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Washington State Electric Utility Fuel Mix Disclosure Reports For Calendar Year 2014

December 2015
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Acknowledgements

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Table of Contents

Forward	1
Washington State Electric Utilities: 2014 Graphs and Tables.....	4
Washington State Electric Utilities: Primary Emissions.....	8
Alder Mutual Light.....	14
Avista.....	17
Benton Rural Electric Association.....	22
Big Bend Electric Cooperative	25
Chewelah Light Department	28
City of Blaine	31
City of Centralia	34
City of Cheney	37
City of Ellensburg	40
City of Milton.....	43
City of Port Angeles.....	46
City of Richland	49
City of Sumas	52
Clearwater Power	55
Columbia Rural Electric Association.....	58
Coulee Dam Light Department	61
Elmhurst Mutual Power & Light	64
Inland Power & Light.....	67
Lakeview Light & Power	72
McCleary Light & Power	75
Modern Electric Hydro	78
Nespelem Valley Electric Cooperative.....	81

Northern Lights	84
Ohop Mutual Light	87
Okanogan County Electric Cooperative.....	90
Orcas Power & Light Cooperative	93
Pacific Power & Light.....	96
Parkland Light & Hydro.....	98
Peninsula Light.....	102
Port of Seattle.....	106
PUD No 1 of Asotin County	109
PUD No 1 of Benton County.....	112
PUD No 1 of Chelan County.....	116
PUD No 1 of Clallam County	119
PUD No 1 of Clark County.....	122
PUD No 1 of Cowlitz County.....	125
PUD No 1 of Douglas County	129
PUD No 1 of Ferry County.....	132
PUD No 1 of Franklin County	135
PUD No 1 of Grays Harbor County.....	139
PUD No 1 of Jefferson County	142
PUD No 1 of Kittitas County	145
PUD No 1 of Klickitat County	148
PUD No 1 of Lewis County	152
PUD No 1 of Mason County	156
PUD No 1 of Okanogan County.....	159
PUD No 1 of Pend Oreille County.....	163
PUD No 1 of Skamania County	166

PUD No 1 of Snohomish County	169
PUD No 1 of Wahkiakum County.....	173
PUD No 1 of Whatcom County.....	176
PUD No 2 of Grant County	179
PUD No 2 of Pacific County.....	183
PUD No 3 of Mason County	186
Puget Sound Energy.....	190
Ruston Electric Utility.....	197
Seattle City Light	200
Tacoma Power	205
Tanner Electric Cooperative	210
Town of Eatonville	213
Town of Steilacoom	216
Vera Water & Power.....	219
Yakama Power	222

Forward

The Washington State Fuel Mix Disclosure process is designed to provide utilities an assessment of their mix of fuel sources associated with the generation of the electricity used to serve their customer demand. The data supporting the process includes tabulated datasets from utilities and public agencies, as well as manually entered data.

If you have any questions about the information contained in this report, contact our office at 360-725-3120.

About the Washington State Electric Utilities Fuel Mix

The Fuel Mix Disclosure Law, RCW 19.29A, requires Washington State utilities to report to electricity consumers the sources of power they use to serve them. The law defines how the utility 'fuel mix' should be calculated, which fuel categories to use, and how utilities should share this information with customers. The Department of Commerce (hereafter, Commerce) collects the data supporting this effort; the fuel mix values and associated carbon dioxide emissions are calculated and summarized for utility and state level mix information.

How is a utility's fuel mix determined?

The objective of the fuel mix disclosure process is to assign fuel type and emissions information to all of the power each utility claims in the reporting process. Power serving Washington utilities comes from three sources: 1) specific power plants, 2) Bonneville Power Administration (BPA), and 3) the spot market.

In order to build a fuel mix picture for each, utility claims are assessed by type. Claims for power from specific plants receive the mix of the fuels used by that plant. Claims for power from BPA are connected with these plants and associated sources from which BPA acquired power over the preceding year. Claims to power from the spot market are assigned an estimated mix of fuels based upon a calculation of the power remaining, or unclaimed power, on the grid after specific plant claims have been removed.



The power grid, in this case, is defined as the electricity generated within the Northwest Power Pool. The Northwest Power Pool (NWPP) includes Washington, Oregon, Idaho, Utah, and parts of California, Montana, Wyoming and Nevada. It is assumed that power generated by plants in the pool serves customers residing in the pool.

The equation for determining the NWPP Net System Power is: System Power Generated in the NWPP minus Power Claimed from Specific Plant Sources equals the remaining power. The specific fuel sources for the Net System Power in the NWPP region are identified and are used to determine a NWPP Net System Fuel Mix.



After the NWPP Net System Fuel Mix value has been calculated, it is assigned to all utility claims of spot market purchases.

How is information presented in this report?

State level fuel mix information, expressed as power, fuel type and emissions, is presented first. The state level information is the aggregate of all of the calculated individual utility fuel mix values. The Northwest Power Pool Net System Mix information is described next and details the market power component of the state fuel mix. Following these tables and figures is a full description of the fuel mix for each electric utility in the State.

Notes

- Several utilities submitted late, but minor, changes to Commerce for the 2014 Fuel Mix Disclosure report. In addition, Commerce made some changes to the categorization of certain electric power sales. These changes were made after the analytical work for 2015 FMD had been completed. Since the 2014 FMD report was already delayed Commerce elected to adjust the utility level reports to account for the changes, but did not adjust the aggregate utility numbers in Figure 1 and Table 1. The error resulting at the aggregate level due to the late changes are less than 0.1 percent.
- Under the Fuel Mix Disclosure Law, cogeneration is a voluntary subcategory for natural gas. Therefore, “Cogeneration” is incorporated into “Natural Gas” for aggregate reporting.
- For the 2014 calendar year, the “Other” category consists of biogas from on-farm anaerobic digesters and wastewater treatment facilities.
- The “Waste” category applies primarily to incineration of municipal solid waste. Historically, it has also applied to combustion of pulping liquids in pulp and paper mills.

Glossary

- “Claims on Resources” refers to power obtained from specific generation facilities, with fuel source information obtained from the US Energy Information Administration.
- “Market Purchases” refers to power obtained without known (specified) fuel sources. Commerce calculates and assigns a fuel mix to power obtained on the market.

- “BPA Resource Mix” includes only the portion of delivered BPA power that can be attributed to specific plants. The portion of BPA power that cannot be connected with a specified plant or fuel source is featured in the “Market Purchases” table.
- “BPA Markets” are the portion of delivered BPA power that BPA purchased on the market and/or from another system without knowledge of specific plant or fuel sources.
- “BPA Slice Wind w/o RECs” includes a small amount of wind power that is not bundled with the Renewable Energy Credits (RECs) associated with that power. Such power is assigned the net system fuel mix, as though it were a market purchase.

Washington State Electric Utilities: 2014 Graphs and Tables

Washington State Aggregate Fuel Mix

The Washington “fuel mix” is the aggregate of fuel sources associated with the electricity delivered by all electric utilities to end users in the state of Washington, including Bonneville Power Administration’s direct electricity sales. It includes all electric power that is used to serve retail customers that is owned, purchased under contract, or purchased on the spot market.

Figure 1: Washington State Electric Utilities: Aggregate Fuel Mix 2014

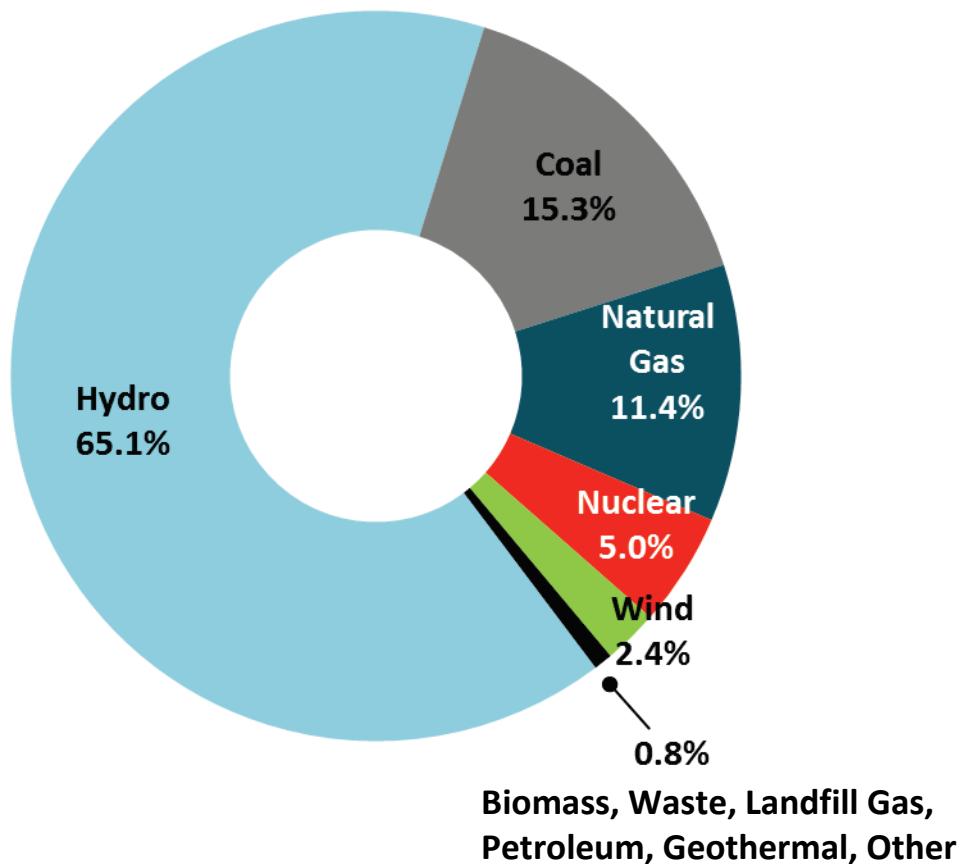


Table 1: Washington State Electric Utilities: Aggregate Fuel Mix 2014

Fuel Type	Unspecified Power (MWh)	Specified Power (MWh)	Total (MWh)	Percent
Hydro	5,886,295	53,837,510	59,723,805	65.07%
Coal	5,674,959	8,351,580	14,026,540	15.28%
Natural Gas	2,261,796	8,180,687	10,442,484	11.38%
Nuclear	359,643	4,257,748	4,617,391	5.03%
Wind	0	2,219,613	2,219,613	2.42%
Biomass	126,398	174,018	300,416	0.33%
Waste	111,268	92,692	203,960	0.22%
Landfill Gas	31,789	72,643	104,431	0.11%
Other	31,113	28,851	59,964	0.07%
Petroleum	40,876	18,799	59,674	0.07%
Geothermal	0	17,911	17,911	0.02%
Solar	0	6,618	6,618	0.01%
Total	14,524,138	77,258,670	91,782,808	

Figure 2: Washington State Electric Utilities: Aggregate Fuel Mix 2000-2014 (Megawatt-hours)

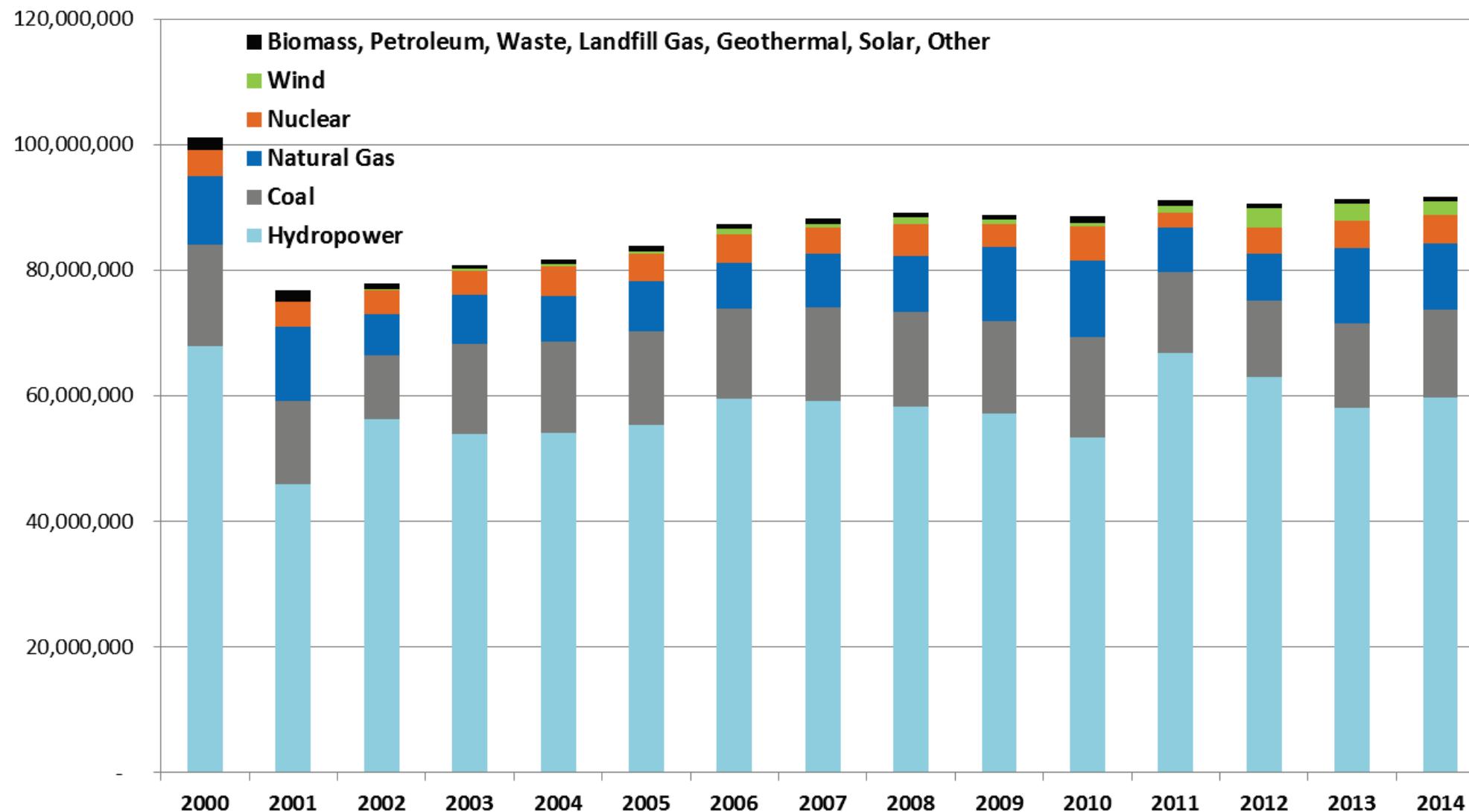


Table 2: Washington State Electric Utilities: Aggregate Fuel Mix 2000-2014 (Megawatt-hours)

Fuel Source	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Hydropower	67,889,834	45,853,455	56,339,641	53,850,478	54,132,176	55,342,273	59,609,529	59,203,647	58,235,550	57,214,771	53,412,121	66,847,397	62,984,536	58,074,493	59,723,805
Coal	16,243,438	13,247,976	10,076,412	14,336,264	14,459,001	14,860,017	14,245,188	14,866,637	15,034,912	14,672,973	15,955,168	12,900,636	12,149,258	13,519,852	14,026,540
Natural Gas	10,771,994	11,863,293	6,606,079	7,961,221	7,379,356	7,986,135	7,319,961	8,459,744	9,021,054	11,846,700	12,207,985	7,003,278	7,439,486	11,949,790	10,442,484
Nuclear	4,285,939	3,975,371	3,858,716	3,726,175	4,591,072	4,403,537	4,513,216	4,326,265	5,083,665	3,653,541	5,430,617	2,390,245	4,239,398	4,247,504	4,617,391
Wind	0	23,822	163,134	320,540	346,470	432,667	867,392	545,622	1,010,928	587,994	567,281	1,017,702	3,011,137	2,859,415	2,219,613
Biomass	1,100,469	937,515	392,378	434,700	536,643	587,085	392,712	460,983	415,226	445,076	492,371	446,890	310,812	260,972	300,416
Waste	159,888	236,666	23,471	139,056	102,864	150,955	331,963	288,528	276,669	296,180	332,719	336,948	303,066	221,914	203,960
Landfill Gas	68,978	70,807	220,705	75,125	134,122	80,500	57,858	49,041	23,043	16,058	18,787	49,209	83,665	60,741	104,431
Other	0	0	233,995	6,991	37,379	31,156	10,863	12,923	19,391	28,650	28,504	27,307	36,396	39,528	59,964
Petroleum	401,383	489,650	22,244	34,957	53,046	44,233	62,232	69,267	69,937	94,360	81,372	68,539	67,580	64,611	59,674
Geothermal	143,024	158,779	0	0	0	0	14,399	11,189	16,866	19,237	17,376	18,107	17,003	16,138	17,911
Solar	0	0	0	0	0	0	0	0	0	0	0	0	1,433	1,709	6,618
Total	101,064,948	76,857,334	77,936,775	80,885,507	81,772,127	83,918,558	87,425,313	88,293,846	89,207,239	88,875,541	88,544,303	91,106,257	90,643,771	91,316,669	91,782,808

Washington State Electric Utilities: Primary Emissions

Figure 3: Washington State Electric Utilities: Aggregate Carbon Dioxide Emissions 2014

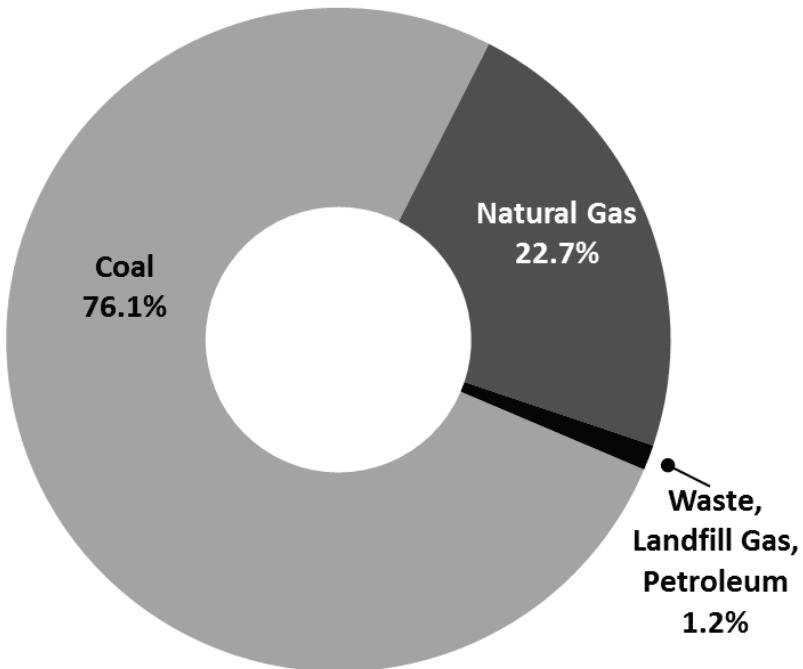


Table 3: Washington State Electric Utilities: Aggregate Primary Emissions 2014

Carbon Dioxide Emissions	Short Tons	Metric Tons
Coal	15,388,817	13,960,500
Natural Gas	4,585,795	4,160,164
Waste	104,993	95,248
Landfill Gas	75,498	68,490
Petroleum	66,775	60,577
Total	20,221,878	18,344,979
Other Emissions	Short Tons	Metric Tons
Sulfur Dioxide	12,336	11,191
Nitrogen Oxides	18,568	16,845
	Pounds	
Mercury	545	

Figure 4: Washington State Electric Utilities: Aggregate Primary Emissions 2005-2014 (short tons)

