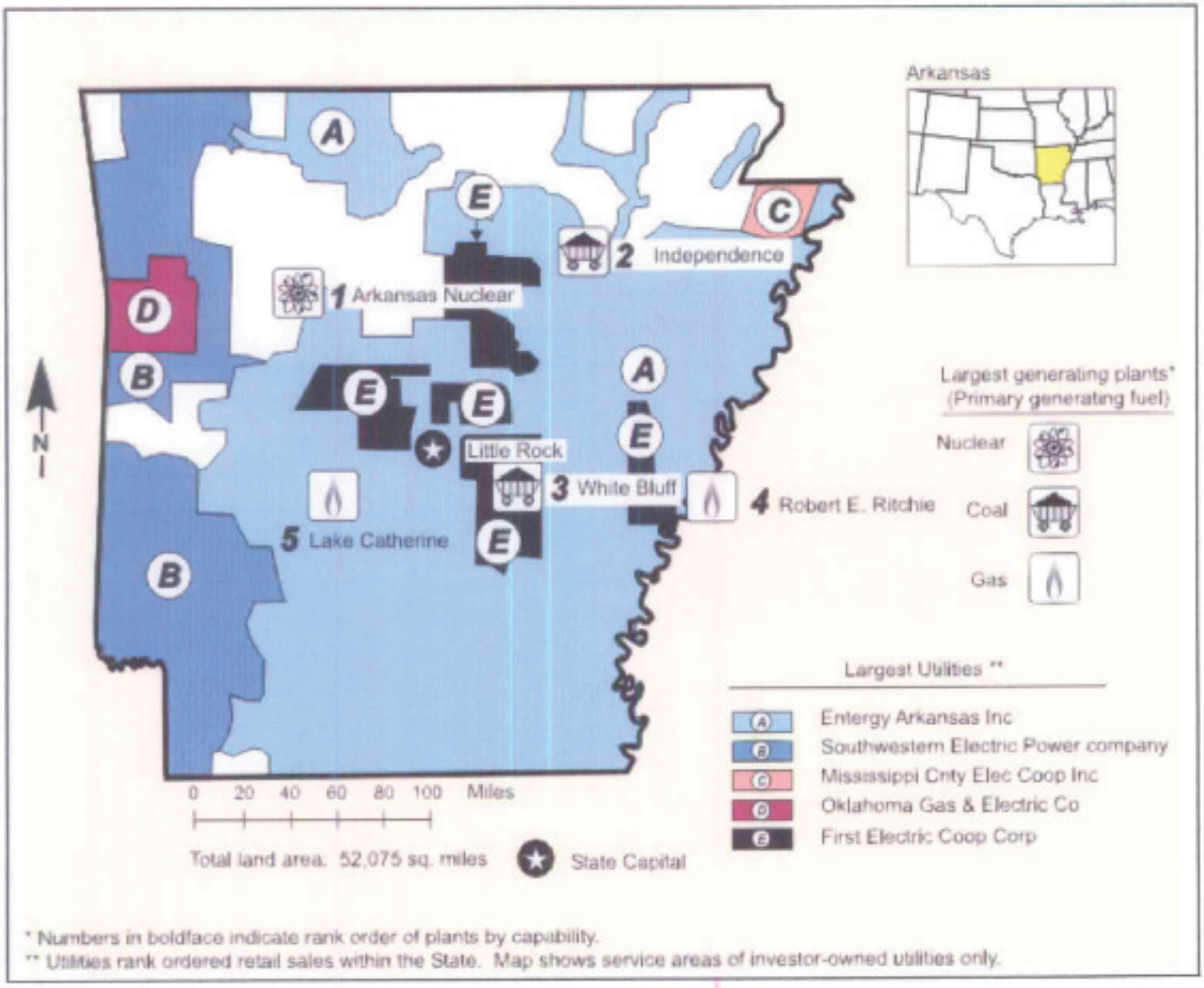
Arkansas Electricity Profile
2003 Statistical Summary



