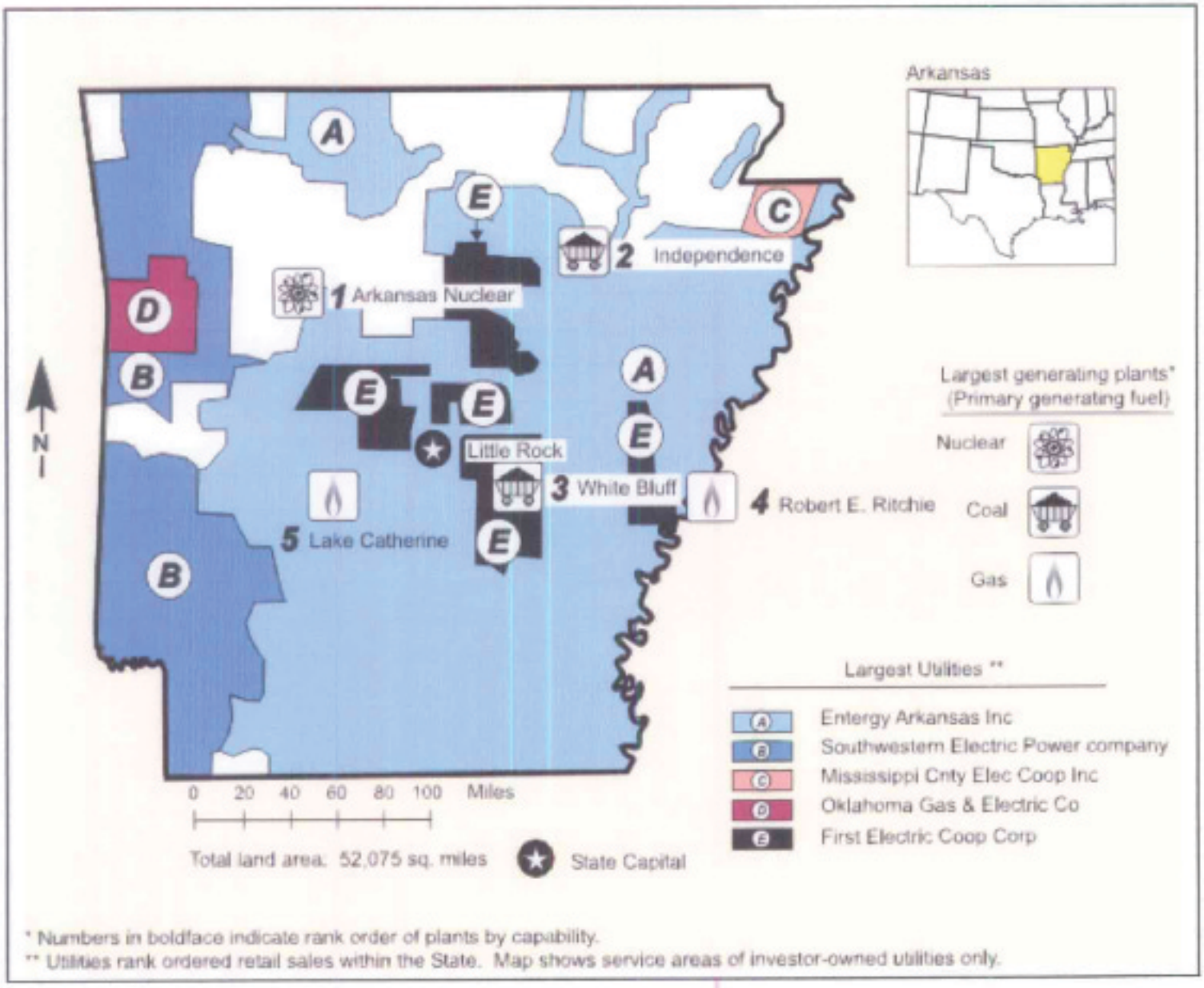
Arkansas Electricity Profile
2002 Statistical Summary



* Numbers in boldface indicate rank order of plants by capability.

** Utilities rank ordered retail sales within the State. Map shows service areas of investor-owned utilities only.

Table 1. 2002 Summary Statistics

Item	Value	U.S. Rank
Arkansas		
NERC Region(s)		SPP/SERC
Primary Energy Source		Coal
Net Summer Capability (megawatts)	11,300	29
Electric Utilities	9,550	25
Independent Power Producers & Combined Heat and Power	1,750	31
Net Generation (megawatthours)	47,611,644	27
Electric Utilities	42,873,364	24
Independent Power Producers & Combined Heat and Power	4,738,280	31
Emissions (thousand short tons)		
Sulfur Dioxide	80	29
Nitrogen Oxide	45	35
Carbon Dioxide	29,057	32
Sulfur Dioxide/sq. mile	2	32
Nitrogen Oxide/sq. mile	1	37
Carbon Dioxide/sq. mile	558	30
Utility and ESP Retail Electricity Sales (megawatthours)	42,449,558	30
Utility Retail Electricity Sales (megawatthours)	42,449,558	30
Direct Use (megawatthours)	2,131,036	18
Average Retail Price (cents/kWh)	5.61	42

