Department of Commerce

Washington State Electric Utility Fuel Mix Disclosure Reports For Calendar Year 2016

October 2017
Report to the Legislature
Brian Bonlender, Director

Acknowledgements

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Forward

The Washington State Fuel Mix Disclosure process is designed to provide utilities an assessment of the mix of fuel sources associated with electrical generation used to serve 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, please 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 inform customers and policy makers about the characteristics of the electricity delivered by each retail supplier to consumers and businesses. Most retail suppliers use electricity from multiple sources, even if they operate their own power plants. In some cases retail suppliers obtain power without knowing the specific generation source. Power serving Washington utilities comes from three sources: 1) specific power plants, 2) the Bonneville Power Administration (BPA), and 3) unspecified power (labelled market purchases in the utility reports). Unspecified power is electricity obtained in a transaction where the seller does not identify a specific generating source, typically through short-term transactions in the bulk power markets.

In order to build a fuel mix picture for each utility, Commerce uses information reported by each utility about the quantity (megawatt-hours) of electricity from specific generating plants. The fuel source for the specified generating plants is provided by the U.S. Energy Information Administration (EIA). The fuel mix law requires that a utility have documentation of ownership or contractual rights from a specific generating facility in order to report a claim on that resource. To protect against double-counting of renewable energy sources, Commerce relies on the ownership of renewable energy certificates as evidence that the utility owns the right to make this claim.

Many utilities serve their retail customers using electricity provided by BPA, and BPA provides Commerce with information about the mix of resources used to generate this electricity.

The fuel mix law requires that Commerce assign fuel characteristics to power from unspecified sources based on the characteristics of all unclaimed power sources on the grid after specific plant claims have been removed from the total available power. This unclaimed, or residual power, is called the "net system power mix."

The fuel mix law defines the power grid, for the purpose of calculating the net system power mix, as the electricity generated within the U.S. portion of the Northwest Power Pool. The Northwest Power Pool (NWPP) includes Washington, Oregon, Idaho, Utah, and parts of California, Montana, Wyoming and Nevada. Resources from this region are included in the calculation regardless of whether there is any evidence that they are used to serve Washington customers. It does not include resources in the Canadian portion of the Northwest Power Pool or most resources in California.

The equation for determining the net system power mix is: System Power Generated in the NWPP (U.S. portion only) minus Power Claimed from Specific Plant Sources equals the remaining power, or Net System Power Mix. 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.

The specified claims from Washington and Oregon [1] account for about 41 percent of all generation in the NWPP. The residual 69 percent is used to calculate the fuel characteristics of the net system power mix. For each utility, Commerce assigns fuel characteristics in proportion to the resources in the net system power mix. For example, 33 percent of the net system power mix consists of coal-fired power. Therefore if a utility has 100 MWh of unspecified power, Commerce will add 33 MWh of coal to the utility's total claims for coal-fired power.

One effect of this calculation is that a utility's fuel mix will usually include some fossil fuel generation even if it does not own or contract for power from those specific resources. About 25 percent of the coal and 18 percent of the natural gas in Washington's overall fuel mix results directly from the net system power mix calculation. A utility can avoid this effect only by identifying all of the electricity sources used to serve its retail customers.

[1] Washington Department of Commerce produces a Fuel Mix Disclosure report for the state of Oregon. Accordingly, resource claims made by Oregon utilities are subtracted from the NWPP power generation.

What is the source of information for this report?

The fuel mix law requires that Commerce base the net system mix calculation on "actual generation by fuel mix in the Northwest power pool for the prior calendar year" and specifies that Commerce publish the net system mix calculation "on or before May 1st of each year, or as soon thereafter as practicable once the data […] is available."

The U.S. Energy Information Administration (EIA) publishes generation and fuel consumption data for each power plant in the United States in its report EIA-923. EIA publishes its "early release" version of the EIA-923 report on approximately August 31 each year for the previous calendar year. The "early release" version is subject to revision after publication. The EIA reports are available at: www.eia.gov/electricity/data/eia923/ .

Washington state electricity sector emissions are determined using the prorated EIA-923 fuel consumption information for all state power claims in combination with fuel specific emission rate data. Commerce has developed fuel specific emission rate database using information available from the EIA and the U.S. Environmental Protection Agency.

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

- After receiving draft 2016 Fuel Mix reports several utilities requested adjustments and/or corrections to their utility reports.
- For the 2016 Fuel Mix Disclosure report the output from several power plants that are located outside of the NWPP, but contribute only a portion of their power to utilities in the NWPP, were adjusted. Only the electric power used in the NWPP was recognized as being part of NWPP power generation. This change in accounting reduces the size of the NWPP power generation and as well as the net system mix.
- An estimate of the BPA Canadian Entitlement was made and treated as a claim against the BPA resource mix and thereby removed from the NWPP net system mix.

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 treated as unspecified (labeled Market Power in the report).
- “BPA Claims” includes only the portion of delivered BPA power that can be attributed to specific plants.
- Residual BPA Resource Mix: the portion of the BPA Resource Mix that is not claimed by Washington or Oregon utilities is incorporated into the NWPP Net System Mix.
- “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.

Fuel Mix Software Change

For the 2016 calendar year the Department of Commerce used the new Fuel Mix Software system to process data submitted by utilities and from other sources. The 2015 calendar report was the first use of the new software system. The advantages to the new software system are listed below:

Hosted in-house rather than via a contractor:

- Increased access to IS technical staff
- Greater programmatic input into system design and operation
- Centralized, robust software platform
- Renewed ability to document process

Improved access to data sources used by software system:

- Utility claims
- Power plant generation
- Ability to adjust claims and generation
- Emissions rates and plant emissions

Improved ability to upload data and analyze output:

- Upload process is streamlined self-regulating
- Interim reports allowing data comparisons
- Auditable and traceable features built-in

Washington State Electric Utilities: 2016 Graphs and Tables

Washington State Aggregate Fuel Mix

The Washington "fuel mix" is the state 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 2016 Fuel Mix (Percent)

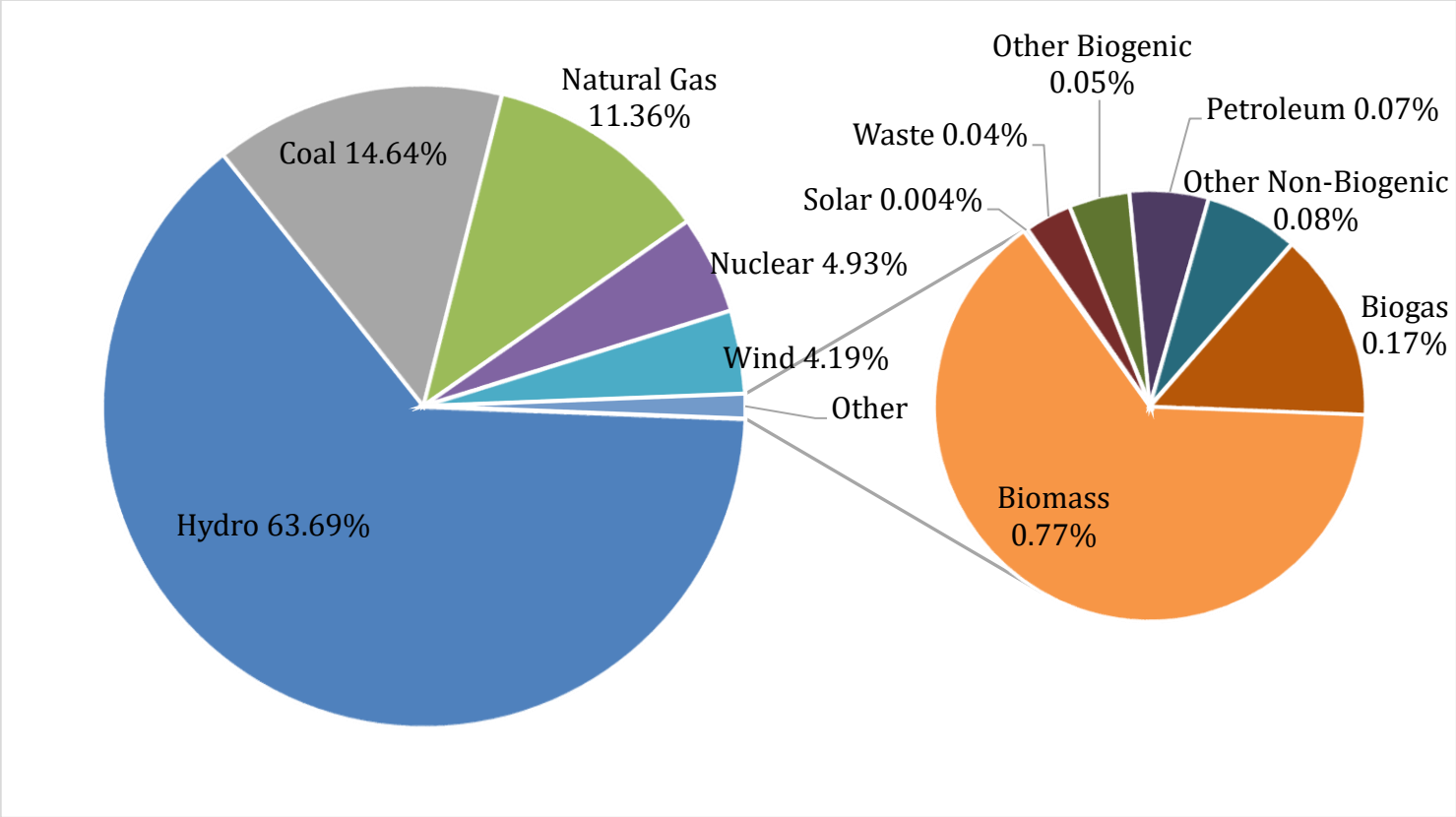


Table 1: Washington State Electric Utilities: Aggregate Fuel Mix 2016

Fuel Type	Unspecified (market) MWh	Specified (plant claim) MWh	Total Electric Power MWh	Percent
Biogas	0	148,177	148,177	0.17%
Biomass	139,324	536,325	675,649	0.77%
Coal	3,140,925	9,658,857	12,799,782	14.64%
Hydro	4,070,998	51,626,796	55,697,796	63.69%
Natural Gas	1,774,974	8,162,137	9,937,111	11.36%
Nuclear	219,707	4,088,940	4,308,647	4.93%
Other Biogenic	0	48,095	48,095	0.05%
Other Non-Biogenic	73,976	0	73,976	0.08%
Petroleum	46,585	15,303	61,888	0.07%
Solar	0	3,491	3,491	0.00%
Waste	0	36,723	36,723	0.04%
Wind	0	3,661,267	3,661,267	4.19%
Total	**9,466,489**	**77,986,111**	**87,452,602**	**100.00%**

