

Table 1. 1998 Summary Statistics

Item	Value	U.S. Rank	Item	Value	U.S. Rank
NERC Region(s)		NPCC	Utility		
Net Exporter or Importer		Importer	Capability (MW)	3,385	41
Primary Generating Fuel		Gas	Generation (MWh)	26,036,881	40
Population (as of 7/98)	6,144,407	13	Average Age of Plants (years)		
Average Electricity Price (cents/kWh) ^a	9.59	43	Coal-fired	40	
Industrial	8.18	49	Petroleum-fired	29	
Commercial	9.35	42	Gas-fired	20	
Residential	10.6	41	Nuclear	26	
Industry			Hydroelectric	30	
Capability (MW)	10,328	27	Renewable	14	
Generation (MWh)	45,817,498	28	Nonutility		
Capability/person (KWe/person)	1.68	47	Capability (MW)	6,943	3
Generation/person (MWh/person)	7.46	47	Share of Capability (Percent) ...	67.2	2
Emissions (Thousand Short Tons)			Generation (MWh)	19,780,617	6
Sulfur Dioxide	98	25	Share of Generation (Percent) ..	43.2	3
Nitrogen Oxide	51	38			
Carbon Dioxide	30,080	32			
Sulfur Dioxide/sq. mile (Tons)	12.56	10			
Nitrogen Oxides/sq. mile (Tons)	6.48	12			
Carbon Dioxide/sq. mile (Tons)	3,837.76	2			

Table 2. Five Largest Plants, 1998

Plant	Energy Source ^b	Operating Company	Net Capability (MW)	Age (Years)
1. Brayton Point	Gas	US Gen New England Inc	1,539	40
2. Northfield Mountain	Hydro	Western Massachusetts Elec Co	1,120	26
3. Sithe Mystic LLC	Gas	Sithe New England Holdings LLC	1,056	41
4. Salem Harbor	Coal	US Gen New England Inc	746	46
5. New Boston	Gas	Sithe New England Holdings LLC	706	33

Table 3. Top Five Utilities Ranked by Retail Sales Revenue Within the State, 1998
(Million Dollars)

Utility	All Sectors	Residential	Commercial	Industrial	Other
A. Massachusetts Electric Company ...	1,469	572	569	310	17
B. Boston Edison Company	1,408	432	818	136	23
C. Commonwealth Electric Company ...	389	207	147	31	4
D. Western Massachusetts Elec Co	355	143	130	77	5
E. Eastern Edison Company	248	115	96	35	3
Total	3,869	1,468	1,760	589	51
Percentage of Utility Sales	83	85	88	70	61

Table 4. Electric Power Industry Generating Capability by Plant Type, 1988, 1993, and 1998
(Megawatts Electric)

Plant Type	1988	1993	1998	Annual Growth Rate 1988-1998 (Percent)	Percentage Share 1988	Percentage Share 1993	Percentage Share 1998
Total Utility	9,837	9,461	3,385	-10.1	88.8	86.6	32.8
Coal-fired	1,746	1,679	328	-15.4	15.8	15.4	3.2
Petroleum-fired	3,225	2,691	431	-18.2	29.1	24.6	4.2
Gas-fired	176	18	115	-4.2	1.6	0.2	1.1
Dual-fired	2,079	2,552	574	-12.1	18.8	23.4	5.6
Nuclear	834	665	665	-2.2	7.5	6.1	6.4
Hydroelectric	1,778	1,856	1,272	-3.3	16.1	17.0	12.3
Renewable	--	*	*	0.0	--	*	*
Total Nonutility	1,237	1,465	6,943	18.8	11.2	13.4	67.2
Industry	11,074	10,925	10,328	-0.7	100.0	100.0	100.0

Figure 1. Utility Generating Capability by Plant Type, 1998

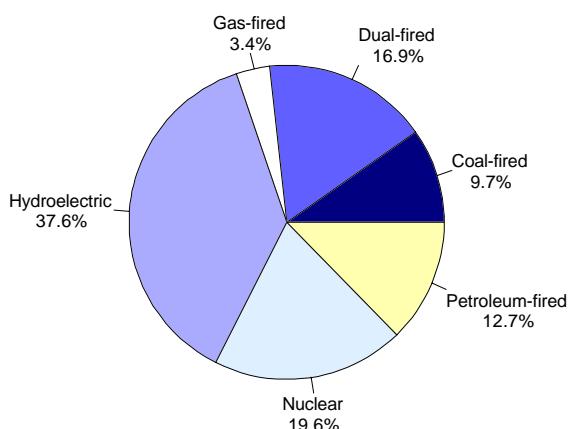


Figure 2. Utility Generation by Primary Energy Source, 1998

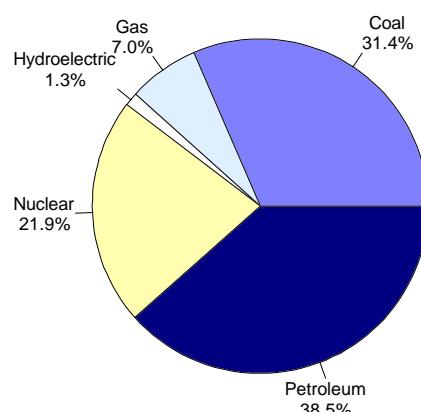


Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1988, 1993, and 1998
(Megawatthours)

