

MASSACHUSETTS
Table CT2. Primary energy consumption estimates, selected years, 1960-2022, Massachusetts
(trillion Btu)

Year	Fossil fuels										Fossil fuels (as commingled)			
	Coal	Natural gas excluding supplemental gaseous fuels ^a	Petroleum							Total	Total	Natural gas including supplemental gaseous fuels ^a	Distillate fuel oil including biofuels ^a	Motor gasoline including fuel ethanol ^a
			Distillate fuel oil excluding biofuels ^a	HGL ^b	Jet fuel ^c	Motor gasoline excluding fuel ethanol ^a	Residual fuel oil	Other ^d	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	354.6	
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	169.6	9.8	35.2	318.7	16.4	21.4	571.1	1,071.7	408.5	170.3	338.2	
2010	83.8	447.4	186.9	9.2	48.5	313.0	8.1	22.1	587.7	1,119.0	447.4	187.3	337.5	
2011	43.0	464.0	176.4	10.9	48.9	310.6	6.1	21.4	574.2	1,081.2	464.0	177.6	334.2	
2012	24.0	430.9	146.9	9.2	48.6	308.5	4.0	19.6	536.8	991.8	430.9	148.0	331.5	
2013	42.2	435.3	170.1	11.0	49.9	307.1	5.4	21.2	564.7	1,042.2	435.3	172.9	330.5	
2014	29.9	432.5	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	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	141.3	10.6	64.6	314.8	4.7	22.8	558.9	R 1,019.8	440.8	144.3	339.0	
2017	12.4	462.4	145.2	11.2	69.6	309.3	4.2	R 23.0	R 562.5	R 1,037.3	462.5	147.7	333.2	
2018	0.1	452.1	155.1	12.7	71.7	311.8	3.9	R 21.6	R 576.8	R 1,029.0	452.2	156.6	335.7	
2019	0.1	442.8	152.3	14.1	77.3	305.9	2.2	R 20.8	R 572.7	R 1,015.6	442.8	154.6	329.8	
2020	0.0	400.7	139.2	13.1	31.8	244.4	0.4	R 20.8	R 449.6	R 850.3	400.7	141.6	263.6	
2021	0.0	404.3	149.7	12.9	43.3	273.1	2.1	R 22.6	R 502.8	R 907.1	404.3	150.7	294.7	
2022	0.0	432.4	152.4	12.5	61.5	273.3	4.6	23.1	526.8	959.2	432.5	153.4	295.1	

^a 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."

^b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

^c 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." There is a discontinuity in this time series between 2009 and 2010 because of data source and methodology changes, see technical notes.

^d 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, 1960-2022, Massachusetts (continued)
(trillion Btu)

