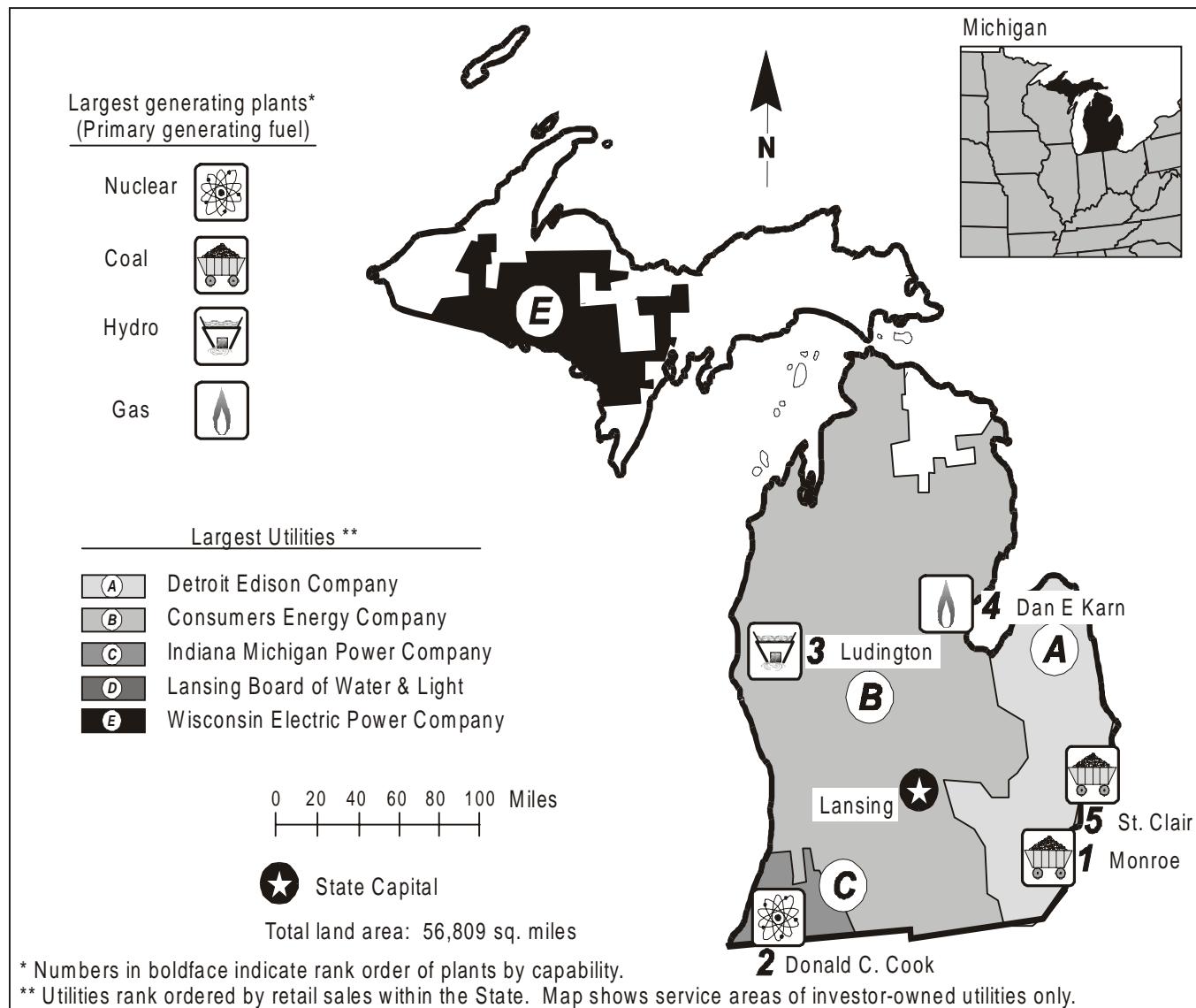


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**Table 1. 1998 Summary Statistics**

