

**Table 1. 1998 Summary Statistics**

Item	Value	U.S. Rank	Item	Value	U.S. Rank
NERC Region(s) .....			WSCC/MAPP		
Net Exporter or Importer .....			Exporter		
Primary Generating Fuel .....			Coal		
Population (as of 7/98) .....	879,533	44	Capability (MW) .....	4,944	39
Average Electricity Price (cents/kWh) <sup>a</sup>	4.80	5	Generation (MWh) .....	27,616,913	38
Industrial .....	3.19	4	Average Age of Plants (years)		
Commercial .....	5.87	13	Coal-fired .....	17	
Residential .....	6.50	10	Petroleum-fired .....	26	
<b>Industry</b>			Gas-fired .....	22	
Capability (MW) .....	5,065	40	Hydroelectric .....	40	
Generation (MWh) .....	28,460,516	40	<b>Nonutility</b>		
Capability/person (KWe/person) .....	5.76	4	Capability (MW) .....	121	44
Generation/person (MWh/person) .....	32.36	4	Share of Capability (Percent) ...	2.4	42
Emissions (Thousand Short Tons)			Generation (MWh) .....	843,603	40
Sulfur Dioxide .....	18	43	Share of Generation (Percent) ..	3	39
Nitrogen Oxide .....	63	36			
Carbon Dioxide .....	20,044	37			
Sulfur Dioxide/sq. mile (Tons) .....	0.12	45			
Nitrogen Oxides/sq. mile (Tons) .....	0.44	45			
Carbon Dioxide/sq. mile (Tons) .....	137.7	46			

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

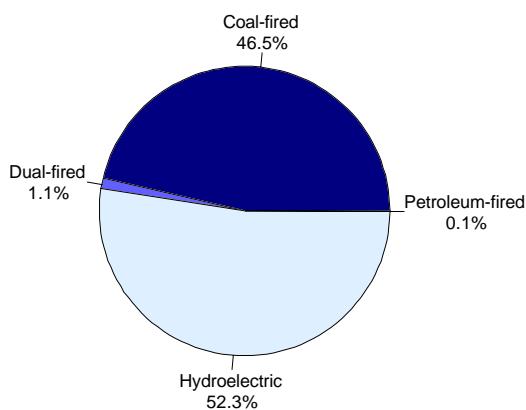
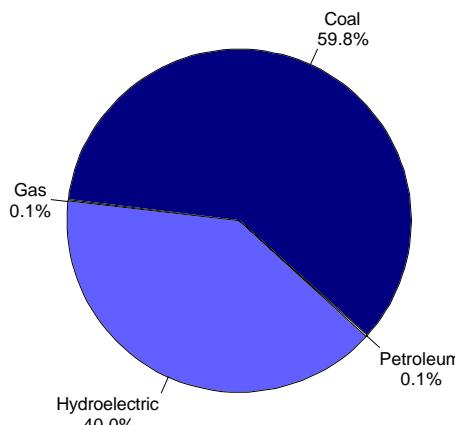
Plant	Energy Source <sup>b</sup>	Operating Company	Net Capability (MW)	Age (Years)
1. Colstrip .....	Coal	Montana Power Co	2,094	23
2. Libby .....	Hydro	USCE-North Pacific Division	604	23
3. Noxon Rapids .....	Hydro	Avista Corporation	554	39
4. Hungry Horse .....	Hydro	Bureau of Reclamation	428	46
5. Yellowtail .....	Hydro	Bureau of Reclamation	288	32

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

Utility	All Sectors	Residential	Commercial	Industrial	Other
A. Montana Power Company .....	390	128	141	112	9
B. Bonneville Power Admin .....	40	--	--	40	--
C. Flathead Electric Coop, Inc .....	38	9	3	25	1
D. PacifiCorp .....	33	13	10	9	*
E. MDU Resources Group, Inc .....	29	11	11	6	1
Total .....	529	161	165	192	11
Percentage of Utility Sales .....	80	66	85	94	53

**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 .....	4,951	4,871	4,944	0.0	98.8	98.8	97.6
Coal-fired .....	2,260	2,260	2,300	0.2	45.1	45.8	45.4
Petroleum-fired ....	--	--	5	0.0	--	--	0.1
Dual-fired .....	120	120	52	-8.0	2.4	2.4	1.0
Hydroelectric .....	2,559	2,478	2,587	0.1	51.1	50.3	51.1
Renewable .....	13	13	--	-100.0	0.3	0.3	--
Total Nonutility .....	60	60	121	7.2	1.2	1.2	2.4
Industry .....	5,012	4,931	5,065	0.1	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)