* 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. 2003 Summary Statistics

Item	Value	U.S. Rank
Arkansas		
NERC Region(s)		SPP/SERC
Primary Energy Source		Coal
Net Summer Capability (megawatts)	13,548	27
Electric Utilities	9,777	25
Independent Power Producers & Combined Heat and Power	3,773	23
Net Generation (megawatthours)	50,401,101	27
Electric Utilities	41,636,514	24
Independent Power Producers & Combined Heat and Power	8,764,587	27
Emissions (thousand metric tons)		
Sulfur Dioxide	79	29
Nitrogen Oxide	46	34
Carbon Dioxide	27,220	32
Sulfur Dioxide (lbs/MWh)	3.4	34
Nitrogen Oxide (lbs/MWh)	2.0	34
Carbon Dioxide (lbs/MWh)	1,191	36
Total Retail Sales (megawatthours)	43,108,259	30
Full Service Provider Sales (megawatthours)	43,108,259	30
Direct Use (megawatthours)	2,393,069	20
Average Retail Price (cents/kWh)	5.57	44

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2003

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
Arkansas			
1. Union Power Station	Gas	TPS-Arkansas Operations	2,020
2. Arkansas Nuclear One	Nuclear	Entergy Arkansas Inc	1,840
3. White Bluff	Petroleum, Coal	Entergy Arkansas Inc	1,635
4. Independence	Petroleum, Coal	Entergy Arkansas Inc	1,630
5. Robert E Ritchie	Gas	Entergy Arkansas Inc	883
6. Lake Catherine	Gas	Entergy Arkansas Inc	735
7. Hot Spring Energy Facility	Gas	Duke Energy Hot Spring LLC	652
8. Wrightsville Power Facility	Gas	Wrightsville Power Fac LLC	568
9. Flint Creek	Petroleum, Coal	Southwestern Electric Power Co	480
10. Bull Shoals	Hydro	USCE-Little Rock District	391

See footnotes at end of tables.

Table 3. Top Five Providers of Retail Electricity, 2003
(Megawatthours)

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
Arkansas						
1. Entergy Arkansas Inc	Investor-Owned	19,649,578	7,056,948	5,593,868	6,998,762	0
2. Southwestern Electric Power Co	Investor-Owned	3,956,951	1,017,381	1,336,324	1,603,246	0
3. Mississippi County Electric Coo	Cooperative	3,078,968	54,715	20,460	3,003,793	0
4. Oklahoma Gas & Electric Co	Investor-Owned	2,649,439	674,467	830,766	1,144,206	0
5. First Electric Coop Corp	Cooperative	1,439,456	947,868	151,362	340,226	0
Total Sales, Top Five Providers		30,774,392	9,751,379	7,932,780	13,090,233	0
Percent of Total State Sales		71	63	75	77	0

See footnotes at end of tables.

Table 4. Electric Power Industry Net Summer Capability by Primary Energy Source, 1994, 1998, and 2003
(Megawatts)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
Arkansas							
Electric Utilities	**9,674**	**9,618**	**9,777**	**0.1**	**95.7**	**96.1**	**72.2**
Coal	3,817	3,817	3,745	–.2	37.8	38.1	27.6
Petroleum	206	206	18	–23.7	2.0	2.1	.1
Natural Gas	67	14	199	12.9	.7	.1	1.5
Dual Fired	2,564	2,582	2,560	*	25.4	25.8	18.9
Nuclear	1,694	1,694	1,840	.9	16.8	16.9	13.6
Hydroelectric	1,298	1,277	1,387	.7	12.8	12.8	10.2
Pumped Storage	28	28	28	.0	.3	.3	.2
Independent Power Producers and Combined Heat and Power	**432**	**395**	**3,773**	**27.2**	**4.3**	**3.9**	**27.8**
Petroleum	4	3	0	NM	*	*	.0
Natural Gas	138	102	3,312	42.3	1.4	1.0	24.4
Dual Fired	35	35	156	18.1	.3	.3	1.2
Hydroelectric	1	1	1	.0	*	*	*
Other Renewables	254	254	304	2.0	2.5	2.5	2.2
Total Electric Industry	**10,106**	**10,013**	**13,548**	**3.3**	**100.0**	**100.0**	**100.0**
Coal	3,817	3,817	3,745	–.2	37.8	38.1	27.6
Petroleum	210	209	18	–23.9	2.1	2.1	.1
Natural Gas	205	116	3,510	37.1	2.0	1.2	25.9
Dual Fired	2,599	2,617	2,716	.5	25.7	26.1	20.0
Nuclear	1,694	1,694	1,840	.9	16.8	16.9	13.6
Hydroelectric	1,299	1,278	1,388	.7	12.9	12.8	10.2
Other Renewables	254	254	303	2.0	2.5	2.5	2.2
Pumped Storage	28	28	28	.0	.3	.3	.2

See footnotes at end of tables.