Item	Value	U.S. Rank	Item	Value	U.S. Rank
NERC Region(s) .....			<b>ECAR/MAIN</b>		
Net Exporter or Importer .....			Importer		
Primary Generating Fuel .....			Coal		
Population (as of 7/98) .....	9,820,231	8	Average Age of Plants (years)		
Average Electricity Price (cents/kWh) <sup>a</sup>	7.09	36	Coal-fired .....	30	
Industrial .....	5.03	38	Petroleum-fired .....	27	
Commercial .....	7.81	39	Gas-fired .....	25	
Residential .....	8.67	34	Nuclear .....	19	
<b>Industry</b>			Hydroelectric .....	29	
Capability (MW) .....	24,634	10	Renewable .....	2	
Generation (MWh) .....	100,566,070	13	<b>Nonutility</b>		
Capability/person (KWe/person) .....	2.51	33	Capability (MW) .....	2,691	10
Generation/person (MWh/person) .....	10.24	36	Share of Capability (Percent) ...	10.9	18
Emissions (Thousand Short Tons)			Generation (MWh) .....	15,419,763	9
Sulfur Dioxide .....	411	13	Share of Generation (Percent) ..	15.3	12
Nitrogen Oxide .....	299	9			
Carbon Dioxide .....	80,164	9			
Sulfur Dioxide/sq. mile (Tons) .....	7.23	18			
Nitrogen Oxides/sq. mile (Tons) .....	5.26	13			
Carbon Dioxide/sq. mile (Tons) .....	1,411.12	17			

**Table 2. Five Largest Plants, 1998**

Plant	Energy Source <sup>b</sup>	Operating Company	Net Capability (MW)	Age (Years)
1. Monroe .....	Coal	Detroit Edison Co	3,014	29
2. Donald C Cook .....	Nuclear	Indiana Michigan Power Co	2,060	23
3. Ludington .....	Hydro	Consumers Energy Co	1,872	25
4. Dan E Karn .....	Gas, Petroleum, Coal	Consumers Energy Co	1,791	39
5. St Clair .....	Coal, Petroleum	Detroit Edison Co	1,681	45

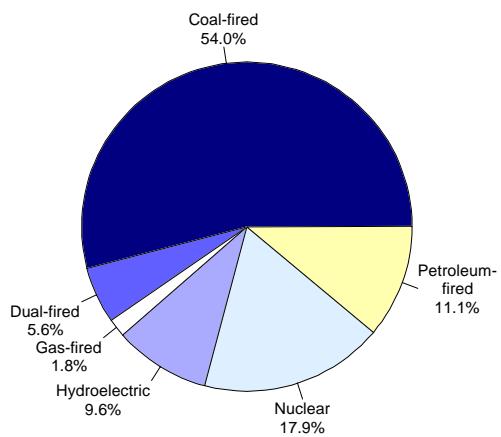
**Table 3. Top Five Utilities Ranked by Retail Sales Revenue Within the State, 1998  
(Million Dollars)**

Utility	All Sectors	Residential	Commercial	Industrial	Other
A. Detroit Edison Company .....	3,613	1,253	1,553	758	49
B. Consumers Energy Company .....	2,441	938	772	707	24
C. Indiana Michigan Power Co .....	181	73	49	57	2
D. Lansing Board of Water & Light .....	129	33	59	33	5
E. Wisconsin Electric Power Co .....	108	12	10	85	*
Total .....	6,472	2,310	2,442	1,639	80
Percentage of Utility Sales .....	91	89	92	91	85

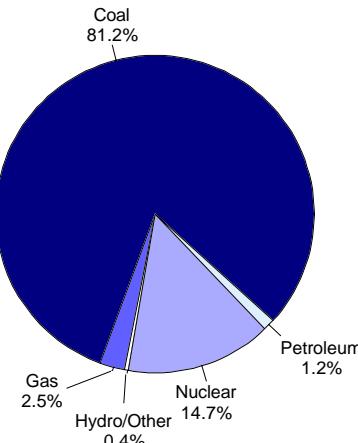
**Table 4. Electric Power Industry Generating Capability by Plant Type, 1988, 1993, and 1998  
(Megawatts Electric)**