Figure 2: Washington State Electric Utilities: Aggregate Fuel Mix Time Series 2001-2016 (Megawatt-hours)

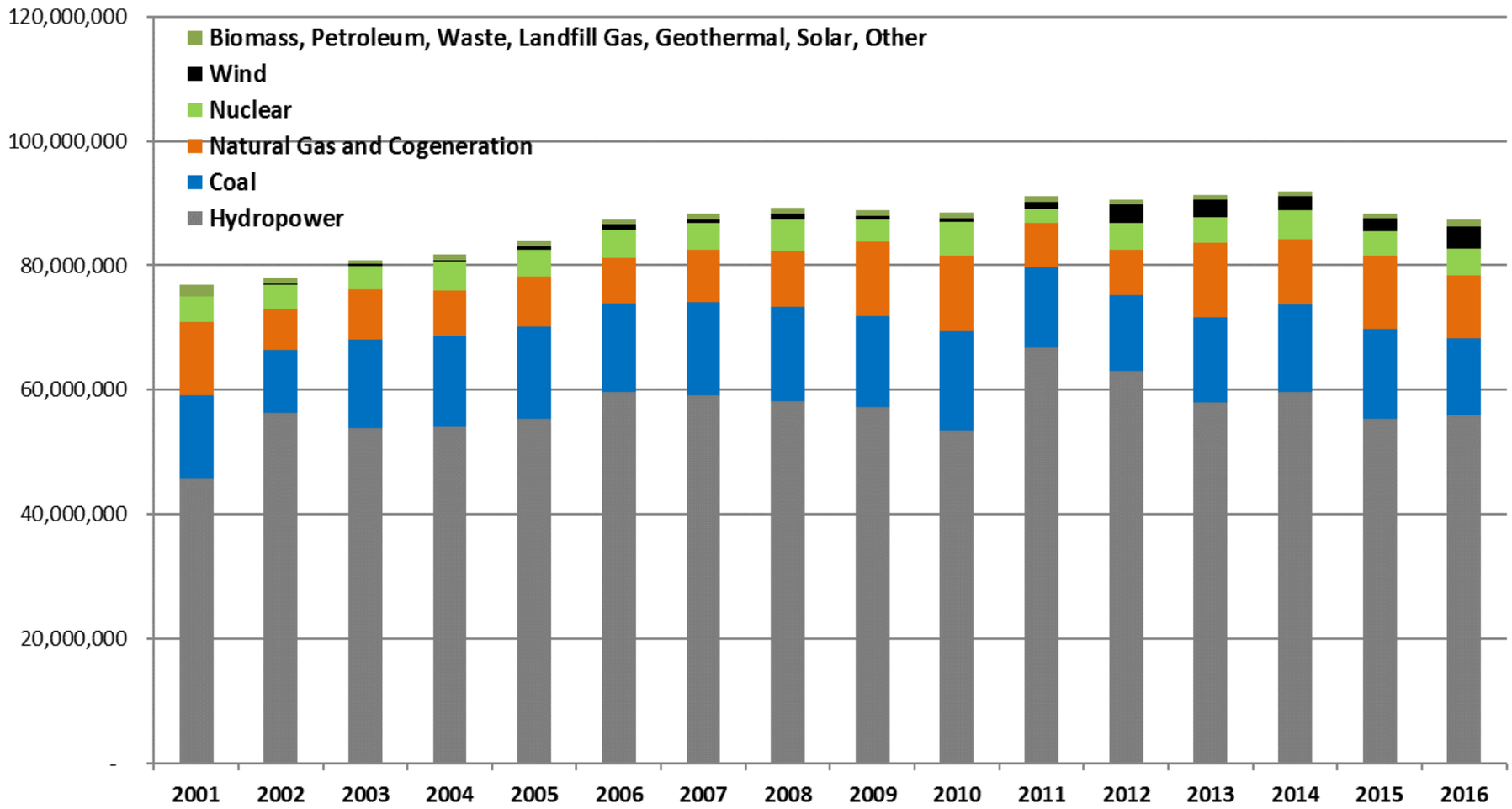


Table 2: Washington State Electric Utilities: Aggregate Fuel Mix Time Series 2001-2016 (Megawatt-hours)

Fuel Source	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Hydropwer	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	55,306,859	55,697,796
Coal	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	14,388,993	12,799,782
Cogeneration	5,954,725	3,971,751	3,590,493	2,717,321	2,660,660	2,766,515	2,157,302	1,635,296	1,867,355	1,731,728	1,319,055	486,609	1,126,515	926,691		
Natural Gas	5,908,568	2,634,328	4,370,728	4,662,035	5,325,475	4,553,447	6,302,442	7,385,757	9,979,345	10,476,257	5,684,223	6,952,877	10,823,275	9,515,792	11,807,835	9,937,111
Nuclear	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	4,021,955	4,308,647
Biomass	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	401,408	675,649
Petroleum	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	47,108	61,888
Waste	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	158,887	110,699
Geothermal	158,779	-	-	-	-	14,399	11,189	16,866	19,237	17,376	18,107	17,003	16,138	17,911	16,085	
Landfill Gas	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	133,132	148,177
Wind	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	2,029,032	3,661,267
Other		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		48,095
Solar												1,433	1,709	6,618	8,807	3,491
Total	**76,857,334**	**77,936,775**	**80,885,507**	**81,772,129**	**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**	**88,320,101**	**87,452,602**

Washington State Electric Utilities: Primary Emissions

Figure 3: Washington State Electric Utilities - Aggregate CO2 Emissions by Fuel Type 2016

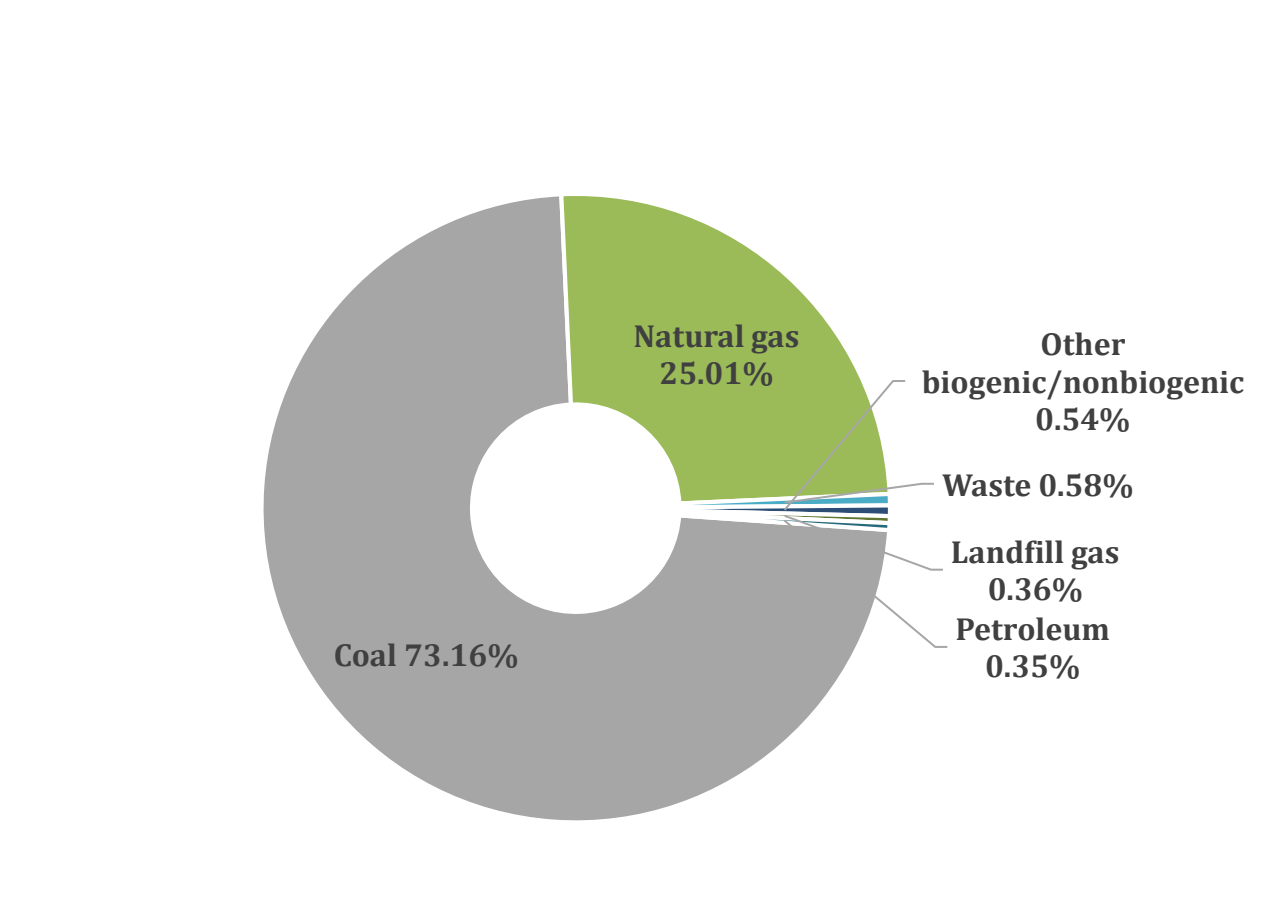


Table 3: Washington State Electric Utilities: Aggregate Primary Emissions 2016

Carbon Dioxide Emissions by Fuel Category	Short tons	Metric Tons
Coal	13,786,065	12,507,204
Natural gas	4,713,692	4,276,427
Waste	109,384	99,237
Other biogenic/nonbiogenic	102,173	92,695
Landfill gas	67,161	60,930
Petroleum	66,325	60,172
Total	**18,844,800**	**17,096,666**
Other Emissions, all fuel catgories	**Short tons**	**Metric Tons**
Sulfur Dioxide	36,169	32,814
Nitrogen Oxides	29,562	26,820
	Pounds	**Kilograms**
Mercury	375	170

Figure 4: Washington State Electric Utilities: Aggregate Primary Emissions 2005-2016 (short tons)

