,730	5,918	996	7,068	29
2011	1,824	449	30,773	2,835	8,617	66,015	969	3,336	112,545	5,085	1,149	6,821	98
2012	1,015	416	25,672	2,388	8,567	65,485	644	3,054	105,809	5,860	912	6,623	73
2013	1,778	421	30,005	2,858	8,794	65,312	861	3,352	111,182	4,331	992	6,727	402
2014	1,301	422	29,132	3,195	9,270	64,226	1,351	3,637	110,812	5,769	902	6,672	354
2015	1,050	444	29,937	2,952	9,808	66,309	1,085	3,558	113,648	4,995	827	6,909	420
2016	911	428	25,072	2,751	11,400	67,054	755	3,607	110,638	5,414	713	6,945	630
2017	563	449	25,660	2,913	12,271	65,943	672	R 3,537	110,995	5,047	1,037	6,863	681
2018	4	439	27,361	3,317	12,643	66,415	619	R 3,339	113,693	4,442	1,134	6,855	377
2019	3	430	26,850	3,670	R 13,633	65,279	352	R 3,214	R 112,998	2,177	976	6,860	295
2020	0	389	24,601	3,398	R 5,600	52,176	67	R 3,190	R 89,032	0	844	5,534	304
2021	0	393	26,138	3,351	7,643	58,366	335	3,498	99,331	0	1,118	6,231	265

<sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.  
<sup>b</sup> Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.  
<sup>c</sup> Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.  
<sup>d</sup> Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other Petroleum."  
<sup>e</sup> Beginning in 1993, includes fuel ethanol blended into motor gasoline.  
<sup>f</sup> Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.  
<sup>g</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

<sup>h</sup> Includes denaturant. Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate.  
 NA = Not available.  
 Where shown, R = Revised data and (s) = Value less than 0.5.  
 Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.  
 Web Page: All data are available at <https://www.eia.gov/state/seds/seds-data-complete.php>.  
 Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes.  
<http://www.eia.gov/state/seds/>

**MASSACHUSETTS**  
**Table CT2. Primary Energy Consumption Estimates, Selected Years, 1960-2021, Massachusetts**  
 (Trillion Btu)

Year	Fossil Fuels										Fossil Fuels (as commingled)			
	Coal	Natural Gas excluding Supplemental Gaseous Fuels <sup>a</sup>	Petroleum							Total	Total	Natural Gas including Supplemental Gaseous Fuels <sup>a</sup>	Distillate Fuel Oil including Biofuels <sup>a</sup>	Motor Gasoline including Fuel Ethanol <sup>a</sup>
			Distillate Fuel Oil excluding Biofuels <sup>a</sup>	HGL <sup>b</sup>	Jet Fuel <sup>c</sup>	Motor Gasoline excluding Fuel Ethanol <sup>a</sup>	Residual Fuel Oil	Other <sup>d</sup>	Total					
1960	118.7	80.6	298.5	4.4	6.7	183.8	245.9	64.8	804.1	1,003.4	80.6	298.5	183.8	
1965	127.9	115.7	325.2	5.8	17.8	208.8	340.8	57.9	956.3	1,200.0	115.7	325.2	208.8	
1970	21.4	149.1	345.1	6.9	44.5	260.2	541.5	42.4	1,240.5	1,411.0	149.1	345.1	260.2	
1971	13.1	158.3	358.9	7.0	48.9	267.0	527.3	42.3	1,251.3	1,422.7	158.3	358.9	267.0	
1972	7.7	162.2	374.5	8.1	50.4	281.7	552.3	40.4	1,307.3	1,477.2	162.2	374.5	281.7	
1973	5.2	157.3	376.5	7.9	51.1	292.0	541.9	40.5	1,309.9	1,472.3	157.3	376.5	292.0	
1974	26.4	156.7	352.9	7.7	46.5	285.1	434.4	34.9	1,161.5	1,344.6	156.7	352.9	285.1	
1975	24.5	154.6	341.7	8.6	45.3	287.0	414.8	27.2	1,124.6	1,303.6	154.6	341.7	287.0	
1976	4.0	157.2	366.3	9.4	45.5	295.8	467.7	31.0	1,215.6	1,376.8	157.2	366.3	295.8	
1977	4.0	161.5	355.4	10.9	49.6	299.2	449.6	30.5	1,195.2	1,360.6	161.5	355.4	299.2	
1978	3.2	162.0	342.4	10.1	47.9	302.3	439.1	29.8	1,171.7	1,336.9	162.0	342.4	302.3	
1979	4.6	157.9	253.1	8.1	49.4	291.7	361.7	26.9	990.9	1,153.4	157.9	253.1	291.7	
1980	22.8	169.9	219.1	7.8	48.5	270.2	340.4	24.1	910.0	1,102.8	169.9	219.1	270.2	
1981	26.6	165.4	186.6	9.3	45.2	273.6	310.7	23.8	849.2	1,041.2	165.4	186.6	273.6	
1982	89.6	181.8	185.9	7.8	41.6	272.9	264.8	25.3	798.3	1,069.7	181.8	185.9	272.9	
1983	96.9	185.6	183.8	7.9	41.2	276.1	220.1	20.5	749.6	1,032.0	185.6	183.8	276.1	
1984	116.0	208.3	214.2	6.4	39.0	283.0	236.1	25.0	803.7	1,128.0	208.3	214.2	283.0	
1985	110.2	221.0	209.8	6.4	39.5	288.1	226.8	22.6	793.3	1,124.5	221.0	209.8	288.1	
1986	99.8	188.8	225.4	8.4	39.1	296.2	312.1	21.8	903.1	1,191.6	188.8	225.4	296.2	
1987	117.6	232.0	245.5	9.8	44.4	303.1	239.3	24.0	866.1	1,215.7	232.0	245.5	303.1	
1988	116.9	216.4	238.1	8.9	52.7	311.7	241.5	24.1	877.1	1,210.3	216.4	238.1	311.7	
1989	121.9	260.3	254.9	9.7	56.6	306.2	239.1	21.5	888.0	1,270.2	260.3	254.9	306.2	
1990	114.0	273.6	224.9	9.7	55.5	294.8	200.9	20.4	806.1	1,193.7	273.6	224.9	294.8	
1991	117.9	283.7	217.8	7.2	52.8	286.2	191.8	24.1	780.0	1,181.6	283.7	217.8	286.2	
1992	112.0	344.4	231.4	7.0	44.5	291.2	171.7	21.9	767.8	1,224.2	344.4	231.4	291.2	
1993	99.6	350.6	224.0	7.9	43.7	292.5	152.6	21.2	741.9	1,192.1	350.6	224.0	292.5	
1994	101.8	381.1	223.0	7.8	42.1	296.5	132.0	16.8	718.2	1,201.1	381.1	223.0	296.5	
1995	105.4	391.2	217.0	8.1	37.6	305.9	87.2	18.6	674.3	1,170.9	391.2	217.0	305.9	
1996	113.7	387.0	200.5	9.6	39.0	311.6	96.8	18.6	676.1	1,176.7	387.0	200.5	311.6	
1997	122.9	411.4	201.1	8.0	41.4	317.0	140.7	16.7	725.0	1,259.3	411.4	201.1	317.0	
1998	109.9	367.0	191.1	7.5	43.9	324.1	161.3	17.5	745.3	1,222.2	367.0	191.1	324.1	
1999	113.6	361.2	190.7	8.7	45.8	330.0	121.0	19.7	715.9	1,190.7	361.2	190.7	330.0	
2000	114.7	357.7	215.4	11.0	46.5	338.2	104.7	23.7	739.5	1,211.9	357.7	215.4	338.2	
2001	109.0	364.1	224.6	10.8	39.7	339.9	102.8	22.1	739.9	1,213.0	364.1	224.6	339.9	
2002	118.4	404.5	219.7	8.6	31.8	348.8	80.7	21.7	711.4	1,234.2	404.5	219.7	348.8	
2003	109.4	415.0	231.6	9.9	36.3	348.0	86.5	18.5	730.8	1,255.1	415.0	231.6	348.1	
2004	105.1	383.6	220.6	7.5	46.7	353.9	89.0	18.7	736.4	1,225.1	383.6	220.6	353.6	
2005	119.3	386.3	219.2	10.9	51.2	347.2	90.4	18.5	737.3	1,243.0	386.3	219.2	353.3	
2006	112.2	378.0	189.4	13.6	47.6	338.1	40.9	18.7	648.4	1,138.6	378.0	189.4	354.7	
2007	120.2	418.9	188.1	12.5	46.7	342.1	44.1	14.3	647.8	1,186.9	418.9	188.1	363.3	
2008	106.9	415.2	178.4	11.0	62.7	329.7	31.5	8.6	621.9	1,144.1	415.2	178.4	347.3	
2009	92.1	408.5	R 169.6	9.8	35.2	318.7	16.4	21.4	R 571.1	R 1,071.7	408.5	170.3	338.2	
2010	83.8	447.4	R 186.9	9.2	48.5	313.0	8.1	22.1	R 587.7	R 1,119.0	447.4	187.3	337.5	
2011	43.0	464.0	R 176.4	10.9	48.9	310.6	6.1	21.4	R 574.2	R 1,081.2	464.0	177.6	334.2	
2012	24.0	430.9	R 146.9	9.2	48.6	308.5	4.0	19.6	R 536.8	R 991.8	430.9	148.0	331.5	
2013	42.2	435.3	R 170.1	11.0	49.9	307.1	5.4	21.2	R 564.7	R 1,042.2	435.3	172.9	330.5	
2014	29.9	432.5	R 165.9	12.3	52.6	301.8	8.5	23.0	564.0	1,026.4	432.6	167.9	324.9	
2015	24.2	457.1	R 170.3	11.3	55.6	311.3	6.8	22.4	577.8	1,059.1	457.2	172.5	335.3	
2016	20.1	440.7	R 141.3	10.6	64.6	314.8	4.7	22.8	R 558.9	R 1,019.7	440.8	144.3	339.0	
2017	12.4	462.4	R 145.2	11.2	69.6	309.3	4.2	22.4	R 561.9	R 1,036.7	462.5	147.7	333.2	
2018	0.1	452.1	R 155.1	12.7	71.7	311.8	3.9	21.1	R 576.3	R 1,028.5	452.2	157.6	335.7	
2019	0.1	442.8	R 152.3	14.1	R 77.3	305.9	2.2	20.3	R 572.2	R 1,015.0	442.8	154.6	329.8	
2020	0.0	400.7	R 139.2	13.1	31.8	244.4	0.4	20.3	R 449.0	R 849.7	400.7	141.6	263.6	
2021	0.0	404.3	149.7	12.9	43.3	273.1	2.1	22.1	502.3	906.6	404.3	150.7	294.7	

