

Table 1. 1998 Summary Statistics

Item	Value	U.S. Rank	Utility	Value	U.S. Rank
NERC Region(s)		Not Applicable	Capability (MW)	1,721	46
Net Exporter or Importer		Not Applicable	Generation (MWh)	4,590,270	47
Primary Generating Fuel		Gas	Average Age of Plants (years)		
Population (as of 7/98)	615,205	48	Coal-fired	31	
Average Electricity Price (cents/kWh) ^a	9.97	46	Petroleum-fired	17	
Industrial	7.17	44	Gas-fired	22	
Commercial	9.48	43	Hydroelectric	19	
Residential	11.5	45	Renewable	16	
Industry			Nonutility		
Capability (MW)	2,093	48	Capability (MW)	372	36
Generation (MWh)	5,861,188	49	Share of Capability (Percent) ...	17.8	10
Capability/person			Generation (MWh)	1,270,918	37
(KWe/person)	3.4	19	Share of Generation (Percent) ..	21.7	9
Generation/person					
(MWh/person)	9.53	40			
Emissions (Thousand Short Tons)					
Sulfur Dioxide	*	47			
Nitrogen Oxide	10	47			
Carbon Dioxide	3,809	46			
Sulfur Dioxide/sq. mile (Tons)00	48			
Nitrogen Oxides/sq. mile (Tons)	0.02	49			
Carbon Dioxide/sq. mile (Tons)	6.68	49			

Table 2. Five Largest Plants, 1998

Plant	Energy Source ^b	Operating Company	Net Capability (MW)	Age (Years)
1. Beluga	Gas	Chugach Electric Assn Inc	335	30
2. George M Sullivan	Gas	Municipality of Anchorage	220	23
3. Bradley Lake	Hydro	Homer Electric Assn Inc	108	7
4. North Pole	Petroleum	Golden Valley Elec Assn Inc	106	22
5. Aurora Energy LLC	Coal	Aurora Energy LLC	89	--

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

Utility	All Sectors	Residential	Commercial	Industrial	Other
A. Chugach Electric Assn, Inc	93	49	41	2	1
B. Golden Valley Elec Assn, Inc	74	24	25	24	*
C. Anchorage Mun Light and Power	69	14	53	--	2
D. Matanuska Electric Assn, Inc	48	32	16	--	*
E. Homer Electric Assn, Inc	41	18	16	7	*
Total	325	137	151	34	4
Percentage of Utility Sales	64	67	69	57	14

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	1,504	1,711	1,721	1.4	84.1	86.7	82.2
Coal-fired	56	54	25	-7.7	3.1	2.7	1.2
Petroleum-fired	464	501	547	1.7	25.9	25.4	26.2
Gas-fired	362	377	481	2.9	20.3	19.1	23.0
Dual-fired	419	428	308	-3.0	23.4	21.7	14.7
Hydroelectric	203	352	359	5.9	11.4	17.8	17.2
Renewable	*	*	*	0.0	*	*	*
Total Nonutility	285	263	372	2.7	15.9	13.3	17.8
Industry	1,789	1,974	2,093	1.6	100.0	100.0	100.0

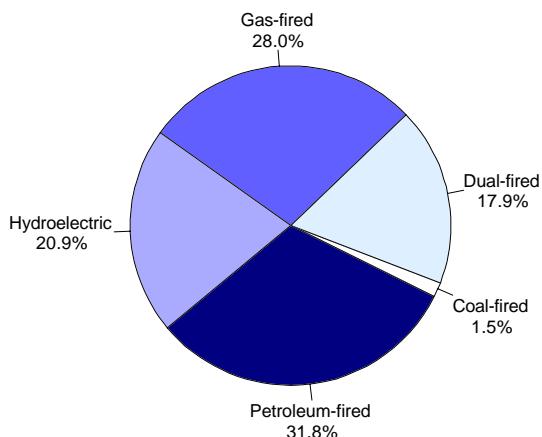
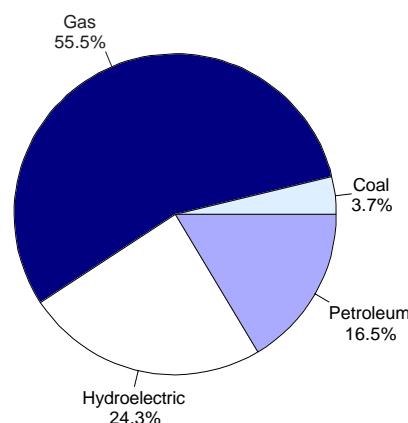
Figure 1. Utility Generating Capability by Plant Type, 1998**Figure 2. Utility Generation by Primary Energy Source, 1998**