Plant Type	1988	1993	1998	Annual Growth Rate 1988-1998 (Percent)	Percentage Share 1988	Percentage Share 1993	Percentage Share 1998
Total Utility .....	22,409	22,412	21,943	-0.2	88.6	89.0	89.1
Coal-fired .....	12,036	11,929	11,840	-0.2	47.6	47.4	48.1
Petroleum-fired ....	3,058	1,639	2,438	-2.2	12.1	6.5	9.9
Gas-fired .....	412	685	403	-0.2	1.6	2.7	1.6
Dual-fired .....	721	1,993	1,230	5.5	2.9	7.9	5.0
Nuclear .....	3,980	3,967	3,918	-0.2	15.7	15.8	15.9
Hydroelectric ....	2,203	2,200	2,113	-0.4	8.7	8.7	8.6
Renewable .....	--	--	1	0.0	--	--	*
Total Nonutility .....	2,873	2,760	2,691	-0.7	11.4	11.0	10.9
Industry .....	25,282	25,172	24,634	-0.3	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 .....	88,868,001	92,250,107	85,146,307	-0.4	87.2	86.8	84.7
Coal .....	68,578,331	61,558,991	69,142,807	0.1	67.3	57.9	68.8
Petroleum .....	1,414,034	619,777	1,005,170	-3.4	1.4	0.6	1.0
Gas .....	584,653	680,194	2,152,055	13.9	0.6	0.6	2.1
Nuclear .....	17,807,837	28,525,000	12,494,153	-3.5	17.5	26.8	12.4
Hydroelectric .....	483,146	866,145	352,122	-3.1	0.5	0.8	0.4
Total Nonutility .....	13,015,961	14,069,743	15,419,763	1.7	12.8	13.2	15.3
Industry .....	101,883,963	106,319,850	100,566,070	-0.1	100.0	100.0	100.0

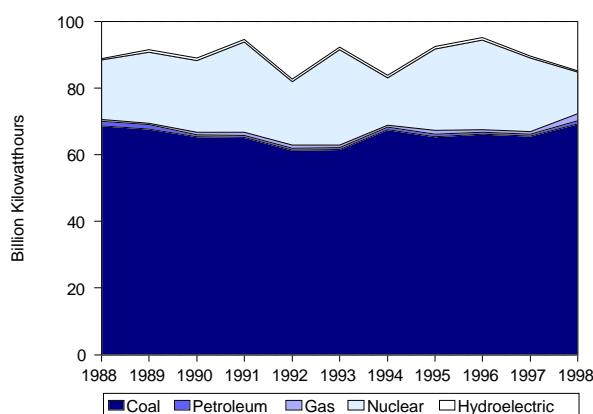
**Table 6. Utility Delivered Fuel Prices for Coal, Petroleum, and Gas, 1988, 1993, and 1998**  
(Cents per Million Btu, 1998 Dollars)

Fuel	1988	1993	1998	Annual Growth Rate 1988-1998 (Percent)
Coal .....	175.7	152.8	133.4	-2.7
Petroleum .....	279.9	305.8	280.6	*
Gas .....	255.5	241.7	232.4	-0.9

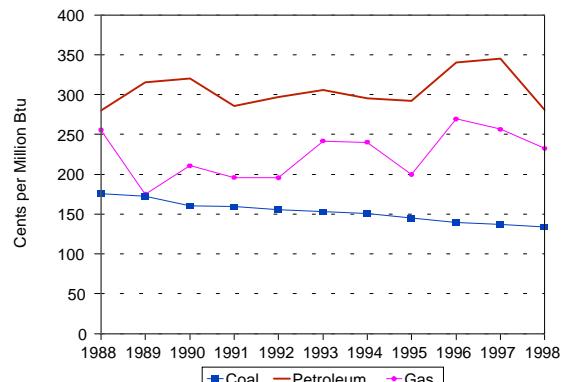
**Table 7. Electric Power Industry Emissions Estimates, 1988, 1993, and 1998**  
(Thousand Short Tons)