<sup>a</sup> Supplemental gaseous fuels (SGF) and biofuels are consumed with natural gas and petroleum products. In this table, SGF and biofuels are removed from natural gas and petroleum so that a fossil fuel total can be calculated without double-counting. Biofuels are included in "Renewable Energy."

<sup>b</sup> Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

<sup>c</sup> Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other Petroleum."

<sup>d</sup> Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at <https://www.eia.gov/state/seds/seds-data-complete.php>.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. <http://www.eia.gov/state/seds/>

**Table CT2. Primary Energy Consumption Estimates, Selected Years, 1960-2021, Massachusetts (Continued)**  
(Trillion Btu)

Year	Nuclear Electric Power	Hydro-electric Power <sup>e,f</sup>	Renewable Energy										Net Interstate Flow of Electricity <sup>k</sup>	Electricity Net Imports <sup>l</sup>	Total <sup>f</sup>
			Biomass						Geo-thermal <sup>f</sup>	Solar <sup>f,j</sup>	Wind	Total <sup>f</sup>			
			Wood and Waste <sup>g</sup>	Fuel Ethanol <sup>h</sup>	Biodiesel	Renewable Diesel	Losses and Co-products <sup>i</sup>	Total <sup>f</sup>							
1960	0.4	10.6	42.8	NA	NA	NA	NA	42.8	0.0	NA	NA	53.4	-3.0	0.0	1,054.1
1965	11.4	6.9	48.7	NA	NA	NA	NA	48.7	0.0	NA	NA	55.6	-21.7	0.0	1,245.3
1970	13.3	7.9	57.1	NA	NA	NA	NA	57.1	0.0	NA	NA	65.0	-24.9	0.0	1,464.4
1971	15.6	7.4	53.9	NA	NA	NA	NA	53.9	0.0	NA	NA	61.2	-5.7	0.0	1,493.8
1972	16.2	8.9	50.4	NA	NA	NA	NA	50.4	0.0	NA	NA	59.3	-6.2	0.0	1,546.5
1973	55.8	5.8	50.7	NA	NA	NA	NA	50.7	0.0	NA	NA	56.5	-3.1	0.0	1,581.6
1974	32.2	4.5	52.5	NA	NA	NA	NA	52.5	0.0	NA	NA	57.0	41.3	0.0	1,475.1
1975	41.6	4.3	49.0	NA	NA	NA	NA	49.0	0.0	NA	NA	53.3	21.7	0.0	1,420.3
1976	40.5	5.1	55.4	NA	NA	NA	NA	55.4	0.0	NA	NA	60.5	21.4	0.0	1,499.2
1977	39.6	4.4	58.9	NA	NA	NA	NA	58.9	0.0	NA	NA	63.4	23.0	0.0	1,486.6
1978	60.9	2.2	65.5	NA	NA	NA	NA	65.5	0.0	NA	NA	67.7	6.1	0.0	1,471.6
1979	66.1	4.5	69.8	NA	NA	NA	NA	69.8	0.0	NA	NA	74.3	14.6	0.0	1,308.5
1980	35.3	1.6	70.9	NA	NA	NA	NA	70.9	0.0	NA	NA	72.5	36.2	0.0	1,246.7
1981	47.8	4.5	68.7	(s)	NA	NA	0.0	68.7	0.0	NA	NA	73.2	53.6	0.0	1,215.7
1982	46.2	2.6	64.0	(s)	NA	NA	0.0	64.0	0.0	NA	NA	66.6	52.3	0.0	1,234.9
1983	66.1	2.9	75.7	(s)	NA	NA	0.0	75.7	0.0	NA	0.0	78.6	55.2	0.0	1,232.0
1984	11.2	3.1	61.9	0.0	NA	NA	0.0	61.9	0.0	0.0	0.0	65.0	88.0	0.0	1,292.2
1985	65.1	2.7	62.7	0.0	NA	NA	0.0	62.7	0.0	0.0	0.0	65.5	43.8	14.7	1,313.7
1986	25.6	4.1	65.5	0.0	NA	NA	0.0	65.5	0.0	0.0	0.0	69.6	84.1	12.4	1,383.3
1987	11.9	3.2	57.0	0.0	NA	NA	0.0	57.0	0.0	0.0	0.0	60.3	100.5	16.5	1,404.9
1988	11.8	2.2	59.6	0.0	NA	NA	0.0	59.6	0.0	0.0	0.0	61.8	133.5	9.8	1,427.4
1989	31.9	4.2	62.4	0.0	NA	NA	0.0	62.4	(s)	0.2	0.0	66.8	83.8	7.0	1,459.7
1990	53.6	13.0	52.1	0.0	NA	NA	0.0	52.1	(s)	0.2	0.0	65.3	99.0	6.6	1,418.2
1991	46.3	11.6	54.7	0.0	NA	NA	0.0	54.7	(s)	0.2	0.0	66.6	74.2	7.8	1,376.5
1992	49.7	10.5	57.7	0.0	NA	NA	0.0	57.7	0.1	0.2	0.0	68.4	95.9	5.7	1,443.8
1993	45.6	9.1	60.4	(s)	NA	NA	0.0	60.4	0.1	0.2	0.0	69.7	131.5	6.3	1,445.2
1994	40.3	9.7	63.5	0.0	NA	NA	0.0	63.5	0.1	0.2	0.0	73.5	131.5	5.2	1,451.6
1995	47.1	9.0	63.3	0.0	NA	NA	0.0	63.3	0.1	0.2	0.0	72.5	140.3	6.1	1,437.0
1996	55.9	12.3	65.8	0.0	NA	NA	0.0	65.8	0.1	0.2	0.0	78.4	146.6	5.4	1,463.1
1997	45.2	10.5	61.4	0.0	NA	NA	0.0	61.4	0.2	0.2	0.0	72.3	73.7	6.4	1,456.9
1998	59.8	10.5	55.5	0.0	NA	NA	0.0	55.5	0.2	0.2	0.0	66.4	73.6	6.0	1,428.0
1999	47.2	10.0	54.8	0.0	NA	NA	0.0	54.8	0.2	0.2	0.0	65.2	140.8	6.6	1,450.4
2000	57.5	10.9	58.2	0.0	NA	NA	0.0	58.2	0.2	0.2	0.0	69.5	190.8	6.1	1,535.7
2001	53.7	7.3	40.3	0.0	(s)	NA	0.0	40.3	0.2	0.2	0.0	48.0	198.3	3.9	1,517.0
2002	60.2	8.9	37.4	0.1	(s)	NA	0.0	37.5	0.3	0.2	0.0	46.8	190.6	1.7	1,533.5
2003	51.9	10.9	38.9	0.1	(s)	NA	0.0	39.0	0.4	0.2	0.0	50.4	140.9	0.7	1,499.1
2004	61.9	10.0	40.5	0.7	(s)	NA	0.0	41.2	0.4	0.2	0.0	51.8	157.6	1.6	1,498.1
2005	57.1	10.4	29.7	6.1	0.1	NA	0.0	35.9	0.5	0.2	0.0	47.0	148.8	7.7	1,503.5
2006	60.8	15.0	29.8	16.5	0.2	NA	0.0	46.5	0.5	0.2	0.0	62.2	169.2	2.0	1,432.8
2007	53.7	7.9	29.5	21.2	0.2	NA	0.0	50.9	0.5	0.3	0.0	59.6	155.4	2.5	1,458.2
2008	61.3	11.4	30.4	17.6	0.2	NA	0.0	48.2	0.6	0.3	(s)	60.6	156.7	13.1	1,435.8
2009	56.4	11.7	36.4	19.5	0.2	NA	(s)	56.2	0.7	R 0.4	0.1	69.1	162.4	15.6	R 1,375.2
2010	61.9	9.7	39.3	24.5	0.2	NA	(s)	63.9	0.8	0.7	0.2	75.3	163.3	11.6	R 1,431.0
2011	53.2	11.2	39.3	23.7	0.5	0.0	(s)	63.5	1.0	R 1.0	0.6	R 77.2	182.0	15.1	R 1,408.8
2012	61.4	8.7	37.0	23.0	0.4	0.0	(s)	60.4	0.9	R 2.4	0.9	R 73.2	243.8	3.4	R 1,373.6
2013	45.3	9.5	40.0	23.3	2.2	0.0	(s)	65.5	0.9	R 4.8	2.0	R 82.6	267.8	4.2	R 1,442.1
2014	60.3	8.6	41.5	23.2	1.9	0.0	(s)	66.5	0.9	9.1	2.1	87.3	273.8	4.8	1,452.6
2015	52.2	7.7	39.6	24.0	2.2	0.0	(s)	65.9	0.9	12.5	2.0	89.0	R 263.6	4.5	R 1,468.5
2016	56.6	6.6	38.6	24.1	3.4	0.0	(s)	66.1	0.9	17.5	2.0	R 93.0	R 253.7	3.4	R 1,426.5
2017	52.8	9.6	34.3	23.9	3.7	0.0	(s)	61.8	0.9	21.5	2.1	95.9	R 246.5	0.5	R 1,432.4
2018	46.4	10.3	33.8	23.9	2.0	0.0	(s)	59.7	0.9	28.2	2.0	101.1	R 290.0	3.3	R 1,469.3
2019	22.7	8.7	33.2	23.9	1.6	0.0	(s)	58.6	0.9	29.5	1.9	R 99.5	R 327.6	(s)	1,465.0
2020	0.0	7.4	30.5	19.2	1.6	0.0	(s)	51.4	0.9	33.0	2.1	94.7	R 333.8	0.0	R 1,278.2
2021	0.0	9.9	30.8	21.7	1.4	0.0	(s)	53.9	0.9	36.7	1.8	103.2	333.8	0.0	1,343.7

<sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

<sup>f</sup> There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

<sup>g</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

<sup>h</sup> Excludes denaturant. Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate. Pre-2005 estimates are not comparable to those for later years. See Section 5 of Technical Notes.

<sup>i</sup> Losses and co-products from the production of biodiesel and fuel ethanol.

<sup>j</sup> Solar thermal and photovoltaic energy.

<sup>k</sup> Includes the energy losses associated with the generation, transmission, and distribution of the electricity flowing across state lines. A positive number indicates that more electricity came into the state than went out of the state during the year.

Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

<sup>l</sup> Electricity traded with Canada and Mexico. Calculated by converting net imports in kilowatt-hours by 3,412 Btu per kilowatt-hour.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at <https://www.eia.gov/state/seds/seds-data-complete.php>.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. <http://www.eia.gov/state/seds/>

**Table CT3. Total End-Use Sector Energy Consumption Estimates, Selected Years, 1960-2021, Massachusetts**

Year	Coal Thousand Short Tons	Natural Gas <sup>a</sup> Billion Cubic Feet	Petroleum							Hydro-electric Power <sup>g,h</sup> Million Kilowatt-hours	Biomass		Geo-thermal <sup>h</sup>	Solar <sup>h,k</sup>	Electricity <sup>i</sup> Million Kilowatt-hours	End Use <sup>h,m</sup>	Electrical System Energy Losses <sup>n</sup>	Total <sup>h,m</sup>
			Distillate Fuel Oil <sup>b</sup>	HGL <sup>c</sup>	Jet Fuel <sup>d</sup>	Motor Gasoline <sup>e</sup>	Residual Fuel Oil	Other <sup>f</sup>	Total		Wood and Waste <sup>h,i</sup>	Losses and Co-products <sup>j</sup>						
1960	2,113	67	50,963	1,148	1,209	34,993	29,118	11,024	128,455	117	--	--	--	12,381	--	--	--	
1970	335	142	58,063	1,820	7,864	49,527	43,829	7,015	168,117	72	--	--	--	24,639	--	--	--	
1980	198	178	37,006	2,125	8,563	51,443	8,417	4,052	111,607	63	--	--	--	33,271	--	--	--	
1990	136	203	37,991	2,631	9,806	56,125	8,442	3,354	118,349	11	--	--	--	45,442	--	--	--	
2000	71	255	36,643	2,923	8,204	65,029	3,025	3,850	119,675	12	--	--	--	51,773	--	--	--	
2005	111	226	37,287	2,875	9,025	68,048	4,075	3,018	124,329	(s)	--	--	--	57,228	--	--	--	
2006	93	202	32,487	3,681	8,387	68,400	2,660	3,012	118,626	9	--	--	--	55,850	--	--	--	
2007	109	225	32,380	3,362	8,235	70,647	2,084	2,345	119,053	19	--	--	--	57,139	--	--	--	
2008	84	252	30,681	2,878	11,060	68,020	1,643	1,457	115,739	14	--	--	--	55,884	--	--	--	
2009	50	246	29,219	2,574	6,205	66,453	1,397	3,372	109,220	15	--	--	--	54,359	--	--	--	
2010	66	246	32,298	2,387	8,553	66,604	955	3,464	114,262	10	--	--	--	57,123	--	--	--	
2011	62	263	30,630	2,835	8,617	66,015	779	3,336	112,211	12	--	--	--	55,570	--	--	--	
2012	61	237	25,564	2,388	8,567	65,485	499	3,054	105,557	9	--	--	--	55,313	--	--	--	
2013	59	267	29,748	2,858	8,794	65,312	445	3,352	110,509	9	--	--	--	55,265	--	--	--	
2014	57	287	28,678	3,195	9,270	64,226	246	3,637	109,253	11	--	--	--	54,469	--	--	--	
2015	45	288	29,590	2,952	9,808	66,309	162	3,558	112,379	10	--	--	--	54,621	--	--	--	
2016	4	272	25,004	2,751	11,400	67,054	246	3,607	110,062	4	--	--	--	53,476	--	--	--	
2017	4	286	25,486	2,913	12,271	65,943	373	R 3,537	110,523	10	--	--	--	52,513	--	--	--	
2018	4	305	27,073	3,317	12,643	66,415	144	R 3,339	R 112,931	4	--	--	--	53,285	--	--	--	
2019	3	317	26,784	3,670	R 13,633	65,279	242	R 3,214	R 112,823	6	--	--	--	51,337	--	--	--	
2020	0	284	24,541	3,398	R 5,600	52,176	49	R 3,190	R 88,955	5	--	--	--	50,009	--	--	--	
2021	0	281	26,073	3,351	7,643	58,366	255	3,498	99,187	6	--	--	--	50,798	--	--	--	

**Trillion Btu**

1960	54.3	69.4	296.9	4.4	6.7	183.8	183.1	64.8	739.6	1.3	42.8	NA	NA	NA	42.2	949.7	104.5	1,054.1
1970	8.0	143.3	338.2	6.9	44.5	260.2	275.5	42.4	967.7	0.8	57.1	NA	NA	NA	84.1	1,261.0	203.4	1,464.4
1980	4.8	180.4	215.6	7.8	48.4	270.2	52.9	24.1	619.0	0.7	70.9	NA	NA	NA	113.5	974.0	272.7	1,246.7
1990	3.4	210.1	221.3	9.7	55.5	294.8	53.1	20.4	654.8	0.1	27.7	0.0	(s)	0.2	155.0	1,051.1	367.1	1,418.2
2000	1.9	266.6	213.2	11.0	46.5	338.2	19.0	23.7	651.7	0.1	24.1	0.0	0.2	0.2	176.6	1,121.4	414.3	1,535.7
2005	2.9	228.9	216.9	10.9	51.2	353.3	25.6	18.5	676.4	(s)	8.6	0.0	0.5	0.2	195.3	1,112.9	390.6	1,503.5
2006	2.4	203.7	188.5	13.6	47.6	354.7	16.7	18.7	639.8	0.1	8.8	0.0	0.5	0.2	190.6	1,046.3	386.5	1,432.8
2007	2.8	229.0	187.3	12.5	46.7	363.3	13.1	14.3	637.2	0.2	9.4	0.0	0.5	0.3	195.0	1,074.6	383.6	1,458.2
2008	2.2	255.0	177.3	11.0	62.7	347.3	10.3	8.6	617.3	0.1	8.7	0.0	0.6	0.3	190.7	1,075.1	360.7	1,435.8
2009	1.3	253.2	168.8	9.8	35.2	338.2	8.8	21.4	582.3	0.1	15.5	(s)	0.7	R 0.4	185.5	1,039.0	336.6	1,375.6
2010	1.8	254.7	186.5	9.2	48.5	337.5	6.0	22.1	609.8	0.1	18.3	(s)	0.8	R 0.6	194.9	R 1,081.0	350.2	R 1,431.2
2011	1.6	270.9	176.7	10.9	48.9	334.2	4.9	21.4	597.0	0.1	19.7	(s)	1.0	R 1.0	189.6	R 1,080.9	328.5	R 1,409.4
2012	1.7	244.8	147.4	9.2	48.6	331.5	3.1	19.6	559.4	0.1	17.7	(s)	0.9	R 2.1	188.7	R 1,015.4	358.9	R 1,374.3
2013	1.6	275.5	171.4	11.0	49.9	330.5	2.8	21.2	586.7	0.1	20.7	(s)	0.9	3.7	188.6	1,077.9	364.8	1,442.7
2014	1.5	293.7	165.3	12.3	52.6	324.9	1.5	23.0	579.5	0.1	20.6	(s)	0.9	6.3	185.8	1,088.7	364.0	1,452.6
2015	1.2	296.0	170.5	11.3	55.6	335.3	1.0	22.4	596.2	0.1	19.5	(s)	0.9	8.4	186.4	1,108.8	R 359.6	R 1,468.5
2016	0.1	279.7	143.9	10.6	64.6	339.0	1.5	22.8	582.5	(s)	18.4	(s)	0.9	11.9	182.5	1,076.2	R 350.0	R 1,426.2
2017	0.1	294.6	146.7	11.2	69.6	333.2	2.3	22.4	585.5	0.1	14.3	(s)	0.9	14.3	179.2	1,089.1	R 342.2	R 1,431.3
2018	0.1	314.2	155.9	12.7	71.7	335.7	0.9	21.1	598.0	(s)	13.9	(s)	0.9	19.3	181.8	1,128.4	R 341.4	R 1,469.8
2019	0.1	326.7	154.3	14.1	R 77.3	329.8	1.5	20.3	R 597.3	(s)	15.8	(s)	0.9	19.2	175.2	R 1,135.4	R 330.3	R 1,465.7
2020	0.0	292.8	141.3	13.1	31.8	263.6	0.3	20.3	R 470.2	(s)	13.2	(s)	0.9	20.8	170.6	R 968.6	R 310.4	R 1,279.0
2021	0.0	289.5	150.3	12.9	43.3	294.7	1.6	22.1	524.9	0.1	14.1	(s)	0.9	22.8	173.3	1,025.7	318.3	1,344.1

<sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.  
<sup>b</sup> Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.  
<sup>c</sup> Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.  
<sup>d</sup> Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other Petroleum."  
<sup>e</sup> Beginning in 1993, includes fuel ethanol blended into motor gasoline.  
<sup>f</sup> Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.  
<sup>g</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.  
<sup>h</sup> There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.  
<sup>i</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.  
<sup>j</sup> Losses and co-products from the production of biodiesel and fuel ethanol.  
<sup>k</sup> Solar thermal and photovoltaic energy.

<sup>l</sup> Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.  
<sup>m</sup> Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by the commercial and industrial sectors. Beginning in 2021, adjusted for the double-counting of biofuels product supplied.  
<sup>n</sup> Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.  
 -- = Not applicable. NA = Not available.  
 Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.  
 Notes: Total end-use sector consumption estimates are the sum of the consumption estimates for the residential, commercial, industrial, and transportation sectors. Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.  
 Web Page: All data are available at <https://www.eia.gov/state/seds/seds-data-complete.php>.  
 Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. <http://www.eia.gov/state/seds/>

**Table CT4. Residential Sector Energy Consumption Estimates, Selected Years, 1960-2021, Massachusetts**

Year	Coal <sup>a</sup> Thousand Short Tons	Natural Gas <sup>b</sup> Billion Cubic Feet	Petroleum				Biomass Wood <sup>d</sup>	Geothermal <sup>e</sup>	Solar <sup>e,f</sup>	Electricity <sup>g</sup> Million Kilowatthours	End Use <sup>e,h</sup>	Electrical System Energy Losses <sup>i</sup>	Total <sup>e,h</sup>
			Distillate Fuel Oil	HGL <sup>c</sup>	Kerosene	Total							
1960	487	45	34,305	631	4,858	39,794	--	--	--	4,190	--	--	--
1965	210	65	37,082	777	2,682	40,541	--	--	--	5,766	--	--	--
1970	104	83	38,530	784	1,434	40,748	--	--	--	9,335	--	--	--
1975	30	90	37,860	845	591	39,295	--	--	--	10,648	--	--	--
1980	21	94	22,712	567	323	23,602	--	--	--	11,571	--	--	--
1985	30	98	20,064	858	577	21,499	--	--	--	12,907	--	--	--
1990	13	107	20,540	1,141	163	21,843	--	--	--	15,581	--	--	--
1995	4	106	20,064	1,218	130	21,412	--	--	--	15,993	--	--	--
2000	2	114	20,445	1,582	191	22,217	--	--	--	17,562	--	--	--
2005	3	119	18,425	1,698	299	20,422	--	--	--	20,539	--	--	--
2006	1	104	15,645	1,735	238	17,619	--	--	--	19,624	--	--	--
2007	2	115	15,882	1,794	161	17,837	--	--	--	20,138	--	--	--
2008	0	133	15,793	1,920	63	17,775	--	--	--	19,638	--	--	--
2009	0	133	14,276	1,795	99	16,170	--	--	--	19,475	--	--	--
2010	0	126	14,593	1,685	100	16,378	--	--	--	21,409	--	--	--
2011	0	129	14,210	1,989	62	16,261	--	--	--	20,473	--	--	--
2012	0	115	11,922	1,556	29	13,507	--	--	--	20,313	--	--	--
2013	0	117	12,856	1,864	30	14,750	--	--	--	20,728	--	--	--
2014	0	127	14,584	2,117	52	16,753	--	--	--	20,071	--	--	--
2015	0	127	14,465	1,979	44	16,488	--	--	--	20,175	--	--	--
2016	0	112	11,231	1,966	52	13,249	--	--	--	19,693	--	--	--
2017	0	121	12,279	2,118	36	14,434	--	--	--	19,338	--	--	--
2018	0	130	13,315	2,250	35	15,601	--	--	--	20,285	--	--	--
2019	0	135	13,161	2,694	43	15,898	--	--	--	19,315	--	--	--
2020	0	120	11,817	2,249	49	14,115	--	--	--	20,345	--	--	--
2021	0	123	12,437	2,105	37	14,579	--	--	--	20,305	--	--	--

**Trillion Btu**

1960	12.1	46.6	199.8	2.4	27.5	229.8	8.5	NA	NA	14.3	311.4	35.4	346.7
1965	5.2	65.7	216.0	3.0	15.2	234.2	7.6	NA	NA	19.7	332.3	47.0	379.2
1970	2.5	83.6	224.4	3.0	8.1	235.6	9.2	NA	NA	31.8	362.7	77.1	439.8
1975	0.7	90.6	220.5	3.2	3.3	227.1	9.8	NA	NA	36.3	364.6	87.1	451.7
1980	0.5	96.0	132.3	2.2	1.8	136.3	42.0	NA	NA	39.5	306.1	94.8	401.0
1985	0.7	100.1	116.9	3.3	3.3	123.4	29.4	NA	NA	44.0	296.0	100.9	396.9
1990	0.3	110.6	119.6	4.4	0.9	124.9	18.1	0.0	0.2	53.2	307.1	125.9	433.0
1995	0.1	108.5	116.8	4.7	0.7	122.2	19.5	0.0	0.2	54.6	305.0	127.8	432.8
2000	(s)	119.1	119.0	6.1	1.1	126.1	14.3	(s)	0.2	59.9	319.7	140.5	460.2
2005	0.1	120.4	107.2	6.5	1.7	115.4	3.6	(s)	0.2	70.1	309.7	140.2	449.9
2006	(s)	104.9	90.8	6.7	1.4	98.8	3.2	(s)	0.2	67.0	274.1	135.8	409.9
2007	0.1	117.0	91.9	6.9	0.9	99.7	3.5	(s)	0.2	68.7	289.2	135.2	424.4
2008	0.0	134.5	91.3	7.4	0.4	99.0	3.9	(s)	0.3	67.0	304.8	126.8	431.5
2009	0.0	137.0	82.5	6.9	0.6	89.9	10.2	(s)	0.3	66.4	303.9	120.6	424.5
2010	0.0	129.8	84.3	6.5	0.6	91.3	10.9	0.1	0.3	73.0	305.5	131.3	436.8
2011	0.0	132.9	82.0	7.6	0.3	90.0	10.6	(s)	0.4	69.9	303.8	121.0	424.8
2012	0.0	119.2	68.8	6.0	0.2	74.9	8.9	0.1	0.6	69.3	272.9	131.8	404.7
2013	0.0	120.7	74.1	7.2	0.2	81.4	11.6	0.1	0.8	70.7	285.3	136.8	422.1
2014	0.0	129.9	84.1	8.1	0.3	92.5	11.7	0.1	1.5	68.5	304.1	134.1	438.3
2015	0.0	130.4	83.3	7.6	0.3	91.2	10.5	0.1	2.3	68.8	303.2	132.8	R 436.1
2016	0.0	115.5	64.7	7.6	0.3	72.5	8.4	0.1	4.1	67.2	267.7	R 128.9	396.6
2017	0.0	124.8	70.7	8.1	0.2	79.0	8.3	0.1	5.3	66.0	283.5	R 126.0	409.5
2018	0.0	134.3	76.7	8.6	0.2	85.5	8.3	0.1	6.9	69.2	304.2	R 130.0	R 434.2
2019	0.0	139.3	75.8	10.3	0.2	86.4	10.2	0.1	7.1	65.9	308.9	R 124.3	R 433.2
2020	0.0	123.9	68.0	8.6	0.3	76.9	7.7	0.1	7.7	69.4	285.8	R 126.3	R 412.0
2021	0.0	126.5	71.7	8.1	0.2	80.0	8.4	0.1	8.0	69.3	292.3	127.3	419.5

<sup>a</sup> Beginning in 2008, data are no longer collected and are assumed to be zero.

