

**Table 1. 2006 Summary Statistics**

Item	Value	U.S. Rank
<b>Massachusetts</b>		
NERC Region(s).....		NPCC
Primary Energy Source.....		Gas
Net Summer Capacity (megawatts) .....	<b>13,932</b>	<b>27</b>
Electric Utilities.....	837	43
Independent Power Producers & Combined Heat and Power.....	13,095	8
Net Generation (megawatthours).....	<b>45,597,775</b>	<b>31</b>
Electric Utilities.....	942,917	44
Independent Power Producers & Combined Heat and Power.....	44,654,858	10
Emissions (thousand metric tons) .....		
Sulfur Dioxide .....	49	32
Nitrogen Oxide.....	22	39
Carbon Dioxide.....	23,708	34
Sulfur Dioxide (lbs/MWh) .....	2.4	35
Nitrogen Oxide (lbs/MWh) .....	1.1	42
Carbon Dioxide (lbs/MWh).....	1,146	36
Total Retail Sales (megawatthours).....	<b>55,850,090</b>	<b>25</b>
Full Service Provider Sales (megawatthours) .....	34,794,615	32
Deregulated Sales (megawatthours) .....	21,055,475	5
Direct Use (megawatthours) .....	<b>911,950</b>	<b>30</b>
Average Retail Price (cents/kWh).....	<b>15.45</b>	<b>2</b>

See footnotes at end of tables.

**Table 2. Ten Largest Plants by Generating Capacity, 2006**

Plant	Primary Energy Source or Technology	Operating Company	Net Summer Capacity (MW)
<b>Massachusetts</b>			
1. Mystic Generating Station.....	Gas	Boston Generating LLC	1,948
2. Brayton Point.....	Coal	Dominion Energy New England, LLC	1,545
3. Canal.....	Petroleum	Mirant Canal LLC	1,112
4. Northfield Mountain.....	Pumped Storage	NE Energy Services LLC	1,080
5. Salem Harbor.....	Coal	Dominion Energy New England, LLC	743
6. Pilgrim Nuclear Power Station.....	Nuclear	Energy Nuclear Generation Co	685
7. Fore River Generating Station.....	Gas	Boston Generating LLC	668
8. Bear Swamp.....	Pumped Storage	Brookfield Power New England	563
9. ANP Bellingham Energy Project.....	Gas	IPA Bellingham Energy Company	493
10. ANP Blackstone Energy Project .....	Gas	ANP Blackstone Energy Co	441

See footnotes at end of tables.

**Table 3. Top Five Retailers of Electricity, with End Use Sectors, 2006**  
(Megawatthours)

Entity	Type of Provider	All Sectors	Residential	Commercial	Industrial	Transportation
1. Massachusetts Electric Co.....	Investor-Owned	12,990,328	8,187,699	4,173,837	628,792	-
2. Boston Edison Co.....	Investor-Owned	8,757,827	4,206,116	4,250,607	301,104	-
3. Constellation NewEnergy, Inc.....	Other Provider	8,468,121	-	7,918,300	535,240	14,581
4. TransCanada Power Mktg Ltd.....	Other Provider	2,751,064	-	-	2,751,064	-
5. Western Massachusetts Elec Co.....	Investor-Owned	2,276,376	1,427,817	671,775	176,784	-
Total Sales, Top Five Providers.....		35,243,716	13,821,632	17,014,519	4,392,984	14,581
Percent of Total State Sales.....		63	70	65	46	4

See footnotes at end of tables.

