Table 1. 2002 Summary Statistics

Item	Value	U.S. Rank
Washington		
NERC Region(s)		WSCC
Primary Energy Source		Hydro
Net Summer Capability (megawatts)	27,112	10
Electric Utilities	24,141	6
Independent Power Producers & Combined Heat and Power	2,971	25
Net Generation (megawatthours)	102,765,048	13
Electric Utilities	88,568,483	11
Independent Power Producers & Combined Heat and Power	14,196,565	17
Emissions (thousand short tons)		
Sulfur Dioxide	21	42
Nitrogen Oxide	21	39
Carbon Dioxide	12,912	39
Sulfur Dioxide/sq. mile	0	44
Nitrogen Oxide/sq. mile	0	44
Carbon Dioxide/sq. mile	194	45
Utility and ESP Retail Electricity Sales (megawatthours)	76,491,883	18
Utility Retail Electricity Sales (megawatthours)	75,403,856	18
ESP Retail Electricity Sales (megawatthours)	1,088,027	13
Direct Use (megawatthours)	–1,894,139	51
Average Retail Price (cents/kWh)	5.80	38

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2002

Plant	Energy Sources	Operating Company	Net Capability (MW)
Washington			
1. Grand Coulee	Hydro	U S Bureau of Reclamation	7,079
2. Chief Joseph	Hydro	USCE-North Pacific Division	2,337
3. Transalta Centralia G	Petroleum, Gas, Coal	TransAlta Centralia Gen LLC	1,661
4. Rocky Reach	Hydro	PUD No 1 of Chelan County	1,279
5. Columbia Generating S	Nuclear	Energy Northwest	1,108
6. Boundary	Hydro	Seattle City of	1,050
7. Wanapum	Hydro	PUD No 2 of Grant County	969
8. Little Goose	Hydro	USCE-North Pacific Division	932
9. Lower Monumental	Hydro	USCE-North Pacific Division	932
10. Lower Granite	Hydro	USCE-North Pacific Division	932

See footnotes at end of tables.

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

Utility	All Sectors	Residential	Commercial	Industrial	Other
Washington					
A. Puget Sound Energy, Inc	19,253,824	9,801,319	7,974,498	1,395,544	82,463
B. Seattle City Light	8,923,130	3,073,673	3,845,912	1,197,613	805,932
C. PUD No 1 of Snohomish County	6,193,672	3,233,187	2,103,795	832,995	23,695
D. Avista Corporation	4,997,514	2,192,350	1,955,438	819,602	30,124
E. Tacoma Power	4,535,202	1,792,236	321,567	1,791,618	629,781
Total	43,903,342	20,092,765	16,201,210	6,037,372	1,571,995
Percentage of Utility Sales	57	63	67	36	49