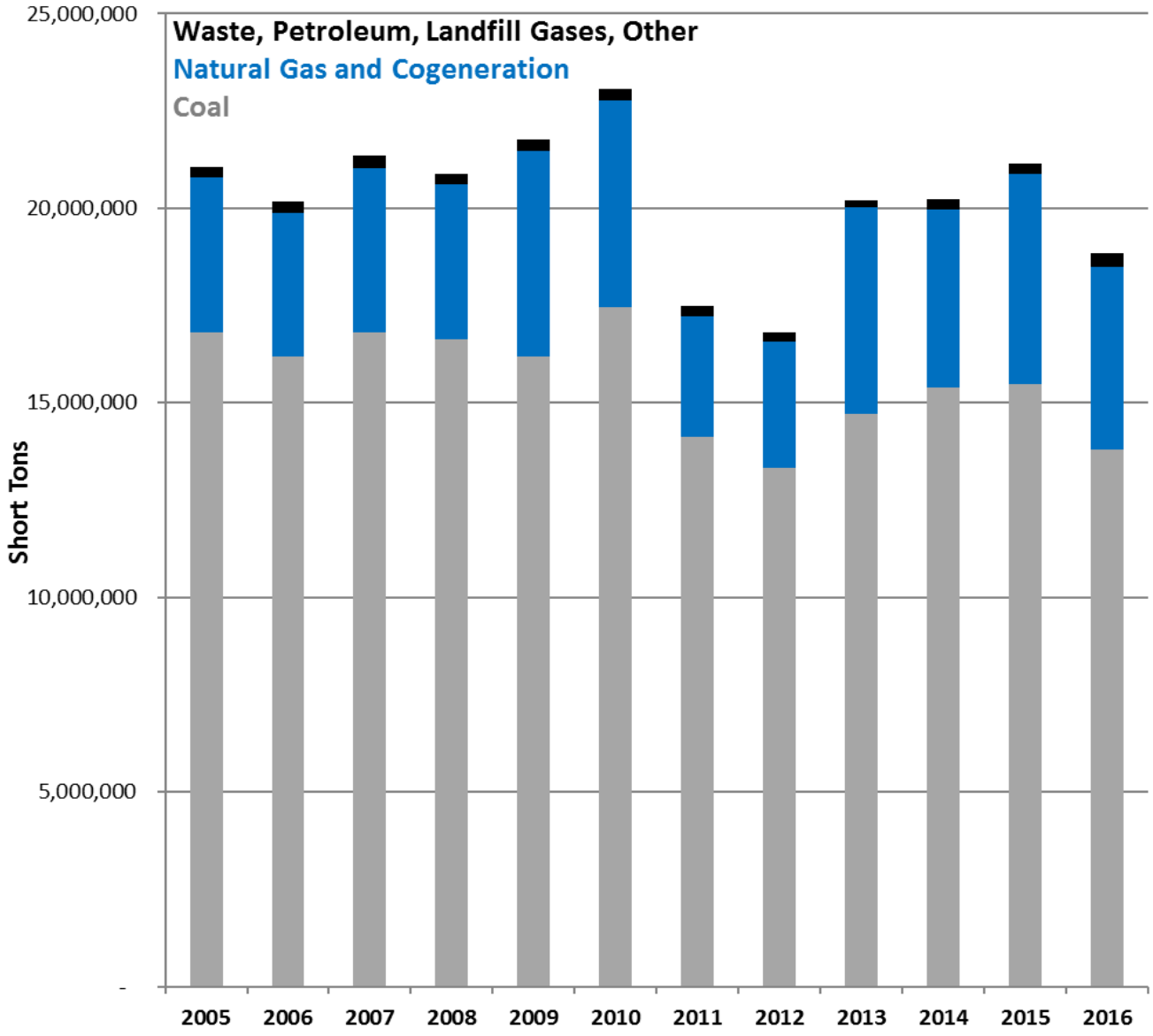


Table 4a: Washington State Electric Utilities: Aggregate Carbon Dioxide Emissions Time Series 2006-2016 (short tons)

Fuel	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
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	15,468,167	13,786,065
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	5,416,550	4,713,692
Waste	235,470	132,414	133,872	122,435	128,390	139,575	146,863	101,208	80,093	104,993	109,880	109,384
Petroleum	40,411	93,863	105,428	111,529	133,445	120,419	76,738	75,656	74,618	66,775	79,656	66,325
Landfill Gases	-	33,923	28,215	14,342	10,016	10,694	33,894	57,696	43,376	75,498	73,299	67,161
Other	-	3,631	4,959	-	-	-	-	-	-	-	-	102,173
Total	**21,060,856**	**20,146,152**	**21,311,653**	**20,870,942**	**21,751,625**	**23,049,776**	**17,470,620**	**16,796,730**	**20,212,854**	**20,221,878**	**21,147,553**	**18,844,800**

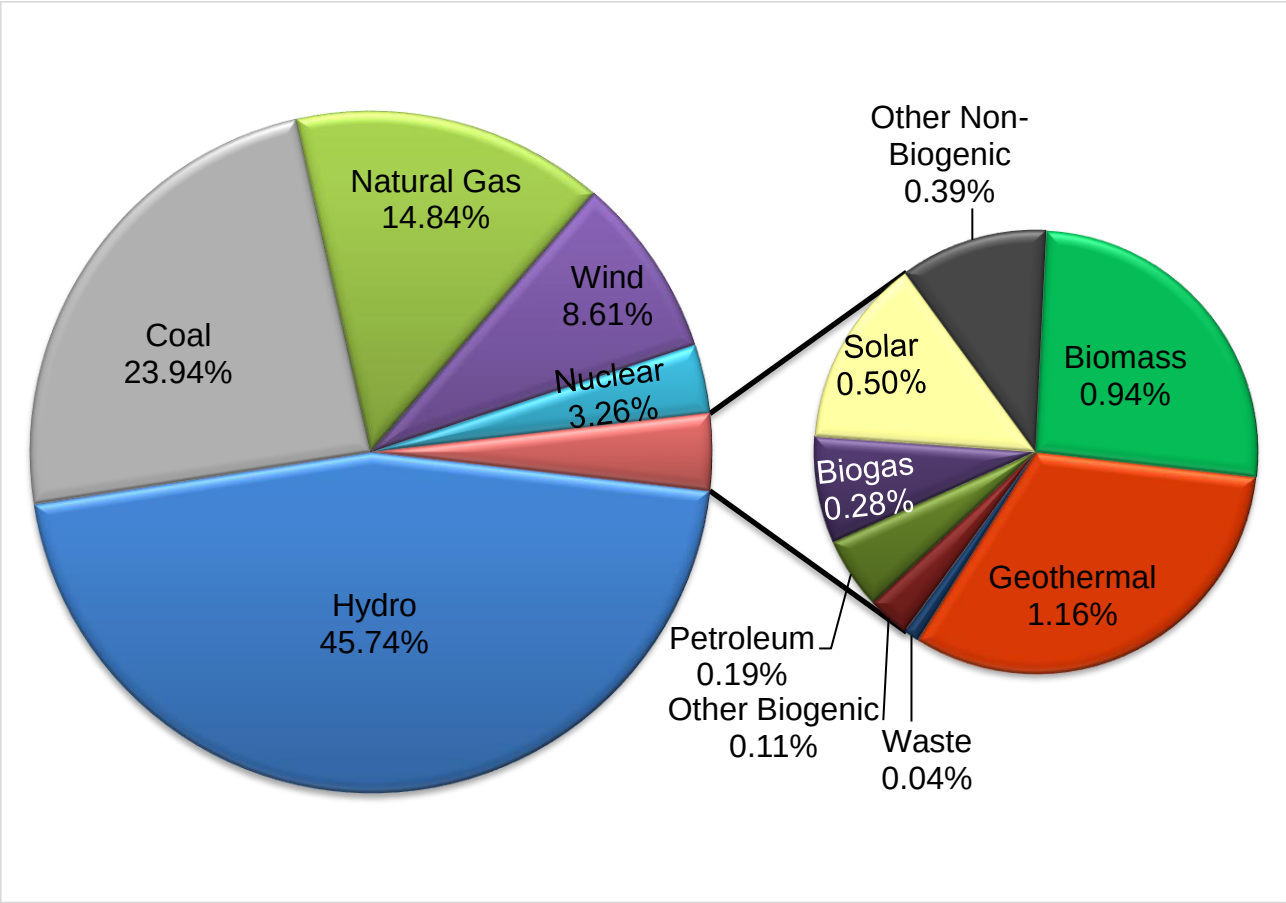
Table 4b: Washington State Electric Utilities: Aggregate Carbon Dioxide Emissions Time Series 2006-2016 (metric tons)

Fuel	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
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	13,342,773	13,960,488	14,032,474	12,506,498
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	4,814,303	4,160,160	4,913,807	4,276,186
Waste	213,615	120,124	121,447	111,071	116,473	126,620	133,232	91,814	72,659	95,248	99,681	99,231
Petroleum	36,660	85,151	95,643	101,177	121,059	109,242	69,616	68,634	67,692	60,577	72,263	60,169
Landfill Gases	-	30,774	25,596	13,011	9,086	9,701	30,748	52,341	39,350	68,490	66,496	60,927
Other	-	3,294	4,499	-	-	-	-	-	-	-	-	92,690
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**	**18,336,778**	**18,344,964**	**19,184,722**	**17,095,701**

Northwest Power Pool Fuel Mix and Net System Fuel Mix

Figure 5 and Table 5 show the mix of generation resources for the NWPP in 2016. Once Commerce removes all Oregon and Washington utilities' specified claims, and unclaimed renewables, [2] the result is the net system fuel mix of the NWPP, which is presented in Table 6.

Figure 5: Northwest Power Pool Generation 2016



[2] Certain residual renewables power resources (solar, wind, landfill gas and geothermal) are removed from the Net System Mix. These resources are used for Renewable Portfolio Standard compliance by other states in the NWPP region and California. There is also an adjustment for "dedicated" BPA generation resources which are used outside of Washington and Oregon.

Table 5: 2016 Northwest Power Total Generation[3]

Fuel Category	Net Generation MWh	Fuel Category Percentage
Biogas	813,420	0.28%
Biomass	2,789,893	0.94%
Coal	70,740,398	23.94%
Geothermal	3,424,117	1.16%
Hydro	135,176,003	45.74%
Natural Gas	43,844,769	14.84%
Nuclear	9,625,622	3.26%
Other Biogenic	336,556	0.11%
Other Non-Biogenic	1,160,607	0.39%
Petroleum	553,479	0.19%
Solar	1,464,142	0.50%
Waste	105,878	0.04%
Wind	25,442,673	8.61%
Total	**295,477,557**	**100.00%**

Table 6: Northwest Power Pool Net System Power Fuel Mix 2016

Fuel Type	Net System Mix: MWh	Percent
Biogas	-	0.00%
Biomass	2,183,477	1.49%
Coal	49,224,475	33.67%
Geothermal	-	0.00%
Hydro	61,695,506	42.19%
Natural Gas	27,792,522	19.01%
Nuclear	3,443,248	2.35%
Other Biogenic	-	0.00%
Other Non-Biogenic	1,159,358	0.79%
Petroleum	729,999	0.50%
Solar	-	0.00%
Waste	-	0.00%
Wind	-	0.00%
Total	**146,228,585**	**100.00%**

[3] Net power plant generation is used in WA fuel mix disclosure process. Some entities report power as gross generation, which does not include power plant parasitic losses.