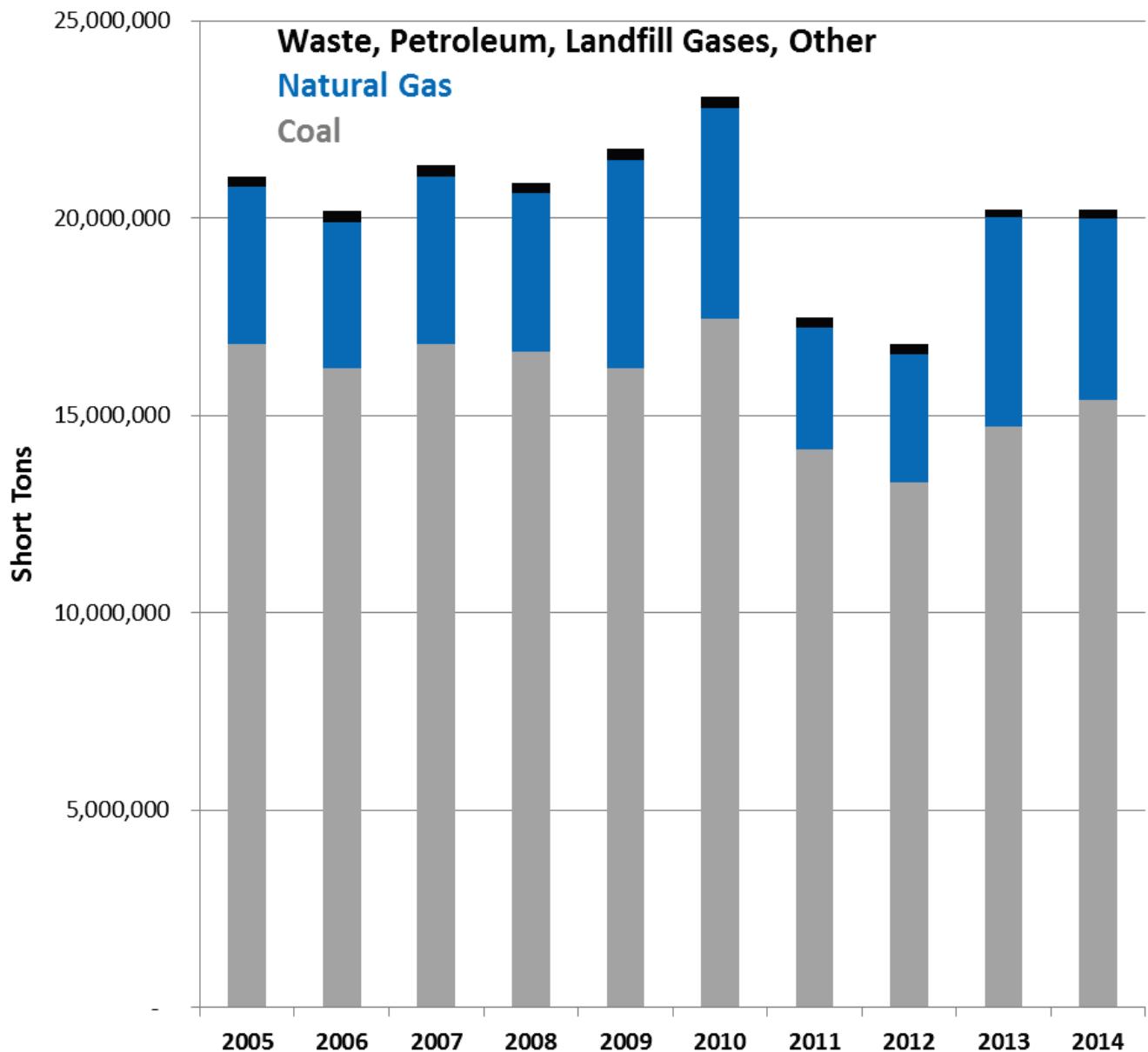


Table 4: Washington State Electric Utilities: Aggregate Carbon Dioxide Emissions 2005-2014

Short Tons	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Coal	16,801,894	16,192,193	16,807,612	16,623,196	16,184,895	17,446,655	14,131,168	13,315,348	14,707,901	15,388,817
Natural Gas	3,983,081	3,690,128	4,231,567	3,999,440	5,294,879	5,332,433	3,081,956	3,246,821	5,306,865	4,585,795
Waste	235,470	132,414	133,872	122,435	128,390	139,575	146,863	101,208	80,093	104,993
Landfill Gas	0	33,923	28,215	14,342	10,016	10,694	33,894	57,696	43,376	75,498
Petroleum	40,411	93,863	105,428	111,529	133,445	120,419	76,738	75,656	74,618	66,775
Other	0	3,631	4,959	0	0	0	0	0	0	0
Total	21,060,856	20,146,152	21,311,653	20,870,942	21,751,625	23,049,776	17,470,620	16,796,729	20,212,853	20,221,878

Metric Tons	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Coal	15,242,409	14,689,298	15,247,597	15,080,297	14,682,678	15,827,326	12,819,569	12,079,471	13,342,784	13,960,488
Natural Gas	3,613,387	3,347,625	3,838,810	3,628,228	4,803,430	4,837,498	2,795,902	2,945,464	4,814,307	4,160,160
Waste	213,615	120,124	121,447	111,071	116,473	126,620	133,232	91,814	72,659	95,248
Landfill Gas	0	30,774	25,596	13,011	9,086	9,701	30,748	52,341	39,350	68,490
Petroleum	36,660	85,151	95,643	101,177	121,059	109,242	69,616	68,634	67,693	60,577
Other	0	3,294	4,499	0	0	0	0	0	0	0
Total	19,108,077	18,276,267	19,333,591	18,933,785	19,732,726	20,910,388	15,849,067	15,237,724	18,336,793	18,344,964

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Northwest Power Pool Net System Fuel Mix

The Northwest Power Pool (NWPP) Net System Fuel Mix, also referred to as the Spot Market Fuel Mix, is the calculated mix of fuels present in the electricity spot market and available for purchase throughout the year. The NWPP includes power generated from Washington, Oregon, Idaho, Utah, and parts of California, Montana, Wyoming and Nevada.

Figure 5: Northwest Power Pool Net System Fuel Mix: Spot Market Purchases 2014

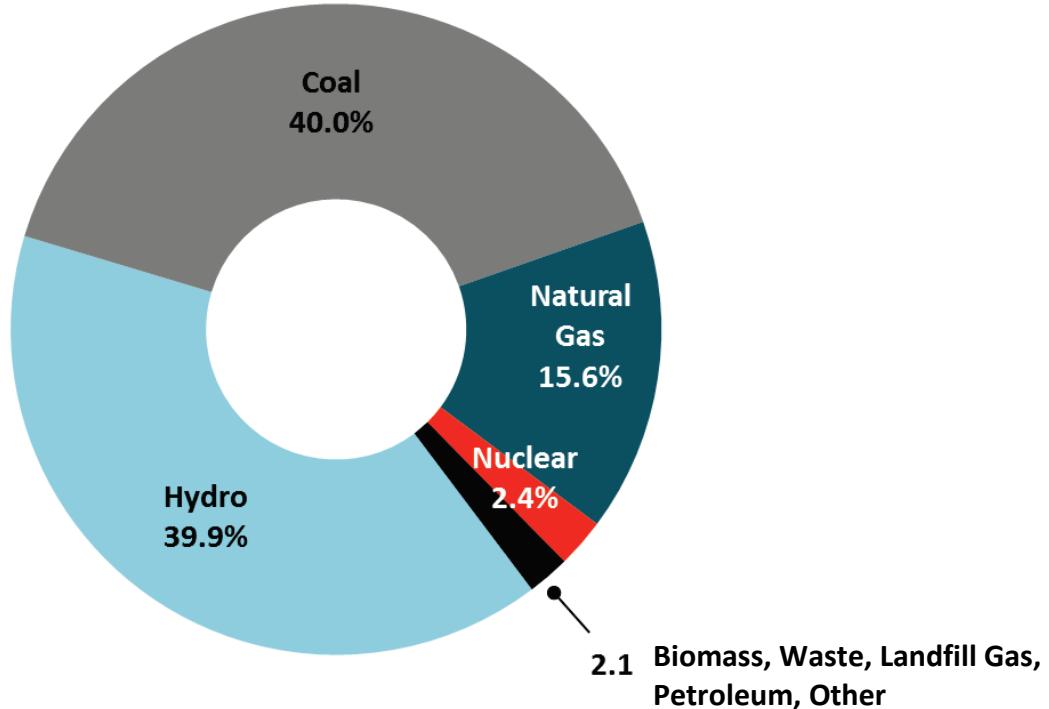


Table 5: Northwest Power Pool Net System Fuel Mix: Spot Market Purchases 2014

Fuel	Megawatt Hours	Percent
Hydropower	62,519,043	39.9%
Coal	62,649,725	40.0%
Natural Gas	24,377,066	15.6%
Nuclear	3,805,128	2.4%
Biomass	1,355,854	0.9%
Waste	1,177,969	0.8%
Landfill Gas	338,261	0.2%
Other	333,885	0.2%
Petroleum	76,914	<0.1%
Geothermal	-	0.0%
Solar	-	0.0%
Wind	-	0.0%
Total	156,633,846	

Figure 6: Northwest Power Pool Net System Fuel Mix: Carbon Dioxide Emissions 2014

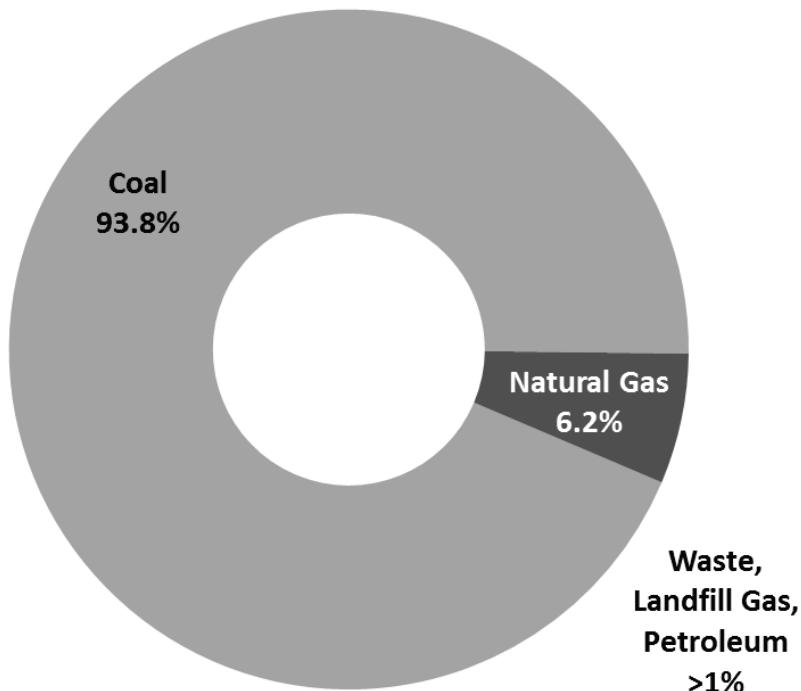


Table 6: Northwest Power Pool Net System Fuel Mix: Primary Emissions 2014

Carbon Dioxide Emissions	Short Tons	Metric Tons
Coal	51,151,050	46,403,452
Natural Gas	3,374,891	3,061,650
Waste	3,310	3,003
Landfill Gas	1,052	954
Petroleum	48	44
Total	54,530,352	49,469,103
Other Emissions	Short Tons	Metric Tons
Sulfur Dioxide	63,343	57,463
Nitrogen Oxides	89,131	80,858
	Pounds	
Mercury	1,994	

Alder Mutual Light

Fuel Mix

Biomass	0%
Coal	2%
Cogeneration	0%
Geothermal	0%
Hydro	86%
Landfill Gas	0%
Natural Gas	1%
Nuclear	11%
Other	0%
Petroleum	0%
Solar	0%
Waste	0%
Wind	0%
Total	100%

Alder Mutual Light

Fuel Mix Detail

<u>Fuel</u>	MWh from Market Purchases	MWh from Claims on Resources	Total	Percent
Biomass	2.046	2.428	4.474	0.10%
Coal	93.930	0.000	93.930	2.03%
Cogeneration	0.000	0.000	0.000	0.00%
Geothermal	0.000	0.000	0.000	0.00%
Hydro	94.334	3,895.896	3,990.230	86.23%
Landfill Gas	0.510	0.000	0.510	0.01%
Natural Gas	36.782	3.463	40.245	0.87%
Nuclear	5.741	488.776	494.517	10.69%
Other	0.504	0.000	0.504	0.01%
Petroleum	0.718	0.323	1.041	0.02%
Solar	0.000	0.000	0.000	0.00%
Waste	1.777	0.346	2.124	0.05%
Wind	0.000	0.000	0.000	0.00%
Total	236.342	4,391.232	4,627.574	100.00%

Alder Mutual Light

Claims on BPA

BPA Resource Mix	4,391.232
Biomass	2.428
Natural Gas	3.463
Nuclear	488.776
Petroleum (heavy oil)	0.323
Waste	0.346
Hydro	3,895.896

Market Purchases

Total Market Purchases	236.342
BPA Market Purchases	236.342

Avista

Fuel Mix

Biomass	2%
Coal	21%
Cogeneration	0%
Geothermal	0%
Hydro	40%
Landfill Gas	0%
Natural Gas	31%
Nuclear	0%
Other	0%
Petroleum	0%
Solar	0%
Waste	2%
Wind	4%
Total	100%

Avista

Fuel Mix Detail

Fuel	MWh from Market Purchases	MWh from Claims on Resources	Total	Percent
Biomass	7,520.526	96,212.065	103,732.591	1.70%
Coal	345,288.680	958,517.318	1,303,805.998	21.33%
Cogeneration	0.000	0.000	0.000	0.00%
Geothermal	0.000	0.000	0.000	0.00%
Hydro	346,774.793	2,094,783.000	2,441,557.793	39.95%
Landfill Gas	1,876.237	1,540.000	3,416.237	0.06%
Natural Gas	135,212.435	1,783,688.935	1,918,901.369	31.40%
Nuclear	21,105.929	0.000	21,105.929	0.35%
Other	1,851.963	0.000	1,851.963	0.03%
Petroleum	2,637.576	1,004.682	3,642.258	0.06%
Solar	0.000	0.000	0.000	0.00%
Waste	6,533.849	86,986.000	93,519.849	1.53%
Wind	0.000	219,750.000	219,750.000	3.60%
Total	868,801.987	5,242,482.000	6,111,283.987	100.00%

Avista

Claims on Plants

Noxon Rapids	Claim Type: Hydro	Plant Mix 588,878.000	588,878.000
Little Falls	Claim Type: Hydro	Plant Mix 127,806.000	127,806.000
Long Lake	Claim Type: Hydro	Plant Mix 312,260.000	312,260.000
Meyers Falls	Claim Type: Hydro	Plant Mix 5,985.000	5,985.000
Nine Mile	Claim Type: Hydro	Plant Mix 16,645.000	16,645.000
Rocky Reach	Claim Type: Hydro	Plant Mix 172,332.000	172,332.000
Wells	Claim Type: Hydro	Plant Mix 228,092.000	228,092.000
Priest Rapids	Claim Type: Hydro	Plant Mix 174,409.000	174,409.000
Sheep Creek	Claim Type: Hydro	Plant Mix 4,731.000	4,731.000

Avista

Upriver Dam	Claim Type: Hydro	Plant Mix	30,332.000
Wheelabrator	Claim Type: Waste	Plant Mix	86,986.000
Kettle Falls	Claim Type: Natural Gas Biomass	Plant Mix	77,610.000
Plummer Sawmill	Claim Type: Biomass	Cogen	19,866.000
Rathdrum	Claim Type: Natural Gas	Plant Mix	783,196.000
Palouse	Claim Type: Wind	Plant Mix	219,750.000
Fighting Creek	Claim Type: Landfill Gas	Plant Mix	1,540.000
Colstrip	Claim Type: Coal (bituminous) Petroleum (light oil) Petroleum (heavy oil)	Plant Mix	959,522.000
Northeast	Claim Type: Natural Gas	Plant Mix	1,593.000

Avista

Rathdrum	Claim Type: Natural Gas	Plant Mix	8,382.000 8,382.000
Coyote Springs II	Claim Type: Natural Gas	Plant Mix	979,547.000 979,547.000
Boulder Park	Claim Type: Natural Gas	Plant Mix	9,707.000 9,707.000
Cabinet Gorge	Claim Type: Hydro	Plant Mix	357,408.000 357,408.000
Post Falls	Claim Type: Hydro	Plant Mix	25,096.000 25,096.000
Monroe Street	Claim Type: Hydro	Plant Mix	30,752.000 30,752.000
Upper Falls	Claim Type: Hydro	Plant Mix	20,057.000 20,057.000

Market Purchases

Total Market Purchases	868,802.000
Utility Market Purchase	868,802.000

Benton Rural Electric Association

Fuel Mix

Biomass	0%
Coal	3%
Cogeneration	0%
Geothermal	0%
Hydro	85%
Landfill Gas	0%
Natural Gas	1%
Nuclear	10%
Other	0%
Petroleum	0%
Solar	0%
Waste	0%
Wind	0%
Total	100%

Benton Rural Electric Association

Fuel Mix Detail

<u>Fuel</u>	MWh from Market Purchases	MWh from Claims on Resources	Total	Percent
Biomass	391.707	312.725	704.432	0.12%
Coal	18,099.559	0.00	18,099.559	2.96%
Cogeneration	0.00	0.00	0.00	0.00%
Geothermal	0.00	0.00	0.00	0.00%
Hydro	18,061.80	501,788.448	519,850.253	85.10%
Landfill Gas	97.724	0.00	97.724	0.02%
Natural Gas	7,042.555	446.032	7,488.587	1.23%
Nuclear	1,099.305	62,953.978	64,053.283	10.49%
Other	96.460	0.00	96.460	0.02%
Petroleum	22.221	41.602	63.823	0.01%
Solar	0.00	0.00	0.00	0.00%
Waste	340.316	44.565	384.881	0.06%
Wind	0.00	0.00	0.00	0.00%
Total	45,251.651	565,587.349	610,839.000	100.00%

Benton Rural Electric Association

Claims on BPA

BPA Resource Mix	565,587.35
Biomass	312.72
Natural Gas	446.03
Nuclear	62,953.98
Petroleum (heavy oil)	41.60
Waste	44.56
Hydro	501,788.45

Market Purchases

Total Market Purchases	45,251.65
BPA Market Purchase	30,441
Utility Market Purchase	14,811

Big Bend Electric Cooperative

Fuel Mix

Biomass	0%
Coal	3%
Cogeneration	0%
Geothermal	0%
Hydro	85%
Landfill Gas	0%
Natural Gas	1%
Nuclear	11%
Other	0%
Petroleum	0%
Solar	0%
Waste	0%
Wind	0%
Total	100%

Big Bend Electric Cooperative

Fuel Mix Detail

<u>Fuel</u>	MWh from Market Purchases	MWh from Claims on Resources	Total	Percent
Biomass	342.336	295.164	637.499	0.11%
Coal	15,717.608	0.000	15,717.608	2.74%
Cogeneration	0.000	0.000	0.000	0.00%
Geothermal	0.000	0.000	0.000	0.00%
Hydro	15,785.256	473,557.393	489,342.649	85.35%
Landfill Gas	85.407	0.000	85.407	0.01%
Natural Gas	6,154.896	420.901	6,575.798	1.15%
Nuclear	960.746	59,412.108	60,372.854	10.53%
Other	84.302	0.000	84.302	0.01%
Petroleum	120.063	39.303	159.366	0.03%
Solar	0.000	0.000	0.000	0.00%
Waste	297.422	42.095	339.518	0.06%
Wind	0.000	0.000	0.000	0.00%
Total	39,548.036	533,766.964	573,314.999	100.00%