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2002

Plant	Energy Sources	Operating Company	Net Capability (MW)
Arkansas			
1. Arkansas Nuclear One	Nuclear	Entergy Arkansas Inc	1,776
2. Independence	Petroleum, Coal	Entergy Arkansas Inc	1,657
3. White Bluff	Petroleum, Coal	Entergy Arkansas Inc	1,620
4. Robert E Ritchie	Gas	Entergy Arkansas Inc	878
5. Lake Catherine	Gas	Entergy Arkansas Inc	688
6. Hot Spring Energy Fac	Gas	Duke Energy Hot Spring LLC	652
7. Wrightsville Power Fa	Other, Gas	Wrightsville Power Fac LLC	568
8. Flint Creek	Petroleum, Coal	Southwestern Electric Power Co	480
9. Bull Shoals	Hydro	USCE-Little Rock District	391
10. Pine Bluff Energy Cen	Gas	Pine Bluff Energy LLC	198

See footnotes at end of tables.

Table 3. Top Five Utilities Ranked by Retail Sales, 2002
(Megawatthours)

Utility	All Sectors	Residential	Commercial	Industrial	Other
Arkansas					
A. Entergy Arkansas, Inc	19,599,834	7,049,328	5,221,073	7,074,241	255,192
B. Southwestern Electric Power Co	3,840,092	987,231	940,205	1,815,812	96,844
C. Mississippi Cnty Elec Coop Inc	3,031,672	56,098	18,476	2,955,389	1,709
D. Oklahoma Gas & Electric Co	2,587,316	684,492	705,086	1,079,651	118,087
E. First Electric Coop Corp	1,446,264	946,362	178,054	264,297	57,551
Total	30,505,178	9,723,511	7,062,894	13,189,390	529,383
Percentage of Utility Sales	72	63	76	78	72

See footnotes at end of tables.

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1993, 1997, and 2002
(Megawatts)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Arkansas							
Coal	3,817	3,865	3,757	–0.2	37.8	38.3	33.2
Petroleum	204	206	18	–23.8	2.0	2.0	.2
Natural Gas	67	14	199	12.9	.7	.1	1.8
Dual Fired	2,564	2,582	2,386	–.8	25.4	25.6	21.1
Nuclear	1,694	1,694	1,776	.5	16.8	16.8	15.7
Hydroelectric	1,326	1,327	1,415	.7	13.1	13.2	12.5
Total Electric Utilities	**9,672**	**9,688**	**9,551**	**–.1**	**95.7**	**96.1**	**84.5**
Petroleum	3	3	0	NM	.0	.0	.0
Natural Gas	58	21	1,292	41.3	.6	.2	11.4
Dual Fired	35	35	156	18.1	.3	.3	1.4
Hydroelectric	1	1	1	–2.7	.0	.0	.0
Other Renewables	335	335	301	–1.2	3.3	3.3	2.7
Total IPP's & Combined Heat and Power	**432**	**395**	**1,750**	**16.8**	**4.3**	**3.9**	**15.5**
Coal	3,817	3,865	3,757	–.2	37.8	38.3	33.2
Petroleum	207	209	18	–23.9	2.0	2.1	.2
Natural Gas	124	35	1,490	31.8	1.2	.3	13.2
Dual Fired	2,599	2,617	2,542	–.2	25.7	26.0	22.5
Nuclear	1,694	1,694	1,776	.5	16.8	16.8	15.7
Hydroelectric	1,327	1,328	1,416	.7	13.1	13.2	12.5
Other Renewables	335	335	301	–1.2	3.3	3.3	2.7
Total Electric Industry	**10,104**	**10,083**	**11,300**	**1.3**	**100.0**	**100.0**	**100.0**

See footnotes at end of tables.