Figure 6: Northwest Power Pool Net System Fuel Mix: Carbon Dioxide Emissions 2016

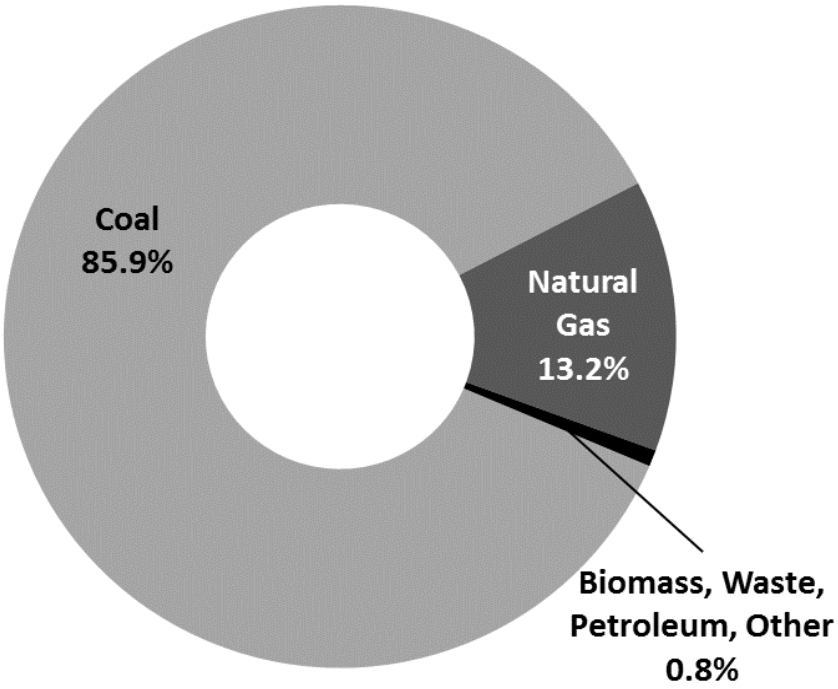


Table 7: Northwest Power Pool Net System Fuel Mix: Primary Emissions 2016

Carbon Dioxide Emissions	Short Tons	Metric Tons
Coal	51,421,363	46,651,271
Natural Gas	12,616,111	11,445,780
Waste, Landfill, Petroleum, Other	1,387,207	1,258,523
Total	**65,424,681**	59,355,574
Other Emissions	**Short Tons**	**Metric Tons**
Sulfur Dioxide	94,849	86,050
Nitrogen Oxides	74,457	67,550
	Pounds	**Kilograms**
Mercury	1,521	691

Alcoa

Utility Fuel Mix

Fuel	Percent	MWh from Claims on Resources	Total MWh from Market Purchases	Total MWh
Biogas	0.00 %	0	0	0
Biomass	0.11 %	85	87	172
Coal	1.23 %	0	1,951	1,951
Geothermal	0.00 %	0	0	0
Hydro	86.75 %	134,575	2,529	137,103
Natural Gas	0.71 %	12	1,103	1,114
Nuclear	11.15 %	17,488	136	17,624
Other Biogenic	0.00 %	0	0	0
Other Non-Biogenic	0.03 %	0	46	46
Petroleum	0.02 %	0	29	29
Solar	0.00 %	0	0	0
Waste	0.00 %	0	0	0
Wind	0.00 %	0	0	0
Total	**100.00 %**	**152,160**	**5,881**	**158,039**

BPA Claims

Fuel	MWh
Biomass	85
Hydro	134,575
Natural Gas	12
Nuclear	17,488
SubTotal	**152,160**
BPA Market Purchase	5,881
BPA Total	**158,041**

Alder Mutual Light

Utility Fuel Mix

Fuel	Percent	MWh from Claims on Resources	Total MWh from Market Purchases	Total MWh
Biogas	0.00 %	0	0	0
Biomass	0.11 %	3	3	5
Coal	1.23 %	0	58	58
Geothermal	0.00 %	0	0	0
Hydro	86.75 %	4,028	76	4,103
Natural Gas	0.71 %	0	33	33
Nuclear	11.15 %	523	4	527
Other Biogenic	0.00 %	0	0	0
Other Non-Biogenic	0.03 %	0	1	1
Petroleum	0.02 %	0	1	1
Solar	0.00 %	0	0	0
Waste	0.00 %	0	0	0
Wind	0.00 %	0	0	0
Total	**100.00 %**	**4,554**	**176**	**4,728**

BPA Claims

Fuel	MWh
Biomass	3
Hydro	4,028
Nuclear	523
SubTotal	**4,554**
BPA Market Purchase	176
BPA Total	**4,730**

Asotin County PUD #1

Utility Fuel Mix

Fuel	Percent	MWh from Claims on Resources	Total MWh from Market Purchases	Total MWh
Biogas	0.00 %	0	0	0
Biomass	0.11 %	3	3	5
Coal	1.23 %	0	61	61
Geothermal	0.00 %	0	0	0
Hydro	86.75 %	4,208	79	4,287
Natural Gas	0.71 %	0	34	35
Nuclear	11.15 %	547	4	551
Other Biogenic	0.00 %	0	0	0
Other Non-Biogenic	0.03 %	0	1	1
Petroleum	0.02 %	0	1	1
Solar	0.00 %	0	0	0
Waste	0.00 %	0	0	0
Wind	0.00 %	0	0	0
Total	**100.00 %**	**4,758**	**183**	**4,941**

BPA Claims

Fuel	MWh
Biomass	3
Hydro	4,208
Nuclear	547
SubTotal	**4,758**
BPA Market Purchase	183
BPA Total	**4,941**

Avista (WA)

Utility Fuel Mix

Fuel	Percent	MWh from Claims on Resources	Total MWh from Market Purchases	Total MWh
Biogas	0.00 %	0	0	0
Biomass	3.27 %	195,804	0	195,804
Coal	14.84 %	889,734	0	889,734
Geothermal	0.00 %	0	0	0
Hydro	44.75 %	2,682,694	0	2,682,694
Natural Gas	32.01 %	1,918,899	0	1,918,899
Nuclear	0.00 %	0	0	0
Other Biogenic	0.64 %	38,222	0	38,222
Other Non-Biogenic	0.00 %	0	0	0
Petroleum	0.02 %	1,063	0	1,063
Solar	0.00 %	0	0	0
Waste	0.61 %	36,723	0	36,723
Wind	3.86 %	231,304	0	231,304
Total	**100.00 %**	**5,994,443**	**0**	**5,994,443**

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Boulder Park	Natural Gas	11,233	11,233
Cabinet Gorge	Water	559,208	559,208
Colstrip	Subbituminous Coal	889,734	
	Distillate Fuel Oil	620	
	Gaseous Propane	0	
	Waste/Other Oil	443	890,798
Coyote Springs II	Natural Gas	1,080,218	1,080,218
Kettle Falls Generating Station	Natural Gas	1,927	
	Wood/Wood Waste Solids	175,491	177,418
Little Falls (WA)	Water	111,598	111,598
Long Lake	Water	321,439	321,439
Meyers Falls	Water	6,041	6,041
Monroe Street	Water	50,336	50,336
Nine Mile	Water	56,536	56,536
Northeast (WA)	Natural Gas	665	665
Noxon Rapids	Water	881,263	881,263
Palouse	Wind	231,304	231,304
Plummer Cogen	Wood/Wood Waste Solids	20,313	20,313
Post Falls	Water	45,966	45,966
Priest Rapids	Water	210,339	210,339
Rathdrum	Natural Gas	24,852	24,852
Rathdrum Power LLC	Natural Gas	800,005	800,005
Rocky Reach	Water	267,399	267,399
Sheep Creek Hydro	Water	6,427	6,427
Spokane Waste to Energy	Non-biogenic Municipal Solid Waste	36,723	
	Biogenic Municipal Solid Waste	38,222	74,946
Upper Falls	Water	32,591	32,591
Upriver Dam Hydro Plant	Water	35,290	35,290
Wells	Water	98,263	98,263
Total		**5,994,446**	**5,994,448**

Benton County PUD #1

Utility Fuel Mix

Fuel	Percent	MWh from Claims on Resources	Total MWh from Market Purchases	Total MWh
Biogas	0.00 %	0	0	0
Biomass	0.17 %	796	2,091	2,887
Coal	2.70 %	0	47,140	47,140
Geothermal	0.00 %	0	0	0
Hydro	76.30 %	1,270,966	61,098	1,332,064
Natural Gas	5.62 %	71,504	26,639	98,143
Nuclear	9.55 %	163,407	3,297	166,705
Other Biogenic	0.00 %	0	0	0
Other Non-Biogenic	0.06 %	0	1,110	1,110
Petroleum	0.04 %	0	699	699
Solar	0.08 %	1,432	0	1,432
Waste	0.00 %	0	0	0
Wind	5.48 %	95,631	0	95,631
Total	**100.00 %**	**1,603,736**	**142,074**	**1,745,811**

BPA Claims

Fuel	MWh
Biomass	796
Hydro	1,257,480
Natural Gas	111
Nuclear	163,407
SubTotal	**1,421,794**
BPA Market Purchase	54,943
BPA Total	**1,476,737**

Market Purchases

Type	MWh
Utility Market Purchase	87,131
Total	**87,131**

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Condon Windpower LLC	Wind	2,162	2,162
Distributed Generation--Solar (WA)	Solar	1,432	1,432
FPL Energy Vansycle LLC (WA)	Wind	0	0
Frederickson Power LP	Natural Gas	71,393	71,393
Klondike Wind Power	Wind	1,340	1,340
Klondike Windpower III	Wind	2,737	2,737
Nine Canyon	Wind	43,050	43,050
Packwood	Water	13,486	13,486
White Creek Wind Farm	Wind	46,342	46,342
Total		**181,942**	**181,942**

Benton Rural Electric Assn

Utility Fuel Mix

Fuel	Percent	MWh from Claims on Resources	Total MWh from Market Purchases	Total MWh
Biogas	0.00 %	0	0	0
Biomass	0.18 %	325	808	1,133
Coal	2.87 %	0	18,205	18,205
Geothermal	0.00 %	0	0	0
Hydro	84.51 %	513,456	23,596	537,051
Natural Gas	1.63 %	45	10,288	10,333
Nuclear	10.70 %	66,723	1,273	67,996
Other Biogenic	0.00 %	0	0	0
Other Non-Biogenic	0.07 %	0	429	429
Petroleum	0.04 %	0	270	270
Solar	0.00 %	0	0	0
Waste	0.00 %	0	0	0
Wind	0.00 %	0	0	0
Total	**100.00 %**	**580,549**	**54,869**	**635,417**

BPA Claims

Fuel	MWh
Biomass	325
Hydro	513,456
Natural Gas	45
Nuclear	66,723
SubTotal	**580,549**
BPA Market Purchase	22,435
BPA Total	**602,984**