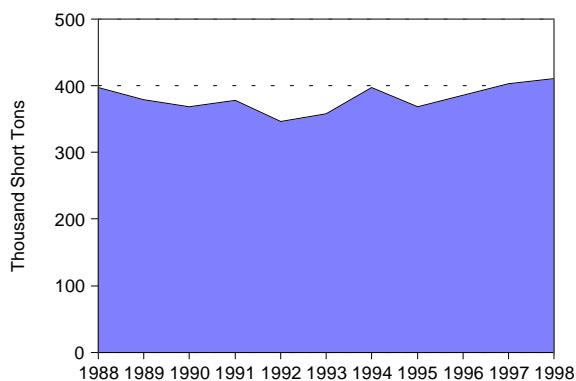
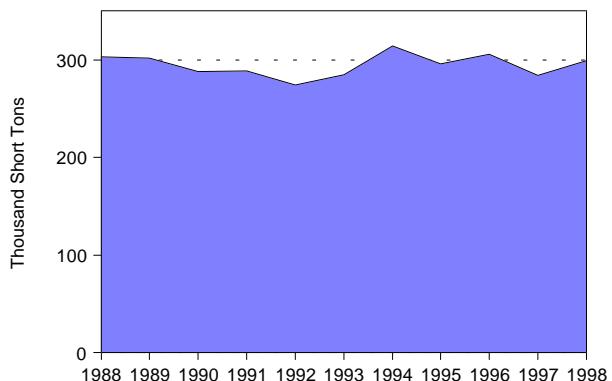
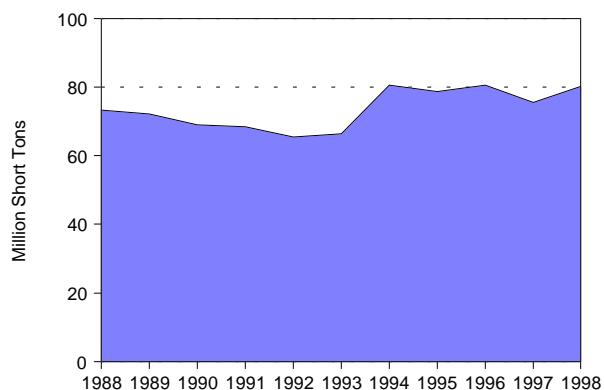
Emission Type	1988	1993	1998	Annual Growth Rate 1988-1998 (Percent)
Sulfur Dioxide .....	397	358	411	0.2
Nitrogen Oxides <sup>c</sup> .....	303	285	299	-0.1
Carbon Dioxide <sup>c</sup> .....	73,202	66,322	80,164	1.0

**Figure 3. Utility Generation of Electricity by Primary Energy Source, 1988-1998**

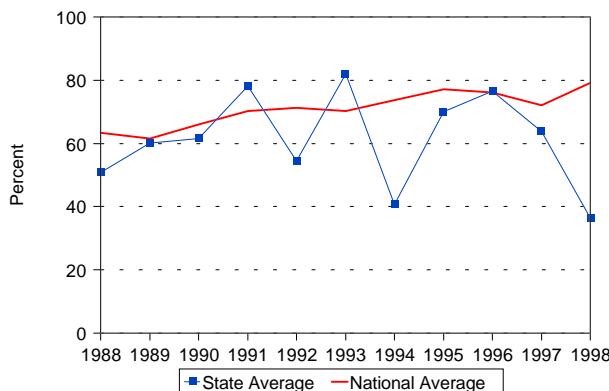


**Figure 4. Utility Delivered Fuel Prices for Coal, Petroleum, and Gas, 1988-1998**  
(1998 Dollars)



**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 . . .	25,316,458	26,770,174	29,807,978	1.6	30.7	30.6	29.7
Commercial . .	19,529,986	28,930,387	33,839,513	5.6	23.7	33.0	33.7
Industrial . . . .	36,324,219	30,571,544	35,983,417	-0.1	44.0	34.9	35.8
Other . . . . .	1,346,420	1,316,497	875,287	-4.2	1.6	1.5	0.9
Total . . . . .	82,517,085	87,588,602	100,506,195	2.0	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
<b>1988</b>					
Number of Utilities .....	10	41	--	14	65
Number of Retail Customers .....	3,530,405	252,485	--	197,532	3,980,422
Retail Sales (MWh) .....	75,103,765	5,725,620	--	1,687,700	82,517,085
Percentage of Retail Sales .....	91.0	6.9	--	2.0	100.0
Revenue from Retail Sales (million 1998 dollars) <sup>d</sup> .....	6,288	440	--	172	6,899
Percentage of Revenue .....	91.1	6.4	--	2.5	100.0
<b>1993</b>					
Number of Utilities .....	9	41	--	14	64
Number of Retail Customers .....	3,722,365	272,811	--	220,581	4,215,757
Retail Sales (MWh) .....	79,434,919	6,230,971	--	1,922,712	87,588,602
Percentage of Retail Sales .....	90.7	7.1	--	2.2	100.0
Revenue from Retail Sales (million 1998 dollars) <sup>d</sup> .....	6,258	441	--	189	6,888
Percentage of Revenue .....	90.9	6.4	--	2.7	100.0
<b>1998</b>					
Number of Utilities .....	9	41	--	12	62
Number of Retail Customers .....	3,951,321	283,409	--	251,917	4,486,647
Retail Sales (MWh) .....	90,968,012	7,237,704	--	2,300,479	100,506,195
Percentage of Retail Sales .....	90.5	7.2	--	2.3	100.0
Revenue from Retail Sales (million 1998 dollars) <sup>d</sup> .....	6,468	462	--	199	7,129
Percentage of Revenue .....	90.7	6.5	--	2.8	100.0