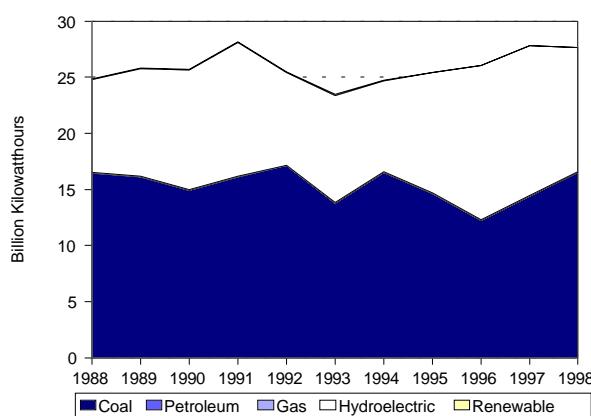
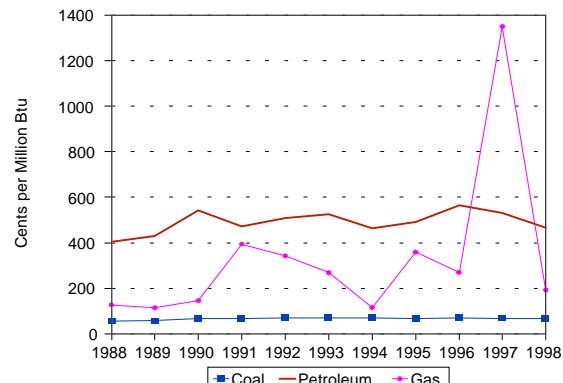
Fuel	1988	1993	1998	Annual Growth Rate 1988-1998 (Percent)	Percentage Share 1988	Percentage Share 1993	Percentage Share 1998
Total Utility . . . . .	24,821,129	23,447,322	27,616,913	1.2	98.4	98.2	97.0
Coal . . . . .	16,461,924	13,774,690	16,507,968	*	65.3	57.7	58.0
Petroleum . . . . .	29,819	20,885	14,344	-7.8	0.1	0.1	0.1
Gas . . . . .	36,851	24,159	40,953	1.2	0.1	0.1	0.1
Hydroelectric . . . . .	8,237,378	9,549,364	11,053,648	3.3	32.7	40.0	38.8
Renewable . . . . .	55,157	78,224	--	--	0.2	0.3	--
Total Nonutility . . . . .	400,916	425,533	843,603	8.6	1.6	1.8	3.0
Industry . . . . .	25,222,045	23,872,855	28,460,516	1.4	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)

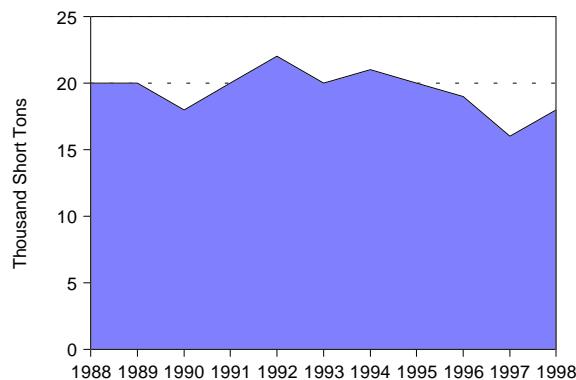
Fuel	1988	1993	1998	Annual Growth Rate 1988-1998 (Percent)
Coal . . . . .	54.5	69.3	67.4	2.1
Petroleum . . . . .	403.3	525.5	466.0	1.4
Gas . . . . .	126.3	268.1	191.8	4.3