Market Purchases

Type	MWh
Utility Market Purchase	32,433
Total	**32,433**

Big Bend Electric Coop

Utility Fuel Mix

Fuel	Percent	MWh from Claims on Resources	Total MWh from Market Purchases	Total MWh
Biogas	0.00 %	0	0	0
Biomass	0.11 %	300	304	604
Coal	1.23 %	0	6,861	6,861
Geothermal	0.00 %	0	0	0
Hydro	86.75 %	473,251	8,892	482,144
Natural Gas	0.71 %	42	3,877	3,919
Nuclear	11.15 %	61,498	480	61,978
Other Biogenic	0.00 %	0	0	0
Other Non-Biogenic	0.03 %	0	162	162
Petroleum	0.02 %	0	102	102
Solar	0.00 %	0	0	0
Waste	0.00 %	0	0	0
Wind	0.00 %	0	0	0
Total	**100.00 %**	**535,091**	**20,678**	**555,770**

BPA Claims

Fuel	MWh
Biomass	300
Hydro	473,251
Natural Gas	42
Nuclear	61,498
SubTotal	**535,091**
BPA Market Purchase	20,678
BPA Total	**555,769**

BPA Federal Claimant (WA)

Utility Fuel Mix

Fuel	Percent	MWh from Claims on Resources	Total MWh from Market Purchases	Total MWh
Biogas	0.00 %	0	0	0
Biomass	0.11 %	377	383	760
Coal	1.23 %	0	8,629	8,629
Geothermal	0.00 %	0	0	0
Hydro	86.75 %	595,236	11,185	606,420
Natural Gas	0.71 %	52	4,877	4,929
Nuclear	11.15 %	77,350	604	77,953
Other Biogenic	0.00 %	0	0	0
Other Non-Biogenic	0.03 %	0	203	203
Petroleum	0.02 %	0	128	128
Solar	0.00 %	0	0	0
Waste	0.00 %	0	0	0
Wind	0.00 %	0	0	0
Total	**100.00 %**	**673,015**	**26,009**	**699,022**

BPA Claims

Fuel	MWh
Biomass	377
Hydro	595,236
Natural Gas	52
Nuclear	77,350
SubTotal	**673,015**
BPA Market Purchase	26,009
BPA Total	**699,024**

Centralia City Light

Utility Fuel Mix

Fuel	Percent	MWh from Claims on Resources	Total MWh from Market Purchases	Total MWh
Biogas	0.00 %	0	0	0
Biomass	0.08 %	99	101	200
Coal	0.87 %	0	2,275	2,275
Geothermal	0.00 %	0	0	0
Hydro	90.63 %	233,182	2,949	236,131
Natural Gas	0.50 %	14	1,286	1,299
Nuclear	7.89 %	20,393	159	20,552
Other Biogenic	0.00 %	0	0	0
Other Non-Biogenic	0.02 %	0	54	54
Petroleum	0.01 %	0	34	34
Solar	0.00 %	0	0	0
Waste	0.00 %	0	0	0
Wind	0.00 %	0	0	0
Total	**100.00 %**	**253,688**	**6,858**	**260,545**

BPA Claims

Fuel	MWh
Biomass	99
Hydro	156,929
Natural Gas	14
Nuclear	20,393
SubTotal	**177,435**
BPA Market Purchase	6,858
BPA Total	**184,293**

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Yelm	Water	76,253	76,253
Total		**76,253**	**76,253**

Chelan County PUD #1

Utility Fuel Mix

Fuel	Percent	MWh from Claims on Resources	Total MWh from Market Purchases	Total MWh
Biogas	0.00 %	0	0	0
Biomass	0.04 %	0	603	603
Coal	0.83 %	0	13,595	13,595
Geothermal	0.00 %	0	0	0
Hydro	98.56 %	1,601,744	17,620	1,619,364
Natural Gas	0.47 %	0	7,682	7,682
Nuclear	0.06 %	0	951	951
Other Biogenic	0.00 %	0	0	0
Other Non-Biogenic	0.02 %	0	320	320
Petroleum	0.01 %	19	202	221
Solar	0.00 %	0	0	0
Waste	0.00 %	0	0	0
Wind	0.01 %	201	0	201
Total	**100.00 %**	**1,601,964**	**40,973**	**1,642,937**

Market Purchases

Type	MWh
Utility Market Purchase	40,973
Total	**40,973**

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Chelan	Water	436,567	436,567
Nine Canyon	Wind	201	201
Rock Island	Water	146,862	146,862
Rocky Reach	Water	1,017,247	1,017,247
Stehekin Diesel	Distillate Fuel Oil	19	19
Stehekin Hydro	Water	1,068	1,068
Total		**1,601,964**	**1,601,964**

Cheney Light Department

Utility Fuel Mix

Fuel	Percent	MWh from Claims on Resources	Total MWh from Market Purchases	Total MWh
Biogas	0.00 %	0	0	0
Biomass	0.13 %	75	108	183
Coal	1.74 %	0	2,445	2,445
Geothermal	0.00 %	0	0	0
Hydro	86.06 %	118,084	3,169	121,252
Natural Gas	0.99 %	10	1,382	1,392
Nuclear	11.01 %	15,345	171	15,516
Other Biogenic	0.00 %	0	0	0
Other Non-Biogenic	0.04 %	0	58	58
Petroleum	0.03 %	0	36	36
Solar	0.00 %	0	0	0
Waste	0.00 %	0	0	0
Wind	0.00 %	0	0	0
Total	**100.00 %**	**133,514**	**7,369**	**140,882**

BPA Claims

Fuel	MWh
Biomass	75
Hydro	118,084
Natural Gas	10
Nuclear	15,345
SubTotal	**133,514**
BPA Market Purchase	5,159
BPA Total	**138,673**

Market Purchases

Type	MWh
Utility Market Purchase	2,209
Total	**2,209**

Chewelah Electric Department

Utility Fuel Mix

Fuel	Percent	MWh from Claims on Resources	Total MWh from Market Purchases	Total MWh
Biogas	0.00 %	0	0	0
Biomass	0.11 %	12	12	23
Coal	1.23 %	0	264	264
Geothermal	0.00 %	0	0	0
Hydro	86.75 %	18,226	342	18,568
Natural Gas	0.71 %	2	149	151
Nuclear	11.15 %	2,368	18	2,387
Other Biogenic	0.00 %	0	0	0
Other Non-Biogenic	0.03 %	0	6	6
Petroleum	0.02 %	0	4	4
Solar	0.00 %	0	0	0
Waste	0.00 %	0	0	0
Wind	0.00 %	0	0	0
Total	**100.00 %**	**20,608**	**795**	**21,403**

BPA Claims

Fuel	MWh
Biomass	12
Hydro	18,226
Natural Gas	2
Nuclear	2,368
SubTotal	**20,608**
BPA Market Purchase	795
BPA Total	**21,403**

City of Blaine

Utility Fuel Mix

Fuel	Percent	MWh from Claims on Resources	Total MWh from Market Purchases	Total MWh
Biogas	0.00 %	0	0	0
Biomass	0.11 %	43	43	86
Coal	1.23 %	0	979	979
Geothermal	0.00 %	0	0	0
Hydro	86.75 %	67,506	1,268	68,775
Natural Gas	0.71 %	6	553	559
Nuclear	11.15 %	8,772	68	8,841
Other Biogenic	0.00 %	0	0	0
Other Non-Biogenic	0.03 %	0	23	23
Petroleum	0.02 %	0	15	15
Solar	0.00 %	0	0	0
Waste	0.00 %	0	0	0
Wind	0.00 %	0	0	0
Total	**100.00 %**	**76,327**	**2,949**	**79,278**

BPA Claims

Fuel	MWh
Biomass	43
Hydro	67,506
Natural Gas	6
Nuclear	8,772
SubTotal	**76,327**
BPA Market Purchase	2,949
BPA Total	**79,276**

Clallam County PUD #1

Utility Fuel Mix

Fuel	Percent	MWh from Claims on Resources	Total MWh from Market Purchases	Total MWh
Biogas	0.00 %	0	0	0
Biomass	0.11 %	339	345	684
Coal	1.21 %	0	7,773	7,773
Geothermal	0.00 %	0	0	0
Hydro	86.97 %	546,312	10,075	556,387
Natural Gas	0.69 %	47	4,393	4,440
Nuclear	10.97 %	69,673	544	70,217
Other Biogenic	0.00 %	0	0	0
Other Non-Biogenic	0.03 %	0	183	183
Petroleum	0.02 %	0	115	115
Solar	0.00 %	0	0	0
Waste	0.00 %	0	0	0
Wind	0.00 %	0	0	0
Total	**100.00 %**	**616,371**	**23,428**	**639,799**

BPA Claims

Fuel	MWh
Biomass	339
Hydro	536,163
Natural Gas	47
Nuclear	69,673
SubTotal	**606,222**
BPA Market Purchase	23,428
BPA Total	**629,650**

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Distributed Generation--Hydro (WA)	Water	293	293
Packwood	Water	9,856	9,856
Total		**10,149**	**10,149**

Clark County PUD #1

Utility Fuel Mix

Fuel	Percent	MWh from Claims on Resources	Total MWh from Market Purchases	Total MWh
Biogas	0.00 %	0	0	0
Biomass	0.11 %	1,591	3,486	5,077
Coal	1.73 %	0	78,581	78,581
Geothermal	0.00 %	0	0	0
Hydro	58.02 %	2,530,087	101,850	2,631,938
Natural Gas	32.75 %	1,441,327	44,407	1,485,734
Nuclear	7.32 %	326,532	5,497	332,029
Other Biogenic	0.00 %	0	0	0
Other Non-Biogenic	0.04 %	0	1,851	1,851
Petroleum	0.03 %	0	1,165	1,165
Solar	0.00 %	0	0	0
Waste	0.00 %	0	0	0
Wind	0.00 %	0	0	0
Total	**100.00 %**	**4,299,537**	**236,837**	**4,536,375**

BPA Claims

Fuel	MWh
Biomass	1,591
Hydro	2,512,786
Natural Gas	222
Nuclear	326,532
SubTotal	**2,841,131**
BPA Market Purchase	109,791
BPA Total	**2,950,922**

Market Purchases

Type	MWh
Utility Market Purchase	127,046
Total	**127,046**

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Packwood	Water	17,301	17,301
River Road Gen Plant	Natural Gas	1,441,105	1,441,105
Total		**1,458,406**	**1,458,406**

Clearwater Power (WA)

Utility Fuel Mix

Fuel	Percent	MWh from Claims on Resources	Total MWh from Market Purchases	Total MWh
Biogas	0.00 %	0	0	0
Biomass	0.11 %	12	12	23
Coal	1.23 %	0	265	265
Geothermal	0.00 %	0	0	0
Hydro	86.75 %	18,308	344	18,652
Natural Gas	0.71 %	2	150	152
Nuclear	11.15 %	2,379	19	2,398
Other Biogenic	0.00 %	0	0	0
Other Non-Biogenic	0.03 %	0	6	6
Petroleum	0.02 %	0	4	4
Solar	0.00 %	0	0	0
Waste	0.00 %	0	0	0
Wind	0.00 %	0	0	0
Total	**100.00 %**	**20,701**	**800**	**21,500**