**Table 4. Electric Power Net Summer Capacity by Primary Energy Source and Industry Sector, 1990, 1995, and 2001 Through 2006**  
(Megawatts)

Energy Source	1990	1995	2001	2002	2003	2004	2005	2006	Percentage Share	
									1990	2006
<b>Massachusetts</b>										
<b>Electric Utilities.....</b>	<b>9,910</b>	<b>9,288</b>	<b>993</b>	<b>1,090</b>	<b>981</b>	<b>981</b>	<b>983<sup>R</sup></b>	<b>837</b>	<b>92.5</b>	<b>6.0</b>
Coal.....	1,723	1,707	145	145	145	145	144	-	16.1	-
Petroleum.....	5,216 <sup>R</sup>	4,058 <sup>R</sup>	474	771	663	661	661	659	48.7	4.7
Natural Gas.....	289 <sup>R</sup>	993 <sup>R</sup>	329	130	130	131	131	131	2.7	0.9
Nuclear.....	831	669	-	-	-	-	-	-	7.8	-
Hydroelectric.....	204	207	45	44	44	44	47 <sup>R</sup>	47	1.9	0.3
Other Renewables.....	-	*	-	-	-	-	-	-	-	-
Pumped Storage.....	1,647	1,653	-	-	-	-	-	-	15.4	-
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>807</b>	<b>1,709</b>	<b>10,849</b>	<b>11,069</b>	<b>12,896</b>	<b>13,021</b>	<b>12,986<sup>R</sup></b>	<b>13,095</b>	<b>7.5</b>	<b>94.0</b>
Coal.....	18	31	1,500	1,544	1,514	1,578	1,599	1,743	0.2	12.5
Petroleum.....	116	164	3,084	3,464	3,117	2,581	2,580	2,559	1.1	18.4
Natural Gas.....	359	1,144	3,432	3,230	5,414	6,026	5,971	5,958	3.3	42.8
Nuclear.....	-	-	667	667	685	685	685	685	-	4.9
Hydroelectric.....	57	57	201	209	217	216	213 <sup>R</sup>	212	0.5	1.5
Other Renewables.....	256	312	315	305	305	293	296	296	2.4	2.1
Pumped Storage.....	-	-	1,650	1,650	1,643	1,643	1,643	1,643	-	11.8
<b>Total Electric Industry.....</b>	<b>10,716</b>	<b>10,997</b>	<b>11,842</b>	<b>12,159</b>	<b>13,877</b>	<b>14,002</b>	<b>13,969</b>	<b>13,932</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	1,741	1,738	1,645	1,689	1,659	1,723	1,743	1,743	16.2	12.5
Petroleum.....	5,333 <sup>R</sup>	4,223 <sup>R</sup>	3,558	4,235	3,780	3,242	3,241	3,219	49.8	23.1
Natural Gas.....	647 <sup>R</sup>	2,137 <sup>R</sup>	3,761	3,360	5,544	6,157	6,102	6,089	6.0	43.7
Nuclear.....	831	669	667	667	685	685	685	685	7.8	4.9
Hydroelectric.....	261	265	246	253	261	260	260	259	2.4	1.9
Other Renewables.....	256	312	315	305	305	293	296	296	2.4	2.1
Pumped Storage.....	1,647	1,653	1,650	1,650	1,643	1,643	1,643	1,643	15.4	11.8

See footnotes at end of tables.

**Table 5. Electric Power Net Generation by Primary Energy Source and Industry Sector, 1990, 1995, and 2001 Through 2006**  
(Megawatthours)