<sup>b</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

<sup>c</sup> Hydrocarbon gas liquids, assumed to be propane only.

<sup>d</sup> Wood and wood-derived fuels.

<sup>e</sup> There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

<sup>f</sup> Solar thermal and photovoltaic energy. Includes solar thermal energy consumed as heat by the commercial and industrial sectors.

<sup>g</sup> Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

<sup>h</sup> Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total.

<sup>i</sup> Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

-- = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at <https://www.eia.gov/state/seds/seds-data-complete.php>.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. <http://www.eia.gov/state/seds/>

**M A S S A C H U S E T T S**  
**Table CT5. Commercial Sector Energy Consumption Estimates, Selected Years, 1960-2021, Massachusetts**

Year	Coal Thousand Short Tons	Natural Gas <sup>a</sup> Billion Cubic Feet	Petroleum						Hydro-electric Power <sup>e,f</sup> Million Kilowatt-hours	Biomass Wood and Waste <sup>f,g</sup>	Geothermal <sup>f</sup>	Solar <sup>f,h</sup> Million Kilowatt-hours	Electricity <sup>i</sup> Million Kilowatt-hours	End Use <sup>f,j</sup>	Electrical System Energy Losses <sup>k</sup>	Total <sup>f,j</sup>
			Distillate Fuel Oil	HGL <sup>b</sup>	Kerosene	Motor Gasoline <sup>c</sup>	Residual Fuel Oil	Total <sup>d</sup>								
			Thousand Barrels													
1960	338	10	11,965	253	404	135	10,036	22,792	NA	--	--	NA	3,011	--	--	--
1965	159	16	12,933	311	223	92	14,503	28,062	NA	--	--	NA	4,302	--	--	--
1970	82	35	13,438	314	119	102	14,872	28,845	NA	--	--	NA	7,782	--	--	--
1975	71	38	13,204	338	49	109	9,122	22,823	NA	--	--	NA	11,397	--	--	--
1980	79	53	7,510	227	30	191	4,854	12,812	NA	--	--	NA	13,047	--	--	--
1985	107	41	6,369	344	108	188	3,157	10,165	NA	--	--	NA	15,566	--	--	--
1990	50	51	7,409	457	127	69	4,473	12,535	0	--	--	(s)	19,520	--	--	--
1995	23	82	6,478	488	110	65	3,069	10,211	0	--	--	(s)	20,255	--	--	--
2000	14	64	5,205	634	107	279	1,388	7,613	0	--	--	1	23,439	--	--	--
2005	40	57	4,712	766	78	58	2,663	8,277	(s)	--	--	R 2	26,415	--	--	--
2006	15	52	3,265	726	39	73	1,170	5,272	5	--	--	R 3	26,237	--	--	--
2007	21	62	3,253	647	25	80	835	4,840	6	--	--	R 4	27,148	--	--	--
2008	0	72	2,434	750	20	79	953	4,236	6	--	--	R 6	26,582	--	--	--
2009	0	72	3,167	647	17	81	704	4,616	6	--	--	R 10	17,775	--	--	--
2010	0	72	5,438	582	47	48	552	6,666	5	--	--	R 80	18,243	--	--	--
2011	0	81	3,593	645	6	146	340	4,730	6	--	--	R 55	17,767	--	--	--
2012	0	73	2,266	590	1	43	220	3,120	5	--	--	R 153	17,723	--	--	--
2013	0	100	2,336	729	2	47	222	3,337	6	--	--	R 284	17,713	--	--	--
2014	0	106	2,639	802	13	46	134	3,634	5	--	--	469	26,076	--	--	--
2015	0	105	2,692	736	13	1,388	51	4,879	6	--	--	613	26,200	--	--	--
2016	0	105	1,472	561	14	1,400	31	3,477	3	--	--	782	25,934	--	--	--
2017	0	109	1,687	563	10	1,416	24	3,700	4	--	--	905	25,968	--	--	--
2018	0	119	1,597	892	9	1,407	13	3,918	4	--	--	1,280	25,952	--	--	--
2019	0	122	1,708	792	14	1,416	20	3,950	6	--	--	1,273	25,337	--	--	--
2020	0	110	1,274	946	17	1,429	33	3,699	5	--	--	1,390	23,121	--	--	--
2021	0	103	2,356	1,041	10	1,445	19	4,872	6	--	--	1,572	23,832	--	--	--

Trillion Btu																
1960	8.4	10.6	69.7	1.0	2.3	0.7	63.1	136.8	NA	0.2	NA	NA	10.3	166.2	25.4	191.6
1965	3.9	16.5	75.3	1.2	1.3	0.5	91.2	169.5	NA	0.1	NA	NA	14.7	204.7	35.0	239.7
1970	1.9	35.8	78.3	1.2	0.7	0.5	93.5	174.2	NA	0.2	NA	NA	26.6	238.6	64.2	302.9
1975	1.6	38.0	76.9	1.3	0.3	0.6	57.4	136.4	NA	0.2	NA	NA	38.9	215.0	93.3	308.3
1980	1.8	54.3	43.7	0.9	0.2	1.0	30.5	76.3	NA	1.0	NA	NA	44.5	173.5	106.9	280.4
1985	2.5	42.4	37.1	1.3	0.6	1.0	19.8	59.9	NA	0.7	NA	NA	53.1	157.9	121.6	279.5
1990	1.3	52.4	43.2	1.8	0.7	0.4	28.1	74.1	0.0	2.0	(s)	(s)	66.6	196.3	157.7	354.0
1995	0.6	84.4	37.7	1.9	0.6	0.3	19.3	59.8	0.0	2.7	0.1	(s)	69.1	216.6	161.8	378.5
2000	0.4	66.6	30.3	2.4	0.6	1.5	8.7	43.5	0.0	3.1	0.2	(s)	80.0	193.8	187.6	381.4
2005	1.0	57.5	27.4	2.9	0.4	0.3	16.7	47.8	(s)	1.5	0.5	(s)	90.1	198.4	180.3	378.7
2006	0.4	52.8	18.9	2.8	0.2	0.4	7.4	29.7	0.1	1.5	0.5	(s)	89.5	174.5	181.6	R 356.0
2007	0.5	62.5	18.8	2.5	0.1	0.4	5.3	27.1	0.1	1.6	0.5	(s)	92.6	184.9	182.3	367.2
2008	0.0	73.2	14.1	2.9	0.1	0.4	6.0	23.5	0.1	0.6	0.5	0.1	90.7	188.7	171.6	360.3
2009	0.0	73.7	18.3	2.5	0.1	0.4	4.4	25.7	0.1	1.4	0.6	0.1	60.6	162.4	110.1	272.4
2010	0.0	74.5	31.4	2.2	0.3	0.2	3.5	37.6	0.1	1.4	0.7	0.3	R 62.2	R 176.8	111.9	R 288.7
2011	0.0	83.4	20.7	2.5	(s)	0.7	2.1	26.1	0.1	1.4	0.9	R 0.5	60.6	R 173.1	105.0	R 278.1
2012	0.0	75.5	13.1	2.3	(s)	0.2	1.4	16.9	0.1	1.2	0.8	R 1.5	60.5	R 156.5	115.0	R 271.5
2013	0.0	103.0	13.5	2.8	(s)	0.2	1.4	17.9	0.1	1.4	0.8	2.7	60.4	186.5	116.9	303.4
2014	0.0	108.3	15.2	3.1	0.1	0.2	0.8	19.4	0.1	1.5	0.8	4.5	89.0	223.7	174.2	398.0
2015	0.0	108.3	15.5	2.8	0.1	7.0	0.3	25.7	0.1	1.5	0.8	5.7	89.4	231.7	R 172.5	R 404.2
2016	0.0	108.0	8.5	2.2	0.1	7.1	0.2	18.0	(s)	2.5	0.8	7.2	88.5	225.2	R 169.8	R 394.9
2017	0.0	112.7	9.7	2.2	0.1	7.2	0.2	19.2	(s)	2.5	0.8	8.3	88.6	232.5	R 169.2	R 401.7
2018	0.0	122.4	9.2	3.4	0.1	7.1	0.1	19.9	(s)	2.3	0.8	R 11.2	88.5	245.8	R 166.3	R 412.0
2019	0.0	125.3	9.8	3.0	0.1	7.2	0.1	20.2	(s)	2.5	0.8	11.3	86.4	246.9	R 163.0	R 409.9
2020	0.0	112.9	7.3	3.6	0.1	7.2	0.2	18.5	(s)	2.3	0.8	12.2	78.9	225.8	R 143.5	R 369.3
2021	0.0	106.4	13.6	4.0	0.1	7.3	0.1	25.1	0.1	2.5	0.8	13.9	81.3	230.1	149.4	379.5

<sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.  
<sup>b</sup> Hydrocarbon gas liquids, assumed to be propane only.  
<sup>c</sup> Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.  
<sup>d</sup> Includes small amounts of petroleum coke not shown separately.  
<sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.  
<sup>f</sup> There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.  
<sup>g</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.  
<sup>h</sup> Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in the residential sector.  
<sup>i</sup> Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.  
<sup>j</sup> Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the

other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by commercial utility-scale facilities.  
<sup>k</sup> Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.  
 -- = Not applicable. NA = Not available.  
 Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.  
 Notes: Totals may not equal sum of components due to independent rounding. The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.  
 Web Page: All data are available at <https://www.eia.gov/state/seds/seds-data-complete.php>.  
 Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. <http://www.eia.gov/state/seds/>

**Table CT6. Industrial Sector Energy Consumption Estimates, Selected Years, 1960-2021, Massachusetts**

Year	Coal Thousand Short Tons	Natural Gas <sup>a</sup> Billion Cubic Feet	Petroleum						Hydro-electric Power <sup>e,i</sup> Million kWh	Biomass		Geo-thermal <sup>f</sup>	Solar <sup>f,i</sup> Million kWh	Electricity <sup>j</sup> Million kWh	End Use <sup>f,k</sup>	Electrical System Energy Losses <sup>j</sup>	Total <sup>f,k</sup>
			Distillate Fuel Oil	HGL <sup>b</sup>	Motor Gasoline <sup>c</sup>	Residual Fuel Oil	Other <sup>d</sup>	Total		Wood and Waste <sup>f,g</sup>	Losses and Co-products <sup>h</sup>						
1960	1,266	12	2,322	260	133	17,875	4,351	24,942	117	--	--	--	NA	5,075	--	--	--
1965	496	20	2,841	401	206	25,076	4,889	33,412	100	--	--	--	NA	6,546	--	--	--
1970	149	23	2,897	693	111	25,742	4,745	34,188	72	--	--	--	NA	7,418	--	--	--
1975	110	24	2,654	1,099	81	15,891	3,203	22,928	67	--	--	--	NA	7,330	--	--	--
1980	98	29	1,886	1,305	91	2,663	2,962	8,906	63	--	--	--	NA	8,486	--	--	--
1985	176	33	1,165	448	367	8,399	2,595	12,974	63	--	--	--	NA	9,454	--	--	--
1990	73	44	2,585	973	414	2,604	2,493	9,070	11	--	--	--	(s)	10,157	--	--	--
1995	42	64	1,278	387	373	1,458	2,265	5,760	11	--	--	--	(s)	10,026	--	--	--
2000	55	75	944	651	306	1,099	2,953	5,954	12	--	--	--	(s)	10,533	--	--	--
2001	54	81	1,283	859	913	2,153	2,681	7,888	8	--	--	--	(s)	9,757	--	--	--
2002	44	86	978	649	916	1,732	2,786	7,061	6	--	--	--	(s)	10,087	--	--	--
2003	57	44	1,961	191	937	969	2,200	6,257	5	--	--	--	(s)	9,984	--	--	--
2004	54	44	1,947	67	969	720	2,148	5,851	2	--	--	--	(s)	9,947	--	--	--
2005	68	48	1,895	371	909	767	2,116	6,058	(s)	--	--	--	1	9,871	--	--	--
2006	77	43	1,591	1,186	929	1,115	2,288	7,109	3	--	--	--	(s)	9,602	--	--	--
2007	85	46	1,360	892	791	968	1,661	5,672	14	--	--	--	(s)	9,450	--	--	--
2008	84	45	1,573	153	727	387	943	3,783	9	--	--	--	(s)	9,332	--	--	--
2009	50	39	877	107	682	295	2,816	4,788	9	--	--	--	R (s)	16,754	--	--	--
2010	66	44	1,241	111	904	119	2,869	5,243	5	--	--	--	R 1	17,116	--	--	--
2011	62	48	1,265	190	950	229	2,835	5,468	6	--	--	--	R 3	16,974	--	--	--
2012	61	44	674	231	921	114	2,627	4,568	4	--	--	--	R 10	16,927	--	--	--
2013	59	47	622	R 253	956	26	2,882	R 4,739	4	--	--	--	R 20	16,463	--	--	--
2014	57	46	742	R 260	762	18	3,135	R 4,916	6	--	--	--	33	7,961	--	--	--
2015	45	45	961	R 212	752	26	3,026	R 4,977	5	--	--	--	41	7,892	--	--	--
2016	4	46	815	R 192	759	15	3,091	R 4,871	1	--	--	--	64	7,507	--	--	--
2017	4	47	933	R 175	771	19	3,084	R 4,981	6	--	--	--	70	6,859	--	--	--
2018	4	48	822	R 160	787	21	R 2,889	R 4,679	0	--	--	--	84	6,699	--	--	--
2019	3	49	780	R 172	796	11	R 2,772	R 4,531	0	--	--	--	95	6,342	--	--	--
2020	0	46	700	R 178	800	4	R 2,806	R 4,488	0	--	--	--	96	6,220	--	--	--
2021	0	48	854	185	795	18	2,963	4,814	0	--	--	--	100	6,346	--	--	--

  

Trillion Btu																	
1960	33.2	12.0	13.5	1.0	0.7	112.4	27.4	155.0	1.3	34.1	NA	NA	NA	17.3	252.8	42.8	295.6
1965	12.8	20.0	16.5	1.5	1.1	157.6	30.4	207.2	1.0	41.0	NA	NA	NA	22.3	304.4	53.3	357.7
1970	3.6	22.8	16.9	2.5	0.6	161.8	29.5	211.4	0.8	47.8	NA	NA	NA	25.3	311.7	61.2	372.9
1975	2.6	24.1	15.5	3.9	0.4	99.9	19.8	139.5	0.7	39.0	NA	NA	NA	25.0	230.9	60.0	290.9
1980	2.4	29.4	11.0	4.6	0.5	16.7	17.9	50.7	0.7	27.8	NA	NA	NA	29.0	137.5	69.6	207.0
1985	4.4	33.9	6.8	1.5	1.9	52.8	15.5	78.6	0.7	32.6	0.0	NA	NA	32.3	181.8	73.9	255.7
1990	1.8	45.9	15.1	3.4	2.2	16.4	15.4	52.4	0.1	7.6	0.0	(s)	34.7	142.4	82.1	224.4	
1995	1.1	65.2	7.4	1.3	1.9	9.2	14.0	33.9	0.1	9.6	0.0	(s)	34.2	144.0	80.1	224.1	
2000	1.5	78.2	5.5	2.2	1.6	6.9	18.5	34.7	0.1	6.7	0.0	(s)	35.9	157.2	84.3	241.5	
2001	1.5	84.9	7.5	2.9	4.7	13.5	17.0	45.7	0.1	5.0	0.0	(s)	33.3	170.3	74.0	244.4	
2002	1.2	89.0	5.7	2.2	4.8	10.9	17.6	41.2	0.1	3.2	0.0	(s)	34.4	169.0	77.0	246.0	
2003	1.5	45.4	11.4	0.7	4.9	6.1	13.8	36.9	0.1	3.3	0.0	(s)	34.1	121.2	70.2	191.4	
2004	1.5	44.8	11.3	0.2	5.0	4.5	13.6	34.8	(s)	3.5	0.0	0.0	(s)	33.9	118.5	70.1	188.6
2005	1.9	48.5	11.0	1.3	4.7	4.8	13.3	35.2	(s)	3.5	0.0	0.0	(s)	33.7	122.7	67.4	190.1
2006	2.0	43.7	9.2	4.1	4.8	7.0	14.5	39.6	(s)	4.1	0.0	0.0	(s)	32.8	122.3	66.5	188.8
2007	2.2	47.1	7.9	3.0	4.1	6.1	10.3	31.4	0.1	4.3	0.0	0.0	(s)	32.2	117.4	63.4	180.8
2008	2.2	45.3	9.1	0.5	3.7	2.4	5.6	21.3	0.1	4.2	0.0	0.0	(s)	31.8	104.9	60.2	165.2
2009	1.3	40.6	5.1	0.4	3.5	1.9	18.2	29.0	0.1	3.8	0.0	0.0	(s)	57.2	132.0	103.8	235.8
2010	1.8	45.7	7.2	0.4	4.6	0.7	18.6	31.5	(s)	6.0	0.0	0.0	(s)	58.4	143.4	104.9	R 248.3
2011	1.6	49.0	7.3	0.7	4.8	1.4	18.4	32.7	0.1	7.7	0.0	0.0	(s)	57.9	149.0	103.3	249.3
2012	1.7	45.4	3.9	0.9	4.7	0.7	17.1	27.2	(s)	7.7	0.0	0.0	(s)	57.8	139.9	109.8	249.7
2013	1.6	48.2	3.6	1.0	4.8	0.2	18.4	27.9	(s)	7.7	0.0	0.0	(s)	56.2	141.8	108.7	250.5
2014	1.5	46.7	4.3	1.0	3.9	0.1	20.0	29.3	0.1	7.5	0.0	0.0	(s)	27.2	111.5	R 52.0	165.7
2015	1.2	45.9	5.5	0.8	3.8	0.2	19.3	29.6	0.1	7.5	0.0	0.0	(s)	26.9	115.5	R 52.0	163.5
2016	0.1	47.1	4.7	R 0.7	3.8	0.1	19.8	R 29.1	(s)	7.5	0.0	0.0	(s)	25.6	R 110.1	49.1	159.3
2017	0.1	48.4	5.4	0.7	3.9	0.1	19.8	R 29.8	0.1	3.4	0.0	0.0	(s)	23.4	105.9	44.7	150.6
2018	0.1	49.0	4.7	0.6	4.0	0.1	18.5	R 27.9	0.0	3.3	0.0	0.0	(s)	22.9	104.0	42.9	R 146.9
2019	0.1	50.3	4.5	0.7	4.0	0.1	R 17.7	27.0	0.0	3.2	0.0	0.0	(s)	21.6	103.0	R 40.8	143.8
2020	0.0	47.1	4.0	0.7	4.0	(s)	R 18.0	R 26.8	0.0	3.1	0.0	0.0	(s)	21.2	R 99.1	R 38.6	R 137.7
2021	0.0	49.0	4.9	0.7	4.0	0.1	19.1	28.8	0.0	3.1	0.0	0.0	(s)	21.7	103.5	39.8	143.2

<sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.  
<sup>b</sup> Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.  
<sup>c</sup> Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.  
<sup>d</sup> Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.  
<sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.  
<sup>f</sup> There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.  
<sup>g</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.  
<sup>h</sup> Losses and co-products from the production of biodiesel and fuel ethanol.  
<sup>i</sup> Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in the residential sector.  
<sup>j</sup> Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.  
<sup>k</sup> Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and

the other fossil fuels from which they are mostly derived, but should be counted only once in End Use and Total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by industrial utility-scale facilities.  
<sup>l</sup> Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.  
kWh = Kilowatthours. -- = Not applicable. NA = Not available.  
Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.  
Notes: Totals may not equal sum of components due to independent rounding. The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.  
Web Page: All data are available at <https://www.eia.gov/state/seds/seds-data-complete.php>.  
Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. <http://www.eia.gov/state/seds/>

**Table CT7. Transportation Sector Energy Consumption Estimates, Selected Years, 1960-2021, Massachusetts**

Year	Coal Thousand Short Tons	Natural Gas <sup>a</sup> Billion Cubic Feet	Petroleum								Electricity <sup>f</sup> Million Kilowatthours	End Use <sup>g,h</sup>	Electrical System Energy Losses <sup>i</sup>	Total <sup>g,h</sup>
			Aviation Gasoline	Distillate Fuel Oil <sup>b</sup>	HGL <sup>c</sup>	Jet Fuel <sup>d</sup>	Lubricants	Motor Gasoline <sup>e</sup>	Residual Fuel Oil	Total				
			Thousand Barrels											
1960	22	(s)	968	2,371	4	1,209	443	34,725	1,207	40,927	105	--	--	--
1965	2	(s)	1,702	2,632	22	3,166	408	39,454	2,472	49,856	105	--	--	--
1970	(s)	1	276	3,198	29	7,864	441	49,314	3,215	64,336	105	--	--	--
1975	(s)	1	228	4,485	33	7,967	433	54,440	1,049	68,634	105	--	--	--
1980	0	1	274	4,900	26	8,563	463	51,161	900	66,287	167	--	--	--
1985	0	1	134	7,600	70	6,984	422	54,292	874	70,375	193	--	--	--
1990	0	1	97	7,457	59	9,806	475	55,642	1,366	74,901	183	--	--	--
1995	0	2	84	8,780	50	6,636	453	58,337	199	74,540	236	--	--	--
2000	0	3	116	10,050	56	8,204	484	64,443	539	83,891	239	--	--	--
2005	0	3	117	12,255	40	9,025	408	67,081	646	89,572	402	--	--	--
2006	0	2	49	11,986	34	8,387	397	67,399	374	88,626	386	--	--	--
2007	0	2	87	11,885	29	8,235	410	69,776	281	90,704	403	--	--	--
2008	0	2	50	10,882	55	11,060	381	67,214	303	89,944	332	--	--	--
2009	0	2	97	10,898	25	6,205	343	65,680	398	83,646	356	--	--	--
2010	0	5	56	11,026	10	8,553	392	65,653	284	85,975	355	--	--	--
2011	0	5	53	11,562	R 11	8,617	381	64,919	210	85,753	357	--	--	--
2012	0	4	50	10,702	R 11	8,567	346	64,521	164	84,362	350	--	--	--
2013	0	3	43	13,934	R 12	8,794	394	64,309	197	R 87,685	361	--	--	--
2014	0	9	74	10,713	R 16	9,270	362	63,419	94	R 83,948	361	--	--	--
2015	0	11	71	11,472	R 25	9,808	404	64,168	86	R 86,034	353	--	--	--
2016	0	9	69	11,486	R 33	11,400	382	64,895	200	R 88,464	342	--	--	--
2017	0	8	67	10,588	R 57	12,271	340	63,757	330	R 87,409	348	--	--	--
2018	0	8	77	11,339	R 14	12,643	328	64,221	110	R 88,732	349	--	--	--
2019	0	11	77	11,135	R 11	R 13,633	309	63,067	211	R 88,444	343	--	--	--
2020	0	9	63	10,750	R 26	R 5,600	256	49,947	13	R 66,653	323	--	--	--
2021	0	7	71	10,427	21	7,643	264	56,126	218	74,922	315	--	--	--

**Trillion Btu**

1960	0.6	0.3	4.9	13.8	(s)	6.7	2.7	182.4	7.6	218.1	0.4	219.3	0.9	220.2
1965	(s)	0.2	8.6	15.3	0.1	17.8	2.5	207.3	15.5	267.1	0.4	267.7	0.9	268.6
1970	(s)	1.1	1.4	18.6	0.1	44.5	2.7	259.0	20.2	346.5	0.4	348.0	0.9	348.9
1975	(s)	0.5	1.2	26.1	0.1	45.1	2.6	286.0	6.6	367.7	0.4	368.5	0.9	369.4
1980	0.0	0.7	1.4	28.5	0.1	48.4	2.8	268.7	5.7	355.7	0.6	356.9	1.4	358.3
1985	0.0	1.4	0.7	44.3	0.3	39.5	2.6	285.2	5.5	378.0	0.7	380.0	1.5	381.5
1990	0.0	1.3	0.5	43.4	0.2	55.5	2.9	292.3	8.6	403.4	0.6	405.3	1.5	406.8
1995	0.0	2.0	0.4	51.1	0.2	37.6	2.7	303.6	1.3	396.9	0.8	399.7	1.9	401.6
2000	0.0	2.6	0.6	58.5	0.2	46.5	2.9	335.2	3.4	447.3	0.8	450.7	1.9	452.6
2005	0.0	2.6	0.6	71.3	0.2	51.2	2.5	348.3	4.1	478.0	1.4	482.1	2.7	484.8
2006	0.0	2.2	0.2	69.6	0.1	47.6	2.4	349.5	2.4	471.7	1.3	475.4	2.7	478.1
2007	0.0	2.5	0.4	68.7	0.1	46.7	2.5	358.8	1.8	479.0	1.4	483.1	2.7	485.8
2008	0.0	1.9	0.3	62.9	0.2	62.7	2.3	343.2	1.9	473.5	1.1	476.7	2.1	478.9
2009	0.0	1.9	0.5	63.0	0.1	35.2	2.1	334.3	2.5	437.6	1.2	440.8	2.2	443.0
2010	0.0	4.7	0.3	63.7	(s)	48.5	2.4	332.7	1.8	449.3	1.2	455.2	2.2	457.4
2011	0.0	5.6	0.3	66.7	(s)	48.9	2.3	328.7	1.3	448.2	1.2	455.0	2.1	457.1
2012	0.0	4.6	0.3	61.7	(s)	48.6	2.1	326.6	1.0	440.3	1.2	446.1	2.3	448.4
2013	0.0	3.6	0.2	80.3	(s)	49.9	2.4	325.4	1.2	459.5	1.2	464.3	2.4	R 466.7
2014	0.0	8.7	0.4	61.7	R 0.1	52.6	2.2	320.8	0.6	R 438.4	1.2	448.3	2.4	450.7
2015	0.0	11.5	0.4	66.1	0.1	55.6	2.4	324.5	0.5	R 449.7	1.2	462.3	2.3	R 464.7
2016	0.0	9.1	0.3	66.1	0.1	64.6	2.3	328.0	1.3	R 462.9	1.2	473.1	2.2	475.4
2017	0.0	8.6	0.3	61.0	0.2	69.6	2.1	322.2	2.1	R 457.4	1.2	R 467.2	2.3	R 469.5
2018	0.0	8.5	0.4	65.3	R 0.1	71.7	2.0	324.6	0.7	464.7	1.2	474.4	2.2	476.6
2019	0.0	11.7	0.4	64.1	(s)	R 77.3	1.9	318.6	1.3	R 463.7	1.2	R 476.6	2.2	R 478.8
2020	0.0	8.8	0.3	61.9	0.1	31.8	1.5	252.3	0.1	348.0	1.1	357.9	2.0	359.9
2021	0.0	7.7	0.4	60.1	0.1	43.3	1.6	283.4	1.4	391.1	1.1	399.8	2.0	401.8

<sup>a</sup> Transportation use of natural gas to operate pipelines and, since 1990, also includes vehicle fuel.