Big Bend Electric Cooperative

Claims on BPA

BPA Resource Mix	533,766.964
Biomass	295.164
Natural Gas	420.901
Nuclear	59,412.108
Petroleum (heavy oil)	39.303
Waste	42.095
Hydro	473,557.393

Market Purchases

Total Market Purchases	39,548.036
BPA Market Purchase	28,728.036
Utility Market Purchase	10,820.000

Chewelah Light Department

Fuel Mix

Biomass	0%
Coal	2%
Cogeneration	0%
Geothermal	0%
Hydro	86%
Landfill Gas	0%
Natural Gas	1%
Nuclear	11%
Other	0%
Petroleum	0%
Solar	0%
Waste	0%
Wind	0%
Total	100%

Chewelah Light Department

Fuel Mix Detail

<u>Fuel</u>	MWh from Market Purchases	MWh from Claims on Resources	Total	Percent
Biomass	8.553	13.207	21.760	0.10%
Coal	457.329	0.000	457.329	2.03%
Cogeneration	0.000	0.000	0.000	0.00%
Geothermal	0.000	0.000	0.000	0.00%
Hydro	459.297	18,968.537	19,427.835	86.23%
Landfill Gas	2.485	0.000	2.485	0.01%
Natural Gas	179.087	16.859	195.946	0.87%
Nuclear	27.954	2,379.777	2,407.731	10.69%
Other	2.453	0.000	2.453	0.01%
Petroleum	3.493	1.574	5.068	0.02%
Solar	0.000	0.000	0.000	0.00%
Waste	8.654	1.686	10.340	0.05%
Wind	0.000	0.000	0.000	0.00%
Total	1,150.713	21,380.257	22,530.970	100.00%

Chewelah Light Department

Claims on BPA

BPA Resource Mix	21,380.257
Biomass	11.823
Natural Gas	16.859
Nuclear	2,379.777
Petroleum (heavy oil)	1.574
Waste	1.686
Hydro	18,968.537

Market Purchases

Total Market Purchases	1,150.713
BPA Market Purchase	1,150.713

City of Blaine

Fuel Mix

Biomass	0%
Coal	2%
Cogeneration	0%
Geothermal	0%
Hydro	86%
Landfill Gas	0%
Natural Gas	1%
Nuclear	11%
Other	0%
Petroleum	0%
Solar	0%
Waste	0%
Wind	0%
Total	100%

City of Blaine

Fuel Mix Detail

<u>Fuel</u>	MWh from Market Purchases	MWh from Claims on Resources	Total	Percent
Biomass	34.771	41.271	76.042	0.10%
Coal	1,596.438	0.000	1,596.438	2.03%
Cogeneration	0.000	0.000	0.000	0.00%
Geothermal	0.000	0.000	0.000	0.00%
Hydro	1,603.309	66,215.124	67,818.433	86.23%
Landfill Gas	8.675	0.000	8.675	0.01%
Natural Gas	625.153	58.852	684.006	0.87%
Nuclear	97.583	8,307.293	8,404.876	10.69%
Other	8.563	0.000	8.563	0.01%
Petroleum	12.195	5.496	17.690	0.02%
Solar	0.000	0.000	0.000	0.00%
Waste	30.209	5.886	36.095	0.05%
Wind	0.000	0.000	0.000	0.00%
Total	4,016.895	74,633.923	78,650.818	100.00%

City of Blaine

Claims on BPA

BPA Resource Mix	74,633.923
Biomass	41.271
Natural Gas	58.852
Nuclear	8,307.293
Petroleum (heavy oil)	5.496
Waste	5.886
Hydro	66,215.124

Market Purchases

Total Market Purchases	4,016.895
BPA Market Purchase	4,016.895

City of Centralia

Fuel Mix

Biomass	0%
Coal	3%
Cogeneration	0%
Geothermal	0%
Hydro	88%
Landfill Gas	0%
Natural Gas	1%
Nuclear	8%
Other	0%
Petroleum	0%
Solar	0%
Waste	0%
Wind	0%
Total	100%

City of Centralia

Fuel Mix Detail

Fuel	MWh from Market Purchases	MWh from Claims on Resources	Total	Percent
Biomass	146.857	106.181	253.037	0.10%
Coal	6,742.602	0.000	6,742.602	2.55%
Cogeneration	0.000	0.000	0.000	0.00%
Geothermal	0.000	0.000	0.000	0.00%
Hydro	6,771.622	225,682.052	232,453.673	87.95%
Landfill Gas	36.638	0.000	36.638	0.01%
Natural Gas	2,640.352	151.413	2,791.765	1.06%
Nuclear	412.145	21,372.600	21,784.745	8.24%
Other	36.164	0.000	36.164	0.01%
Petroleum	51.505	14.139	65.644	0.02%
Solar	0.000	0.000	0.000	0.00%
Waste	127.589	15.143	142.733	0.05%
Wind	0.000	0.000	0.000	0.00%
Total	16,965.473	247,341.527	264,307.000	100.00%

City of Centralia

Claims on Plants

Yelm	Claim Type: Plant Mix	55,327.000
	Hydro	55,327.000

Claims on BPA

BPA Resource Mix	192,014.527
Biomass	106.181
Natural Gas	151.413
Nuclear	21,372.600
Petroleum (heavy oil)	14.139
Waste	15.143
Hydro	170,355.052

Market Purchases

Total Market Purchases	16,965.473
BPA Market Purchase	10,334.473
Utility Market Purchase	6,631.000

City of Cheney

Fuel Mix

Biomass	0%
Coal	4%
Cogeneration	0%
Geothermal	0%
Hydro	84%
Landfill Gas	0%
Natural Gas	2%
Nuclear	10%
Other	0%
Petroleum	0%
Solar	0%
Waste	0%
Wind	0%
Total	100%

City of Cheney

Fuel Mix Detail

Fuel	MWh from Market Purchases	MWh from Claims on Resources	Total	Percent
Biomass	137.160	75.027	212.188	0.14%
Coal	6,297.426	0.000	6,297.426	4.16%
Cogeneration	0.000	0.000	0.000	0.00%
Geothermal	0.000	0.000	0.000	0.00%
Hydro	6,324.530	120,372.875	126,697.405	83.62%
Landfill Gas	34.219	0.000	34.219	0.02%
Natural Gas	2,466.024	106.988	2,573.013	1.70%
Nuclear	384.933	15,101.879	15,486.812	10.22%
Other	33.776	0.000	33.776	0.02%
Petroleum	48.104	9.990	58.095	0.04%
Solar	0.000	0.000	0.000	0.00%
Waste	119.165	10.700	129.865	0.09%
Wind	0.000	0.000	0.000	0.00%
Total	15,845.338	135,677.460	151,522.798	100.00%

City of Cheney

Claims on BPA

BPA Resource Mix	135,677.460
Biomass	75.027
Natural Gas	106.988
Nuclear	15,101.879
Petroleum (heavy oil)	9.990
Waste	10.700
Hydro	120,372.875

Market Purchases

Total Market Purchases	15,845.338
BPA Market Purchase	7,302.338
Utility Market Purchase	8,543.000

City of Ellensburg

Fuel Mix

Biomass	0%
Coal	2%
Cogeneration	0%
Geothermal	0%
Hydro	86%
Landfill Gas	0%
Natural Gas	1%
Nuclear	11%
Other	0%
Petroleum	0%
Solar	0%
Waste	0%
Wind	0%
Total	100%

City of Ellensburg

Fuel Mix Detail

Fuel	MWh from Market Purchases	MWh from Claims on Resources	Total	Percent
Biomass	90.865	107.851	198.716	0.10%
Coal	4,171.864	0.000	4,171.864	2.03%
Cogeneration	0.000	0.000	0.000	0.00%
Geothermal	0.000	0.000	0.000	0.00%
Hydro	4,189.820	173,035.543	177,225.362	86.23%
Landfill Gas	22.669	0.000	22.669	0.01%
Natural Gas	1,633.670	153.795	1,787.466	0.87%
Nuclear	255.007	21,708.892	21,963.899	10.69%
Other	22.376	0.000	22.376	0.01%
Petroleum	31.868	14.361	46.229	0.02%
Solar	0.000	0.000	0.000	0.00%
Waste	78.944	15.381	94.325	0.05%
Wind	0.000	0.000	0.000	0.00%
Total	10,497.083	195,035.824	205,532.907	100.00%

City of Ellensburg

Claims on BPA

BPA Resource Mix	195,035.824
Biomass	107.851
Natural Gas	153.795
Nuclear	21,708.892
Petroleum (heavy oil)	14.361
Waste	15.381
Hydro	173,035.543

Market Purchases

Total Market Purchases	10,497.083
BPA Market Purchase	10,497.083

City of Milton

Fuel Mix

Biomass	0%
Coal	2%
Cogeneration	0%
Geothermal	0%
Hydro	86%
Landfill Gas	0%
Natural Gas	1%
Nuclear	11%
Other	0%
Petroleum	0%
Solar	0%
Waste	0%
Wind	0%
Total	100%

City of Milton

Fuel Mix Detail

Fuel	MWh from Market Purchases	MWh from Claims on Resources	Total	Percent
Biomass	25.748	30.562	56.310	0.10%
Coal	1,182.171	0.000	1,182.171	2.03%
Cogeneration	0.000	0.000	0.000	0.00%
Geothermal	0.000	0.000	0.000	0.00%
Hydro	1,187.259	49,032.652	50,219.911	86.23%
Landfill Gas	6.424	0.000	6.424	0.01%
Natural Gas	462.929	43.581	506.510	0.87%
Nuclear	72.261	6,151.595	6,223.856	10.69%
Other	6.341	0.000	6.341	0.01%
Petroleum	9.030	4.069	13.100	0.02%
Solar	0.000	0.000	0.000	0.00%
Waste	22.370	4.359	26.729	0.05%
Wind	0.000	0.000	0.000	0.00%
Total	2,974.532	55,266.818	58,241.350	100.00%

City of Milton

Claims on BPA

BPA Resource Mix	55,266.818
Biomass	30.562
Natural Gas	43.581
Nuclear	6,151.595
Petroleum (heavy oil)	4.069
Waste	4.359
Hydro	49,032.652

Market Purchases

Total Market Purchases	2,974.532
BPA Market Purchase	2,974.532

City of Port Angeles

Fuel Mix

Biomass	0%
Coal	2%
Cogeneration	0%
Geothermal	0%
Hydro	86%
Landfill Gas	0%
Natural Gas	1%
Nuclear	11%
Other	0%
Petroleum	0%
Solar	0%
Waste	0%
Wind	0%
Total	100%

City of Port Angeles

Fuel Mix Detail

Fuel	MWh from Market Purchases	MWh from Claims on Resources	Total	Percent
Biomass	298.298	354.062	652.360	0.10%
Coal	13,695.702	0.000	13,695.702	2.03%
Cogeneration	0.000	0.000	0.000	0.00%
Geothermal	0.000	0.000	0.000	0.00%
Hydro	13,754.648	568,053.788	581,808.437	86.23%
Landfill Gas	74.420	0.000	74.420	0.01%
Natural Gas	5,363.133	504.890	5,868.024	0.87%
Nuclear	837.156	71,267.545	72,104.701	10.69%
Other	73.457	0.000	73.457	0.01%
Petroleum	104.618	47.146	151.764	0.02%
Solar	0.000	0.000	0.000	0.00%
Waste	259.162	50.495	309.657	0.05%
Wind	0.000	0.000	0.000	0.00%
Total	34,460.595	640,277.927	674,738.522	100.00%

City of Port Angeles

Claims on BPA

BPA Resource Mix	640,277.927
Biomass	354.062
Natural Gas	504.890
Nuclear	71,267.545
Petroleum (heavy oil)	47.146
Waste	50.495
Hydro	568,053.788

Market Purchases

Total Market Purchases	34,460.596
BPA Market Purchase	34,460.596

City of Richland

Fuel Mix

Biomass	0%
Coal	3%
Cogeneration	0%
Geothermal	0%
Hydro	85%
Landfill Gas	0%
Natural Gas	1%
Nuclear	10%
Other	0%
Petroleum	0%
Solar	0%
Waste	0%
Wind	0%
Total	100%

City of Richland

Fuel Mix Detail

Fuel	MWh from Market Purchases	MWh from Claims on Resources	Total	Percent
Biomass	632.294	460.810	1,093.104	0.12%
Coal	29,030.428	0.000	29,030.428	3.20%
Cogeneration	0.000	0.000	0.000	0.00%
Geothermal	0.000	0.000	0.000	0.00%
Hydro	29,155.374	739,318.254	768,473.627	84.79%
Landfill Gas	157.746	0.000	157.746	0.02%
Natural Gas	11,368.096	657.112	12,025.207	1.33%
Nuclear	1,774.498	92,754.239	94,528.738	10.43%
Other	155.705	0.000	155.705	0.02%
Petroleum	221.756	61.360	283.116	0.03%
Solar	0.000	0.000	0.000	0.00%
Waste	549.339	65.719	615.058	0.07%
Wind	0.000	0.000	0.000	0.00%
Total	73,045.236	833,317.493	906,362.730	100.00%

City of Richland

Claims on BPA

BPA Resource Mix	833,317.493
Biomass	460.810
Natural Gas	657.112
Nuclear	92,754.239
Petroleum (heavy oil)	61.360
Waste	65.719
Hydro	739,318.254

Market Purchases

Total Market Purchases	73,045.238
BPA Market Purchase	44,850.238
Utility Market Purchase	28,195.000

City of Sumas

Fuel Mix

Biomass	0%
Coal	2%
Cogeneration	0%
Geothermal	0%
Hydro	86%
Landfill Gas	0%
Natural Gas	1%
Nuclear	11%
Other	0%
Petroleum	0%
Solar	0%
Waste	0%
Wind	0%
Total	100%

City of Sumas

Fuel Mix Detail

Fuel	MWh from Market Purchases	MWh from Claims on Resources	Total	Percent
Biomass	13.731	16.298	30.029	0.10%
Coal	630.433	0.000	630.433	2.03%
Cogeneration	0.000	0.000	0.000	0.00%
Geothermal	0.000	0.000	0.000	0.00%
Hydro	633.146	26,148.334	26,781.480	86.23%
Landfill Gas	3.426	0.000	3.426	0.01%
Natural Gas	246.873	23.241	270.114	0.87%
Nuclear	38.536	3,280.548	3,319.083	10.69%
Other	3.381	0.000	3.381	0.01%
Petroleum	4.816	2.170	6.986	0.02%
Solar	0.000	0.000	0.000	0.00%
Waste	11.930	2.324	14.254	0.05%
Wind	0.000	0.000	0.000	0.00%
Total	1,586.271	29,472.915	31,059.186	100.00%

City of Sumas

Claims on BPA

BPA Resource Mix	29,472.915
Biomass	16.298
Natural Gas	23.241
Nuclear	3,280.548
Petroleum (heavy oil)	2.170
Waste	2.324
Hydro	26,148.334

Market Purchases

Total Market Purchases	1,586.271
BPA Market Purchase	1,586.271

Clearwater Power

Fuel Mix

Biomass	0%
Coal	2%
Cogeneration	0%
Geothermal	0%
Hydro	86%
Landfill Gas	0%
Natural Gas	1%
Nuclear	11%
Other	0%
Petroleum	0%
Solar	0%
Waste	0%
Wind	0%
Total	100%

Clearwater Power

Fuel Mix Detail

Fuel	MWh from Market Purchases	MWh from Claims on Resources	Total	Percent
Biomass	9.298	11.035	20.332	0.10%
Coal	429.620	0.000	429.620	2.04%
Cogeneration	0.000	0.000	0.000	0.00%
Geothermal	0.000	0.000	0.000	0.00%
Hydro	428.724	17,717.706	18,146.429	86.23%
Landfill Gas	2.320	0.000	2.320	0.01%
Natural Gas	167.165	15.738	182.904	0.87%
Nuclear	26.094	2,221.366	2,247.459	10.68%
Other	2.290	0.000	2.290	0.01%
Petroleum	0.527	1.468	1.995	0.01%
Solar	0.000	0.000	0.000	0.00%
Waste	8.078	1.572	9.650	0.05%
Wind	0.000	0.000	0.000	0.00%
Total	1,074.115	19,968.885	21,043.076	100.00%

Clearwater Power

Claims on Plants

Twin Reservoirs	Claim Type:	Plant Mix	11.825
	Hydro		11.825

Claims on BPA

BPA Resource Mix	19,957.060
Biomass	11.035
Natural Gas	15.738
Nuclear	2,221.366
Petroleum (heavy oil)	1.468
Waste	1.572
Hydro	17,705.881

Market Purchases

Total Market Purchases	1,074.115
BPA Market Purchase	1,074.115

Columbia Rural Electric Association

Fuel Mix

Biomass	0%
Coal	2%
Cogeneration	0%
Geothermal	0%
Hydro	83%
Landfill Gas	0%
Natural Gas	5%
Nuclear	10%
Other	0%
Petroleum	0%
Solar	0%
Waste	0%
Wind	0%
Total	100%

Columbia Rural Electric Association

Fuel Mix Detail

Fuel	MWh from Market Purchases	MWh from Claims on Resources	Total	Percent
Biomass	148.904	176.741	325.645	0.09%
Coal	6,836.626	0.000	6,836.626	1.89%
Cogeneration	0.000	0.000	0.000	0.00%
Geothermal	0.000	0.000	0.000	0.00%
Hydro	6,866.051	295,386.324	302,252.375	83.38%
Landfill Gas	37.149	0.000	37.149	0.01%
Natural Gas	2,677.171	14,128.031	16,805.203	4.64%
Nuclear	417.892	35,575.363	35,993.254	9.93%
Other	36.668	0.000	36.668	0.01%
Petroleum	52.223	23.534	75.758	0.02%
Solar	0.000	0.000	0.000	0.00%
Waste	129.369	25.206	154.575	0.04%
Wind	0.000	0.000	0.000	0.00%
Total	17,202.054	345,315.200	362,517.254	100.00%

Columbia Rural Electric Association

Claims on Plants

Twin Reservoirs	Claim Type:	Plant Mix	11,825.000
	Hydro	11,825.000	
March Point	Claim Type:	Plant Mix	13,876.000
	Natural Gas	13,876.000	

Claims on BPA

BPA Resource Mix	319,614.200
Biomass	176.741
Natural Gas	252.031
Nuclear	35,575.363
Petroleum (heavy oil)	23.534
Waste	25.206
Hydro	283,561.324

Market Purchases

Total Market Purchases	17,202.054
BPA Market Purchase	17,202.054

Coulee Dam Light Department

Fuel Mix

Biomass	0%
Coal	2%
Cogeneration	0%
Geothermal	0%
Hydro	86%
Landfill Gas	0%
Natural Gas	1%
Nuclear	11%
Other	0%
Petroleum	0%
Solar	0%
Waste	0%
Wind	0%
Total	100%

Coulee Dam Light Department

Fuel Mix Detail

Fuel	MWh from Market Purchases	MWh from Claims on Resources	Total	Percent
Biomass	7.134	8.467	15.601	0.10%
Coal	327.524	0.000	327.524	2.03%
Cogeneration	0.000	0.000	0.000	0.00%
Geothermal	0.000	0.000	0.000	0.00%
Hydro	328.933	13,584.636	13,913.570	86.23%
Landfill Gas	1.780	0.000	1.780	0.01%
Natural Gas	128.256	12.074	140.330	0.87%
Nuclear	20.020	1,704.317	1,724.337	10.69%
Other	1.757	0.000	1.757	0.01%
Petroleum	2.502	1.127	3.629	0.02%
Solar	0.000	0.000	0.000	0.00%
Waste	6.198	1.208	7.405	0.05%
Wind	0.000	0.000	0.000	0.00%
Total	824.103	15,311.829	16,135.932	100.00%