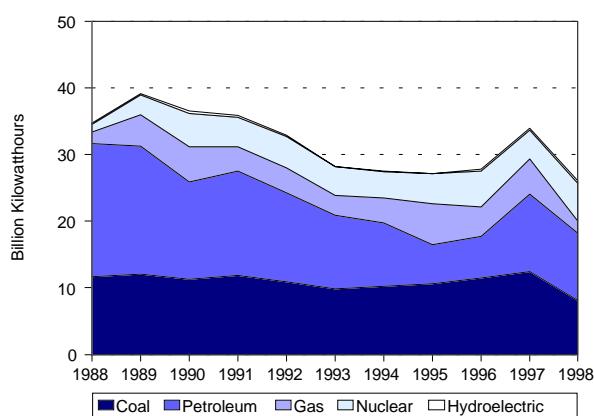
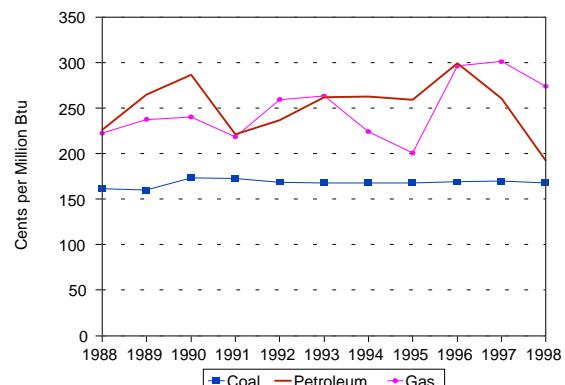
Fuel	1988	1993	1998	Annual Growth Rate 1988-1998 (Percent)	Percentage Share 1988	Percentage Share 1993	Percentage Share 1998
Total Utility	34,664,134	28,163,544	26,036,881	-2.8	82.7	76.0	56.8
Coal	11,687,474	9,815,909	8,168,608	-3.5	27.9	26.5	17.8
Petroleum	19,908,204	11,112,574	10,019,730	-6.6	47.5	30.0	21.9
Gas	1,802,037	2,897,352	1,818,857	0.1	4.3	7.8	4.0
Nuclear	1,116,887	4,338,685	5,698,414	17.7	2.7	11.7	12.4
Hydroelectric	149,532	-976	331,272	8.3	0.4	*	0.7
Total Nonutility	7,237,833	8,879,528	19,780,617	10.6	17.3	24.0	43.2
Industry	41,901,967	37,043,072	45,817,498	0.9	100.0	100.0	100.0

Table 6. Utility Delivered Fuel Prices for Coal, Petroleum, and Gas, 1988, 1993, and 1998
(Cents per Million Btu, 1998 Dollars)

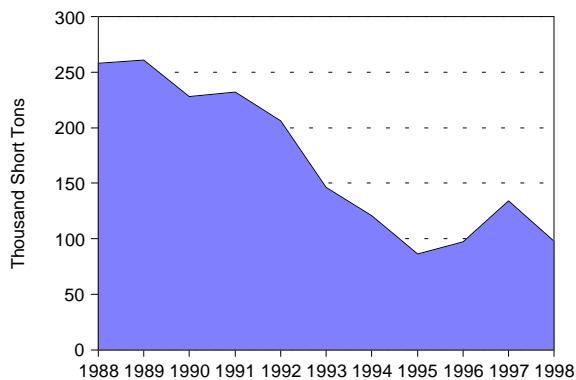
Fuel	1988	1993	1998	Annual Growth Rate 1988-1998 (Percent)
Coal	161.2	167.5	167.6	0.4
Petroleum	225.9	261.7	192.5	-1.6
Gas	222.2	263.0	273.8	2.1

Table 7. Electric Power Industry Emissions Estimates, 1988, 1993, and 1998
(Thousand Short Tons)

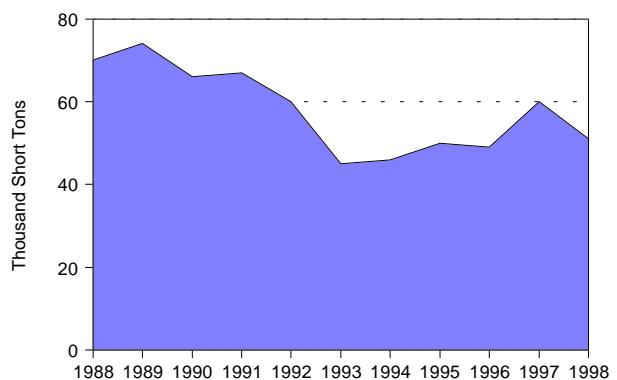
Emission Type	1988	1993	1998	Annual Growth Rate 1988-1998 (Percent)
Sulfur Dioxide	258	146	98	-9.2
Nitrogen Oxides ^c	70	46	51	-3.4
Carbon Dioxide ^c	28,260	19,313	30,080	0.1