BPA Claims

Fuel	MWh
Biomass	12
Hydro	18,308
Natural Gas	2
Nuclear	2,379
SubTotal	**20,701**
BPA Market Purchase	800
BPA Total	**21,501**

Columbia Rural Electric Assn (WA)

Utility Fuel Mix

Fuel	Percent	MWh from Claims on Resources	Total MWh from Market Purchases	Total MWh
Biogas	0.00 %	0	0	0
Biomass	0.11 %	186	189	376
Coal	1.23 %	0	4,266	4,266
Geothermal	0.00 %	0	0	0
Hydro	86.75 %	294,255	5,529	299,784
Natural Gas	0.71 %	26	2,411	2,437
Nuclear	11.15 %	38,238	298	38,536
Other Biogenic	0.00 %	0	0	0
Other Non-Biogenic	0.03 %	0	100	100
Petroleum	0.02 %	0	63	63
Solar	0.00 %	0	0	0
Waste	0.00 %	0	0	0
Wind	0.00 %	0	0	0
Total	**100.00 %**	**332,705**	**12,856**	**345,562**

BPA Claims

Fuel	MWh
Biomass	186
Hydro	294,255
Natural Gas	26
Nuclear	38,238
SubTotal	**332,705**
BPA Market Purchase	12,856
BPA Total	**345,561**

Coulee Dam, Town of

Utility Fuel Mix

Fuel	Percent	MWh from Claims on Resources	Total MWh from Market Purchases	Total MWh
Biogas	0.00 %	0	0	0
Biomass	0.11 %	9	9	17
Coal	1.23 %	0	198	198
Geothermal	0.00 %	0	0	0
Hydro	86.75 %	13,689	257	13,946
Natural Gas	0.71 %	1	112	113
Nuclear	11.15 %	1,779	14	1,793
Other Biogenic	0.00 %	0	0	0
Other Non-Biogenic	0.03 %	0	5	5
Petroleum	0.02 %	0	3	3
Solar	0.00 %	0	0	0
Waste	0.00 %	0	0	0
Wind	0.00 %	0	0	0
Total	**100.00 %**	**15,478**	**598**	**16,075**

BPA Claims

Fuel	MWh
Biomass	9
Hydro	13,689
Natural Gas	1
Nuclear	1,779
SubTotal	**15,478**
BPA Market Purchase	598
BPA Total	**16,076**

Cowlitz County PUD #1

Utility Fuel Mix

Fuel	Percent	MWh from Claims on Resources	Total MWh from Market Purchases	Total MWh
Biogas	0.00 %	0	0	0
Biomass	4.45 %	220,500	5,723	226,223
Coal	3.01 %	24,172	129,018	153,190
Geothermal	0.00 %	0	0	0
Hydro	77.20 %	3,758,176	167,222	3,925,398
Natural Gas	2.16 %	36,705	72,910	109,614
Nuclear	9.67 %	482,835	9,025	491,859
Other Biogenic	0.19 %	9,676	0	9,676
Other Non-Biogenic	0.06 %	0	3,039	3,039
Petroleum	0.05 %	597	1,914	2,511
Solar	0.00 %	0	0	0
Waste	0.00 %	0	0	0
Wind	3.21 %	163,175	0	163,175
Total	**100.00 %**	**4,695,836**	**388,851**	**5,084,685**

BPA Claims

Fuel	MWh
Biomass	2,353
Hydro	3,715,591
Natural Gas	328
Nuclear	482,835
SubTotal	**4,201,107**
BPA Market Purchase	162,347
BPA Total	**4,363,454**

Market Purchases

Type	MWh
Utility Market Purchase	226,503
Total	**226,503**

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Condon Windpower LLC	Wind	1,745	1,745
FPL Energy Vansycle LLC (WA)	Wind	3,080	3,080
Harvest Wind Project	Wind	54,250	54,250
Klondike Wind Power	Wind	1,082	1,082
Klondike Windpower III	Wind	2,211	2,211
Longview Fibre	Black Liquor	58,785	
	Wood/Wood Waste Solids	14,209	
	Natural Gas	7,897	
	Other Biomass Liquids	0	80,891
Nine Canyon	Wind	2,729	2,729
Priest Rapids	Water	1,899	1,899
Swift 1	Water	7,620	7,620
Swift 2	Water	23,259	23,259
Wanapum	Water	9,807	9,807
Weyerhaeuser Longview WA	Natural Gas	28,480	
	Sludge Waste	9,676	
	Distillate Fuel Oil	45	
	Residual Fuel Oil	552	
	Wood/Wood Waste Solids	31,722	
	Subbituminous Coal	24,172	
	Black Liquor	113,431	208,079
White Creek Wind Farm	Wind	98,078	98,078
Total		**494,729**	**494,730**

Douglas County PUD #1

Utility Fuel Mix

Fuel	Percent	MWh from Claims on Resources	Total MWh from Market Purchases	Total MWh
Biogas	0.00 %	0	0	0
Biomass	0.00 %	0	0	0
Coal	0.00 %	0	0	0
Geothermal	0.00 %	0	0	0
Hydro	100.00 %	847,851	0	847,851
Natural Gas	0.00 %	0	0	0
Nuclear	0.00 %	0	0	0
Other Biogenic	0.00 %	0	0	0
Other Non-Biogenic	0.00 %	0	0	0
Petroleum	0.00 %	0	0	0
Solar	0.00 %	0	0	0
Waste	0.00 %	0	0	0
Wind	0.00 %	0	0	0
Total	**100.00 %**	**847,851**	**0**	**847,851**

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Rocky Reach	Water	184,429	184,429
Wells	Water	663,422	663,422
Total		**847,851**	**847,851**

Eatonville Electric Department

Utility Fuel Mix

Fuel	Percent	MWh from Claims on Resources	Total MWh from Market Purchases	Total MWh
Biogas	0.00 %	0	0	0
Biomass	0.11 %	14	15	29
Coal	1.23 %	0	332	332
Geothermal	0.00 %	0	0	0
Hydro	86.75 %	22,898	430	23,329
Natural Gas	0.71 %	2	188	190
Nuclear	11.15 %	2,976	23	2,999
Other Biogenic	0.00 %	0	0	0
Other Non-Biogenic	0.03 %	0	8	8
Petroleum	0.02 %	0	5	5
Solar	0.00 %	0	0	0
Waste	0.00 %	0	0	0
Wind	0.00 %	0	0	0
Total	**100.00 %**	**25,890**	**1,001**	**26,892**

BPA Claims

Fuel	MWh
Biomass	14
Hydro	22,898
Natural Gas	2
Nuclear	2,976
SubTotal	**25,890**
BPA Market Purchase	1,001
BPA Total	**26,891**

Ellensburg Electric Division

Utility Fuel Mix

Fuel	Percent	MWh from Claims on Resources	Total MWh from Market Purchases	Total MWh
Biogas	0.00 %	0	0	0
Biomass	0.11 %	112	113	225
Coal	1.23 %	0	2,555	2,555
Geothermal	0.00 %	0	0	0
Hydro	86.75 %	176,254	3,312	179,566
Natural Gas	0.71 %	16	1,444	1,460
Nuclear	11.15 %	22,904	179	23,083
Other Biogenic	0.00 %	0	0	0
Other Non-Biogenic	0.03 %	0	60	60
Petroleum	0.02 %	0	38	38
Solar	0.00 %	0	0	0
Waste	0.00 %	0	0	0
Wind	0.00 %	0	0	0
Total	**100.00 %**	**199,286**	**7,701**	**206,987**

BPA Claims

Fuel	MWh
Biomass	112
Hydro	176,254
Natural Gas	16
Nuclear	22,904
SubTotal	**199,286**
BPA Market Purchase	7,701
BPA Total	**206,987**

Elmhurst Mutual Power & Light

Utility Fuel Mix

Fuel	Percent	MWh from Claims on Resources	Total MWh from Market Purchases	Total MWh
Biogas	0.00 %	0	0	0
Biomass	0.11 %	144	146	290
Coal	1.23 %	0	3,292	3,292
Geothermal	0.00 %	0	0	0
Hydro	86.75 %	227,074	4,267	231,341
Natural Gas	0.71 %	20	1,860	1,880
Nuclear	11.15 %	29,508	230	29,738
Other Biogenic	0.00 %	0	0	0
Other Non-Biogenic	0.03 %	0	78	78
Petroleum	0.02 %	0	49	49
Solar	0.00 %	0	0	0
Waste	0.00 %	0	0	0
Wind	0.00 %	0	0	0
Total	**100.00 %**	**256,746**	**9,922**	**266,668**

BPA Claims

Fuel	MWh
Biomass	144
Hydro	227,074
Natural Gas	20
Nuclear	29,508
SubTotal	**256,746**
BPA Market Purchase	9,922
BPA Total	**266,668**

Ferry County PUD #1

Utility Fuel Mix

Fuel	Percent	MWh from Claims on Resources	Total MWh from Market Purchases	Total MWh
Biogas	0.00 %	0	0	0
Biomass	0.11 %	57	58	115
Coal	1.23 %	0	1,309	1,309
Geothermal	0.00 %	0	0	0
Hydro	86.75 %	90,269	1,696	91,965
Natural Gas	0.71 %	8	740	747
Nuclear	11.15 %	11,730	92	11,822
Other Biogenic	0.00 %	0	0	0
Other Non-Biogenic	0.03 %	0	31	31
Petroleum	0.02 %	0	19	19
Solar	0.00 %	0	0	0
Waste	0.00 %	0	0	0
Wind	0.00 %	0	0	0
Total	**100.00 %**	**102,064**	**3,945**	**106,008**

BPA Claims

Fuel	MWh
Biomass	57
Hydro	90,269
Natural Gas	8
Nuclear	11,730
SubTotal	**102,064**
BPA Market Purchase	3,945
BPA Total	**106,009**

Franklin County PUD #1

Utility Fuel Mix

Fuel	Percent	MWh from Claims on Resources	Total MWh from Market Purchases	Total MWh
Biogas	0.00 %	0	0	0
Biomass	0.14 %	523	968	1,491
Coal	2.09 %	0	21,833	21,833
Geothermal	0.00 %	0	0	0
Hydro	83.34 %	841,024	28,298	869,322
Natural Gas	3.92 %	28,547	12,338	40,885
Nuclear	10.43 %	107,313	1,527	108,840
Other Biogenic	0.00 %	0	0	0
Other Non-Biogenic	0.05 %	0	514	514
Petroleum	0.03 %	0	324	324
Solar	0.00 %	0	0	0
Waste	0.00 %	0	0	0
Wind	0.00 %	0	0	0
Total	**100.00 %**	**977,407**	**65,802**	**1,043,209**