Energy Source	1990	1995	2001	2002	2003	2004	2005	2006	Percentage Share	
									1990	2006
<b>Massachusetts</b>										
<b>Electric Utilities.....</b>	<b>36,478,610</b>	<b>26,971,667</b>	<b>1,566,491</b>	<b>1,156,651</b>	<b>2,055,622</b>	<b>1,524,169</b>	<b>1,622,208</b>	<b>942,917</b>	<b>91.6</b>	<b>2.1</b>
Coal.....	11,273,069	10,586,608	1,096,681	-	1,074,514	903,789	1,025,141	-	28.3	-
Petroleum.....	14,556,403	5,848,663	131,797	220,435	517,767	290,865	189,211	29,031	36.6	0.1
Natural Gas.....	5,279,993	6,206,477	218,432	728,570	234,942	98,542	118,034	326,418	13.3	0.7
Nuclear.....	5,069,620	4,485,845	-	-	-	-	-	-	12.7	-
Hydroelectric.....	969,108	650,277	119,581	207,646	228,399	230,973	289,822	587,468	2.4	1.3
Pumped Storage.....	-669,583	-806,203	-	-	-	-	-	-	-1.7	-
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>3,332,401</b>	<b>10,682,814</b>	<b>36,911,943</b>	<b>40,859,037</b>	<b>46,329,402</b>	<b>45,976,313</b>	<b>45,893,235</b>	<b>44,654,858</b>	<b>8.4</b>	<b>97.9</b>
Coal.....	92,824	111,655	9,954,652	11,502,861	9,821,976	9,622,699	11,008,406 <sup>R</sup>	11,138,344	0.2	24.4
Petroleum.....	545,389	302,832	8,379,775	6,579,859	6,941,271	7,210,494	6,930,158	2,332,581	1.4	5.1
Natural Gas.....	852,709	8,028,533	11,478,572	15,140,404	22,188,989	20,911,003	20,158,532	22,946,889	2.1	50.3
Other Gases.....	830	-	-	-	-	-	-	-	*	-
Nuclear.....	-	-	5,144,033	5,768,766	4,977,955	5,938,600	5,475,057	5,829,658	-	12.8
Hydroelectric.....	280,134	218,372	582,924	655,301	846,783	767,308	752,128	925,177	0.7	2.0
Other Renewables.....	1,560,515	2,021,422	1,312,787	1,272,142	1,253,123	1,223,749	1,258,290 <sup>R</sup>	1,278,829	3.9	2.8
Pumped Storage.....	-	-	-711,349	-842,801	-510,929	-498,326	-461,643	-578,898	-	-1.3
Other.....	-	-	770,549	782,504	810,234	800,786	772,307	782,278	-	1.7
<b>Total Electric Industry.....</b>	<b>39,811,011</b>	<b>37,654,481</b>	<b>38,478,434</b>	<b>42,015,688</b>	<b>48,385,024</b>	<b>47,500,482</b>	<b>47,515,443</b>	<b>45,597,775</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	11,365,893	10,698,263	11,051,333	11,502,861	10,896,490	10,526,488	12,033,547 <sup>R</sup>	11,138,344	28.5	24.4
Petroleum.....	15,101,792	6,151,495	8,511,572	6,800,294	7,459,038	7,501,359	7,119,369	2,361,612	37.9	5.2
Natural Gas.....	6,132,702	14,235,010	11,697,004	15,868,974	22,423,931	21,009,545	20,276,566	23,273,307	15.4	51.0
Other Gases.....	830	-	-	-	-	-	-	-	*	-
Nuclear.....	5,069,620	4,485,845	5,144,033	5,768,766	4,977,955	5,938,600	5,475,057	5,829,658	12.7	12.8
Hydroelectric.....	1,249,242	868,649	702,505	862,947	1,075,182	998,281	1,041,950	1,512,645	3.1	3.3
Other Renewables.....	1,560,515	2,021,422	1,312,787	1,272,142	1,253,123	1,223,749	1,258,290 <sup>R</sup>	1,278,829	3.9	2.8
Pumped Storage.....	-669,583	-806,203	-711,349	-842,801	-510,929	-498,326	-461,643	-578,898	-1.7	-1.3
Other.....	-	-	770,549	782,504	810,234	800,786	772,307	782,278	-	1.7

See footnotes at end of tables.