<sup>b</sup> Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil.

<sup>c</sup> Hydrocarbon gas liquids, assumed to be propane only.

<sup>d</sup> Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other Petroleum."

<sup>e</sup> Beginning in 1993, includes fuel ethanol blended into motor gasoline.

<sup>f</sup> Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Sales to public railroads and railway systems only. Excludes electric vehicles.

<sup>g</sup> There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of fuel ethanol beginning in 1981.

<sup>h</sup> For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.

<sup>i</sup> Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

-- = Not applicable.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at <https://www.eia.gov/state/seds/seds-data-complete.php>.

Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. <http://www.eia.gov/state/seds/>



**Table CT8. Electric Power Sector Consumption Estimates, Selected Years, 1960-2021, Massachusetts**

Year	Coal Thousand Short Tons	Natural Gas <sup>a</sup> Billion Cubic Feet	Petroleum				Nuclear Electric Power	Hydroelectric Power <sup>d</sup>	Biomass Wood and Waste <sup>e,f</sup>	Geothermal <sup>f</sup>	Solar <sup>f,g</sup>	Wind <sup>f</sup>	Electricity Net Imports <sup>h</sup>	Total <sup>f,i</sup>
			Distillate Fuel Oil <sup>b</sup>	Petroleum Coke	Residual Fuel Oil <sup>c</sup>	Total								
			Thousand Barrels											
1960	2,446	11	277	0	9,990	10,267	34	865	---	0	NA	NA	0	---
1965	4,066	13	337	0	12,157	12,494	966	564	---	0	NA	NA	0	---
1970	575	6	1,176	0	42,301	43,477	1,209	682	---	0	NA	NA	0	---
1975	804	1	503	0	39,912	40,415	3,781	350	---	0	NA	NA	0	---
1980	676	5	616	0	45,726	46,342	3,232	96	---	0	NA	NA	0	---
1985	3,863	45	822	0	23,645	24,467	6,133	200	---	0	0	0	4,311	---
1990	4,234	61	614	0	23,505	24,120	5,070	1,238	---	0	0	0	1,921	---
1995	4,080	128	678	0	9,143	9,820	4,486	858	---	0	0	0	1,790	---
2000	4,485	88	376	0	13,627	14,003	5,512	1,053	---	0	0	0	1,779	---
2005	5,025	152	381	0	10,304	10,685	5,475	1,041	---	0	0	0	2,244	---
2006	4,750	169	155	0	3,844	3,999	5,830	1,504	---	0	0	0	580	---
2007	5,120	183	144	0	4,928	5,072	5,120	778	---	0	0	0	734	---
2008	4,581	155	192	0	3,372	3,563	5,869	1,142	---	0	0	4	3,849	---
2009	3,892	150	254	0	1,208	1,462	5,396	1,186	---	0	0	6	4,573	---
2010	3,497	186	138	0	329	468	5,918	986	---	0	1	20	3,388	---
2011	1,763	186	143	0	191	333	5,085	1,137	---	0	4	52	4,426	---
2012	954	180	107	0	145	253	5,860	903	---	0	29	80	993	---
2013	1,718	154	257	0	416	672	4,331	982	---	0	106	190	1,245	---
2014	1,244	135	454	0	1,105	1,559	5,769	891	---	0	301	197	1,419	---
2015	1,005	157	346	0	923	1,269	4,995	817	---	0	448	186	1,330	---
2016	907	156	68	0	508	576	5,414	708	---	0	603	194	1,011	---
2017	559	163	174	0	299	472	5,047	1,028	---	0	781	210	144	---
2018	0	134	288	0	475	763	4,442	1,130	---	0	973	196	980	---
2019	0	113	65	0	110	175	2,177	970	---	0	1,154	185	12	---
2020	0	105	60	0	18	78	0	839	---	0	1,393	214	0	---
2021	0	112	64	0	80	144	0	1,112	---	0	1,576	186	0	---

  

Trillion Btu														
1960	64.5	11.2	1.6	0.0	62.8	64.4	0.4	9.3	0.0	0.0	NA	NA	0.0	149.8
1965	106.0	13.3	2.0	0.0	76.4	78.4	11.4	5.9	0.0	0.0	NA	NA	0.0	215.0
1970	13.4	5.7	6.8	0.0	265.9	272.8	13.3	7.2	0.0	0.0	NA	NA	0.0	312.3
1975	19.6	1.4	2.9	0.0	250.9	253.8	41.6	3.6	0.0	0.0	NA	NA	0.0	320.1
1980	18.1	5.1	3.6	0.0	287.5	291.1	35.3	1.0	0.0	0.0	NA	NA	0.0	350.1
1985	102.6	46.9	4.8	0.0	148.7	153.4	65.1	2.1	0.0	0.0	0.0	0.0	14.7	384.1
1990	110.6	63.8	3.6	0.0	147.8	151.4	53.6	12.9	0.0	0.0	0.0	0.0	6.6	423.1
1995	103.6	131.6	3.9	0.0	57.5	61.4	47.1	8.8	31.4	0.0	0.0	0.0	6.1	390.0
2000	112.7	91.2	2.2	0.0	85.7	87.9	57.5	10.7	34.1	0.0	0.0	0.0	6.1	400.2
2005	116.4	157.4	2.2	0.0	64.8	67.0	57.1	10.4	21.1	0.0	0.0	0.0	7.7	437.1
2006	109.7	174.4	0.9	0.0	24.2	25.1	60.8	14.9	21.0	0.0	0.0	0.0	2.0	407.9
2007	117.4	189.9	0.8	0.0	31.0	31.8	53.7	7.7	20.1	0.0	0.0	0.0	2.5	423.1
2008	104.7	160.3	1.1	0.0	21.2	22.3	61.3	11.3	21.7	0.0	0.0	(s)	13.1	394.7
2009	90.7	155.3	1.5	0.0	7.6	9.1	56.4	11.6	20.9	0.0	0.0	0.1	15.6	359.7
2010	82.1	192.7	0.8	0.0	2.1	2.9	61.9	9.6	20.9	0.0	(s)	0.2	11.6	381.8
2011	41.3	193.2	0.8	0.0	1.2	2.0	53.2	11.0	19.6	0.0	(s)	0.5	15.1	336.0
2012	22.4	186.1	0.6	0.0	0.9	1.5	61.4	8.6	19.3	0.0	0.3	0.8	3.4	303.8
2013	40.6	159.8	1.5	0.0	2.6	4.1	45.3	9.4	19.4	0.0	1.0	1.8	4.2	285.6
2014	28.3	139.0	2.6	0.0	6.9	9.6	60.3	8.5	20.8	0.0	2.9	1.9	4.8	276.0
2015	23.0	161.3	2.0	0.0	5.8	7.8	52.2	7.6	20.1	0.0	4.2	1.7	4.5	282.4
2016	20.0	161.1	0.4	0.0	3.2	3.6	56.6	6.5	20.2	0.0	5.6	1.8	3.4	278.8
2017	12.3	167.9	1.0	0.0	1.9	2.9	52.8	9.5	20.0	0.0	7.2	1.9	0.5	274.9
2018	0.0	138.0	1.7	0.0	3.0	4.6	46.4	10.3	19.9	0.0	8.9	1.8	3.3	R 233.2
2019	0.0	116.1	0.4	0.0	0.7	1.1	22.7	8.6	17.3	0.0	10.3	1.6	(s)	177.9
2020	0.0	107.9	0.3	0.0	0.1	0.5	0.0	7.4	17.3	0.0	12.2	1.9	0.0	147.2
2021	0.0	114.8	0.4	0.0	0.5	0.9	0.0	9.8	16.7	0.0	13.9	1.6	0.0	157.8

<sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.  
<sup>b</sup> Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil Nos. 1 and 2, and small amounts of kerosene and jet fuel.  
<sup>c</sup> Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil Nos. 4, 5, and 6.  
<sup>d</sup> Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.  
<sup>e</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.  
<sup>f</sup> There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.  
<sup>g</sup> Solar thermal and photovoltaic energy.  
<sup>h</sup> Electricity traded with Canada and Mexico. Btu value calculated by converting net imports in kilowatthours by 3,412 Btu per kilowatthour.  
<sup>i</sup> Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other

fossil fuels from which they are mostly derived, but should be counted only once in the total.  
 -- = Not applicable. NA = Not available.  
 Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.  
 Notes: Totals may not equal sum of components due to independent rounding. The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.  
 Web Page: All data are available at <https://www.eia.gov/state/seds/seds-data-complete.php>.  
 Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. <http://www.eia.gov/state/seds/>