BPA Claims

Fuel	MWh
Biomass	523
Hydro	825,813
Natural Gas	73
Nuclear	107,313
SubTotal	**933,722**
BPA Market Purchase	36,083
BPA Total	**969,805**

Market Purchases

Type	MWh
Utility Market Purchase	29,720
Total	**29,720**

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Distributed Generation--Hydro (WA)	Water	5,121	5,121
Frederickson Power LP	Natural Gas	28,474	28,474
Packwood	Water	10,090	10,090
Total		**43,685**	**43,685**

Grant County PUD #2

Utility Fuel Mix

Fuel	Percent	MWh from Claims on Resources	Total MWh from Market Purchases	Total MWh
Biogas	0.00 %	0	0	0
Biomass	0.86 %	24	41,331	41,355
Coal	19.31 %	0	931,778	931,778
Geothermal	0.00 %	0	0	0
Hydro	66.08 %	1,980,321	1,207,690	3,188,011
Natural Gas	10.91 %	3	526,559	526,562
Nuclear	1.45 %	4,926	65,178	70,104
Other Biogenic	0.00 %	0	0	0
Other Non-Biogenic	0.45 %	0	21,946	21,946
Petroleum	0.29 %	0	13,820	13,820
Solar	0.00 %	0	0	0
Waste	0.00 %	0	0	0
Wind	0.65 %	31,278	0	31,278
Total	**100.00 %**	**2,016,552**	**2,808,302**	**4,824,854**

BPA Claims

Fuel	MWh
Biomass	24
Hydro	37,906
Natural Gas	3
Nuclear	4,926
SubTotal	**42,859**
BPA Market Purchase	1,656
BPA Total	**44,515**

Market Purchases

Type	MWh
Utility Market Purchase	2,806,645
Total	**2,806,645**

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Nine Canyon	Wind	31,278	31,278
PEC Headworks	Water	21,070	21,070
Priest Rapids	Water	910,054	910,054
Quincy Chute	Water	25,399	25,399
Wanapum	Water	985,892	985,892
Total		**1,973,693**	**1,973,693**

Grays Harbor County PUD #1

Utility Fuel Mix

Fuel	Percent	MWh from Claims on Resources	Total MWh from Market Purchases	Total MWh
Biogas	0.00 %	0	0	0
Biomass	9.13 %	81,440	447	81,887
Coal	1.12 %	0	10,073	10,073
Geothermal	0.00 %	0	0	0
Hydro	78.92 %	694,795	13,055	707,850
Natural Gas	0.64 %	61	5,692	5,753
Nuclear	10.14 %	90,287	705	90,992
Other Biogenic	0.00 %	0	0	0
Other Non-Biogenic	0.03 %	0	237	237
Petroleum	0.02 %	0	149	149
Solar	0.00 %	0	0	0
Waste	0.00 %	0	0	0
Wind	0.00 %	0	0	0
Total	**100.00 %**	**866,583**	**30,358**	**896,941**

BPA Claims

Fuel	MWh
Biomass	440
Hydro	694,795
Natural Gas	61
Nuclear	90,287
SubTotal	**785,583**
BPA Market Purchase	30,358
BPA Total	**815,941**

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Sierra Pacific Aberdeen	Wood/Wood Waste Solids	81,000	81,000
Total		**81,000**	**81,000**

Inland Power & Light

Utility Fuel Mix

Fuel	Percent	MWh from Claims on Resources	Total MWh from Market Purchases	Total MWh
Biogas	0.00 %	0	0	0
Biomass	0.10 %	489	496	985
Coal	1.14 %	0	11,193	11,193
Geothermal	0.00 %	0	0	0
Hydro	79.92 %	772,052	14,507	786,559
Natural Gas	0.65 %	68	6,325	6,393
Nuclear	10.27 %	100,327	783	101,110
Other Biogenic	0.00 %	0	0	0
Other Non-Biogenic	0.03 %	0	264	264
Petroleum	0.02 %	0	166	166
Solar	0.08 %	829	0	829
Waste	0.00 %	0	0	0
Wind	7.79 %	76,668	0	76,668
Total	**100.00 %**	**950,433**	**33,734**	**984,167**

BPA Claims

Fuel	MWh
Biomass	489
Hydro	772,051
Natural Gas	68
Nuclear	100,327
SubTotal	**872,935**
BPA Market Purchase	33,734
BPA Total	**906,669**

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Cold Springs Windfarm	Wind	10,508	10,508
Condon Windpower LLC	Wind	1,157	1,157
Desert Meadow Windfarm	Wind	12,424	12,424
Distributed Generation--Hydro (WA)	Water	1	1
Distributed Generation--Solar (WA)	Solar	759	759
Distributed Generation--Wind (WA)	Wind	19	19
FPL Energy Vansycle LLC (WA)	Wind	2,038	2,038
Hammett Hill Windfarm	Wind	12,820	12,820
Inland P&L Community Solar	Solar	70	70
Klondike Wind Power	Wind	716	716
Klondike Windpower III	Wind	1,464	1,464
Mainline Windfarm	Wind	11,882	11,882
Ryegrass Windfarm	Wind	11,384	11,384
Two Ponds Windfarm	Wind	12,256	12,256
Total		**77,498**	**77,498**

Jefferson County PUD #1

Utility Fuel Mix

Fuel	Percent	MWh from Claims on Resources	Total MWh from Market Purchases	Total MWh
Biogas	0.00 %	0	0	0
Biomass	0.11 %	202	205	407
Coal	1.23 %	0	4,624	4,624
Geothermal	0.00 %	0	0	0
Hydro	86.75 %	318,972	5,994	324,965
Natural Gas	0.71 %	28	2,613	2,641
Nuclear	11.15 %	41,450	323	41,773
Other Biogenic	0.00 %	0	0	0
Other Non-Biogenic	0.03 %	0	109	109
Petroleum	0.02 %	0	69	69
Solar	0.00 %	0	0	0
Waste	0.00 %	0	0	0
Wind	0.00 %	0	0	0
Total	**100.00 %**	**360,652**	**13,937**	**374,588**

BPA Claims

Fuel	MWh
Biomass	202
Hydro	318,972
Natural Gas	28
Nuclear	41,450
SubTotal	**360,652**
BPA Market Purchase	13,937
BPA Total	**374,589**

Kittitas County PUD #1

Utility Fuel Mix

Fuel	Percent	MWh from Claims on Resources	Total MWh from Market Purchases	Total MWh
Biogas	0.00 %	0	0	0
Biomass	0.11 %	56	57	112
Coal	1.23 %	0	1,277	1,277
Geothermal	0.00 %	0	0	0
Hydro	86.75 %	88,086	1,655	89,741
Natural Gas	0.71 %	8	722	729
Nuclear	11.15 %	11,447	89	11,536
Other Biogenic	0.00 %	0	0	0
Other Non-Biogenic	0.03 %	0	30	30
Petroleum	0.02 %	0	19	19
Solar	0.00 %	0	0	0
Waste	0.00 %	0	0	0
Wind	0.00 %	0	0	0
Total	**100.00 %**	**99,597**	**3,849**	**103,444**

BPA Claims

Fuel	MWh
Biomass	56
Hydro	88,086
Natural Gas	8
Nuclear	11,447
SubTotal	**99,597**
BPA Market Purchase	3,849
BPA Total	**103,446**

Klickitat County PUD #1

Utility Fuel Mix

Fuel	Percent	MWh from Claims on Resources	Total MWh from Market Purchases	Total MWh
Biogas	0.02 %	59	0	59
Biomass	0.25 %	179	765	944
Coal	4.60 %	0	17,249	17,249
Geothermal	0.00 %	0	0	0
Hydro	82.21 %	285,611	22,357	307,968
Natural Gas	2.61 %	25	9,748	9,773
Nuclear	10.13 %	36,738	1,207	37,944
Other Biogenic	0.00 %	0	0	0
Other Non-Biogenic	0.11 %	0	406	406
Petroleum	0.07 %	0	256	256
Solar	0.00 %	0	0	0
Waste	0.00 %	0	0	0
Wind	0.00 %	0	0	0
Total	**100.00 %**	**322,612**	**51,988**	**374,599**

BPA Claims

Fuel	MWh
Biomass	179
Hydro	282,709
Natural Gas	25
Nuclear	36,738
SubTotal	**319,651**
BPA Market Purchase	12,353
BPA Total	**332,004**

Market Purchases

Type	MWh
Utility Market Purchase	39,636
Total	**39,636**

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
McNary Dam Fish Attraction Project	Water	0	0
Packwood	Water	2,902	2,902
Roosevelt Biogas 1	Landfill Gas	59	59
White Creek Wind Farm	Wind	0	0
Total		**2,961**	**2,961**

Kootenai Electric Coop

Utility Fuel Mix

Fuel	Percent	MWh from Claims on Resources	Total MWh from Market Purchases	Total MWh
Biogas	0.00 %	0	0	0
Biomass	0.11 %	1	1	3
Coal	1.23 %	0	28	28
Geothermal	0.00 %	0	0	0
Hydro	86.75 %	1,961	37	1,998
Natural Gas	0.71 %	0	16	16
Nuclear	11.15 %	255	2	257
Other Biogenic	0.00 %	0	0	0
Other Non-Biogenic	0.03 %	0	1	1
Petroleum	0.02 %	0	0	0
Solar	0.00 %	0	0	0
Waste	0.00 %	0	0	0
Wind	0.00 %	0	0	0
Total	**100.00 %**	**2,217**	**85**	**2,303**

BPA Claims

Fuel	MWh
Biomass	1
Hydro	1,961
Nuclear	255
SubTotal	**2,217**
BPA Market Purchase	85
BPA Total	**2,302**

Lakeview Light & Power

Utility Fuel Mix

Fuel	Percent	MWh from Claims on Resources	Total MWh from Market Purchases	Total MWh
Biogas	0.00 %	0	0	0
Biomass	0.11 %	140	143	283
Coal	1.23 %	0	3,213	3,213
Geothermal	0.00 %	0	0	0
Hydro	86.75 %	221,657	4,165	225,822
Natural Gas	0.71 %	20	1,816	1,835
Nuclear	11.15 %	28,804	225	29,029
Other Biogenic	0.00 %	0	0	0
Other Non-Biogenic	0.03 %	0	76	76
Petroleum	0.02 %	0	48	48
Solar	0.00 %	0	0	0
Waste	0.00 %	0	0	0
Wind	0.00 %	0	0	0
Total	**100.00 %**	**250,621**	**9,686**	**260,306**

BPA Claims

Fuel	MWh
Biomass	140
Hydro	221,657
Natural Gas	20
Nuclear	28,804
SubTotal	**250,621**
BPA Market Purchase	9,686
BPA Total	**260,307**