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
Washington							
Coal	1,390	1,390	0	NM	5.6	5.3	0.0
Petroleum	173	62	40	–15.2	.7	.2	.1
Natural Gas	0	248	303	NM	.0	.9	1.1
Dual Fired	590	590	843	4.1	2.4	2.2	3.1
Nuclear	1,100	1,170	1,108	.1	4.4	4.5	4.1
Hydroelectric	20,960	21,731	21,706	.4	83.9	82.8	80.1
Other Renewables	46	83	142	13.3	.2	.3	.5
Total Electric Utilities	**24,259**	**25,273**	**24,141**	**–.1**	**97.1**	**96.3**	**89.0**
Coal	2	2	1,407	108.9	.0	.0	5.2
Natural Gas	335	480	937	12.1	1.3	1.8	3.5
Dual Fired	146	256	177	2.1	.6	1.0	.7
Hydroelectric	90	100	72	–2.4	.4	.4	.3
Other Renewables	161	142	378	9.9	.6	.5	1.4
Total IPP's & Combined Heat and Power	**734**	**979**	**2,971**	**16.8**	**2.9**	**3.7**	**11.0**
Coal	1,392	1,392	1,407	.1	5.6	5.3	5.2
Petroleum	173	62	40	–15.2	.7	.2	.1
Natural Gas	335	728	1,240	15.6	1.3	2.8	4.6
Dual Fired	736	846	1,020	3.7	2.9	3.2	3.8
Nuclear	1,100	1,170	1,108	.1	4.4	4.5	4.1
Hydroelectric	21,049	21,830	21,778	.4	84.2	83.2	80.3
Other Renewables	207	225	519	10.7	.8	.9	1.9
Total Electric Industry	**24,993**	**26,253**	**27,112**	**.9**	**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
Washington							
Coal	8,803,840	6,965,990	0	NM	10.0	5.7	0.0
Petroleum	32,118	16,297	6,172	–16.7	.0	.0	.0
Natural Gas	422,218	228,754	1,084,370	11.0	.5	.2	1.1
Nuclear	7,134,966	6,244,135	9,048,475	2.7	8.1	5.1	8.8
Hydroelectric	66,982,839	103,644,592	77,828,754	1.7	76.1	84.9	75.7
Other Renewables	395,167	353,256	600,712	4.8	.4	.3	.6
Total Electric Utilities	**83,771,148**	**117,453,024**	**88,568,483**	**.6**	**95.2**	**96.2**	**86.2**
Coal	31,239	24,530	8,660,805	86.8	.0	.0	8.4
Petroleum	27,316	212,292	67,130	10.5	.0	.2	.1
Natural Gas	2,775,728	2,732,907	3,634,941	3.0	3.2	2.2	3.5
Other Gases	222,852	290,495	312,638	3.8	.3	.2	.3
Hydroelectric	329,544	525,959	333,378	.1	.4	.4	.3
Other Renewables	837,943	886,961	1,187,673	4.0	1.0	.7	1.2
Other	7	0	0	NM	.0	.0	.0
Total IPP's & Combined Heat and Power	**4,224,628**	**4,673,143**	**14,196,565**	**14.4**	**4.8**	**3.8**	**13.8**
Coal	8,835,079	6,990,520	8,660,805	–.2	10.0	5.7	8.4
Petroleum	59,434	228,589	73,302	2.4	.1	.2	.1
Natural Gas	3,197,946	2,961,661	4,719,311	4.4	3.6	2.4	4.6
Other Gases	222,852	290,495	312,638	3.8	.3	.2	.3
Nuclear	7,134,966	6,244,135	9,048,475	2.7	8.1	5.1	8.8
Hydroelectric	67,312,383	104,170,551	78,162,132	1.7	76.5	85.3	76.1
Other Renewables	1,233,110	1,240,217	1,788,385	4.2	1.4	1.0	1.7
Other	7	0	0	NM	.0	.0	.0
Total Electric Industry	**87,995,776**	**122,126,167**	**102,765,048**	**1.7**	**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)
Washington				
Coal (2002 cents per million Btu)	151.6	167.1	146.1	–0.4
Average heat value (Btu per pound)	8,125	8,043	8,052	–.1
Average sulfur Content(percent)	.7	.6	1.0	4.0
Petroleum (2002 cents per million Btu)	522.7	513.0	241.1	–8.2
Average heat value (Btu per gallon)	139,936	139,944	146,121	.5
Average sulfur Content(percent)	.0	.0	.3	NM
Gas (2002 cents per million Btu)	419.2	4644.9	354.2	–1.8
Average heat value (Btu per cubic foot)	1,050	1,048	1,026	–.3

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)
Washington				
Sulfur Dioxide				
Coal	71	65	19	–13.4
Petroleum	*	1	*	8.9
Gas	*	*	*	2.8
Other	2	2	2	–2.6
Total	73	68	21	–12.7
Nitrogen Oxide				
Coal	43	16	16	–10.7
Petroleum	*	*	*	.2
Gas	2	3	4	10.8
Other	1	1	1	–.3
Total	46	21	21	–8.2
Carbon Dioxide				
Coal	9,920	8,323	10,371	.5
Petroleum	69	203	74	.8
Gas	1,785	1,877	2,433	3.5
Other	39	36	34	–1.5
Total	11,812	10,439	12,912	1.0

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
Washington							
Retail Sales (thousand megawatthours)							
Residential	30,932	31,749	32,066	0.4	34.2	35.9	41.9
Commercial	19,531	21,583	24,310	2.5	21.6	24.4	31.8
Industrial	36,563	31,348	16,880	–8.2	40.4	35.5	22.1
Other	3,447	3,627	3,237	–.7	3.8	4.1	4.2
Total	90,473	88,306	76,492	–1.8	100.0	100.0	100.0
Retail Sales Revenue (million 2002 dollars)							
Residential	1,584	1,616	2,018	2.7	43.1	44.1	45.5
Commercial	979	1,063	1,485	4.7	26.6	29.0	33.5
Industrial	976	833	770	–2.6	26.5	22.8	17.4
Other	136	151	160	1.8	3.7	4.1	3.6
Total	3,674	3,663	4,433	2.1	100.0	100.0	100.0
Average Revenue per Kilowatthour (2002 cents/kWh)							
Residential	5.12	5.09	6.29	2.3	NA	NA	NA
Commercial	5.01	4.93	6.11	2.2	NA	NA	NA
Industrial	2.67	2.66	4.56	6.1	NA	NA	NA
Other	3.94	4.17	4.94	2.6	NA	NA	NA
Total	4.06	4.15	5.80	4.0	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
Washington						
Number of Entities	1	49	0	13	3	66
Number of Retail Customers	950,043	1,780,677	0	107,196	6	2,837,922
Retail Sales (thousand megawatthours)	19,254	53,531	0	2,619	1,088	76,492
Percentage of Retail Sales	25.17	69.98	.00	3.42	1.42	100.00
Revenue from Retail Sales (million 2002 dollars)	1,260	2,915	0	148	110	4,433
Percentage of Revenue	28.43	65.76	.00	3.34	2.47	100.00
Revenue per Kilowatthour (2002 cents/kWh)	6.55	5.45	.00	5.65	0	5.80

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 ‘‘*’’.)