Coulee Dam Light Department

Claims on BPA

BPA Resource Mix	15,311.829
Biomass	8.467
Natural Gas	12.074
Nuclear	1,704.317
Petroleum (heavy oil)	1.127
Waste	1.208
Hydro	13,584.636

Market Purchases

Total Market Purchases	824.103
BPA Market Purchase	824.103

Elmhurst Mutual Power & Light

Fuel Mix

Biomass	0%
Coal	2%
Cogeneration	0%
Geothermal	0%
Hydro	86%
Landfill Gas	0%
Natural Gas	1%
Nuclear	11%
Other	0%
Petroleum	0%
Solar	0%
Waste	0%
Wind	0%
Total	100%

Elmhurst Mutual Power & Light

Fuel Mix Detail

Fuel	MWh from Market Purchases	MWh from Claims on Resources	Total	Percent
Biomass	117.976	140.030	258.006	0.10%
Coal	5,416.604	0.000	5,416.604	2.03%
Cogeneration	0.000	0.000	0.000	0.00%
Geothermal	0.000	0.000	0.000	0.00%
Hydro	5,439.917	224,663.349	230,103.266	86.23%
Landfill Gas	29.433	0.000	29.433	0.01%
Natural Gas	2,121.101	199.682	2,320.784	0.87%
Nuclear	331.092	28,186.073	28,517.165	10.69%
Other	29.052	0.000	29.052	0.01%
Petroleum	41.376	18.646	60.022	0.02%
Solar	0.000	0.000	0.000	0.00%
Waste	102.498	19.971	122.468	0.05%
Wind	0.000	0.000	0.000	0.00%
Total	13,629.049	253,227.751	266,856.800	100.00%

Elmhurst Mutual Power & Light

Claims on BPA

BPA Resource Mix	253,227.751
Biomass	140.030
Natural Gas	199.682
Nuclear	28,186.073
Petroleum (heavy oil)	18.646
Waste	19.971
Hydro	224,663.349

Market Purchases

Total Market Purchases	13,629.049
BPA Market Purchase	13,629.049

Inland Power & Light

Fuel Mix

Biomass	0%
Coal	2%
Cogeneration	0%
Geothermal	0%
Hydro	82%
Landfill Gas	0%
Natural Gas	1%
Nuclear	10%
Other	0%
Petroleum	0%
Solar	0%
Waste	0%
Wind	4%
Total	100%

Inland Power & Light

Fuel Mix Detail

Fuel	MWh from Market Purchases	MWh from Claims on Resources	Total	Percent
Biomass	491.376	458.431	949.807	0.10%
Coal	22,704.916	0.000	22,704.916	2.45%
Cogeneration	0.000	0.000	0.000	0.00%
Geothermal	0.000	0.000	0.000	0.00%
Hydro	22,657.555	741,284.782	763,942.337	82.49%
Landfill Gas	122.589	0.000	122.589	0.01%
Natural Gas	8,834.504	653.850	9,488.353	1.02%
Nuclear	1,379.018	92,285.879	93,664.897	10.11%
Other	121.003	0.000	121.003	0.01%
Petroleum	27.874	60.986	88.860	0.01%
Solar	0.000	1,654.677	1,654.677	0.18%
Waste	426.908	65.328	492.237	0.05%
Wind	0.000	32,868.783	32,868.783	3.55%
Total	56,765.744	869,332.716	926,098.460	100.00%

Inland Power & Light

Claims on Plants			
Bonneville	Claim Type:	Plant Mix	499.000
	Hydro		499.000
Stateline WA	Claim Type:	Plant Mix	2,381.000
	Wind		2,381.000
Foote Creek I	Claim Type:	Plant Mix	681.000
	Wind		681.000
Foote Creek II	Claim Type:	Plant Mix	39.000
	Wind		39.000
Condon	Claim Type:	Plant Mix	1,257.000
	Wind		1,257.000
Klondike	Claim Type:	Plant Mix	652.000
	Wind		652.000
Klondike III	Claim Type:	Plant Mix	1,606.000
	Wind		1,606.000
Ryegrass	Claim Type:	Plant Mix	4,175.000
	Wind		4,175.000
Hammett Hill	Claim Type:	Plant Mix	4,506.000
	Wind		4,506.000

Inland Power & Light

Mainline	Claim Type:	Plant Mix	4,357.000
	Wind	4,357.000	
Desert Meadow	Claim Type:	Plant Mix	4,491.000
	Wind	4,491.000	
Cold Springs	Claim Type:	Plant Mix	4,008.000
	Wind	4,008.000	
Two Ponds	Claim Type:	Plant Mix	4,462.000
	Wind	4,462.000	
Grand Coulee	Claim Type:	Plant Mix	5,178.000
	Hydro	5,178.000	
Distributed Generation Claim Type:		Plant Mix	1,645.167
	Solar	1,645.167	
Distributed Generation Claim Type:		Plant Mix	253.783
	Wind	253.783	
Distributed Generation Claim Type:		Plant Mix	22.851
	Hydro	22.851	
Distributed Generation Claim Type:		Plant Mix	9.51
	Solar	9.51	

Inland Power & Light

Claims on BPA

BPA Resource Mix	829,109.256
Biomass	458.431
Natural Gas	653.850
Nuclear	92,285.879
Petroleum (heavy oil)	60.986
Waste	65.328
Hydro	735,584.782

Market Purchases

Total Market Purchases	56,765.744
BPA Market Purchase	44,623.744
Utility Market Purchase	12,142.000

Lakeview Light & Power

Fuel Mix

Biomass	0%
Coal	2%
Cogeneration	0%
Geothermal	0%
Hydro	88%
Landfill Gas	0%
Natural Gas	1%
Nuclear	10%
Other	0%
Petroleum	0%
Solar	0%
Waste	0%
Wind	0%
Total	100%

Lakeview Light & Power

Fuel Mix Detail

<u>Fuel</u>	MWh from Market Purchases	MWh from Claims on Resources	Total	Percent
Biomass	101.725	157.063	258.788	0.10%
Coal	4,672.958	0.000	4,672.958	1.74%
Cogeneration	0.000	0.000	0.000	0.00%
Geothermal	0.000	0.000	0.000	0.00%
Hydro	4,903.908	230,170.669	235,074.576	87.73%
Landfill Gas	25.392	0.000	25.392	0.01%
Natural Gas	1,829.882	223.971	2,053.853	0.77%
Nuclear	360.679	25,317.998	25,678.678	9.58%
Other	25.064	0.000	25.064	0.01%
Petroleum	35.696	20.914	56.610	0.02%
Solar	0.000	0.000	0.000	0.00%
Waste	88.418	22.400	110.818	0.04%
Wind	0.000	0.000	0.000	0.00%
Total	12,043.722	255,913.014	267,956.736	100.00%

Lakeview Light & Power

Claims on BPA

BPA Resource Mix	255,913.014
Biomass	157.063
Natural Gas	223.971
Nuclear	25,317.998
Petroleum (heavy oil)	20.914
Waste	22.400
Hydro	230,170.669

Market Purchases

Total Market Purchases	12,043.722
BPA Market Purchase	12,043.722

McCleary Light & Power

Fuel Mix

Biomass	0%
Coal	2%
Cogeneration	0%
Geothermal	0%
Hydro	88%
Landfill Gas	0%
Natural Gas	1%
Nuclear	10%
Other	0%
Petroleum	0%
Solar	0%
Waste	0%
Wind	0%
Total	100%

McCleary Light & Power

Fuel Mix Detail

<u>Fuel</u>	MWh from Market Purchases	MWh from Claims on Resources	Total	Percent
Biomass	11.582	17.883	29.465	0.10%
Coal	532.052	0.000	532.052	1.74%
Cogeneration	0.000	0.000	0.000	0.00%
Geothermal	0.000	0.000	0.000	0.00%
Hydro	558.348	26,206.710	26,765.058	87.73%
Landfill Gas	2.891	0.000	2.891	0.01%
Natural Gas	208.346	25.501	233.847	0.77%
Nuclear	41.066	2,882.650	2,923.716	9.58%
Other	2.854	0.000	2.854	0.01%
Petroleum	4.064	2.381	6.445	0.02%
Solar	0.000	0.000	0.000	0.00%
Waste	10.067	2.550	12.617	0.04%
Wind	0.000	0.000	0.000	0.00%
Total	1,371.271	29,137.675	30,508.946	100.00%

McCleary Light & Power

Claims on BPA

BPA Resource Mix	29,137.675
Biomass	17.883
Natural Gas	25.501
Nuclear	2,882.650
Petroleum (heavy oil)	2.381
Waste	2.550
Hydro	26,206.710

Market Purchases

Total Market Purchases	1,371.271
BPA Market Purchase	1,371.271

Modern Electric Water

Fuel Mix

Biomass	0%
Coal	2%
Cogeneration	0%
Geothermal	0%
Hydro	88%
Landfill Gas	0%
Natural Gas	1%
Nuclear	10%
Other	0%
Petroleum	0%
Solar	0%
Waste	0%
Wind	0%
Total	100%

Modern Electric Water

Fuel Mix Detail

<u>Fuel</u>	MWh from Market Purchases	MWh from Claims on Resources	Total	Percent
Biomass	85.684	132.296	217.980	0.10%
Coal	3,936.080	0.000	3,936.080	1.74%
Cogeneration	0.000	0.000	0.000	0.00%
Geothermal	0.000	0.000	0.000	0.00%
Hydro	4,130.611	193,875.086	198,005.698	87.73%
Landfill Gas	21.388	0.000	21.388	0.01%
Natural Gas	1,541.328	188.653	1,729.981	0.77%
Nuclear	303.804	21,325.607	21,629.410	9.58%
Other	21.111	0.000	21.111	0.01%
Petroleum	30.067	17.616	47.683	0.02%
Solar	0.000	0.000	0.000	0.00%
Waste	74.475	18.868	93.343	0.04%
Wind	0.000	0.000	0.000	0.00%
Total	10,144.549	215,558.125	225,702.674	100.00%

Modern Electric Water

Claims on BPA

BPA Resource Mix	215,558.125
Biomass	132.296
Natural Gas	188.653
Nuclear	21,325.607
Petroleum (heavy oil)	17.616
Waste	18.868
Hydro	193,875.086

Market Purchases

Total Market Purchases	10,144.549
BPA Market Purchase	10,144.549

Nespelem Valley Electric Cooperative

Fuel Mix

Biomass	0%
Coal	2%
Cogeneration	0%
Geothermal	0%
Hydro	88%
Landfill Gas	0%
Natural Gas	1%
Nuclear	10%
Other	0%
Petroleum	0%
Solar	0%
Waste	0%
Wind	0%
Total	100%

Nespelem Valley Electric Cooperative

Fuel Mix Detail

<u>Fuel</u>	MWh from Market Purchases	MWh from Claims on Resources	Total	Percent
Biomass	23.947	36.973	60.920	0.10%
Coal	1,100.040	0.000	1,100.040	1.74%
Cogeneration	0.000	0.000	0.000	0.00%
Geothermal	0.000	0.000	0.000	0.00%
Hydro	1,154.406	54,183.419	55,337.825	87.73%
Landfill Gas	5.977	0.000	5.977	0.01%
Natural Gas	430.764	52.724	483.488	0.77%
Nuclear	84.906	5,959.994	6,044.899	9.58%
Other	5.900	0.000	5.900	0.01%
Petroleum	8.403	4.923	13.326	0.02%
Solar	0.000	0.000	0.000	0.00%
Waste	20.814	5.273	26.087	0.04%
Wind	0.000	0.000	0.000	0.00%
Total	2,835.157	60,243.306	63,078.463	100.00%

Nespelem Valley Electric Cooperative

Claims on BPA

BPA Resource Mix	60,243.306
Biomass	36.973
Natural Gas	52.724
Nuclear	5,959.994
Petroleum (heavy oil)	4.923
Waste	5.273
Hydro	54,183.419

Market Purchases

Total Market Purchases	2,835.157
BPA Market Purchase	2,835.157

Northern Lights

Fuel Mix

Biomass	0%
Coal	2%
Cogeneration	0%
Geothermal	0%
Hydro	89%
Landfill Gas	0%
Natural Gas	1%
Nuclear	9%
Other	0%
Petroleum	0%
Solar	0%
Waste	0%
Wind	0%
Total	100%

Northern Lights

Fuel Mix Detail

<u>Fuel</u>	MWh from Market Purchases	MWh from Claims on Resources	Total	Percent
Biomass	0.045	0.070	0.115	0.09%
Coal	2.085	0.000	2.085	1.59%
Cogeneration	0.000	0.000	0.000	0.00%
Geothermal	0.000	0.000	0.000	0.00%
Hydro	2.188	114.544	116.733	88.83%
Landfill Gas	0.011	0.000	0.011	0.01%
Natural Gas	0.817	0.100	0.917	0.70%
Nuclear	0.161	11.299	11.460	8.72%
Other	0.011	0.000	0.011	0.01%
Petroleum	0.016	0.009	0.025	0.02%
Solar	0.000	0.000	0.000	0.00%
Waste	0.039	0.010	0.049	0.04%
Wind	0.000	0.000	0.000	0.00%
Total	5.375	126.032	131.407	100.00%

Northern Lights

Claims on Plants

Lake Creek	Claim Type:	Plant Mix	11.827
	Hydro		11.827

Claims on BPA

BPA Resource Mix	114.205
Biomass	0.070
Natural Gas	0.100
Nuclear	11.299
Petroleum (heavy oil)	0.009
Waste	0.010
Hydro	102.717

Market Purchases

Total Market Purchases	5.375
BPA Market Purchase	5.375

Ohop Mutual Light

Fuel Mix

Biomass	0%
Coal	2%
Cogeneration	0%
Geothermal	0%
Hydro	88%
Landfill Gas	0%
Natural Gas	1%
Nuclear	10%
Other	0%
Petroleum	0%
Solar	0%
Waste	0%
Wind	0%
Total	100%

Ohop Mutual Light

Fuel Mix Detail

<u>Fuel</u>	MWh from Market Purchases	MWh from Claims on Resources	Total	Percent
Biomass	31.645	48.859	80.503	0.10%
Coal	1,453.659	0.000	1,453.659	1.74%
Cogeneration	0.000	0.000	0.000	0.00%
Geothermal	0.000	0.000	0.000	0.00%
Hydro	1,525.503	71,601.255	73,126.758	87.73%
Landfill Gas	7.899	0.000	7.899	0.01%
Natural Gas	569.238	69.673	638.910	0.77%
Nuclear	112.200	7,875.897	7,988.097	9.58%
Other	7.797	0.000	7.797	0.01%
Petroleum	11.104	6.506	17.610	0.02%
Solar	0.000	0.000	0.000	0.00%
Waste	27.505	6.968	34.473	0.04%
Wind	0.000	0.000	0.000	0.00%
Total	3,746.549	79,609.157	83,355.706	100.00%

Ohop Mutual Light

Claims on BPA

BPA Resource Mix	79,609.157
Biomass	48.859
Natural Gas	69.673
Nuclear	7,875.897
Petroleum (heavy oil)	6.506
Waste	6.968
Hydro	71,601.255

Market Purchases

Total Market Purchases	3,746.549
BPA Market Purchase	3,746.549

Okanogan County Electric Cooperative

Fuel Mix

Biomass	0%
Coal	2%
Cogeneration	0%
Geothermal	0%
Hydro	88%
Landfill Gas	0%
Natural Gas	1%
Nuclear	10%
Other	0%
Petroleum	0%
Solar	0%
Waste	0%
Wind	0%
Total	100%

Okanogan County Electric Cooperative

Fuel Mix Detail

<u>Fuel</u>	MWh from Market Purchases	MWh from Claims on Resources	Total	Percent
Biomass	21.587	33.331	54.918	0.10%
Coal	991.664	0.000	991.664	1.74%
Cogeneration	0.000	0.000	0.000	0.00%
Geothermal	0.000	0.000	0.000	0.00%
Hydro	1,040.675	48,845.292	49,885.966	87.73%
Landfill Gas	5.389	0.000	5.389	0.01%
Natural Gas	388.325	47.530	435.855	0.77%
Nuclear	76.541	5,372.818	5,449.359	9.58%
Other	5.319	0.000	5.319	0.01%
Petroleum	7.575	4.438	12.013	0.02%
Solar	0.000	0.000	0.000	0.00%
Waste	18.763	4.754	23.517	0.04%
Wind	0.000	0.000	0.000	0.00%
Total	2,555.839	54,308.161	56,864.000	100.00%

Okanogan County Electric Cooperative

Claims on BPA

BPA Resource Mix	54,308.161
Biomass	33.331
Natural Gas	47.530
Nuclear	5,372.818
Petroleum (heavy oil)	4.438
Waste	4.754
Hydro	48,845.292

Market Purchases

Total Market Purchases	2,555.839
BPA Market Purchase	2,555.839

Orcas Power & Light Cooperative

Fuel Mix

Biomass	0%
Coal	2%
Cogeneration	0%
Geothermal	0%
Hydro	88%
Landfill Gas	0%
Natural Gas	1%
Nuclear	10%
Other	0%
Petroleum	0%
Solar	0%
Waste	0%
Wind	0%
Total	100%

Orcas Power & Light Cooperative

Fuel Mix Detail

Fuel	MWh from Market Purchases	MWh from Claims on Resources	Total	Percent
Biomass	80.615	124.469	205.084	0.10%
Coal	3,703.219	0.000	3,703.219	1.74%
Cogeneration	0.000	0.000	0.000	0.00%
Geothermal	0.000	0.000	0.000	0.00%
Hydro	3,886.241	182,405.297	186,291.538	87.73%
Landfill Gas	20.123	0.000	20.123	0.01%
Natural Gas	1,450.142	177.492	1,627.634	0.77%
Nuclear	285.830	20,063.968	20,349.799	9.58%
Other	19.862	0.000	19.862	0.01%
Petroleum	28.288	16.574	44.862	0.02%
Solar	0.000	0.000	0.000	0.00%
Waste	70.069	17.751	87.821	0.04%
Wind	0.000	0.000	0.000	0.00%
Total	9,544.390	202,805.551	212,349.941	100.00%

Orcas Power & Light Cooperative

Claims on BPA

BPA Resource Mix	202,805.551
Biomass	124.469
Natural Gas	177.492
Nuclear	20,063.968
Petroleum (heavy oil)	16.574
Waste	17.751
Hydro	182,405.297

Market Purchases

Total Market Purchases	9,544.390
BPA Market Purchase	9,544.390

Pacific Power & Light

Fuel Mix

Biomass	1%
Coal	39%
Cogeneration	0%
Geothermal	0%
Hydro	41%
Landfill Gas	0%
Natural Gas	15%
Nuclear	3%
Other	0%
Petroleum	0%
Solar	0%
Waste	1%
Wind	0%
Total	100%