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	4,194,800	4,581,047	4,590,270	0.9	81.0	81.8	78.3
Coal	315,957	322,564	171,053	-6.0	6.1	5.8	2.9
Petroleum	355,694	458,542	756,914	7.8	6.9	8.2	12.9
Gas	2,587,685	2,496,949	2,548,971	-0.2	50.0	44.6	43.5
Hydroelectric	935,464	1,302,992	1,113,332	1.8	18.1	23.3	19.0
Total Nonutility	983,417	1,015,941	1,270,918	2.6	19.0	18.2	21.7
Industry	5,178,217	5,596,988	5,861,188	1.2	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)
Gas	--	125.4	179.8	0.0

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	1	1	*	-3.1
Nitrogen Oxides ^c	3	8	10	2.8
Carbon Dioxide ^c	469	2,566	3,809	3.8

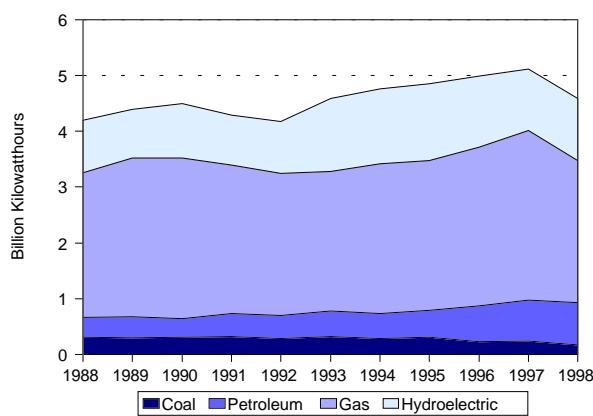
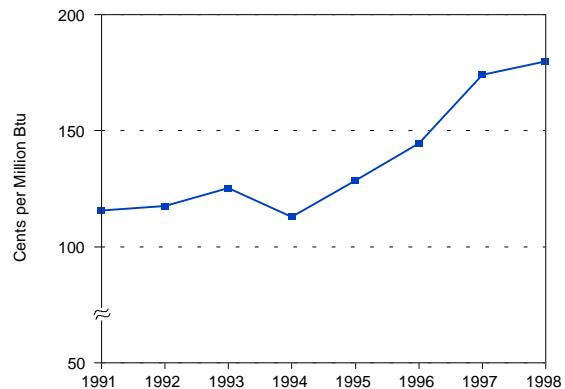
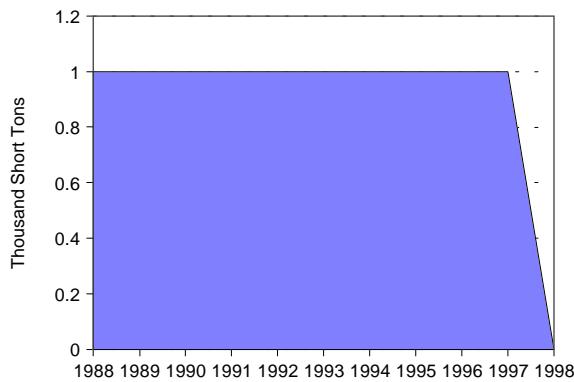
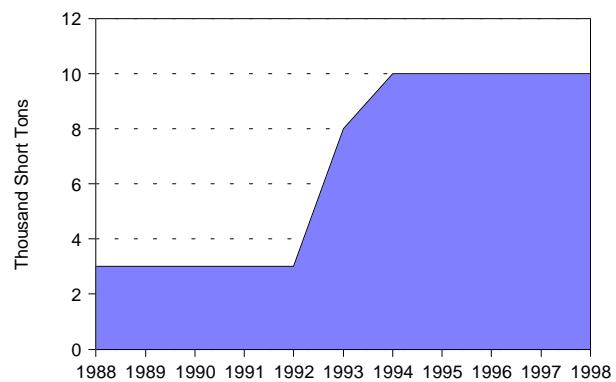
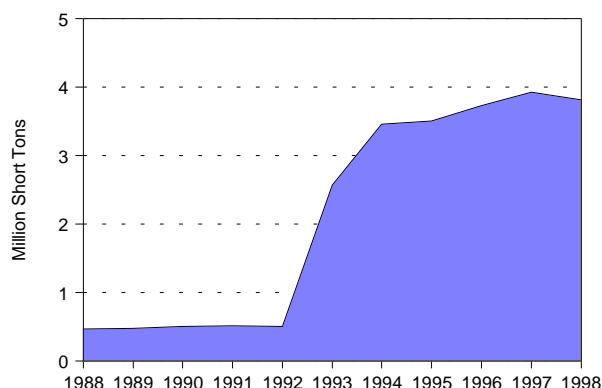
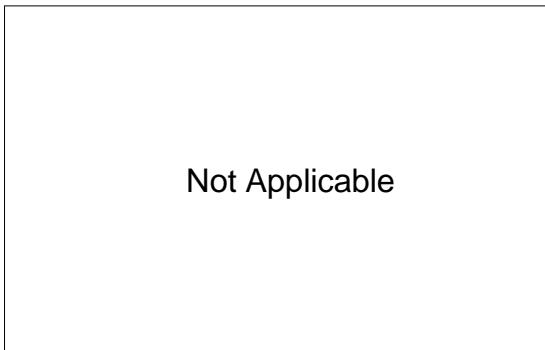
Figure 3. Utility Generation of Electricity by Primary Energy Source, 1988-1998**Figure 4. Utility Delivered Fuel Prices for Gas, 1988-1998**
(1998 Dollars)