Figure 3. Utility Generation of Electricity by Primary Energy Source, 1988-1998**Figure 4. Utility Delivered Fuel Prices for Coal, Petroleum, and Gas, 1988-1998**
(1998 Dollars)

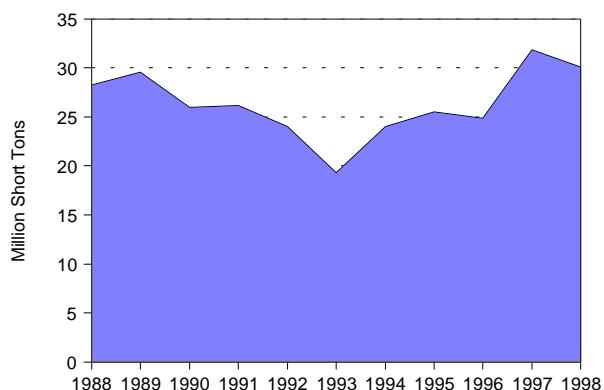
**Figure 5. Estimated Sulfur Dioxide Emissions,
1988-1998**



**Figure 6. Estimated Nitrogen Oxide Emissions,
1988-1998**

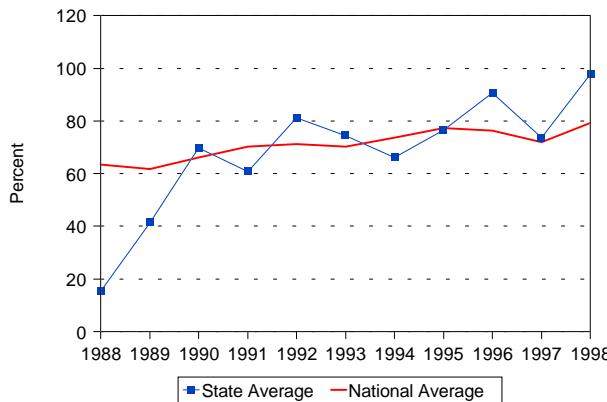


**Figure 7. Estimated Carbon Dioxide Emissions,
1988-1998**



**Table 8. Utility Retail Sales by Sector, 1988, 1993, and 1998
(Megawatthours)**

Sector	1988	1993	1998	Annual Growth Rate 1988-1998 (Percent)	Percentage Share 1988	Percentage Share 1993	Percentage Share 1998
Residential . . .	15,510,894	15,785,272	16,387,951	0.5	34.7	34.9	33.7
Commercial . .	17,886,023	18,896,866	21,422,373	1.8	40.0	41.7	44.1
Industrial	10,243,119	9,604,594	10,211,977	*	22.9	21.2	21.0
Other	1,086,946	994,016	584,843	-6.0	2.4	2.2	1.2
Total	44,726,985	45,280,748	48,607,144	0.8	100.0	100.0	100.0

Figure 8. Nuclear Power Capacity Factor Comparison, 1988-1998**Table 9. Utility Retail Sales Statistics, 1988, 1993, and 1998**

Item	Investor-Owned	Public	Federal	Cooperative	Total
1988					
Number of Utilities	10	40	--	--	50
Number of Retail Customers	2,231,470	326,972	--	--	2,558,442
Retail Sales (MWh)	38,916,966	5,810,019	--	--	44,726,985
Percentage of Retail Sales	87.0	13.0	--	--	100.0
Revenue from Retail Sales (million 1998 dollars) ^d	3,777	640	--	--	4,417
Percentage of Revenue	85.5	14.5	--	--	100.0
1993					
Number of Utilities	10	40	--	1	51
Number of Retail Customers	2,341,194	348,411	--	2,960	2,692,565
Retail Sales (MWh)	39,177,189	6,066,984	--	36,575	45,280,748
Percentage of Retail Sales	86.5	13.4	--	0.1	100.0
Revenue from Retail Sales (million 1998 dollars) ^d	4,346	625	--	4	4,975
Percentage of Revenue	87.4	12.6	--	0.1	100.0
1998					
Number of Utilities	10	40	--	--	50
Number of Retail Customers	2,440,934	364,563	--	--	2,805,497
Retail Sales (MWh)	41,993,565	6,613,579	--	--	48,607,144
Percentage of Retail Sales	86.4	13.6	--	--	100.0
Revenue from Retail Sales (million 1998 dollars) ^d	4,047	612	--	--	4,659
Percentage of Revenue	86.9	13.1	--	--	100.0