Pacific Power & Light

Fuel Mix Detail

Fuel	MWh from Market Purchases	MWh from Claims on Resources	Total	Percent
Biomass	38,610.114	0.000	38,610.114	0.84%
Coal	1,773,636.981	0.000	1,773,636.981	38.80%
Cogeneration	0.000	0.000	0.000	0.00%
Geothermal	0.000	0.000	0.000	0.00%
Hydro	1,861,294.590	0.000	1,861,294.590	40.72%
Landfill Gas	9,637.631	0.000	9,637.631	0.21%
Natural Gas	694,537.949	0.000	694,537.949	15.19%
Nuclear	136,896.982	0.000	136,896.982	2.99%
Other	9,512.941	0.000	9,512.941	0.21%
Petroleum	13,548.542	0.000	13,548.542	0.30%
Solar	0.000	0.000	0.000	0.00%
Waste	33,559.374	0.000	33,559.374	0.73%
Wind	0.000	0.000	0.000	0.00%
Total	4,571,235.105	0.000	4,571,235.105	100.00%

Market Purchases

Total Market Purchases	4,571,235.000
Utility Market Purchase	4,571,235.000

Parkland Light & Water

Fuel Mix

Biomass	0%
Coal	2%
Cogeneration	0%
Geothermal	0%
Hydro	82%
Landfill Gas	0%
Natural Gas	1%
Nuclear	9%
Other	0%
Petroleum	0%
Solar	0%
Waste	0%
Wind	7%
Total	100%

Parkland Light & Water

Fuel Mix Detail

<u>Fuel</u>	MWh from Market Purchases	MWh from Claims on Resources	Total	Percent
Biomass	41.686	64.362	106.048	0.09%
Coal	1,914.915	0.000	1,914.915	1.63%
Cogeneration	0.000	0.000	0.000	0.00%
Geothermal	0.000	0.000	0.000	0.00%
Hydro	2,009.555	94,320.831	96,330.386	81.78%
Landfill Gas	10.405	0.000	10.405	0.01%
Natural Gas	749.861	91.780	841.641	0.71%
Nuclear	147.801	10,374.974	10,522.775	8.93%
Other	10.271	0.000	10.271	0.01%
Petroleum	14.628	8.570	23.198	0.02%
Solar	0.000	0.000	0.000	0.00%
Waste	36.233	9.179	45.412	0.04%
Wind	0.000	7,990.000	7,990.000	6.78%
Total	4,935.355	112,859.696	117,795.051	100.00%

Parkland Light & Water

Claims on Plants

Stateline WA	Claim Type:	Plant Mix	2,983.000
	Wind	2,983.000	
Foote Creek I	Claim Type:	Plant Mix	605.000
	Wind	605.000	
Foote Creek II	Claim Type:	Plant Mix	63.000
	Wind	63.000	
Condon	Claim Type:	Plant Mix	828.000
	Wind	828.000	
Klondike	Claim Type:	Plant Mix	1,294.000
	Wind	1,294.000	
Klondike III	Claim Type:	Plant Mix	2,217.000
	Wind	2,217.000	

Parkland Light & Water

Claims on BPA

BPA Resource Mix	104,869.696
Biomass	64.362
Natural Gas	91.780
Nuclear	10,374.974
Petroleum (heavy oil)	8.570
Waste	9.179
Hydro	94,320.831

Market Purchases

Total Market Purchases	4,935.355
BPA Market Purchase	4,935.355

Peninsula Light

Fuel Mix

Biomass	0%
Coal	2%
Cogeneration	0%
Geothermal	0%
Hydro	85%
Landfill Gas	0%
Natural Gas	1%
Nuclear	9%
Other	0%
Petroleum	0%
Solar	0%
Waste	0%
Wind	3%
Total	100%

Peninsula Light

Fuel Mix Detail

<u>Fuel</u>	MWh from Market Purchases	MWh from Claims on Resources	Total	Percent
Biomass	250,068	322,277	572,344	0.10%
Coal	11,487,379	0.000	11,487,379	2.02%
Cogeneration	0.000	0.000	0.000	0.00%
Geothermal	0.000	0.000	0.000	0.00%
Hydro	12,055,115	472,286,657	484,341,771	84.97%
Landfill Gas	62,420	0.000	62,420	0.01%
Natural Gas	4,498,339	459,565	4,957,904	0.87%
Nuclear	886,646	51,949,942	52,836,587	9.27%
Other	61,613	0.000	61,613	0.01%
Petroleum	87,750	42,913	130,664	0.02%
Solar	0.000	0.000	0.000	0.00%
Waste	217,355	45,962	263,318	0.05%
Wind	0.000	15,333,000	15,333,000	2.69%
Total	29,606,686	540,440,315	570,047,001	100.00%

Peninsula Light

Claims on Plants

Stateline WA	Claim Type:	Plant Mix	1,431.000
	Wind	1,431.000	
Condon	Claim Type:	Plant Mix	700.000
	Wind	700.000	
Klondike	Claim Type:	Plant Mix	437.000
	Wind	437.000	
Klondike III	Claim Type:	Plant Mix	1,022.000
	Wind	1,022.000	
White Creek	Claim Type:	Plant Mix	1,384.000
	Wind	1,384.000	
Harvest	Claim Type:	Plant Mix	10,359.000
	Wind	10,359.000	

Peninsula Light

Claims on BPA

BPA Resource Mix	525,107.315
Biomass	322.277
Natural Gas	459.565
Nuclear	51,949.942
Petroleum (heavy oil)	42.913
Waste	45.962
Hydro	472,286.657

Market Purchases

Total Market Purchases	29,606.685
BPA Market Purchase	24,712.485
Utility Market Purchase	4,894.200

Port of Seattle

Fuel Mix

Biomass	0%
Coal	2%
Cogeneration	0%
Geothermal	0%
Hydro	88%
Landfill Gas	0%
Natural Gas	1%
Nuclear	10%
Other	0%
Petroleum	0%
Solar	0%
Waste	0%
Wind	0%
Total	100%

Port of Seattle

Fuel Mix Detail

<u>Fuel</u>	MWh from Market Purchases	MWh from Claims on Resources	Total	Percent
Biomass	54.108	83.543	137.652	0.10%
Coal	2,485.586	0.000	2,485.586	1.74%
Cogeneration	0.000	0.000	0.000	0.00%
Geothermal	0.000	0.000	0.000	0.00%
Hydro	2,608.430	122,429.729	125,038.160	87.73%
Landfill Gas	13.506	0.000	13.506	0.01%
Natural Gas	973.330	119.132	1,092.462	0.77%
Nuclear	191.848	13,466.858	13,658.706	9.58%
Other	13.331	0.000	13.331	0.01%
Petroleum	18.987	11.124	30.111	0.02%
Solar	0.000	0.000	0.000	0.00%
Waste	47.030	11.915	58.945	0.04%
Wind	0.000	0.000	0.000	0.00%
Total	6,406.158	136,122.301	142,528.459	100.00%

Port of Seattle

Claims on BPA

BPA Resource Mix	136,122.301
Biomass	83.543
Natural Gas	119.132
Nuclear	13,466.858
Petroleum (heavy oil)	11.124
Waste	11.915
Hydro	122,429.729

Market Purchases

Total Market Purchases	6,406.158
BPA Market Purchase	6,406.158

PUD No 1 of Asotin County

Fuel Mix

Biomass	0%
Coal	2%
Cogeneration	0%
Geothermal	0%
Hydro	88%
Landfill Gas	0%
Natural Gas	1%
Nuclear	10%
Other	0%
Petroleum	0%
Solar	0%
Waste	0%
Wind	0%
Total	100%

PUD No 1 of Asotin County

Fuel Mix Detail

<u>Fuel</u>	MWh from Market Purchases	MWh from Claims on Resources	Total	Percent
Biomass	2.019	3.117	5.136	0.10%
Coal	92.741	0.000	92.741	1.74%
Cogeneration	0.000	0.000	0.000	0.00%
Geothermal	0.000	0.000	0.000	0.00%
Hydro	97.324	4,568.039	4,665.363	87.73%
Landfill Gas	0.504	0.000	0.504	0.01%
Natural Gas	36.316	4.445	40.761	0.77%
Nuclear	7.158	502.469	509.627	9.58%
Other	0.497	0.000	0.497	0.01%
Petroleum	0.708	0.415	1.123	0.02%
Solar	0.000	0.000	0.000	0.00%
Waste	1.755	0.445	2.199	0.04%
Wind	0.000	0.000	0.000	0.00%
Total	239.023	5,078.930	5,317.953	100.00%

PUD No 1 of Asotin County

Claims on BPA

BPA Resource Mix	5,078.930
Biomass	3.117
Natural Gas	4.445
Nuclear	502.469
Petroleum (heavy oil)	0.415
Waste	0.445
Hydro	4,568.039

Market Purchases

Total Market Purchases	239.023
BPA Market Purchase	239.023

PUD No 1 of Benton County

Fuel Mix

Biomass	0%
Coal	6%
Cogeneration	0%
Geothermal	0%
Hydro	79%
Landfill Gas	0%
Natural Gas	4%
Nuclear	8%
Other	0%
Petroleum	0%
Solar	0%
Waste	0%
Wind	3%
Total	100%

PUD No 1 of Benton County

Fuel Mix Detail

<u>Fuel</u>	MWh from Market Purchases	MWh from Claims on Resources	Total	Percent
Biomass	2,332.740	891.607	3,224.347	0.18%
Coal	107,159.310	0.000	107,159.310	5.86%
Cogeneration	0.000	0.000	0.000	0.00%
Geothermal	0.000	0.000	0.000	0.00%
Hydro	112,455.393	1,324,691.212	1,437,146.604	78.60%
Landfill Gas	582.285	0.000	582.285	0.03%
Natural Gas	41,962.480	35,844.717	77,807.197	4.26%
Nuclear	8,271.020	143,724.043	151,995.062	8.31%
Other	574.751	0.000	574.751	0.03%
Petroleum	818.574	118.723	937.297	0.05%
Solar	0.000	0.000	0.000	0.00%
Waste	2,027.585	127.159	2,154.743	0.12%
Wind	0.000	46,903.000	46,903.000	2.57%
Total	276,184.136	1,552,300.460	1,828,484.596	100.00%

PUD No 1 of Benton County

Claims on Plants

	Claim Type:	Plant Mix	18,069.000
Packwood	Hydro	18,069.000	
	Claim Type:	Plant Mix	34,573.291
Frederickson	Natural Gas	34,573.291	
	Claim Type:	Plant Mix	23,885.000
White Creek	Wind	23,885.000	
	Claim Type:	Plant Mix	23,018.000
Nine Canyon	Wind	23,018.000	

PUD No 1 of Benton County

Claims on BPA

BPA Resource Mix	864,854.412
Biomass	530.792
Natural Gas	756.905
Nuclear	85,561.817
Petroleum (heavy oil)	70.678
Waste	75.700
Hydro	777,858.519

BPA Slice	587,900.757
Biomass	360.815
Natural Gas	514.520
Nuclear	58,162.225
Petroleum (heavy oil)	48.045
Waste	51.459
Hydro	528,763.692

Market Purchases

Total Market Purchases	276,184.130
BPA Market Purchase	40,701.588
BPA Slice Wind w/o RECs	27,667.656
Utility Market Purchase	207,814.886

PUD No 1 of Chelan County

Fuel Mix

Biomass	0%
Coal	2%
Cogeneration	0%
Geothermal	0%
Hydro	98%
Landfill Gas	0%
Natural Gas	1%
Nuclear	0%
Other	0%
Petroleum	0%
Solar	0%
Waste	0%
Wind	0%
Total	100%

PUD No 1 of Chelan County

Fuel Mix Detail

<u>Fuel</u>	MWh from Market Purchases	MWh from Claims on Resources	Total	Percent
Biomass	568.260	0.000	568.260	0.04%
Coal	26,104.220	0.000	26,104.220	1.63%
Cogeneration	0.000	0.000	0.000	0.00%
Geothermal	0.000	0.000	0.000	0.00%
Hydro	27,394.356	1,535,899.000	1,563,293.356	97.50%
Landfill Gas	141.846	0.000	141.846	0.01%
Natural Gas	10,222.143	0.000	10,222.143	0.64%
Nuclear	2,014.837	0.000	2,014.837	0.13%
Other	140.011	0.000	140.011	0.01%
Petroleum	199.406	23.000	222.406	0.01%
Solar	0.000	0.000	0.000	0.00%
Waste	493.924	0.000	493.924	0.03%
Wind	0.000	104.000	104.000	0.01%
Total	67,279.002	1,536,026.000	1,603,305.002	100.00%

PUD No 1 of Chelan County

Claims on Plants

Rocky Reach	Claim Type:	Plant Mix	889,230.000
	Hydro	889,230.000	
Rock Island	Claim Type:	Plant Mix	225,660.000
	Hydro	225,660.000	
Chelan	Claim Type:	Plant Mix	420,026.000
	Hydro	420,026.000	
Nine Canyon	Claim Type:	Plant Mix	104.000
	Wind	104.000	
Stehekin Hydro	Claim Type:	Plant Mix	983.000
	Hydro	983.000	
Stehekin Diesel	Claim Type:	Plant Mix	23.000
	Petroleum (light oil)	23.000	

Market Purchases

Total Market Purchases	67,279.000
Utility Market Purchase	67,279.000

PUD No 1 of Clallam County

Fuel Mix

Biomass	0%
Coal	2%
Cogeneration	0%
Geothermal	0%
Hydro	88%
Landfill Gas	0%
Natural Gas	1%
Nuclear	9%
Other	0%
Petroleum	0%
Solar	0%
Waste	0%
Wind	0%
Total	100%

PUD No 1 of Clallam County

Fuel Mix Detail

<u>Fuel</u>	MWh from Market Purchases	MWh from Claims on Resources	Total	Percent
Biomass	243.825	376.464	620.289	0.09%
Coal	11,200.622	0.000	11,200.622	1.71%
Cogeneration	0.000	0.000	0.000	0.00%
Geothermal	0.000	0.000	0.000	0.00%
Hydro	11,754.185	564,746.504	576,500.690	87.97%
Landfill Gas	60.862	0.000	60.862	0.01%
Natural Gas	4,386.048	536.835	4,922.884	0.75%
Nuclear	864.513	60,684.757	61,549.270	9.39%
Other	60.075	0.000	60.075	0.01%
Petroleum	85.560	50.129	135.688	0.02%
Solar	0.000	0.000	0.000	0.00%
Waste	211.929	53.690	265.620	0.04%
Wind	0.000	0.000	0.000	0.00%
Total	28,867.620	626,448.380	655,316.001	100.00%

PUD No 1 of Clallam County

Claims on Plants

Packwood	Claim Type:	Plant Mix	13,050.000
	Hydro		13,050.000

Claims on BPA

BPA Resource Mix	613,398.380
Biomass	376.464
Natural Gas	536.835
Nuclear	60,684.757
Petroleum (heavy oil)	50.129
Waste	53.690
Hydro	551,696.504

Market Purchases

Total Market Purchases	28,867.620
BPA Market Purchase	28,867.620

PUD No 1 of Clark County

Fuel Mix

Biomass	0%
Coal	3%
Cogeneration	0%
Geothermal	0%
Hydro	59%
Landfill Gas	0%
Natural Gas	32%
Nuclear	6%
Other	0%
Petroleum	0%
Solar	0%
Waste	0%
Wind	0%
Total	100%

PUD No 1 of Clark County

Fuel Mix Detail

<u>Fuel</u>	MWh from Market Purchases	MWh from Claims on Resources	Total	Percent
Biomass	2,690.246	1,732.022	4,422.268	0.10%
Coal	123,582.115	0.000	123,582.115	2.69%
Cogeneration	0.000	0.000	0.000	0.00%
Geothermal	0.000	0.000	0.000	0.00%
Hydro	129,689.855	2,561,129.448	2,690,819.303	58.67%
Landfill Gas	671.523	0.000	671.523	0.01%
Natural Gas	48,393.482	1,425,163.851	1,473,557.333	32.13%
Nuclear	9,538.603	279,196.031	288,734.634	6.30%
Other	662.835	0.000	662.835	0.01%
Petroleum	944.025	230.630	1,174.655	0.03%
Solar	0.000	0.000	0.000	0.00%
Waste	2,338.324	247.016	2,585.341	0.06%
Wind	0.000	0.000	0.000	0.00%
Total	318,511.009	4,267,698.998	4,586,210.007	100.00%

PUD No 1 of Clark County

Claims on Plants

Packwood	Claim Type:	Plant Mix	22,906.000
	Hydro	22,906.000	
River Road	Claim Type:	Plant Mix	1,422,694.000
	Natural Gas	1,422,694.000	

Claims on BPA

BPA Slice	2,822,098.998
Biomass	1,732.022
Natural Gas	2,469.851
Nuclear	279,196.031
Petroleum (heavy oil)	230.630
Waste	247.016
Hydro	2,538,223.448

Market Purchases

Total Market Purchases	318,511.002
BPA Slice Wind w/o RECs	132,813.002
Utility Market Purchase	185,698.000

PUD No 1 of Cowlitz County

Fuel Mix

Biomass	0%
Coal	4%
Cogeneration	0%
Geothermal	0%
Hydro	83%
Landfill Gas	0%
Natural Gas	2%
Nuclear	9%
Other	0%
Petroleum	0%
Solar	0%
Waste	0%
Wind	3%
Total	100%

PUD No 1 of Cowlitz County

Fuel Mix Detail

<u>Fuel</u>	MWh from Market Purchases	MWh from Claims on Resources	Total	Percent
Biomass	4,206.190	2,710.724	6,916.914	0.14%
Coal	193,220.185	0.000	193,220.185	3.77%
Cogeneration	0.000	0.000	0.000	0.00%
Geothermal	0.000	0.000	0.000	0.00%
Hydro	202,769.614	4,022,951.945	4,225,721.559	82.50%
Landfill Gas	1,049.924	0.000	1,049.924	0.02%
Natural Gas	75,663.032	3,865.474	79,528.505	1.55%
Nuclear	14,913.571	436,959.525	451,873.096	8.82%
Other	1,036.341	0.000	1,036.341	0.02%
Petroleum	1,475.979	360.950	1,836.930	0.04%
Solar	0.000	0.000	0.000	0.00%
Waste	3,655.962	386.596	4,042.558	0.08%
Wind	0.000	157,059.000	157,059.000	3.07%
Total	497,990.797	4,624,294.215	5,122,285.011	100.00%

PUD No 1 of Cowlitz County

Claims on Plants

Wanapum	Claim Type:	Plant Mix	12,316.000
	Hydro	12,316.000	
Stateline WA	Claim Type:	Plant Mix	3,331.000
	Wind	3,331.000	
Condon	Claim Type:	Plant Mix	1,600.000
	Wind	1,600.000	
Klondike	Claim Type:	Plant Mix	997.000
	Wind	997.000	
Klondike III	Claim Type:	Plant Mix	2,412.000
	Wind	2,412.000	
White Creek	Claim Type:	Plant Mix	38,522.000
	Wind	38,522.000	
Harvest	Claim Type:	Plant Mix	104,942.000
	Wind	104,942.000	
Swift 2	Claim Type:	Plant Mix	38,155.000
	Hydro	38,155.000	
Nine Canyon	Claim Type:	Plant Mix	5,255.000
	Wind	5,255.000	

PUD No 1 of Cowlitz County

Claims on BPA

BPA Resource Mix	2,215,465.262
Biomass	1,359.709
Natural Gas	1,938.936
Nuclear	219,180.514
Petroleum (heavy oil)	181.054
Waste	193.918
Hydro	1,992,611.131

BPA Slice	2,201,298.953
Biomass	1,351.015
Natural Gas	1,926.538
Nuclear	217,779.012
Petroleum (heavy oil)	179.896
Waste	192.678
Hydro	1,979,869.814

Market Purchases

Total Market Purchases	497,990.785
BPA Market Purchase	104,263.738
BPA Slice Wind w/o RECs	103,597.047
Utility Market Purchase	290,130.000