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1993, 1997, and 2002

(Megawatthours)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Arkansas							
Coal	18,025,615	22,760,970	22,986,650	2.7	44.5	50.4	48.3
Petroleum	65,624	66,622	136,134	8.4	.2	.1	.3
Natural Gas	1,928,399	2,242,628	1,755,867	–1.0	4.8	5.0	3.7
Nuclear	13,521,676	14,208,157	14,558,884	.8	33.4	31.4	30.6
Hydroelectric	4,507,758	3,511,260	3,435,829	–3.0	11.1	7.8	7.2
Total Electric Utilities	**38,049,072**	**42,789,637**	**42,873,364**	**1.3**	**94.0**	**94.7**	**90.0**
Coal	65,913	49,400	111,720	6.0	.2	.1	.2
Petroleum	7,502	7,282	23,572	13.6	.0	.0	.0
Natural Gas	774,862	756,356	2,847,091	15.6	1.9	1.7	6.0
Other Gases	0	265	0	NM	.0	.0	.0
Hydroelectric	1,534	4,444	0	NM	.0	.0	.0
Other Renewables	1,599,769	1,586,216	1,585,266	–.1	4.0	3.5	3.3
Other	0	0	170,631	NM	.0	.0	.4
Total IPP's & Combined Heat and Power	**2,449,580**	**2,403,962**	**4,738,280**	**7.6**	**6.0**	**5.3**	**10.0**
Coal	18,091,528	22,810,370	23,098,370	2.8	44.7	50.5	48.5
Petroleum	73,126	73,904	159,706	9.1	.2	.2	.3
Natural Gas	2,703,261	2,998,984	4,602,958	6.1	6.7	6.6	9.7
Other Gases	0	265	0	NM	.0	.0	.0
Nuclear	13,521,676	14,208,157	14,558,884	.8	33.4	31.4	30.6
Hydroelectric	4,509,292	3,515,704	3,435,829	–3.0	11.1	7.8	7.2
Other Renewables	1,599,769	1,586,216	1,585,266	–.1	4.0	3.5	3.3
Other	0	0	170,631	NM	.0	.0	.4
Total Electric Industry	**40,498,652**	**45,193,599**	**47,611,644**	**1.8**	**100.0**	**100.0**	**100.0**

See footnotes at end of tables.

Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1993, 1997, and 2002

Fuel	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Arkansas				
Coal (2002 cents per million Btu)	189.8	168.5	83.6	–8.7
Average heat value (Btu per pound)	8,665	8,707	8,694	*
Average sulfur Content(percent)	.3	.3	.3	–1.6
Petroleum (2002 cents per million Btu)	510.4	483.3	550.0	.8
Average heat value (Btu per gallon)	136,833	140,074	138,705	.1
Average sulfur Content(percent)	.0	.0	.4	NM
Gas (2002 cents per million Btu)	245.8	269.2	351.4	4.0
Average heat value (Btu per cubic foot)	1,029	1,029	1,019	–.1

See footnotes at end of tables.

Table 7. Electric Power Industry Emissions Estimates, 1993, 1997, and 2002
(Thousand Short Tons)

Emission Type	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Arkansas				
Sulfur Dioxide				
Coal	63	85	72	1.5
Petroleum	*	*	1	30.9
Gas	0	0	*	NM
Other	3	4	7	8.2
Total	66	90	80	2.1
Nitrogen Oxide				
Coal	67	41	40	–5.5
Petroleum	*	*	*	17.2
Gas	4	4	3	–1.0
Other	1	1	2	5.0
Total	72	47	45	–5.0
Carbon Dioxide				
Coal	20,491	25,488	26,358	2.8
Petroleum	67	66	163	10.4
Gas	1,877	1,974	2,535	3.4
Other	1	0	0	NM
Total	22,437	27,528	29,057	2.9

See footnotes at end of tables.

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1993, 1997, and 2001

Sector	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Arkansas							
Retail Sales (thousand megawatthours)							
Residential	11,762	12,990	15,527	3.1	37.1	35.2	36.6
Commercial	6,698	7,597	9,304	3.7	21.1	20.6	21.9
Industrial	12,609	15,632	16,887	3.3	39.8	42.4	39.8
Other	594	638	731	2.3	1.9	1.7	1.7
Total	31,663	36,858	42,450	3.3	100.0	100.0	100.0
Retail Sales Revenue (million 2002 dollars)							
Residential	1,084	1,041	1,126	.4	46.4	44.7	47.3
Commercial	525	529	528	.1	22.5	22.7	22.2
Industrial	681	714	678	*	29.1	30.7	28.5
Other	46	43	48	.4	2.0	1.9	2.0
Total	2,335	2,328	2,380	.2	100.0	100.0	100.0
Average Revenue per Kilowatthour (2002 cents/kWh)							
Residential	9.21	8.02	7.25	–2.6	NA	NA	NA
Commercial	7.84	6.97	5.68	–3.5	NA	NA	NA
Industrial	5.40	4.57	4.01	–3.2	NA	NA	NA
Other	7.72	6.79	6.52	–1.9	NA	NA	NA
Total	7.38	6.32	5.61	–3.0	NA	NA	NA

See footnotes at end of tables.

Table 9. Utility Retail Sales Statistics, 2002

Item	Investor-Owned	Public	Federal	Cooperative	Energy Service Providers	Total
Arkansas						
Number of Entities	4	15	0	17	0	36
Number of Retail Customers	818,661	161,076	0	411,154	0	1,390,891
Retail Sales (thousand megawatthours)	26,161	5,452	0	10,836	0	42,450
Percentage of Retail Sales	61.63	12.84	.00	25.53	.00	100.00
Revenue from Retail Sales (million 2002 dollars)	1,502	297	0	581	0	2,380
Percentage of Revenue	63.10	12.47	.00	24.43	.00	100.00
Revenue per Kilowatthour (2002 cents/kWh)	5.74	5.44	.00	5.37	0	5.61

IPP = Independent Power Producer.
NA = Not available.
NM = Not meaningful.
* = 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 ‘‘*’’.)