Year	Nuclear electric power	Renewable energy											Net interstate flow of electricity ^k	Electricity net imports ^l	Total ^f
		Hydro-electric power ^{e,f}	Biomass						Geo-thermal ^f	Solar ^{fj}	Wind	Total ^f			
			Wood and waste ^{fg}	Fuel ethanol ^h	Biodiesel	Renewable diesel	Losses and co-products ⁱ	Total ^f							
1960	0.4	R 3.4	42.8	NA	NA	NA	NA	42.8	0.0	NA	NA	R 46.1	R -16.0	0.0	R 1,034.0
1965	11.4	R 2.3	48.7	NA	NA	NA	NA	48.7	0.0	NA	NA	R 51.0	R -41.7	0.0	R 1,220.6
1970	13.3	R 2.6	57.1	NA	NA	NA	NA	57.1	0.0	NA	NA	R 59.7	R -51.2	0.0	R 1,432.7
1971	15.6	R 2.4	53.9	NA	NA	NA	NA	53.9	0.0	NA	NA	R 56.3	R -35.1	0.0	R 1,459.4
1972	16.2	R 2.9	50.4	NA	NA	NA	NA	50.4	0.0	NA	NA	R 53.3	R -34.8	0.0	R 1,511.9
1973	55.8	R 1.9	50.7	NA	NA	NA	NA	50.7	0.0	NA	NA	R 52.6	R -33.9	0.0	R 1,546.8
1974	32.2	R 1.5	52.5	NA	NA	NA	NA	52.5	0.0	NA	NA	R 54.0	R 6.8	0.0	R 1,437.5
1975	41.6	R 1.4	49.0	NA	NA	NA	NA	49.0	0.0	NA	NA	R 50.4	R -11.7	0.0	R 1,383.9
1976	40.5	R 1.7	55.4	NA	NA	NA	NA	55.4	0.0	NA	NA	R 57.1	R -9.4	0.0	R 1,465.0
1977	39.6	R 1.4	58.9	NA	NA	NA	NA	58.9	0.0	NA	NA	R 60.4	R 0.1	0.0	R 1,460.8
1978	60.9	R 0.7	65.5	NA	NA	NA	NA	65.5	0.0	NA	NA	R 66.2	R -24.3	0.0	R 1,439.7
1979	66.1	R 1.5	69.8	NA	NA	NA	NA	69.8	0.0	NA	NA	R 71.3	R -14.2	0.0	R 1,276.6
1980	35.3	R 0.5	70.9	NA	NA	NA	NA	70.9	0.0	NA	NA	R 71.4	R 5.6	0.0	R 1,215.0
1981	47.8	R 1.5	68.7	(s)	NA	NA	NA	68.7	0.0	NA	NA	R 70.2	R 26.2	0.0	R 1,185.4
1982	46.2	R 0.9	64.0	(s)	NA	NA	NA	64.0	0.0	NA	NA	R 64.9	R 17.1	0.0	R 1,197.8
1983	66.1	R 0.9	75.7	(s)	NA	NA	NA	75.7	0.0	NA	NA	R 76.6	R 16.4	0.0	R 1,191.2
1984	11.2	R 1.0	61.9	0.0	NA	NA	NA	61.9	0.0	0.0	0.0	R 62.9	R 51.9	0.0	R 1,254.1
1985	65.1	R 0.9	62.7	0.0	NA	NA	NA	62.7	0.0	0.0	0.0	R 63.6	R 11.6	14.7	R 1,279.6
1986	25.6	R 1.3	65.5	0.0	NA	NA	NA	65.5	0.0	0.0	0.0	R 66.9	R 50.5	12.4	R 1,346.9
1987	11.9	R 1.1	57.0	0.0	NA	NA	NA	57.0	0.0	0.0	0.0	R 58.1	R 70.7	16.5	R 1,373.0
1988	11.8	R 0.7	59.6	0.0	NA	NA	NA	59.6	0.0	0.0	0.0	R 60.4	R 106.6	9.8	R 1,398.9
1989	31.9	R 1.4	62.4	0.0	NA	NA	NA	62.4	(s)	0.2	0.0	R 64.0	R 51.9	7.0	R 1,424.9
1990	53.6	R 4.3	52.1	0.0	NA	NA	NA	52.1	(s)	0.2	0.0	R 56.5	R 95.1	6.6	R 1,405.5
1991	46.3	R 3.8	54.7	0.0	NA	NA	NA	54.7	(s)	0.2	0.0	R 58.7	R 71.0	7.8	R 1,365.5
1992	49.7	R 3.4	57.7	0.0	NA	NA	NA	57.7	0.1	0.2	0.0	R 61.4	R 92.7	5.7	R 1,433.6
1993	45.6	R 3.0	60.4	(s)	NA	NA	NA	60.4	0.1	0.2	0.0	R 63.7	R 127.4	6.3	R 1,435.0
1994	40.3	R 3.2	63.5	0.0	NA	NA	NA	63.5	0.1	0.2	0.0	R 67.0	R 127.2	5.2	R 1,440.8
1995	47.1	R 3.0	63.3	0.0	NA	NA	NA	63.3	0.1	0.2	0.0	R 66.5	R 135.0	6.1	R 1,425.7
1996	55.9	R 4.1	65.8	0.0	NA	NA	NA	65.8	0.1	0.2	0.0	R 70.2	R 135.1	5.4	R 1,443.4
1997	45.2	R 3.5	61.4	0.0	NA	NA	NA	61.4	0.2	0.2	0.0	R 65.3	R 67.5	6.4	R 1,443.7