PUD No 1 of Douglas County

Fuel Mix

Biomass	0%
Coal	0%
Cogeneration	0%
Geothermal	0%
Hydro	100%
Landfill Gas	0%
Natural Gas	0%
Nuclear	0%
Other	0%
Petroleum	0%
Solar	0%
Waste	0%
Wind	0%
Total	100%

PUD No 1 of Douglas County

Fuel Mix Detail

<u>Fuel</u>	MWh from Market Purchases	MWh from Claims on Resources	Total	Percent
Biomass	0.000	0.000	0.000	0.00%
Coal	0.000	0.000	0.000	0.00%
Cogeneration	0.000	0.000	0.000	0.00%
Geothermal	0.000	0.000	0.000	0.00%
Hydro	0.000	786,719.000	786,719.000	100.00%
Landfill Gas	0.000	0.000	0.000	0.00%
Natural Gas	0.000	0.000	0.000	0.00%
Nuclear	0.000	0.000	0.000	0.00%
Other	0.000	0.000	0.000	0.00%
Petroleum	0.000	0.000	0.000	0.00%
Solar	0.000	0.000	0.000	0.00%
Waste	0.000	0.000	0.000	0.00%
Wind	0.000	2.000	2.000	0.00%
Total	0.000	786,721.000	786,721.000	100.00%

PUD No 1 of Douglas County

Claims on Plants

Rocky Reach	Claim Type:	Plant Mix	206,487.000
	Hydro	206,487.000	
Wells	Claim Type:	Plant Mix	580,232.000
	Hydro	580,232.000	
Nine Canyon	Claim Type:	Plant Mix	2.000
	Wind	2.000	

PUD No 1 of Ferry County

Fuel Mix

Biomass	0%
Coal	2%
Cogeneration	0%
Geothermal	0%
Hydro	88%
Landfill Gas	0%
Natural Gas	1%
Nuclear	10%
Other	0%
Petroleum	0%
Solar	0%
Waste	0%
Wind	0%
Total	100%

PUD No 1 of Ferry County

Fuel Mix Detail

<u>Fuel</u>	MWh from Market Purchases	MWh from Claims on Resources	Total	Percent
Biomass	41.065	63.405	104.470	0.10%
Coal	1,886.422	0.000	1,886.422	1.74%
Cogeneration	0.000	0.000	0.000	0.00%
Geothermal	0.000	0.000	0.000	0.00%
Hydro	1,979.654	92,917.388	94,897.042	87.73%
Landfill Gas	10.250	0.000	10.250	0.01%
Natural Gas	738.704	90.414	829.118	0.77%
Nuclear	145.602	10,220.600	10,366.202	9.58%
Other	10.118	0.000	10.118	0.01%
Petroleum	14.410	8.443	22.853	0.02%
Solar	0.000	0.000	0.000	0.00%
Waste	35.693	9.043	44.736	0.04%
Wind	0.000	0.000	0.000	0.00%
Total	4,861.919	103,309.292	108,171.211	100.00%

PUD No 1 of Ferry County

Claims on BPA

BPA Resource Mix	103,309.292
Biomass	63.405
Natural Gas	90.414
Nuclear	10,220.600
Petroleum (heavy oil)	8.443
Waste	9.043
Hydro	92,917.388

Market Purchases

Total Market Purchases	4,861.919
BPA Market Purchase	4,861.919

PUD No 1 of Franklin County

Fuel Mix

Biomass	0%
Coal	3%
Cogeneration	0%
Geothermal	0%
Hydro	82%
Landfill Gas	0%
Natural Gas	3%
Nuclear	9%
Other	0%
Petroleum	0%
Solar	0%
Waste	0%
Wind	3%
Total	100%

PUD No 1 of Franklin County

Fuel Mix Detail

<u>Fuel</u>	MWh from Market Purchases	MWh from Claims on Resources	Total	Percent
Biomass	609.936	570.289	1,180.225	0.11%
Coal	28,018.712	0.000	28,018.712	2.61%
Cogeneration	0.000	0.000	0.000	0.00%
Geothermal	0.000	0.000	0.000	0.00%
Hydro	29,403.467	854,784.327	884,187.794	82.30%
Landfill Gas	152.249	0.000	152.249	0.01%
Natural Gas	10,971.839	18,738.228	29,710.066	2.77%
Nuclear	2,162.605	91,928.621	94,091.227	8.76%
Other	150.279	0.000	150.279	0.01%
Petroleum	214.031	75.938	289.968	0.03%
Solar	0.000	0.000	0.000	0.00%
Waste	530.148	81.333	611.481	0.06%
Wind	0.000	35,983.000	35,983.000	3.35%
Total	72,213.266	1,002,161.736	1,074,375.002	100.00%

PUD No 1 of Franklin County

Claims on Plants

Packwood	Claim Type:	Plant Mix	13,336.000
	Hydro	13,336.000	
Frederickson	Claim Type:	Plant Mix	17,925.000
	Natural Gas	17,925.000	
White Creek	Claim Type:	Plant Mix	14,379.000
	Wind	14,379.000	
Nine Canyon	Claim Type:	Plant Mix	21,604.000
	Wind	21,604.000	
Distributed Generation Claim Type:		Plant Mix	5,708.000
	Hydro	5,708.000	

PUD No 1 of Franklin County

Claims on BPA

BPA Resource Mix	523,201.219
Biomass	321.107
Natural Gas	457.896
Nuclear	51,761.368
Petroleum (heavy oil)	42.757
Waste	45.795
Hydro	470,572.295
BPA Slice	406,008.517
Biomass	249.182
Natural Gas	355.331
Nuclear	40,167.254
Petroleum (heavy oil)	33.180
Waste	35.538
Hydro	365,168.032

Market Purchases

Total Market Purchases	72,213.264
BPA Market Purchase	24,622.781
BPA Slice Wind w/o RECs	19,107.483
Utility Market Purchase	28,483.000

PUD No 1 of Grays Harbor County

Fuel Mix

Biomass	0%
Coal	2%
Cogeneration	0%
Geothermal	0%
Hydro	88%
Landfill Gas	0%
Natural Gas	1%
Nuclear	10%
Other	0%
Petroleum	0%
Solar	0%
Waste	0%
Wind	0%
Total	100%

PUD No 1 of Grays Harbor County

Fuel Mix Detail

<u>Fuel</u>	MWh from Market Purchases	MWh from Claims on Resources	Total	Percent
Biomass	345.950	534.144	880.094	0.10%
Coal	15,891.931	0.000	15,891.931	1.74%
Cogeneration	0.000	0.000	0.000	0.00%
Geothermal	0.000	0.000	0.000	0.00%
Hydro	16,677.351	782,771.051	799,448.402	87.73%
Landfill Gas	86.354	0.000	86.354	0.01%
Natural Gas	6,223.116	761.685	6,984.802	0.77%
Nuclear	1,226.608	86,102.179	87,328.787	9.58%
Other	85.237	0.000	85.237	0.01%
Petroleum	121.396	71.125	192.521	0.02%
Solar	0.000	0.000	0.000	0.00%
Waste	300.695	76.178	376.873	0.04%
Wind	0.000	0.000	0.000	0.00%
Total	40,958.638	870,316.363	911,275.001	100.00%

PUD No 1 of Grays Harbor County

Claims on BPA

BPA Resource Mix	356,829.709
Biomass	218.999
Natural Gas	312.291
Nuclear	35,301.894
Petroleum (heavy oil)	29.161
Waste	31.233
Hydro	320,936.131
BPA Slice	513,486.654
Biomass	315.145
Natural Gas	449.394
Nuclear	50,800.286
Petroleum (heavy oil)	41.964
Waste	44.945
Hydro	461,834.920

Market Purchases

Total Market Purchases	40,958.637
BPA Market Purchase	16,793.041
BPA Slice Wind w/o RECs	24,165.596

PUD No 1 of Jefferson County

Fuel Mix

Biomass	0%
Coal	2%
Cogeneration	0%
Geothermal	0%
Hydro	88%
Landfill Gas	0%
Natural Gas	1%
Nuclear	10%
Other	0%
Petroleum	0%
Solar	0%
Waste	0%
Wind	0%
Total	100%

PUD No 1 of Jefferson County

Fuel Mix Detail

<u>Fuel</u>	MWh from Market Purchases	MWh from Claims on Resources	Total	Percent
Biomass	139.135	214.824	353.959	0.10%
Coal	6,391.470	0.000	6,391.470	1.74%
Cogeneration	0.000	0.000	0.000	0.00%
Geothermal	0.000	0.000	0.000	0.00%
Hydro	6,707.352	314,817.461	321,524.813	87.73%
Landfill Gas	34.730	0.000	34.730	0.01%
Natural Gas	2,502.834	306.337	2,809.171	0.77%
Nuclear	493.321	34,628.860	35,122.182	9.58%
Other	34.281	0.000	34.281	0.01%
Petroleum	48.823	28.605	77.429	0.02%
Solar	0.000	0.000	0.000	0.00%
Waste	120.934	30.638	151.572	0.04%
Wind	0.000	0.000	0.000	0.00%
Total	16,472.881	350,026.725	366,499.606	100.00%

PUD No 1 of Jefferson County

Claims on BPA

BPA Resource Mix	350,026.725
Biomass	214.824
Natural Gas	306.337
Nuclear	34,628.860
Petroleum (heavy oil)	28.605
Waste	30.638
Hydro	314,817.461

Market Purchases

Total Market Purchases	16,472.881
BPA Market Purchase	16,472.881

PUD No 1 of Kittitas County

Fuel Mix

Biomass	0%
Coal	2%
Cogeneration	0%
Geothermal	0%
Hydro	88%
Landfill Gas	0%
Natural Gas	1%
Nuclear	10%
Other	0%
Petroleum	0%
Solar	0%
Waste	0%
Wind	0%
Total	100%

PUD No 1 of Kittitas County

Fuel Mix Detail

<u>Fuel</u>	MWh from Market Purchases	MWh from Claims on Resources	Total	Percent
Biomass	37.746	58.280	96.026	0.10%
Coal	1,733.947	0.000	1,733.947	1.74%
Cogeneration	0.000	0.000	0.000	0.00%
Geothermal	0.000	0.000	0.000	0.00%
Hydro	1,819.644	85,407.106	87,226.749	87.73%
Landfill Gas	9.422	0.000	9.422	0.01%
Natural Gas	678.996	83.106	762.102	0.77%
Nuclear	133.834	9,394.494	9,528.328	9.58%
Other	9.300	0.000	9.300	0.01%
Petroleum	13.245	7.760	21.006	0.02%
Solar	0.000	0.000	0.000	0.00%
Waste	32.808	8.312	41.120	0.04%
Wind	0.000	0.000	0.000	0.00%
Total	4,468.942	94,959.058	99,428.000	100.00%

PUD No 1 of Kittitas County

Claims on BPA

BPA Resource Mix	94,959.058
Biomass	58.280
Natural Gas	83.106
Nuclear	9,394.494
Petroleum (heavy oil)	7.760
Waste	8.312
Hydro	85,407.106

Market Purchases

Total Market Purchases	4,468.942
BPA Market Purchase	4,468.942

PUD No 1 of Klickitat County

Fuel Mix

Biomass	0%
Coal	7%
Cogeneration	0%
Geothermal	0%
Hydro	75%
Landfill Gas	0%
Natural Gas	3%
Nuclear	7%
Other	0%
Petroleum	0%
Solar	0%
Waste	0%
Wind	7%
Total	100%

PUD No 1 of Klickitat County

Fuel Mix Detail

<u>Fuel</u>	MWh from Market Purchases	MWh from Claims on Resources	Total	Percent
Biomass	809.544	213.323	1,022.867	0.20%
Coal	37,188.121	0.000	37,188.121	7.11%
Cogeneration	0.000	0.000	0.000	0.00%
Geothermal	0.000	0.000	0.000	0.00%
Hydro	39,026.051	354,729.940	393,755.992	75.24%
Landfill Gas	202.074	0.000	202.074	0.04%
Natural Gas	14,562.484	304.197	14,866.681	2.84%
Nuclear	2,870.340	34,386.921	37,257.261	7.12%
Other	199.459	0.000	199.459	0.04%
Petroleum	284.074	28.405	312.480	0.06%
Solar	0.000	0.000	0.000	0.00%
Waste	703.645	30.424	734.068	0.14%
Wind	0.000	37,813.000	37,813.000	7.23%
Total	95,845.793	427,506.210	523,352.002	100.00%

PUD No 1 of Klickitat County

Claims on Plants

Packwood	Claim Type:	Plant Mix	3,840.000
	Hydro	3,840.000	
White Creek	Claim Type:	Plant Mix	37,813.000
	Wind	37,813.000	
McNary Fish	Claim Type:	Plant Mix	38,272.000
	Hydro	38,272.000	

PUD No 1 of Klickitat County

Claims on BPA

BPA Resource Mix	166,417.114
Biomass	102.136
Natural Gas	145.645
Nuclear	16,463.986
Petroleum (heavy oil)	13.600
Waste	14.566
Hydro	149,677.181

BPA Slice	181,164.095
Biomass	111.187
Natural Gas	158.552
Nuclear	17,922.935
Petroleum (heavy oil)	14.805
Waste	15.857
Hydro	162,940.760

Market Purchases

Total Market Purchases	95,845.790
BPA Market Purchase	7,831.886
BPA Slice Wind w/o RECs	8,525.905
Utility Market Purchase	79,488.000

PUD No 1 of Lewis County

Fuel Mix

Biomass	0%
Coal	4%
Cogeneration	0%
Geothermal	0%
Hydro	84%
Landfill Gas	0%
Natural Gas	2%
Nuclear	9%
Other	0%
Petroleum	0%
Solar	0%
Waste	0%
Wind	1%
Total	100%

PUD No 1 of Lewis County

Fuel Mix Detail

<u>Fuel</u>	MWh from Market Purchases	MWh from Claims on Resources	Total	Percent
Biomass	916.080	503.478	1,419.558	0.15%
Coal	42,082.088	0.000	42,082.088	4.47%
Cogeneration	0.000	0.000	0.000	0.00%
Geothermal	0.000	0.000	0.000	0.00%
Hydro	44,161.891	744,109.703	788,271.594	83.69%
Landfill Gas	228.667	0.000	228.667	0.02%
Natural Gas	16,478.912	717.956	17,196.867	1.83%
Nuclear	3,248.078	81,158.892	84,406.970	8.96%
Other	225.708	0.000	225.708	0.02%
Petroleum	321.459	67.041	388.500	0.04%
Solar	0.000	0.000	0.000	0.00%
Waste	796.244	71.805	868.049	0.09%
Wind	0.000	6,797.000	6,797.000	0.72%
Total	108,459.128	833,425.875	941,885.002	100.00%

PUD No 1 of Lewis County

Claims on Plants

Packwood	Claim Type:	Plant Mix	3,548.000
	Hydro	3,548.000	
Mill Creek	Claim Type:	Plant Mix	1,327.000
	Hydro	1,327.000	
Nine Canyon	Claim Type:	Plant Mix	6,797.000
	Wind	6,797.000	
Burton Creek	Claim Type:	Plant Mix	1,404.000
	Hydro	1,404.000	

PUD No 1 of Lewis County

Claims on BPA

BPA Resource Mix	346,457.112
Biomass	212.633
Natural Gas	303.213
Nuclear	34,275.711
Petroleum (heavy oil)	28.313
Waste	30.325
Hydro	311,606.916

BPA Slice	473,892.763
Biomass	290.845
Natural Gas	414.743
Nuclear	46,883.181
Petroleum (heavy oil)	38.728
Waste	41.480
Hydro	426,223.787

Market Purchases

Total Market Purchases	108,459.125
BPA Market Purchase	16,304.888
BPA Slice Wind w/o RECs	22,302.237
Utility Market Purchase	69,852.000

PUD No 1 of Mason County

Fuel Mix

Biomass	0%
Coal	2%
Cogeneration	0%
Geothermal	0%
Hydro	88%
Landfill Gas	0%
Natural Gas	1%
Nuclear	10%
Other	0%
Petroleum	0%
Solar	0%
Waste	0%
Wind	0%
Total	100%

PUD No 1 of Mason County

Fuel Mix Detail

Fuel	MWh from Market Purchases	MWh from Claims on Resources	Total	Percent
Biomass	28.511	44.020	72.531	0.10%
Coal	1,309.699	0.000	1,309.699	1.74%
Cogeneration	0.000	0.000	0.000	0.00%
Geothermal	0.000	0.000	0.000	0.00%
Hydro	1,374.428	64,510.371	65,884.799	87.73%
Landfill Gas	7.117	0.000	7.117	0.01%
Natural Gas	512.865	62.773	575.637	0.77%
Nuclear	101.088	7,095.924	7,197.012	9.58%
Other	7.025	0.000	7.025	0.01%
Petroleum	10.005	5.862	15.866	0.02%
Solar	0.000	0.000	0.000	0.00%
Waste	24.781	6.278	31.059	0.04%
Wind	0.000	0.000	0.000	0.00%
Total	3,375.517	71,725.227	75,100.744	100.00%

PUD No 1 of Mason County

Claims on BPA

BPA Resource Mix	71,725.227
Biomass	44.020
Natural Gas	62.773
Nuclear	7,095.924
Petroleum (heavy oil)	5.862
Waste	6.278
Hydro	64,510.371

Market Purchases

Total Market Purchases	3,375.517
BPA Market Purchase	3,375.517

PUD No 1 of Okanogan County

Fuel Mix

Biomass	0%
Coal	4%
Cogeneration	0%
Geothermal	0%
Hydro	88%
Landfill Gas	0%
Natural Gas	2%
Nuclear	6%
Other	0%
Petroleum	0%
Solar	0%
Waste	0%
Wind	0%
Total	100%

PUD No 1 of Okanogan County

Fuel Mix Detail

<u>Fuel</u>	MWh from Market Purchases	MWh from Claims on Resources	Total	Percent
Biomass	562.555	227.282	789.836	0.12%
Coal	25,842.136	0.000	25,842.136	4.00%
Cogeneration	0.000	0.000	0.000	0.00%
Geothermal	0.000	0.000	0.000	0.00%
Hydro	27,119.319	542,446.402	569,565.721	88.13%
Landfill Gas	140.422	0.000	140.422	0.02%
Natural Gas	10,119.514	324.102	10,443.616	1.62%
Nuclear	1,994.608	36,637.011	38,631.619	5.98%
Other	138.605	0.000	138.605	0.02%
Petroleum	197.404	30.264	227.668	0.04%
Solar	0.000	0.000	0.000	0.00%
Waste	488.965	32.414	521.379	0.08%
Wind	0.000	0.000	0.000	0.00%
Total	66,603.527	579,697.475	646,301.002	100.00%

PUD No 1 of Okanogan County

Claims on Plants

Wells	Claim Type:	Plant Mix	209,372.467
	Hydro	209,372.467	

Claims on BPA

BPA Resource Mix	181,705.611
Biomass	111.519
Natural Gas	159.026
Nuclear	17,976.508
Petroleum (heavy oil)	14.849
Waste	15.905
Hydro	163,427.804

BPA Slice	188,619.397
Biomass	115.762
Natural Gas	165.076
Nuclear	18,660.503
Petroleum (heavy oil)	15.415
Waste	16.510
Hydro	169,646.131

PUD No 1 of Okanogan County

Market Purchases

Total Market Purchases	66,603.525
BPA Market Purchase	8,551.389
BPA Slice Wind w/o RECs	8,876.765
Utility Market Purchase	49,175.371