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 . . .	1,590,206	1,629,036	1,767,992	1.1	39.3	37.2	34.7
Commercial . . .	1,777,502	2,062,399	2,306,729	2.6	43.9	47.1	45.3
Industrial	541,706	501,059	818,182	4.2	13.4	11.4	16.1
Other	135,554	182,133	201,681	4.0	3.3	4.2	4.0
Total	4,044,970	4,374,627	5,094,584	2.3	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	20	23	1	21	65
Number of Retail Customers	17,051	55,519	2	152,931	225,503
Retail Sales (MWh)	298,637	1,291,132	2,678	2,452,523	4,044,970
Percentage of Retail Sales	7.4	31.9	0.1	60.6	100.0
Revenue from Retail Sales (million 1998 dollars) ^d	38	136	--	286	460
Percentage of Revenue	8.3	29.5	--	62.1	100.0
1993					
Number of Utilities	24	37	1	21	83
Number of Retail Customers	20,537	57,479	2	161,698	239,716
Retail Sales (MWh)	362,700	1,396,905	3,294	2,611,728	4,374,627
Percentage of Retail Sales	8.3	31.9	0.1	59.7	100.0
Revenue from Retail Sales (million 1998 dollars) ^d	46	143	--	299	488
Percentage of Revenue	9.4	29.3	--	61.2	100.0
1998					
Number of Utilities	19	35	1	20	75
Number of Retail Customers	23,942	55,807	1	185,435	265,185
Retail Sales (MWh)	400,490	1,342,131	898	3,351,065	5,094,584
Percentage of Retail Sales	7.9	26.3	--	65.8	100.0
Revenue from Retail Sales (million 1998 dollars) ^d	45	132	--	331	508
Percentage of Revenue	8.9	25.9	--	65.2	100.0