Table 1. 2003 Summary Statistics

Item	Value	U.S. Rank
Washington		
NERC Region(s)		WECC
Primary Energy Source		Hydro
Net Summer Capability (megawatts)	27,689	11
Electric Utilities	24,216	4
Independent Power Producers & Combined Heat and Power	3,473	26
Net Generation (megawatthours)	100,094,691	13
Electric Utilities	82,205,391	12
Independent Power Producers & Combined Heat and Power	17,889,301	15
Emissions (thousand metric tons)		
Sulfur Dioxide	16	43
Nitrogen Oxide	26	39
Carbon Dioxide	14,984	39
Sulfur Dioxide (lbs/MWh)	.3	48
Nitrogen Oxide (lbs/MWh)	.6	47
Carbon Dioxide (lbs/MWh)	330	49
Total Retail Sales (megawatthours)	78,133,501	16
Full Service Provider Sales (megawatthours)	76,112,939	18
Deregulated Sales (megawatthours)	2,020,562	14
Direct Use (megawatthours)	1,392,566	26
Average Retail Price (cents/kWh)	5.86	41

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2003

Plant	Energy Sources	Operating Company	Net Summer 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 Generation	Petroleum, Gas, Coal	TransAlta Centralia Gen LLC	1,661
4. Rocky Reach	Hydro	PUD No 1 of Chelan County	1,279
5. Columbia Generating Station	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 Providers of Retail Electricity, 2003
(Megawatthours)

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
Washington						
1. Puget Sound Energy Inc.	Investor-Owned	19,591,637	9,873,840	8,331,965	1,385,832	0
2. Seattle City of	Public	8,905,944	2,942,881	4,771,046	1,149,914	42,103
3. PUD No 1 of Snohomish County	Public	6,064,884	3,073,454	2,124,000	867,430	0
4. Avista Corporation	Investor-Owned	5,116,904	2,263,661	2,041,675	811,568	0
5. PUD No 1 of Cowlitz County	Public	4,217,346	684,110	362,576	3,170,660	0
Total Sales, Top Five Providers		43,896,715	18,837,946	17,631,262	7,385,404	42,103
Percent of Total State Sales		56	59	63	41	100

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
Washington							
Electric Utilities	**24,255**	**25,235**	**24,216**	*****	**96.3**	**96.4**	**87.5**
Coal	1,390	1,390	0	NM	5.5	5.3	.0
Petroleum	88	62	39	–8.6	.3	.2	.1
Natural Gas	0	248	310	NM	.0	.9	1.1
Dual Fired	590	590	843	4.0	2.3	2.3	3.0
Nuclear	1,086	1,123	1,108	.2	4.3	4.3	4.0
Hydroelectric	20,740	21,479	21,408	.4	82.3	82.1	77.3
Other Renewables	47	83	194	17.1	.2	.3	.7
Pumped Storage	314	260	314	.0	1.2	1.0	1.1
Independent Power Producers and Combined Heat and Power	**934**	**932**	**3,473**	**15.7**	**3.7**	**3.6**	**12.5**
Coal	2	2	1,407	107.2	*	*	5.1
Natural Gas	422	525	938	9.3	1.7	2.0	3.4
Dual Fired	256	149	672	11.3	1.0	.6	2.4
Hydroelectric	93	100	48	–7.1	.4	.4	.2
Other Renewables	161	156	408	10.9	.6	.6	1.5
Total Electric Industry	**25,190**	**26,167**	**27,689**	**1.1**	**100.0**	**100.0**	**100.0**
Coal	1,392	1,392	1,407	.1	5.5	5.3	5.1
Petroleum	88	62	39	–8.6	.3	.2	.1
Natural Gas	423	773	1,247	12.8	1.7	3.0	4.5
Dual Fired	846	739	1,515	6.7	3.4	2.8	5.5
Nuclear	1,086	1,123	1,108	.2	4.3	4.3	4.0
Hydroelectric	20,833	21,579	21,457	.3	82.7	82.5	77.5
Other Renewables	208	239	602	12.5	.8	.9	2.2
Pumped Storage	314	260	314	.0	1.2	1.0	1.1