PUD No 1 of Pend Oreille County

Fuel Mix

Biomass	0%
Coal	0%
Cogeneration	0%
Geothermal	0%
Hydro	97%
Landfill Gas	0%
Natural Gas	0%
Nuclear	3%
Other	0%
Petroleum	0%
Solar	0%
Waste	0%
Wind	0%
Total	100%

PUD No 1 of Pend Oreille County

Fuel Mix Detail

<u>Fuel</u>	MWh from Market Purchases	MWh from Claims on Resources	Total	Percent
Biomass	91.647	141.502	233.150	0.03%
Coal	4,210.004	0.000	4,210.004	0.46%
Cogeneration	0.000	0.000	0.000	0.00%
Geothermal	0.000	0.000	0.000	0.00%
Hydro	4,418.073	888,523.435	892,941.508	96.79%
Landfill Gas	22.876	0.000	22.876	0.00%
Natural Gas	1,648.594	201.782	1,850.376	0.20%
Nuclear	324.946	22,809.719	23,134.666	2.51%
Other	22.580	0.000	22.580	0.00%
Petroleum	32.160	18.842	51.002	0.01%
Solar	0.000	0.000	0.000	0.00%
Waste	79.658	20.181	99.839	0.01%
Wind	0.000	0.000	0.000	0.00%
Total	10,850.539	911,715.461	922,566.000	100.00%

PUD No 1 of Pend Oreille County

Claims on Plants

Box Canyon	Claim Type:	Plant Mix	314,163.000
	Hydro	314,163.000	
Boundary	Claim Type:	Plant Mix	366,993.000
	Hydro	366,993.000	

Claims on BPA

BPA Resource Mix	230,559.461
Biomass	141.502
Natural Gas	201.782
Nuclear	22,809.719
Petroleum (heavy oil)	18.842
Waste	20.181
Hydro	207,367.435

Market Purchases

Total Market Purchases	10,850.539
BPA Market Purchase	10,850.539

PUD No 1 of Skamania County

Fuel Mix

Biomass	0%
Coal	2%
Cogeneration	0%
Geothermal	0%
Hydro	88%
Landfill Gas	0%
Natural Gas	1%
Nuclear	10%
Other	0%
Petroleum	0%
Solar	0%
Waste	0%
Wind	0%
Total	100%

PUD No 1 of Skamania County

Fuel Mix Detail

<u>Fuel</u>	MWh from Market Purchases	MWh from Claims on Resources	Total	Percent
Biomass	50.159	77.445	127.604	0.10%
Coal	2,304.152	0.000	2,304.152	1.74%
Cogeneration	0.000	0.000	0.000	0.00%
Geothermal	0.000	0.000	0.000	0.00%
Hydro	2,418.029	113,493.051	115,911.081	87.73%
Landfill Gas	12.520	0.000	12.520	0.01%
Natural Gas	902.282	110.436	1,012.718	0.77%
Nuclear	177.844	12,483.853	12,661.698	9.58%
Other	12.358	0.000	12.358	0.01%
Petroleum	17.601	10.312	27.913	0.02%
Solar	0.000	0.000	0.000	0.00%
Waste	43.597	11.045	54.642	0.04%
Wind	0.000	0.000	0.000	0.00%
Total	5,938.545	126,186.143	132,124.687	100.00%

PUD No 1 of Skamania County

Claims on BPA

BPA Resource Mix	126,186.143
Biomass	77.445
Natural Gas	110.436
Nuclear	12,483.853
Petroleum (heavy oil)	10.312
Waste	11.045
Hydro	113,493.051

Market Purchases

Total Market Purchases	5,938.544
BPA Market Purchase	5,938.544

PUD No 1 of Snohomish County

Fuel Mix

Biomass	0%
Coal	5%
Cogeneration	0%
Geothermal	0%
Hydro	81%
Landfill Gas	0%
Natural Gas	2%
Nuclear	8%
Other	0%
Petroleum	0%
Solar	0%
Waste	0%
Wind	4%
Total	100%

PUD No 1 of Snohomish County

Fuel Mix Detail

<u>Fuel</u>	MWh from Market Purchases	MWh from Claims on Resources	Total	Percent
Biomass	6,764.268	14,612.085	21,376.353	0.32%
Coal	310,730.928	0.000	310,730.928	4.65%
Cogeneration	0.000	0.000	0.000	0.00%
Geothermal	0.000	0.000	0.000	0.00%
Hydro	326,088.033	5,061,689.500	5,387,777.533	80.64%
Landfill Gas	1,688.457	8.000	1,696.457	0.03%
Natural Gas	121,679.026	4,677.378	126,356.405	1.89%
Nuclear	23,983.559	528,738.576	552,722.135	8.27%
Other	1,666.612	1,866.00	3,532.61	0.05%
Petroleum	2,373.626	436.764	2,810.390	0.04%
Solar	0.000	0.000	0.000	0.00%
Waste	5,879.408	467.80	6,347.21	0.10%
Wind	0.000	267,532.000	267,532.000	4.00%
Total	800,853.917	5,880,028.101	6,680,882.018	100.00%

PUD No 1 of Snohomish County

Claims on Plants			
Packwood	Claim Type:	Plant Mix	25,143.000
	Hydro	25,143.000	
White Creek	Claim Type:	Plant Mix	31,169.000
	Wind	31,169.000	
Hay Canyon	Claim Type:	Plant Mix	136,355.000
	Wind	136,355.000	
Wheat Field	Claim Type:	Plant Mix	100,008.000
	Wind	100,008.000	
Youngs Creek	Claim Type:	Plant Mix	21,550.000
	Hydro	21,550.000	
H M Jackson	Claim Type:	Plant Mix	205,826.000
	Hydro	205,826.000	
Roosevelt Biogas 1	Claim Type:	Plant Mix	8.000
	Landfill Gas	8.000	
Hampton Lumber	Claim Type:	Plant Mix	11,332.000
	Biomass	11,332.000	
Qualco Energy	Claim Type:	Plant Mix	1,866.000
	Other	1,866.000	
Woods Creek	Claim Type:	Plant Mix	2,309.000
	Hydro	2,309.000	

PUD No 1 of Snohomish County

Claims on BPA

BPA Resource Mix	3,024,961.909
Biomass	1,856.526
Natural Gas	2,647.393
Nuclear	299,265.674
Petroleum (heavy oil)	247.208
Waste	264.773
Hydro	2,720,680.335

BPA Slice	2,319,500.193
Biomass	1,423.559
Natural Gas	2,029.985
Nuclear	229,472.902
Petroleum (heavy oil)	189.556
Waste	203.024
Hydro	2,086,181.165

Market Purchases

Total Market Purchases	800,853.899
BPA Market Purchase	142,360.091
BPA Slice Wind w/o RECs	109,159.807
Utility Market Purchase	549,334.000

PUD No 1 of Wahkiakum County

Fuel Mix

Biomass	0%
Coal	2%
Cogeneration	0%
Geothermal	0%
Hydro	88%
Landfill Gas	0%
Natural Gas	1%
Nuclear	10%
Other	0%
Petroleum	0%
Solar	0%
Waste	0%
Wind	0%
Total	100%

PUD No 1 of Wahkiakum County

Fuel Mix Detail

<u>Fuel</u>	MWh from Market Purchases	MWh from Claims on Resources	Total	Percent
Biomass	16.090	24.842	40.932	0.10%
Coal	739.108	0.000	739.108	1.74%
Cogeneration	0.000	0.000	0.000	0.00%
Geothermal	0.000	0.000	0.000	0.00%
Hydro	775.636	36,405.402	37,181.039	87.73%
Landfill Gas	4.016	0.000	4.016	0.01%
Natural Gas	289.427	35.425	324.852	0.77%
Nuclear	57.048	4,004.472	4,061.519	9.58%
Other	3.964	0.000	3.964	0.01%
Petroleum	5.646	3.308	8.954	0.02%
Solar	0.000	0.000	0.000	0.00%
Waste	13.985	3.543	17.528	0.04%
Wind	0.000	0.000	0.000	0.00%
Total	1,904.919	40,476.992	42,381.911	100.00%

PUD No 1 of Wahkiakum County

Claims on BPA

BPA Resource Mix	40,476.992
Biomass	24.842
Natural Gas	35.425
Nuclear	4,004.472
Petroleum (heavy oil)	3.308
Waste	3.543
Hydro	36,405.402

Market Purchases

Total Market Purchases	1,904.919
BPA Market Purchase	1,904.919

PUD No 1 of Whatcom County

Fuel Mix

Biomass	0%
Coal	2%
Cogeneration	0%
Geothermal	0%
Hydro	88%
Landfill Gas	0%
Natural Gas	1%
Nuclear	10%
Other	0%
Petroleum	0%
Solar	0%
Waste	0%
Wind	0%
Total	100%

PUD No 1 of Whatcom County

Fuel Mix Detail

<u>Fuel</u>	MWh from Market Purchases	MWh from Claims on Resources	Total	Percent
Biomass	87.374	134.904	222.278	0.10%
Coal	4,013.693	0.000	4,013.693	1.74%
Cogeneration	0.000	0.000	0.000	0.00%
Geothermal	0.000	0.000	0.000	0.00%
Hydro	4,212.060	197,697.998	201,910.058	87.73%
Landfill Gas	21.810	0.000	21.810	0.01%
Natural Gas	1,571.721	192.373	1,764.094	0.77%
Nuclear	309.794	21,746.114	22,055.908	9.58%
Other	21.528	0.000	21.528	0.01%
Petroleum	30.660	17.963	48.623	0.02%
Solar	0.000	0.000	0.000	0.00%
Waste	75.944	19.240	95.184	0.04%
Wind	0.000	0.000	0.000	0.00%
Total	10,344.584	219,808.591	230,153.175	100.00%

PUD No 1 of Whatcom County

Claims on BPA

BPA Resource Mix	219,808.591
Biomass	134.904
Natural Gas	192.373
Nuclear	21,746.114
Petroleum (heavy oil)	17.963
Waste	19.240
Hydro	197,697.998

Market Purchases

Total Market Purchases	10,344.584
BPA Market Purchase	10,344.584

PUD No 2 of Grant County

Fuel Mix

Biomass	0%
Coal	17%
Cogeneration	0%
Geothermal	0%
Hydro	74%
Landfill Gas	0%
Natural Gas	7%
Nuclear	1%
Other	0%
Petroleum	0%
Solar	0%
Waste	0%
Wind	0%
Total	100%

PUD No 2 of Grant County

Fuel Mix Detail

<u>Fuel</u>	MWh from Market Purchases	MWh from Claims on Resources	Total	Percent
Biomass	15,816.550	28.124	15,844.673	0.37%
Coal	726,566.555	0.000	726,566.555	16.76%
Cogeneration	0.000	0.000	0.000	0.00%
Geothermal	0.000	0.000	0.000	0.00%
Hydro	762,475.305	2,456,701.116	3,219,176.421	74.28%
Landfill Gas	3,948.035	0.000	3,948.035	0.09%
Natural Gas	284,515.970	40.104	284,556.074	6.57%
Nuclear	56,079.553	4,533.414	60,612.967	1.40%
Other	3,896.956	0.000	3,896.956	0.09%
Petroleum	5,550.131	3.745	5,553.876	0.13%
Solar	0.000	0.000	0.000	0.00%
Waste	13,747.525	4.011	13,751.536	0.32%
Wind	0.000	0.000	0.000	0.00%
Total	1,872,596.579	2,461,310.513	4,333,907.092	100.00%

PUD No 2 of Grant County

Claims on Plants

Priest Rapids	Claim Type:	Plant Mix	1,196,484.000
	Hydro	1,196,484.000	
Wanapum	Claim Type:	Plant Mix	1,169,653.000
	Hydro	1,169,653.000	
PEC Headworks	Claim Type:	Plant Mix	20,752.000
	Hydro	20,752.000	
Quincy Chute	Claim Type:	Plant Mix	28,598.000
	Hydro	28,598.000	

PUD No 2 of Grant County

Claims on BPA

BPA Resource Mix	45,823.513
Biomass	28.124
Natural Gas	40.104
Nuclear	4,533.414
Petroleum (heavy oil)	3.745
Waste	4.011
Hydro	41,214.116

Market Purchases

Total Market Purchases	1,872,596.536
BPA Market Purchase	2,156.536
Utility Market Purchase	1,870,440.000

PUD No 2 of Pacific County

Fuel Mix

Biomass	0%
Coal	4%
Cogeneration	0%
Geothermal	0%
Hydro	85%
Landfill Gas	0%
Natural Gas	2%
Nuclear	9%
Other	0%
Petroleum	0%
Solar	0%
Waste	0%
Wind	0%
Total	100%

PUD No 2 of Pacific County

Fuel Mix Detail

<u>Fuel</u>	MWh from Market Purchases	MWh from Claims on Resources	Total	Percent
Biomass	263.834	160.048	423.882	0.15%
Coal	12,119.786	0.000	12,119.786	4.15%
Cogeneration	0.000	0.000	0.000	0.00%
Geothermal	0.000	0.000	0.000	0.00%
Hydro	12,718.777	234,544.844	247,263.621	84.68%
Landfill Gas	65.857	0.000	65.857	0.02%
Natural Gas	4,745.983	228.227	4,974.210	1.70%
Nuclear	935.458	25,799.143	26,734.601	9.16%
Other	65.005	0.000	65.005	0.02%
Petroleum	92.581	21.311	113.893	0.04%
Solar	0.000	0.000	0.000	0.00%
Waste	229.321	22.826	252.147	0.09%
Wind	0.000	0.000	0.000	0.00%
Total	31,236.602	260,776.399	292,013.001	100.00%

PUD No 2 of Pacific County

Claims on BPA

BPA Resource Mix	126,787.170
Biomass	77.814
Natural Gas	110.962
Nuclear	12,543.314
Petroleum (heavy oil)	10.361
Waste	11.098
Hydro	114,033.621

BPA Slice	133,989.228
Biomass	82.234
Natural Gas	117.265
Nuclear	13,255.829
Petroleum (heavy oil)	10.950
Waste	11.728
Hydro	120,511.223

Market Purchases

Total Market Purchases	31,236.601
BPA Market Purchase	5,966.830
BPA Slice Wind w/o RECs	6,305.772
Utility Market Purchase	18,964.000

PUD No 3 of Mason County

Fuel Mix

Biomass	0%
Coal	2%
Cogeneration	0%
Geothermal	0%
Hydro	85%
Landfill Gas	0%
Natural Gas	1%
Nuclear	9%
Other	0%
Petroleum	0%
Solar	0%
Waste	0%
Wind	3%
Total	100%

PUD No 3 of Mason County

Fuel Mix Detail

<u>Fuel</u>	MWh from Market Purchases	MWh from Claims on Resources	Total	Percent
Biomass	240.888	371.929	612.816	0.09%
Coal	11,065.678	0.000	11,065.678	1.67%
Cogeneration	0.000	0.000	0.000	0.00%
Geothermal	0.000	0.000	0.000	0.00%
Hydro	11,612.571	550,796.683	562,409.254	85.07%
Landfill Gas	60.129	0.000	60.129	0.01%
Natural Gas	4,333.205	530.368	4,863.573	0.74%
Nuclear	854.097	59,953.629	60,807.726	9.20%
Other	59.351	0.000	59.351	0.01%
Petroleum	84.529	49.525	134.054	0.02%
Solar	0.000	218.000	218.000	0.03%
Waste	209.376	53.043	262.420	0.04%
Wind	0.000	20,593.000	20,593.000	3.12%
Total	28,519.824	632,566.177	661,086.001	100.00%

PUD No 3 of Mason County

Claims on Plants			
Packwood	Claim Type:	Plant Mix	5,747.000
	Hydro		5,747.000
Stateline WA	Claim Type:	Plant Mix	1,588.000
	Wind		1,588.000
Foote Creek I	Claim Type:	Plant Mix	346.000
	Wind		346.000
Foote Creek II	Claim Type:	Plant Mix	53.000
	Wind		53.000
Condon	Claim Type:	Plant Mix	713.000
	Wind		713.000
Klondike	Claim Type:	Plant Mix	512.000
	Wind		512.000
Klondike III	Claim Type:	Plant Mix	1,131.000
	Wind		1,131.000
White Creek	Claim Type:	Plant Mix	8,564.000
	Wind		8,564.000
Nine Canyon	Claim Type:	Plant Mix	7,686.000
	Wind		7,686.000
Distributed Generation	Claim Type:	Plant Mix	218.000
	Solar		218.000

PUD No 3 of Mason County

Claims on BPA

BPA Resource Mix	606,008.177
Biomass	371.929
Natural Gas	530.368
Nuclear	59,953.629
Petroleum (heavy oil)	49.525
Waste	53.043
Hydro	545,049.683

Market Purchases

Total Market Purchases	28,519.823
BPA Market Purchase	28,519.823

Puget Sound Energy

Fuel Mix

Biomass	0%
Coal	35%
Cogeneration	4%
Geothermal	0%
Hydro	36%
Landfill Gas	0%
Natural Gas	20%
Nuclear	1%
Other	0%
Petroleum	0%
Solar	0%
Waste	0%
Wind	3%
Total	100%

Puget Sound Energy

Fuel Mix Detail

<u>Fuel</u>	MWh from Market Purchases	MWh from Claims on Resources	Total	Percent
Biomass	66,834.96	1,460.54	68,295.49	0.31%
Coal	3,088,231.41	4,570,412.06	7,658,643.48	34.99%
Cogeneration	0.00	926,691.09	926,691.09	4.23%
Geothermal	0.00	0.00	0.00	0.00%
Hydro	3,081,789.62	4,854,303.24	7,936,092.86	36.26%
Landfill Gas	16,674.13	14.00	16,688.13	0.08%
Natural Gas	1,201,633.70	3,160,792.06	4,362,425.76	19.93%
Nuclear	187,568.52	55,864.36	243,432.88	1.11%
Other	16,458.40	0.000	16,458.40	0.08%
Petroleum	3,791.38	12,449.51	16,240.89	0.07%
Solar	0.000	532.71	532.71	0.00%
Waste	58,066.35	39.582	58,105.93	0.27%
Wind	0.000	584,879.29	584,879.29	2.67%
Total	7,721,048.47	14,167,438.44	21,888,486.91	100.00%

Puget Sound Energy

Claims on Plants

	Claim Type:	Plant Mix	131,090.000
Centralia	Coal (bituminous)	130,935.355	
	Petroleum (light oil)	154.645	
Crystal Mountain	Claim Type:	Plant Mix	353.000
	Petroleum (light oil)	353.000	
Electron	Claim Type:	Plant Mix	50,193.000
	Hydro	50,193.000	
Lower Baker	Claim Type:	Plant Mix	423,375.000
	Hydro	423,375.000	
Snoqualmie	Claim Type:	Plant Mix	185,412.000
	Hydro	185,412.000	
Upper Baker	Claim Type:	Plant Mix	335,150.000
	Hydro	335,150.000	
Rocky Reach	Claim Type:	Plant Mix	1,522,091.000
	Hydro	1,522,091.000	
Wells	Claim Type:	Plant Mix	1,033,637.000
	Hydro	1,033,637.000	
Priest Rapids	Claim Type:	Plant Mix	28,818.000
	Hydro	28,818.000	