1998	59.8	R 3.5	55.5	0.0	NA	NA	NA	55.5	0.2	0.2	0.0	R 59.4	R 70.9	6.0	R 1,418.4
1999	47.2	R 3.3	54.8	0.0	NA	NA	NA	54.8	0.2	0.2	0.0	R 58.5	R 133.2	6.6	R 1,436.2
2000	57.5	R 3.6	58.2	0.0	NA	NA	NA	58.2	0.2	0.2	0.0	R 62.2	R 186.0	6.1	R 1,523.7
2001	53.7	R 2.4	40.3	0.0	(s)	NA	NA	40.3	0.2	0.2	0.0	R 43.1	R 193.6	3.9	R 1,507.3
2002	60.2	R 3.0	37.4	0.1	(s)	NA	NA	37.5	0.3	0.2	0.0	R 40.9	R 181.6	1.7	R 1,518.6
2003	51.9	R 3.7	38.9	0.1	(s)	NA	NA	39.0	0.4	R 0.1	0.0	R 43.2	R 135.1	0.7	R 1,486.1
2004	61.9	R 3.4	40.5	0.7	(s)	NA	NA	41.2	0.4	0.2	0.0	R 45.2	R 151.6	1.6	R 1,485.4
2005	57.1	R 3.6	29.7	6.1	0.1	NA	NA	35.9	0.5	0.2	0.0	R 40.1	R 143.5	7.7	R 1,491.3
2006	60.8	R 5.2	29.8	16.5	0.2	NA	NA	46.5	0.5	0.2	0.0	R 52.3	R 163.2	2.0	R 1,416.9
2007	53.7	R 2.7	29.5	21.2	0.2	NA	NA	50.9	0.5	R 0.2	0.0	R 54.4	R 149.2	2.5	R 1,446.7
2008	61.3	R 3.9	30.4	17.6	0.2	NA	NA	48.2	0.6	0.3	(s)	R 53.0	R 149.5	13.1	R 1,421.1
2009	56.4	R 4.1	36.4	19.5	0.2	NA	(s)	56.2	0.7	R 0.3	R (s)	R 61.3	R 155.0	15.6	R 1,360.0
2010	61.9	R 3.4	39.3	24.5	0.2	NA	(s)	63.9	0.8	R 0.4	R 0.1	R 68.6	R 155.7	11.6	R 1,416.7
2011	53.2	R 3.9	39.3	23.7	0.5	0.0	(s)	63.5	1.0	R 0.5	R 0.2	R 69.1	R 169.3	15.1	R 1,387.9
2012	61.4	R 3.1	37.0	23.0	0.4	0.0	(s)	60.4	0.9	R 1.0	R 0.3	R 65.7	R 226.3	3.4	R 1,348.5
2013	45.3	R 3.4	40.0	23.3	2.2	0.0	(s)	65.5	0.9	R 1.9	R 0.7	R 72.4	R 249.3	4.2	R 1,413.4
2014	60.3	R 3.1	41.5	23.2	1.9	0.0	(s)	66.5	0.9	R 3.5	R 0.8	R 74.7	R 253.5	4.8	R 1,419.8
2015	52.2	R 2.8	39.6	24.0	2.2	0.0	(s)	65.9	0.9	R 4.8	R 0.7	R 75.1	R 244.9	4.5	R 1,435.9
2016	56.6	R 2.4	38.6	24.1	3.4	0.0	(s)	66.1	0.9	R 6.7	R 0.7	R 76.8	R 231.5	3.4	R 1,388.1
2017	52.8	R 3.5	34.3	23.9	3.7	0.0	(s)	61.8	0.9	R 8.2	R 0.8	R 75.1	R 222.4	0.5	R 1,388.1
2018	46.4	R 3.9	33.8	23.9	2.0	0.0	(s)	59.7	0.9	R 10.8	R 0.8	R 76.0	R 260.4	3.3	R 1,415.1
2019	22.7	R 3.3	33.2	23.9	1.6	0.0	(s)	58.6	0.9	R 11.5	R 0.7	R 75.0	R 299.9	(s)	R 1,413.3
2020	0.0	R 2.9	R 28.8	19.2	1.6	0.0	(s)	R 49.7	0.9	R 13.0	R 0.8	R 67.3	R 295.8	0.0	R 1,213.4
2021	0.0	R 3.8	R 29.0	21.7	1.4	0.0	(s)	R 52.0	0.9	R 14.4	R 0.7	R 71.8	R 298.2	0.0	R 1,277.1
2022	0.0	3.0	29.0	21.8	1.1	0.0	(s)	51.9	0.9	18.6	0.7	75.1	280.9	0.0	1,315.2

^e Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

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

^g Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

^h 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.

ⁱ Losses and co-products from the production of biodiesel and fuel ethanol.

^j Solar thermal and photovoltaic energy.

^k 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.

^l 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/>