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

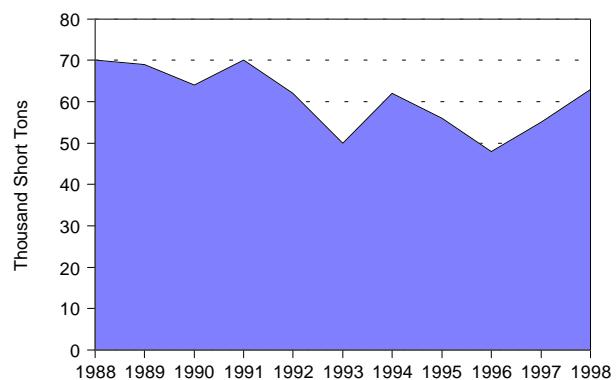
Emission Type	1988	1993	1998	Annual Growth Rate 1988-1998 (Percent)
Sulfur Dioxide . . . . .	20	20	18	-1.4
Nitrogen Oxides <sup>c</sup> . . . . .	70	50	63	-1.1
Carbon Dioxide <sup>c</sup> . . . . .	18,613	15,777	20,044	0.8

**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)

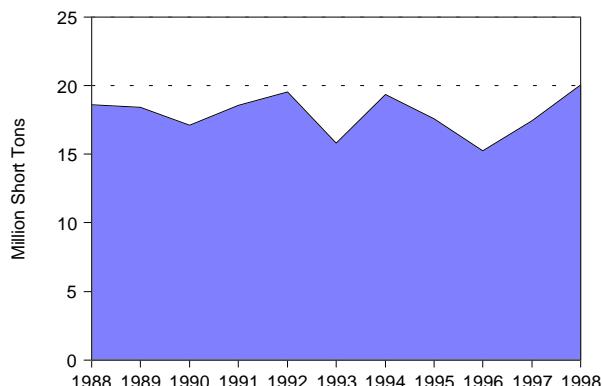
**Figure 5. Estimated Sulfur Dioxide Emissions,  
1988-1998**



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

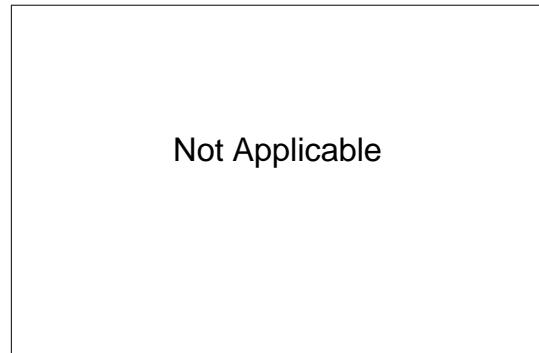


**Figure 7. Estimated Carbon Dioxide Emissions,  
1988-1998**



**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 . . .	3,301,170	3,597,987	3,722,471	1.3	25.5	27.8	27.0
Commercial . . .	2,619,848	3,026,077	3,313,181	2.6	20.2	23.4	24.0
Industrial . . . .	6,438,245	5,836,579	6,402,519	-0.1	49.8	45.1	46.5
Other . . . . .	582,259	468,584	335,393	-5.9	4.5	3.6	2.4
Total . . . . .	12,941,518	12,929,227	13,773,564	0.7	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 .....	6	1	2	30	39
Number of Retail Customers .....	300,720	14,608	22	96,509	411,859
Retail Sales (MWh) .....	7,791,825	252,260	3,193,875	1,703,558	12,941,518
Percentage of Retail Sales .....	60.2	1.9	24.7	13.2	100.0
Revenue from Retail Sales (million 1998 dollars) <sup>d</sup> .....	429	12	114	117	672
Percentage of Revenue .....	63.8	1.8	16.9	17.5	100.0
1993					
Number of Utilities .....	5	1	3	30	39
Number of Retail Customers .....	313,244	797	13,697	104,056	431,794
Retail Sales (MWh) .....	8,366,996	13,943	2,776,128	1,772,160	12,929,227
Percentage of Retail Sales .....	64.7	0.1	21.5	13.7	100.0
Revenue from Retail Sales (million 1998 dollars) <sup>d</sup> .....	433	1	68	120	621
Percentage of Revenue .....	69.6	0.1	10.9	19.4	100.0
1998					
Number of Utilities .....	6	1	3	29	39
Number of Retail Customers .....	351,909	872	15,042	142,808	510,631
Retail Sales (MWh) .....	8,354,616	13,446	2,297,319	3,108,183	13,773,564
Percentage of Retail Sales .....	60.7	0.1	16.7	22.6	100.0
Revenue from Retail Sales (million 1998 dollars) <sup>d</sup> .....	453	1	56	152	661
Percentage of Revenue .....	68.5	0.1	8.4	23.0	100.0