Table 5. Electric Power Industry Generation by Primary Energy Source, 1994, 1998, and 2003
(Megawatthours)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
Arkansas							
Electric Utilities	**39,547,768**	**43,198,908**	**41,636,514**	**0.6**	**94.1**	**94.6**	**82.6**
Coal	19,780,738	23,140,020	23,422,401	1.9	47.1	50.7	46.5
Petroleum	96,439	143,834	263,982	11.8	.2	.3	.5
Natural Gas	2,284,992	3,704,159	597,283	–13.8	5.4	8.1	1.2
Nuclear	13,923,701	13,097,252	14,689,416	.6	33.1	28.7	29.1
Hydroelectric	3,461,898	3,113,643	2,653,347	–2.9	8.2	6.8	5.3
Pumped Storage	0	0	10,085	NM	.0	.0	*
Independent Power Producers and Combined Heat and Power	**2,484,380**	**2,466,393**	**8,764,588**	**15.0**	**5.9**	**5.4**	**17.4**
Coal	71,380	40,184	81,765	1.5	.2	.1	.2
Petroleum	3,174	21,515	24,924	25.7	*	*	*
Natural Gas	840,335	802,920	6,703,577	26.0	2.0	1.8	13.3
Other Gases	0	185	0	NM	.0	.0	.0
Hydroelectric	743	3,100	1,271	6.1	*	*	*
Other Renewables	1,566,911	1,598,489	1,843,889	1.8	3.7	3.5	3.7
Other	1,837	0	109,161	57.4	*	.0	.2
Total Electric Industry	**42,032,148**	**45,665,301**	**50,401,101**	**2.0**	**100.0**	**100.0**	**100.0**
Coal	19,852,118	23,180,204	23,504,166	1.9	47.2	50.8	46.6
Petroleum	99,613	165,349	288,906	12.6	.2	.4	.6
Natural Gas	3,125,327	4,507,079	7,300,860	9.9	7.4	9.9	14.5
Other Gases	0	185	0	NM	.0	.0	.0
Nuclear	13,923,701	13,097,252	14,689,416	.6	33.1	28.7	29.1
Hydroelectric	3,462,641	3,116,743	2,654,618	–2.9	8.2	6.8	5.3
Other Renewables	1,566,911	1,598,489	1,843,889	1.8	3.7	3.5	3.7
Pumped Storage	0	0	10,085	NM	.0	.0	*
Other	1,837	0	109,161	57.4	*	.0	.2

See footnotes at end of tables.

Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1994, 1998, and 2003

Fuel, Quality	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
Arkansas				
Coal (cents per million Btu)	160.3	147.2	119.5	–3.2
Average heat value (Btu per pound)	8,707	8,671	8,758	.1
Average sulfur Content (percent)	.3	.3	.3	–1.4
Petroleum (cents per million Btu)	358.9	370.8	645.5	6.7
Average heat value (Btu per gallon)	140,162	141,228	140,479	*
Average sulfur Content (percent)	.5	.4	.4	–1.6
Natural Gas (cents per million Btu)	182.3	224.0	423.4	9.8
Average heat value (Btu per cubic foot)	1,024	1,023	1,033	.1

See footnotes at end of tables.

Table 7. Electric Power Industry Emissions Estimates, 1994, 1998, and 2003
(Thousand Metric Tons)

Emission Type	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
Arkansas				
Sulfur Dioxide				
Coal	66	66	65	–0.2
Petroleum	*	1	2	26.0
Natural Gas	*	*	*	8.0
Other	13	6	12	–.3
Total	78	73	79	.1
Nitrogen Oxide				
Coal	92	38	37	–9.5
Petroleum	*	*	*	19.4
Gas	7	9	4	–5.3
Other	4	4	4	–.4
Total	103	51	46	–8.6
Carbon Dioxide				
Coal	20,824	23,981	23,551	1.4
Petroleum	80	134	256	13.9
Gas	3,103	3,863	3,412	1.1
Geothermal	—	—	—	NM
Other	2	—	—	NM
Total	24,009	27,978	27,220	1.4

See footnotes at end of tables.