**Table 6. Electric Power Delivered Fuel Prices and Quality for Coal, Petroleum, and Natural Gas, 1990, 1995, and 2001 Through 2006**

Fuel, Quality	1990	1995	2001	2002	2003	2004	2005	2006
<b>Massachusetts</b>								
Coal (cents per million Btu)	173	168	-	W	W	197	W	278
Average heat value (Btu per pound)	13,062	12,698	-	12,482	12,200	11,793	11,728	11,546
Average sulfur Content (percent)	1.23	0.71	-	0.66	1.14	0.55	0.50	0.49
Petroleum (cents per million Btu)	286	259	494	355	463	450	709	796
Average heat value (Btu per gallon)	150,310	151,624	150,000	151,755	149,850	148,871	147,900	149,288
Average sulfur Content (percent)	1.66	0.98	0.29	0.89	0.80	0.83	0.81	0.74
Natural Gas (cents per million Btu)	240	201	347	351	534	639	931	731
Average heat value (Btu per cubic foot)	1,052	1,026	1,030	1,024	1,032	1,035	1,033	1,033

See footnotes at end of tables.

**Table 7. Electric Power Industry Emissions Estimates, 1990, 1995, and 2001 Through 2006**  
(Thousand Metric Tons)

Emission Type	1990	1995	2001	2002	2003	2004	2005	2006
<b>Massachusetts</b>								
<b>Sulfur Dioxide .....</b>								
Coal.....	91	51	55	53	48	41	43	36
Petroleum.....	120	32	40	31	34	35	33	13
Natural Gas.....	*	*	*	*	*	*	*	*
Other.....	1	1	*	*	*	*	*	*
Total.....	212	83	96	85	82	76	76	49
<b>Nitrogen Oxide .....</b>								
Coal.....	44	28	17	17	15	14	14	9
Petroleum.....	22	7	10	8	10	9	7	3
Natural Gas.....	8	15	6	7	5	4	4	4
Other.....	3	3	7	6	7	7	7	6
Total.....	76	54	40	39	37	33	31	22
<b>Carbon Dioxide .....</b>								
Coal.....	10,356	9,644	10,014	10,709	9,964	9,605	10,900	10,305
Petroleum.....	12,539	5,339	7,342	5,702	6,396	6,157	5,794	2,272
Natural Gas.....	3,638	7,477	5,919	7,459	9,585	9,005	8,844	9,851
Other Renewables.....	1,008	1,215	1,281	1,214	1,256	1,286	1,283	1,280
Total.....	27,542	23,675	24,557	25,084	27,200	26,053	26,822	23,708

See footnotes at end of tables.

**Table 8. Retail Sales, Revenue, and Average Retail Prices by Sector, 1990, 1995, and 2001 Through 2006**

Sector	1990	1995	2001	2002	2003	2004	2005	2006	Percentage Share	
									1990	2006
<b>Massachusetts</b>										
<b>Retail Sales (thousand megawatthours) .....</b>										
Residential.....	15,581	15,993	17,984	18,695	19,591	19,769	20,539	19,624	34.3	35.1
Commercial.....	18,565	19,894	24,127	24,250	25,648	26,020	26,415	26,237	40.9	47.0
Industrial.....	10,157	10,026	9,757	10,087	9,984	9,947	9,871	9,602	22.4	17.2
Other.....	1,138	598	629	676	NA	NA	NA	NA	2.5	NA
Transportation.....	NA	NA	NA	NA	292	406	402	386	NA	0.7
All Sectors.....	45,442	46,510	52,496	53,708	55,514	56,142	57,228	55,850	100.0	100.0
<b>Retail Revenue (million dollars).....</b>										
Residential.....	1,505	1,800	2,243	2,043	2,272	2,323	2,760	3,257	37.4	37.8
Commercial.....	1,590	1,976	2,807	2,430	2,687	2,858	3,282	4,078	39.5	47.3
Industrial.....	802	843	915	841	891	844	910	1,252	19.9	14.5
Other.....	124	86	98	89	NA	NA	NA	NA	3.1	NA
Transportation.....	NA	NA	NA	NA	12	19	19	41	NA	0.5
All Sectors.....	4,020	4,705	6,062	5,404	5,862	6,045	6,971	8,628	100.0	100.0
<b>Average Retail Prices (cents/KWh) .....</b>										
Residential.....	9.66	11.26	12.47	10.93	11.60	11.75	13.44	16.60	NA	NA
Commercial.....	8.56	9.93	11.64	10.02	10.48	10.99	12.42	15.54	NA	NA
Industrial.....	7.89	8.41	9.37	8.34	8.93	8.48	9.22	13.04	NA	NA
Other.....	10.90	14.31	15.52	13.11	NA	NA	NA	NA	NA	NA
Transportation.....	NA	NA	NA	NA	4.09	4.65	4.80	10.68	NA	NA
All Sectors.....	8.85	10.12	11.55	10.06	10.56	10.77	12.18	15.45	NA	NA