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	Percentage Share 1998	Percentage Share 2003
Washington							
Electric Utilities	**82,347,668**	**97,127,552**	**82,205,391**	*****	**93.0**	**95.1**	**82.1**
Coal	9,800,260	9,290,499	0	NM	11.1	9.1	.0
Petroleum	5,728	38,598	7,851	3.6	*	*	*
Natural Gas	206,234	1,135,268	2,256,386	30.5	.2	1.1	2.3
Nuclear	6,739,749	6,916,065	7,614,708	1.4	7.6	6.8	7.6
Hydroelectric	65,200,038	79,409,678	71,540,502	1.0	73.6	77.7	71.5
Other Renewables	395,659	337,444	789,237	8.0	.4	.3	.8
Pumped Storage	0	0	–3,293	NM	.0	.0	*
Independent Power Producers and Combined Heat and Power	**6,238,808**	**5,030,956**	**17,889,300**	**12.4**	**7.0**	**4.9**	**17.9**
Coal	31,072	21,706	11,089,796	92.1	*	*	11.1
Petroleum	39,691	48,445	58,741	4.5	*	*	.1
Natural Gas	4,614,348	3,211,081	4,826,219	.5	5.2	3.1	4.8
Other Gases	299,161	348,881	303,188	.1	.3	.3	.3
Hydroelectric	375,449	404,974	216,281	–5.9	.4	.4	.2
Other Renewables	847,805	994,328	1,395,075	5.7	1.0	1.0	1.4
Other	31,282	1,541	0	NM	*	*	.0
Total Electric Industry	**88,586,476**	**102,158,508**	**100,094,691**	**1.4**	**100.0**	**100.0**	**100.0**
Coal	9,831,332	9,312,205	11,089,796	1.3	11.1	9.1	11.1
Petroleum	45,419	87,043	66,592	4.3	.1	.1	.1
Natural Gas	4,820,582	4,346,349	7,082,605	4.4	5.4	4.3	7.1
Other Gases	299,161	348,881	303,188	.1	.3	.3	.3
Nuclear	6,739,749	6,916,065	7,614,708	1.4	7.6	6.8	7.6
Hydroelectric	65,575,487	79,814,652	71,756,783	1.0	74.0	78.1	71.7
Other Renewables	1,243,464	1,331,772	2,184,312	6.5	1.4	1.3	2.2
Pumped Storage	0	0	–3,293	NM	.0	.0	*
Other	31,282	1,541	0	NM	*	*	.0

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)
Washington				
Coal (cents per million Btu)	136.5	148.7	W	W
Average heat value (Btu per pound)	8,400	8,215	8,052	–0.5
Average sulfur Content (percent)	.6	.6	1.0	5.0
Petroleum (cents per million Btu)	472.0	405.3	W	W
Average heat value (Btu per gallon)	139,934	139,908	145,439	.4
Average sulfur Content (percent)	.3	.3	.3	–1.4
Natural Gas (cents per million Btu)	471.2	325.9	415.3	–1.4
Average heat value (Btu per cubic foot)	1,050	1,055	1,029	–.2

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)
Washington				
Sulfur Dioxide				
Coal	65	66	8	–20.2
Petroleum	1	1	1	–3.9
Natural Gas	*	—	*	3.2
Other	9	1	7	–3.1
Total	74	69	16	–15.8
Nitrogen Oxide				
Coal	61	22	19	–12.2
Petroleum	*	*	*	–3.1
Gas	3	5	4	4.8
Other	3	3	3	.5
Total	67	30	26	–9.9
Carbon Dioxide				
Coal	10,087	9,971	11,209	1.2
Petroleum	238	292	254	.7
Gas	3,167	2,952	3,425	.9
Geothermal	—	—	—	NM
Other	37	35	96	11.3
Total	13,528	13,251	14,984	1.1

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	Percentage Share 1998	Percentage Share 2003
Washington							
Retail Sales (thousand megawatthours)							
Residential	29,673	31,362	31,872	0.8	34.0	33.1	40.8
Commercial	19,752	22,248	28,039	4.0	22.7	23.4	35.9
Industrial	34,065	37,616	18,180	–6.7	39.1	39.6	23.3
Other	3,643	3,645	NA	NM	4.2	3.8	NA
Transportation	NA	NA	42	NM	NA	NA	*
Total	87,133	94,873	78,134	–1.2	100.0	100.0	100.0
Retail Revenue (million dollars)							
Residential	1,476	1,577	2,010	3.5	42.2	41.1	43.9
Commercial	932	1,071	1,701	6.9	26.6	27.9	37.1
Industrial	951	1,062	866	–1.0	27.2	27.6	18.9
Other	140	132	NA	NM	4.0	3.4	NA
Transportation	NA	NA	3	NM	NA	NA	.1
Total	3,499	3,841	4,580	3.0	100.0	100.0	100.0
Average Retail Price (cents/kWh)							
Residential	4.97	5.03	6.31	2.7	NA	NA	NA
Commercial	4.72	4.81	6.07	2.8	NA	NA	NA
Industrial	2.79	2.64	4.76	6.1	NA	NA	NA
Other	3.83	3.61	NA	NM	NA	NA	NA
Transportation	NA	NA	6.45	NM	NA	NA	NA
Total	4.02	4.03	5.86	4.3	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	
Washington								
Number of Entities	3	41	1	18	1	3	1	68
Number of Retail Customers	1,302,818	1,446,284	9	145,935	1	16	NA	2,895,063
Retail Sales (thousand megawatthours)	28,853	42,202	1,434	3,616	9	2,021	NA	78,134
Percentage of Retail Sales	36.93	54.01	1.83	4.63	.01	2.59	NA	100.00
Revenue from Retail Sales (million dollars)	1,793	2,357	47	200	*	171	12	4,580
Percentage of Revenue	39.15	51.45	1.04	4.37	*	3.74	.25	100.00
Average Retail Price (cents/kWh)	6.22	5.58	3.31	5.53	2.50	8.47	.57	5.86

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.