Puget Sound Energy

Wanapum	Claim Type:	Plant Mix	20,769.000
	Hydro	20,769.000	
Twin Falls	Claim Type:	Plant Mix	91,215.000
	Hydro	91,215.000	
Koma Kulsha	Claim Type:	Plant Mix	47,819.000
	Hydro	47,819.000	
Sumas Cogen	Claim Type:	Plant Mix	439,592.000
	Natural Gas	439,592.000	
Ferndale Cogen	Claim Type:	Cogen	712,072.000
	Petroleum (light oil)	65.972	
	Natural Gas	712,006.028	
Hutchinson Creek	Claim Type:	Plant Mix	230.000
	Hydro	230.000	
Black Creek	Claim Type:	Plant Mix	13,977.000
	Hydro	13,977.000	
Goldendale	Claim Type:	Plant Mix	1,014,519.000
	Natural Gas	1,014,519.000	
Mint Farm	Claim Type:	Plant Mix	1,266,143.000
	Natural Gas	1,266,143.000	
Frederickson	Claim Type:	Plant Mix	341,712.000
	Natural Gas	341,712.000	

Puget Sound Energy

Wild Horse	Claim Type:	Plant Mix	159,480.000
	Solar	178.708	
	Wind	159,301.292	
Lower Snake River	Claim Type:	Plant Mix	414,383.000
	Wind	414,383.000	
Klamath Falls	Claim Type:	Plant Mix	1,183.000
	Biomass	1,183.000	
Fredonia	Claim Type:	Plant Mix	67,154.000
	Petroleum (light oil)	3,199.299	
	Natural Gas	63,954.701	
Colstrip	Claim Type:	Plant Mix	4,444,130.000
	Coal (bituminous)	4,439,476.707	
	Petroleum (light oil)	3,232.689	
	Petroleum (heavy oil)	1,420.604	
Whitehorn	Claim Type:	Plant Mix	24,103.000
	Petroleum (light oil)	3,448.747	
	Natural Gas	20,654.253	
Rock Island	Claim Type:	Plant Mix	649,961.000
	Hydro	649,961.000	
Skookumchuck	Claim Type:	Plant Mix	6,377.000
	Hydro	6,377.000	

Puget Sound Energy

Encogen	Claim Type:	Cogen	214,905.000
	Petroleum (light oil)	219.934	
	Natural Gas	214,685.066	
Frederickson	Claim Type:	Plant Mix	14,139.000
	Petroleum (light oil)	317.664	
	Natural Gas	13,821.336	
Island Community	Claim Type:	Plant Mix	59.000
	Solar	59.000	
3 Bar G #3	Claim Type:	Plant Mix	142.000
	Wind	142.000	
Bio Energy WA	Claim Type:	Plant Mix	14.000
	Landfill Gas	14.000	
Cascade Community	Claim Type:	Plant Mix	28.000
	Solar	28.000	
Swauk Valley	Claim Type:	Plant Mix	11,053.000
	Wind	11,053.000	
Finn Hill	Claim Type:	Plant Mix	267.000
	Solar	267.000	

Puget Sound Energy

Claims on BPA

BPA Resource Mix	501,893.439
Biomass	277.538
Natural Gas	395.768
Nuclear	55,864.355
Petroleum (heavy oil)	36.956
Waste	39.582
Hydro	445,279.240

Market Purchases

Total Market Purchases	7,721,048.47
BPA Market Purchase	27,012.561
Utility Market Purchase	7,694,035.916

Ruston Electric Utility

Fuel Mix

Biomass	0%
Coal	2%
Cogeneration	0%
Geothermal	0%
Hydro	88%
Landfill Gas	0%
Natural Gas	1%
Nuclear	10%
Other	0%
Petroleum	0%
Solar	0%
Waste	0%
Wind	0%
Total	100%

Ruston Electric Utility

Fuel Mix Detail

<u>Fuel</u>	MWh from Market Purchases	MWh from Claims on Resources	Total	Percent
Biomass	2.359	3.642	6.000	0.10%
Coal	108.345	0.000	108.345	1.74%
Cogeneration	0.000	0.000	0.000	0.00%
Geothermal	0.000	0.000	0.000	0.00%
Hydro	113.699	5,336.613	5,450.312	87.73%
Landfill Gas	0.589	0.000	0.589	0.01%
Natural Gas	42.427	5.193	47.620	0.77%
Nuclear	8.363	587.009	595.372	9.58%
Other	0.581	0.000	0.581	0.01%
Petroleum	0.828	0.485	1.313	0.02%
Solar	0.000	0.000	0.000	0.00%
Waste	2.050	0.519	2.569	0.04%
Wind	0.000	0.000	0.000	0.00%
Total	279.239	5,933.461	6,212.700	100.00%

Ruston Electric Utility

Claims on BPA

BPA Resource Mix	5,933.461
Biomass	3.642
Natural Gas	5.193
Nuclear	587.009
Petroleum (heavy oil)	0.485
Waste	0.519
Hydro	5,336.613

Market Purchases

Total Market Purchases	279.239
BPA Market Purchase	279.239

Seattle City Light

Fuel Mix

Biomass	0%
Coal	1%
Cogeneration	0%
Geothermal	0%
Hydro	90%
Landfill Gas	1%
Natural Gas	0%
Nuclear	4%
Other	0%
Petroleum	0%
Solar	0%
Waste	0%
Wind	4%
Total	100%

Seattle City Light

Fuel Mix Detail

<u>Fuel</u>	MWh from Market Purchases	MWh from Claims on Resources	Total	Percent
Biomass	1,977.535	25,863.684	27,841.219	0.28%
Coal	90,842.262	0.000	90,842.262	0.92%
Cogeneration	0.000	0.000	0.000	0.00%
Geothermal	0.000	0.000	0.000	0.00%
Hydro	95,331.916	8,754,640.642	8,849,972.557	89.56%
Landfill Gas	493.621	68,920.000	69,413.621	0.70%
Natural Gas	35,572.893	3,712.835	39,285.728	0.40%
Nuclear	7,011.599	419,704.980	426,716.579	4.32%
Other	487.234	16,893.000	17,380.234	0.18%
Petroleum	693.930	346.697	1,040.627	0.01%
Solar	0.000	0.000	0.000	0.00%
Waste	1,718.846	371.331	2,090.177	0.02%
Wind	0.000	357,325.000	357,325.000	3.62%
Total	234,129.837	9,647,778.168	9,881,908.005	100.00%

Seattle City Light

Claims on Plants

Priest Rapids	Claim Type:	Plant Mix	16,408.000
	Hydro	16,408.000	
West Point WWTP	Claim Type:	Cogen	16,893.000
	Other	16,893.000	
Stateline WA	Claim Type:	Plant Mix	214,395.000
	Wind	214,395.000	
Stateline OR	Claim Type:	Plant Mix	142,930.000
	Wind	142,930.000	
Sierra Pacific	Claim Type:	Plant Mix	23,260.000
	Biomass	23,260.000	
Columbia Ridge	Claim Type:	Plant Mix	68,920.000
	Landfill Gas	68,920.000	
Ross	Claim Type:	Plant Mix	593,550.000
	Hydro	593,550.000	
South Fork Tolt	Claim Type:	Plant Mix	47,305.000
	Hydro	47,305.000	
Cedar Falls	Claim Type:	Plant Mix	48,712.000
	Hydro	48,712.000	

Seattle City Light

Gorge	Claim Type:	Plant Mix	789,482.000
	Hydro		789,482.000
Diablo	Claim Type:	Plant Mix	639,644.000
	Hydro		639,644.000
Boundary	Claim Type:	Plant Mix	2,360,504.000
	Hydro		2,360,504.000
Grand Coulee	Claim Type:	Plant Mix	203,856.000
	Hydro		203,856.000
High Ross Treaty	Claim Type:	Plant Mix	239,563.000
	Hydro		239,563.000

Seattle City Light

Claims on BPA

BPA Resource Mix	2,229,395.672
Biomass	1,368.259
Natural Gas	1,951.128
Nuclear	220,558.678
Petroleum (heavy oil)	182.192
Waste	195.138
Hydro	2,005,140.278

BPA Slice	2,012,960.496
Biomass	1,235.425
Natural Gas	1,761.707
Nuclear	199,146.303
Petroleum (heavy oil)	164.505
Waste	176.193
Hydro	1,810,476.364

Market Purchases

Total Market Purchases	234,129.832
BPA Market Purchase	104,919.328
BPA Slice Wind w/o RECs	94,733.504
Utility Market Purchase	34,477.000

Tacoma Power

Fuel Mix

Biomass	0%
Coal	2%
Cogeneration	0%
Geothermal	0%
Hydro	90%
Landfill Gas	0%
Natural Gas	1%
Nuclear	5%
Other	0%
Petroleum	0%
Solar	0%
Waste	0%
Wind	1%
Total	100%

Tacoma Power

Fuel Mix Detail

<u>Fuel</u>	MWh from Market Purchases	MWh from Claims on Resources	Total	Percent
Biomass	2,120.699	1,585.423	3,706.123	0.08%
Coal	97,418.802	0.000	97,418.802	1.97%
Cogeneration	0.000	0.000	0.000	0.00%
Geothermal	0.000	0.000	0.000	0.00%
Hydro	102,233.485	4,364,408.002	4,466,641.487	90.49%
Landfill Gas	529.357	0.000	529.357	0.01%
Natural Gas	38,148.198	2,260.803	40,409.001	0.82%
Nuclear	7,519.205	255,564.855	263,084.060	5.33%
Other	522.508	0.000	522.508	0.01%
Petroleum	744.167	211.109	955.277	0.02%
Solar	0.000	0.000	0.000	0.00%
Waste	1,843.283	226.109	2,069.391	0.04%
Wind	0.000	60,540.000	60,540.000	1.23%
Total	251,079.704	4,684,796.302	4,935,876.006	100.00%

Tacoma Power

Claims on Plants

Priest Rapids	Claim Type:	Plant Mix	12,957.000
	Hydro		12,957.000
Alder	Claim Type:	Plant Mix	146,080.000
	Hydro		146,080.000
Cushman 1	Claim Type:	Plant Mix	77,895.000
	Hydro		77,895.000
Cushman 2	Claim Type:	Plant Mix	142,644.000
	Hydro		142,644.000
LaGrande	Claim Type:	Plant Mix	229,600.000
	Hydro		229,600.000
Mayfield	Claim Type:	Plant Mix	485,121.000
	Hydro		485,121.000
Mossyrock	Claim Type:	Plant Mix	776,167.000
	Hydro		776,167.000
Stateline WA	Claim Type:	Plant Mix	10,665.000
	Wind		10,665.000
Condon	Claim Type:	Plant Mix	3,866.000
	Wind		3,866.000

Tacoma Power

Klondike	Claim Type:	Plant Mix	2,502.000
	Wind	2,502.000	
Klondike III	Claim Type:	Plant Mix	5,365.000
	Wind	5,365.000	
Hot Springs	Claim Type:	Plant Mix	18,867.000
	Wind	18,867.000	
Bennett Creek	Claim Type:	Plant Mix	19,275.000
	Wind	19,275.000	
Wynoochee	Claim Type:	Plant Mix	8,411.000
	Hydro	8,411.000	
Grand Coulee	Claim Type:	Plant Mix	160,801.000
	Hydro	160,801.000	
Hood Street	Claim Type:	Plant Mix	1,344.000
	Hydro	1,344.000	

Tacoma Power

Claims on BPA

BPA Resource Mix	1,481,907.782
Biomass	909.499
Natural Gas	1,296.939
Nuclear	146,608.170
Petroleum (heavy oil)	121.106
Waste	129.710
Hydro	1,332,842.357

BPA Slice	1,101,328.520
Biomass	675.924
Natural Gas	963.863
Nuclear	108,956.685
Petroleum (heavy oil)	90.004
Waste	96.399
Hydro	990,545.645

Market Purchases

Total Market Purchases	251,079.698
BPA Market Purchase	69,741.218
BPA Slice Wind w/o RECs	51,830.480
Utility Market Purchase	129,508.000

Tanner Electric Cooperative

Fuel Mix

Biomass	0%
Coal	2%
Cogeneration	0%
Geothermal	0%
Hydro	88%
Landfill Gas	0%
Natural Gas	1%
Nuclear	10%
Other	0%
Petroleum	0%
Solar	0%
Waste	0%
Wind	0%
Total	100%

Tanner Electric Cooperative

Fuel Mix Detail

<u>Fuel</u>	MWh from Market Purchases	MWh from Claims on Resources	Total	Percent
Biomass	37.127	57.324	94.452	0.10%
Coal	1,705.520	0.000	1,705.520	1.74%
Cogeneration	0.000	0.000	0.000	0.00%
Geothermal	0.000	0.000	0.000	0.00%
Hydro	1,789.811	84,006.889	85,796.700	87.73%
Landfill Gas	9.267	0.000	9.267	0.01%
Natural Gas	667.864	81.744	749.608	0.77%
Nuclear	131.639	9,240.475	9,372.114	9.58%
Other	9.148	0.000	9.148	0.01%
Petroleum	13.028	7.633	20.661	0.02%
Solar	0.000	0.000	0.000	0.00%
Waste	32.271	8.175	40.446	0.04%
Wind	0.000	0.000	0.000	0.00%
Total	4,395.676	93,402.240	97,797.916	100.00%

Tanner Electric Cooperative

Claims on BPA

BPA Resource Mix	93,402.240
Biomass	57.324
Natural Gas	81.744
Nuclear	9,240.475
Petroleum (heavy oil)	7.633
Waste	8.175
Hydro	84,006.889

Market Purchases

Total Market Purchases	4,395.676
BPA Market Purchase	4,395.676

Town of Eatonville

Fuel Mix

Biomass	0%
Coal	2%
Cogeneration	0%
Geothermal	0%
Hydro	88%
Landfill Gas	0%
Natural Gas	1%
Nuclear	10%
Other	0%
Petroleum	0%
Solar	0%
Waste	0%
Wind	0%
Total	100%

Town of Eatonville

Fuel Mix Detail

<u>Fuel</u>	MWh from Market Purchases	MWh from Claims on Resources	Total	Percent
Biomass	10.385	16.035	26.421	0.10%
Coal	477.078	0.000	477.078	1.74%
Cogeneration	0.000	0.000	0.000	0.00%
Geothermal	0.000	0.000	0.000	0.00%
Hydro	500.656	23,498.877	23,999.533	87.73%
Landfill Gas	2.592	0.000	2.592	0.01%
Natural Gas	186.819	22.866	209.685	0.77%
Nuclear	36.823	2,584.797	2,621.620	9.58%
Other	2.559	0.000	2.559	0.01%
Petroleum	3.644	2.135	5.779	0.02%
Solar	0.000	0.000	0.000	0.00%
Waste	9.027	2.287	11.314	0.04%
Wind	0.000	0.000	0.000	0.00%
Total	1,229.583	26,126.997	27,356.580	100.00%

Town of Eatonville

Claims on BPA

BPA Resource Mix	26,126.997
Biomass	16.035
Natural Gas	22.866
Nuclear	2,584.797
Petroleum (heavy oil)	2.135
Waste	2.287
Hydro	23,498.877

Market Purchases

Total Market Purchases	1,229.583
BPA Market Purchase	1,229.583

Town of Steilacoom

Fuel Mix

Biomass	0%
Coal	2%
Cogeneration	0%
Geothermal	0%
Hydro	88%
Landfill Gas	0%
Natural Gas	1%
Nuclear	10%
Other	0%
Petroleum	0%
Solar	0%
Waste	0%
Wind	0%
Total	100%

Town of Steilacoom

Fuel Mix Detail

Fuel	MWh from Market Purchases	MWh from Claims on Resources	Total	Percent
Biomass	15.101	23.316	38.418	0.10%
Coal	693.710	0.000	693.710	1.74%
Cogeneration	0.000	0.000	0.000	0.00%
Geothermal	0.000	0.000	0.000	0.00%
Hydro	727.995	34,169.295	34,897.290	87.73%
Landfill Gas	3.769	0.000	3.769	0.01%
Natural Gas	271.650	33.249	304.899	0.77%
Nuclear	53.544	3,758.507	3,812.051	9.58%
Other	3.721	0.000	3.721	0.01%
Petroleum	5.299	3.105	8.404	0.02%
Solar	0.000	0.000	0.000	0.00%
Waste	13.126	3.325	16.451	0.04%
Wind	0.000	0.000	0.000	0.00%
Total	1,787.915	37,990.797	39,778.712	100.00%

Town of Steilacoom

Claims on BPA

BPA Resource Mix	37,990.797
Biomass	23.316
Natural Gas	33.249
Nuclear	3,758.507
Petroleum (heavy oil)	3.105
Waste	3.325
Hydro	34,169.295

Market Purchases

Total Market Purchases	1,787.915
BPA Market Purchase	1,787.915

Vera Water & Power

Fuel Mix

Biomass	0%
Coal	2%
Cogeneration	0%
Geothermal	0%
Hydro	88%
Landfill Gas	0%
Natural Gas	1%
Nuclear	10%
Other	0%
Petroleum	0%
Solar	0%
Waste	0%
Wind	0%
Total	100%

Vera Water & Power

Fuel Mix Detail

<u>Fuel</u>	MWh from Market Purchases	MWh from Claims on Resources	Total	Percent
Biomass	90.771	135.533	226.303	0.10%
Coal	4,169.737	0.000	4,169.737	1.80%
Cogeneration	0.000	0.000	0.000	0.00%
Geothermal	0.000	0.000	0.000	0.00%
Hydro	4,375.816	198,618.679	202,994.495	87.66%
Landfill Gas	22.658	0.000	22.658	0.01%
Natural Gas	1,632.826	193.268	1,826.094	0.79%
Nuclear	321.838	21,847.386	22,169.224	9.57%
Other	22.364	0.000	22.364	0.01%
Petroleum	31.852	18.047	49.899	0.02%
Solar	0.000	0.000	0.000	0.00%
Waste	78.897	19.329	98.226	0.04%
Wind	0.000	0.000	0.000	0.00%
Total	10,746.759	220,832.242	231,579.000	100.00%

Vera Water & Power

Claims on BPA

BPA Resource Mix	220,832.242
Biomass	135.533
Natural Gas	193.268
Nuclear	21,847.386
Petroleum (heavy oil)	18.047
Waste	19.329
Hydro	198,618.679

Market Purchases

Total Market Purchases	10,746.758
BPA Market Purchase	10,392.758
Utility Market Purchase	354.000

Yakama Power

Fuel Mix

Biomass	0%
Coal	2%
Cogeneration	0%
Geothermal	0%
Hydro	88%
Landfill Gas	0%
Natural Gas	1%
Nuclear	10%
Other	0%
Petroleum	0%
Solar	0%
Waste	0%
Wind	0%
Total	100%

Yakama Power

Fuel Mix Detail

<u>Fuel</u>	MWh from Market Purchases	MWh from Claims on Resources	Total	Percent
Biomass	23.277	35.939	59.216	0.10%
Coal	1,069.262	0.000	1,069.262	1.74%
Cogeneration	0.000	0.000	0.000	0.00%
Geothermal	0.000	0.000	0.000	0.00%
Hydro	1,122.108	52,667.455	53,789.563	87.73%
Landfill Gas	5.810	0.000	5.810	0.01%
Natural Gas	418.712	51.249	469.961	0.77%
Nuclear	82.530	5,793.243	5,875.773	9.58%
Other	5.735	0.000	5.735	0.01%
Petroleum	8.168	4.786	12.953	0.02%
Solar	0.000	0.000	0.000	0.00%
Waste	20.232	5.126	25.357	0.04%
Wind	0.000	0.000	0.000	0.00%
Total	2,755.834	58,557.797	61,313.631	100.00%

Yakama Power

Claims on BPA

BPA Resource Mix	58,557.797
Biomass	35.939
Natural Gas	51.249
Nuclear	5,793.243
Petroleum (heavy oil)	4.786
Waste	5.126
Hydro	52,667.455

Market Purchases

Total Market Purchases	2,755.834
BPA Market Purchase	2,755.834