Table 8. Retail Sales, Revenue, and Average Retail Price by Sector, 1994, 1998, and 2003

Sector	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
Arkansas							
Retail Sales (thousand megawatthours)							
Residential	11,642	14,339	15,598	3.3	35.7	36.5	36.2
Commercial	6,866	8,205	10,568	4.9	21.0	20.9	24.5
Industrial	13,526	16,066	16,942	2.5	41.5	40.9	39.3
Other	585	705	NA	NM	1.8	1.8	NA
Total	32,619	39,315	43,108	3.1	100.0	100.0	100.0
Retail Revenue (million dollars)							
Residential	940	1,076	1,130	2.1	45.4	47.4	47.1
Commercial	472	484	585	2.4	22.8	21.3	24.4
Industrial	622	669	685	1.1	30.0	29.4	28.5
Other	38	42	NA	NM	1.8	1.8	NA
Total	2,072	2,272	2,399	1.6	100.0	100.0	100.0
Average Retail Price (cents/kWh)							
Residential	8.07	7.51	7.24	–1.2	NA	NA	NA
Commercial	6.88	5.90	5.54	–2.4	NA	NA	NA
Industrial	4.60	4.16	4.04	–1.4	NA	NA	NA
Other	6.46	5.98	NA	NM	NA	NA	NA
Total	6.35	5.78	5.57	–1.4	NA	NA	NA

See footnotes at end of tables.

Table 9. Retail Electricity Sales Statistics, 2003

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
Arkansas								
Number of Entities	4	15	NA	17	3	NA	NA	39
Number of Retail Customers	832,486	164,252	NA	419,184	4	NA	NA	1,415,926
Retail Sales (thousand megawatthours)	26,393	5,458	NA	10,990	267	NA	NA	43,108
Percentage of Retail Sales	61.22	12.66	NA	25.49	.62	NA	NA	100.00
Revenue from Retail Sales (million dollars)	1,474	296	NA	621	8	NA	NA	2,399
Percentage of Revenue	61.44	12.34	NA	25.87	.35	NA	NA	100.00
Average Retail Price (cents/kWh)	5.59	5.43	NA	5.65	3.12	NA	NA	5.57

Table 9 Notes: Data are shown for All Sectors. **Full Service Providers** sell bundled electricity services (e.g., both energy and delivery) to end users. Full Service Providers may purchase electricity from others (such as Independent Power Producers or other full service providers) prior to delivery. **Other Providers** sell either the energy or the delivery services, but not both. Sales volumes and customer counts shown for Other Providers refer to delivered electricity, which is a joint activity of both energy and delivery providers; for clarity, they are reported only in the Energy column in this table. The revenue shown under Other Providers represents the revenue realized from the sale of the energy and the delivery services distinctly. ''Public'' entities include municipalities, State power agencies, and municipal marketing authorities. ''Federal'' entities are either owned or financed by the Federal Government. ''Cooperatives'' are electric utilities legally established to be owned by and operated for the benefit of those using its service. The cooperative will generate, transmit,and/or distribute supplies of electric energy to a specified area not being serviced by another utility. ''Facility'' sales represent direct electricity transactions from independent generators to end use consumers.

Other Notes: NA = Not applicable; NM = Not meaningful;
W = Withheld to avoid disclosure of individual company data;
* = 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 '*'.)
Totals may not equal sum of components because of independent rounding;
Table 4 ''Other Renewables'' includes generation from municipal solid waste; Table 7 ''Other'' includes emissions from municipal solid waste.
Direct Use is commercial or industrial use of electricity that 1) is self-generated, 2) is produced by either the same entity that consumes the power or an affiliate, and 3) is used in direct support of a service or industrial process located within the same facility or group of facilities that houses the generating equipment. Direct use is exclusive of station use.