See footnotes at end of tables.

**Table 9. Retail Electricity Sales Statistics, 2006**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
Number of Entities	7	41	NA	NA	NA	15	8	71
Number of Retail Customers	2,354,891	389,872	NA	NA	NA	254,343	NA	2,999,106
Retail Sales (thousand megawatthours)	26,924	7,870	NA	NA	NA	21,055	NA	55,850
Percentage of Retail Sales	48.21	14.09	NA	NA	NA	37.70	NA	100.00
Revenue from Retail Sales (million dollars)	4,655	935	NA	NA	NA	2,086	953	8,628
Percentage of Revenue	53.95	10.83	NA	NA	NA	24.18	11.04	100.00
Average Retail Price (cents/kWh)	17.29	11.87	NA	NA	NA	9.91	4.52	15.45

Table 9 Notes: Data are shown for All Sectors. Full Service Providers sell bundled electricity services (e.g., both energy and delivery) to end users. Full Service Providers may purchase electricity from others (such as independent Power Producers or other full service providers) prior to delivery. Other Providers sell either the energy or the delivery services, but not both. Sales volumes and customer counts shown for Other Providers refer to delivered electricity, which is a joint activity of both energy and delivery providers; for clarity, they are reported only in the Energy column in this table. The revenue shown under Other Providers represents the revenue realized from the sale of the energy and the delivery services distinctly. "Public" entities include municipalities, State power agencies, and municipal marketing authorities. "Federal" entities are either owned or financed by the Federal Government. "Cooperatives" are electric utilities legally established to be owned by and operated for the benefit of those using its services. The cooperative will generate, transmit and/or distribute supplies of electric energy to a specified area not being serviced by another utility. "Facility" sales represent direct electricity transactions from independent generators to end use consumers.

**Table 10. Supply and Disposition of Electricity, 1990, 1995, and 2001 Through 2006**  
(Million Kilowatthours)

Category	1990	1995	2001	2002	2003	2004	2005	2006
<b>Massachusetts</b>								
<b>Supply</b>								
<b>Generation</b>								
Electric Utilities	36,479	26,972	1,566	1,157	2,056	1,524	1,622	943
Independent Power Producers	1,729	3,577	30,176	34,019	40,102	41,036	42,122	41,847
Combined Heat and Power, Electric	751	6,241	5,769	5,852	5,378	4,053	2,896	1,938
<b>Electric Power Sector Generation Subtotal</b>	<b>38,958</b>	<b>36,790</b>	<b>37,511</b>	<b>41,028</b>	<b>47,536</b>	<b>46,614</b>	<b>46,640</b>	<b>44,728</b>
Combined Heat and Power, Commercial	306	377	558	575	514	573	590	574
Combined Heat and Power, Industrial	547	488	409	413	335	314	286	296
<b>Industrial and Commercial Generation Subtotal</b>	<b>853</b>	<b>865</b>	<b>967</b>	<b>987</b>	<b>849</b>	<b>887</b>	<b>876</b>	<b>869</b>
<b>Total Net Generation</b>	<b>39,811</b>	<b>37,654</b>	<b>38,478</b>	<b>42,016</b>	<b>48,385</b>	<b>47,500</b>	<b>47,515</b>	<b>45,598</b>
<b>Total International Imports</b>	<b>1,921</b>	<b>1,790</b>	<b>1,137</b>	<b>497</b>	<b>274</b>	<b>512</b>	<b>708</b>	<b>694</b>
<b>Total Supply</b>	<b>41,732</b>	<b>39,445</b>	<b>39,615</b>	<b>42,513</b>	<b>48,659</b>	<b>48,013</b>	<b>48,223</b>	<b>46,292</b>
<b>Disposition</b>								
<b>Retail Sales</b>								
Full Service Providers	45,442	46,510	48,989	43,880	45,457	43,287	41,357	34,795
Energy-Only Providers	-	-	3,507	9,828	9,739	12,551	15,854	21,055
Facility Direct Retail Sales	-	-	-	-	318	304	17	-
<b>Total Electric Industry Retail Sales</b>	<b>45,442</b>	<b>46,510</b>	<b>52,496</b>	<b>53,708</b>	<b>55,514</b>	<b>56,142</b>	<b>57,228</b>	<b>55,850</b>
<b>Direct Use</b>	<b>957</b>	<b>1,075</b>	<b>2,371</b>	<b>2,422</b>	<b>2,453</b>	<b>2,456</b>	<b>1,164</b>	<b>912</b>
<b>Total International Exports</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>61</b>	<b>32</b>	<b>94</b>	<b>116</b>
<b>Estimated Losses</b>	<b>3,407</b>	<b>3,531</b>	<b>2,750</b>	<b>2,447</b>	<b>2,284</b>	<b>2,209</b>	<b>2,324</b>	<b>4,000</b>
<b>Total Disposition</b>	<b>49,805</b>	<b>51,116</b>	<b>57,617</b>	<b>58,577</b>	<b>60,313</b>	<b>60,839</b>	<b>60,810</b>	<b>60,878</b>
<b>Net Interstate Trade</b>	<b>-8,073</b>	<b>-11,671</b>	<b>-18,002</b>	<b>-16,064</b>	<b>-11,653</b>	<b>-12,826</b>	<b>-12,587</b>	<b>-14,586</b>
<b>Net Trade Index (ratio)</b>	<b>0.84</b>	<b>0.77</b>	<b>0.69</b>	<b>0.73</b>	<b>0.81</b>	<b>0.79</b>	<b>0.79</b>	<b>0.76</b>

R = Revised.

NA = Not applicable; NM = Not meaningful.

W = Withheld to avoid disclosure of individual company data.

- = Data not available.

\* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is 1 and values under 0.5 are shown as \*.)

Totals may not equal sum of components because of independent rounding.

Table 10 Notes: Estimated Losses are reported at the utility level, and then allocated to States based on the utility's retail sales by State. Reported losses may include electricity unaccounted for by the utility. Net Interstate Trade represents the difference between the amount of electricity produced in the State and consumed in the State. Positive values indicate a State that is a net interstate exporter of electricity; negative values indicate a State that is a net interstate importer of electricity. The Net Trade Index represents a State's electricity self-sufficiency. Values greater than 1 indicate that, on an annual net basis, the State supplied electricity consumed outside the State; values less than 1 indicate that, on an annual net basis, the State consumed electricity produced outside the State.

General Notes: Table 4 "Other Renewables" includes wood, black liquor, other wood waste, municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind. The "Other" category includes batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, tire-derived fuels and miscellaneous technologies. However, Table 5 "Other Renewables" includes only biogenic municipal solid waste, in addition to wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind. In Table 5 "Other" includes Non-biogenic municipal solid waste, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, tire-derived fuels and miscellaneous technologies. In Table 7, "Other Renewables" emissions include biogenic municipal solid waste, and other renewable waste.

Direct use is commercial or industrial use of electricity that (1) is self-generated (2) is produced by either the same entity that consumes the power or an affiliate, and (3) is used in direct support of a service or industrial process located within the same facility or group of facilities that houses the generating equipment. Direct use is exclusive of station use.