Lewis County PUD #1

Utility Fuel Mix

Fuel	Percent	MWh from Claims on Resources	Total MWh from Market Purchases	Total MWh
Biogas	0.00 %	0	0	0
Biomass	0.19 %	472	1,337	1,809
Coal	3.20 %	0	30,143	30,143
Geothermal	0.00 %	0	0	0
Hydro	83.58 %	748,142	39,068	787,211
Natural Gas	1.82 %	66	17,034	17,100
Nuclear	10.51 %	96,823	2,108	98,932
Other Biogenic	0.00 %	0	0	0
Other Non-Biogenic	0.08 %	0	710	710
Petroleum	0.05 %	0	447	447
Solar	0.00 %	0	0	0
Waste	0.00 %	0	0	0
Wind	0.57 %	5,369	0	5,369
Total	**100.00 %**	**850,872**	**90,847**	**941,721**

BPA Claims

Fuel	MWh
Biomass	472
Hydro	745,090
Natural Gas	66
Nuclear	96,823
SubTotal	**842,451**
BPA Market Purchase	32,555
BPA Total	**875,006**

Market Purchases

Type	MWh
Utility Market Purchase	58,293
Total	**58,293**

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Burton Creek Hydro	Water	1,705	1,705
Mill Creek	Water	876	876
Nine Canyon	Wind	5,369	5,369
Packwood	Water	471	471
Total		**8,421**	**8,421**

Mason County PUD #1

Utility Fuel Mix

Fuel	Percent	MWh from Claims on Resources	Total MWh from Market Purchases	Total MWh
Biogas	0.00 %	0	0	0
Biomass	0.10 %	38	38	76
Coal	1.14 %	0	866	866
Geothermal	0.00 %	0	0	0
Hydro	87.79 %	65,740	1,122	66,862
Natural Gas	0.65 %	5	489	494
Nuclear	10.27 %	7,762	61	7,823
Other Biogenic	0.00 %	0	0	0
Other Non-Biogenic	0.03 %	0	20	20
Petroleum	0.02 %	0	13	13
Solar	0.00 %	0	0	0
Waste	0.00 %	0	0	0
Wind	0.00 %	0	0	0
Total	**100.00 %**	**73,545**	**2,609**	**76,154**

BPA Claims

Fuel	MWh
Biomass	38
Hydro	59,733
Natural Gas	5
Nuclear	7,762
SubTotal	**67,538**
BPA Market Purchase	2,609
BPA Total	**70,147**

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Lilliwaup Falls Generating	Water	6,007	6,007
Total		**6,007**	**6,007**

Mason County PUD #3

Utility Fuel Mix

Fuel	Percent	MWh from Claims on Resources	Total MWh from Market Purchases	Total MWh
Biogas	0.00 %	0	0	0
Biomass	0.10 %	310	314	624
Coal	1.12 %	0	7,087	7,087
Geothermal	0.00 %	0	0	0
Hydro	78.73 %	488,863	9,186	498,048
Natural Gas	0.64 %	43	4,005	4,048
Nuclear	10.12 %	63,527	496	64,023
Other Biogenic	0.00 %	0	0	0
Other Non-Biogenic	0.03 %	0	167	167
Petroleum	0.02 %	0	105	105
Solar	0.03 %	201	0	201
Waste	0.00 %	0	0	0
Wind	9.21 %	58,284	0	58,284
Total	**100.00 %**	**611,228**	**21,360**	**632,587**

BPA Claims

Fuel	MWh
Biomass	310
Hydro	488,863
Natural Gas	43
Nuclear	63,527
SubTotal	**552,743**
BPA Market Purchase	21,360
BPA Total	**574,103**

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Condon Windpower LLC	Wind	858	858
Distributed Generation--Solar (WA)	Solar	201	201
FPL Energy Vansycle LLC (WA)	Wind	1,515	1,515
Klondike Wind Power	Wind	529	529
Klondike Windpower III	Wind	1,085	1,085
Nine Canyon	Wind	7,743	7,743
White Creek Wind Farm	Wind	46,553	46,553
Total		**58,484**	**58,484**

McCleary Light & Power

Utility Fuel Mix

Fuel	Percent	MWh from Claims on Resources	Total MWh from Market Purchases	Total MWh
Biogas	0.00 %	0	0	0
Biomass	0.11 %	17	17	33
Coal	1.23 %	0	381	381
Geothermal	0.00 %	0	0	0
Hydro	86.75 %	26,248	493	26,741
Natural Gas	0.71 %	2	215	217
Nuclear	11.15 %	3,411	27	3,438
Other Biogenic	0.00 %	0	0	0
Other Non-Biogenic	0.03 %	0	9	9
Petroleum	0.02 %	0	6	6
Solar	0.00 %	0	0	0
Waste	0.00 %	0	0	0
Wind	0.00 %	0	0	0
Total	**100.00 %**	**29,678**	**1,148**	**30,825**

BPA Claims

Fuel	MWh
Biomass	17
Hydro	26,248
Natural Gas	2
Nuclear	3,411
SubTotal	**29,678**
BPA Market Purchase	1,148
BPA Total	**30,826**

Milton Electric Division

Utility Fuel Mix

Fuel	Percent	MWh from Claims on Resources	Total MWh from Market Purchases	Total MWh
Biogas	0.00 %	0	0	0
Biomass	0.11 %	31	31	62
Coal	1.23 %	0	704	704
Geothermal	0.00 %	0	0	0
Hydro	86.75 %	48,547	912	49,459
Natural Gas	0.71 %	4	398	402
Nuclear	11.15 %	6,309	49	6,358
Other Biogenic	0.00 %	0	0	0
Other Non-Biogenic	0.03 %	0	17	17
Petroleum	0.02 %	0	10	10
Solar	0.00 %	0	0	0
Waste	0.00 %	0	0	0
Wind	0.00 %	0	0	0
Total	**100.00 %**	**54,891**	**2,121**	**57,012**

BPA Claims

Fuel	MWh
Biomass	31
Hydro	48,547
Natural Gas	4
Nuclear	6,309
SubTotal	**54,891**
BPA Market Purchase	2,121
BPA Total	**57,012**

Modern Electric Water Company

Utility Fuel Mix

Fuel	Percent	MWh from Claims on Resources	Total MWh from Market Purchases	Total MWh
Biogas	0.00 %	0	0	0
Biomass	0.11 %	120	122	242
Coal	1.23 %	0	2,753	2,753
Geothermal	0.00 %	0	0	0
Hydro	86.75 %	189,916	3,569	193,485
Natural Gas	0.71 %	17	1,556	1,573
Nuclear	11.15 %	24,679	193	24,872
Other Biogenic	0.00 %	0	0	0
Other Non-Biogenic	0.03 %	0	65	65
Petroleum	0.02 %	0	41	41
Solar	0.00 %	0	0	0
Waste	0.00 %	0	0	0
Wind	0.00 %	0	0	0
Total	**100.00 %**	**214,732**	**8,299**	**223,031**

BPA Claims

Fuel	MWh
Biomass	120
Hydro	189,916
Natural Gas	17
Nuclear	24,679
SubTotal	**214,732**
BPA Market Purchase	8,299
BPA Total	**223,031**

Nespelem Valley Elec Coop

Utility Fuel Mix

Fuel	Percent	MWh from Claims on Resources	Total MWh from Market Purchases	Total MWh
Biogas	0.00 %	0	0	0
Biomass	0.11 %	35	35	70
Coal	1.23 %	0	794	794
Geothermal	0.00 %	0	0	0
Hydro	86.75 %	54,796	1,030	55,826
Natural Gas	0.71 %	5	449	454
Nuclear	11.15 %	7,121	56	7,176
Other Biogenic	0.00 %	0	0	0
Other Non-Biogenic	0.03 %	0	19	19
Petroleum	0.02 %	0	12	12
Solar	0.00 %	0	0	0
Waste	0.00 %	0	0	0
Wind	0.00 %	0	0	0
Total	**100.00 %**	**61,957**	**2,395**	**64,351**

BPA Claims

Fuel	MWh
Biomass	35
Hydro	54,796
Natural Gas	5
Nuclear	7,121
SubTotal	**61,957**
BPA Market Purchase	2,395
BPA Total	**64,352**

Northern Lights (WA)

Utility Fuel Mix

Fuel	Percent	MWh from Claims on Resources	Total MWh from Market Purchases	Total MWh
Biogas	0.00 %	0	0	0
Biomass	0.10 %	0	0	0
Coal	1.12 %	0	1	1
Geothermal	0.00 %	0	0	0
Hydro	88.01 %	101	2	103
Natural Gas	0.64 %	0	1	1
Nuclear	10.08 %	12	0	12
Other Biogenic	0.00 %	0	0	0
Other Non-Biogenic	0.03 %	0	0	0
Petroleum	0.02 %	0	0	0
Solar	0.00 %	0	0	0
Waste	0.00 %	0	0	0
Wind	0.00 %	0	0	0
Total	**100.00 %**	**113**	**4**	**117**

BPA Claims

Fuel	MWh
Hydro	90
Nuclear	12
SubTotal	**102**
BPA Market Purchase	4
BPA Total	**106**

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Lake Creek	Water	11	11
Total		**11**	**11**

Ohop Mutual Light

Utility Fuel Mix

Fuel	Percent	MWh from Claims on Resources	Total MWh from Market Purchases	Total MWh
Biogas	0.00 %	0	0	0
Biomass	0.11 %	45	46	90
Coal	1.23 %	0	1,027	1,027
Geothermal	0.00 %	0	0	0
Hydro	86.75 %	70,867	1,332	72,199
Natural Gas	0.71 %	6	581	587
Nuclear	11.15 %	9,209	72	9,281
Other Biogenic	0.00 %	0	0	0
Other Non-Biogenic	0.03 %	0	24	24
Petroleum	0.02 %	0	15	15
Solar	0.00 %	0	0	0
Waste	0.00 %	0	0	0
Wind	0.00 %	0	0	0
Total	**100.00 %**	**80,127**	**3,097**	**83,223**

BPA Claims

Fuel	MWh
Biomass	45
Hydro	70,867
Natural Gas	6
Nuclear	9,209
SubTotal	**80,127**
BPA Market Purchase	3,097
BPA Total	**83,224**

Okanogan County Electric Coop

Utility Fuel Mix

Fuel	Percent	MWh from Claims on Resources	Total MWh from Market Purchases	Total MWh
Biogas	0.00 %	0	0	0
Biomass	0.11 %	32	33	64
Coal	1.24 %	0	734	734
Geothermal	0.00 %	0	0	0
Hydro	86.74 %	50,353	952	51,305
Natural Gas	0.71 %	4	415	419
Nuclear	11.15 %	6,543	51	6,595
Other Biogenic	0.00 %	0	0	0
Other Non-Biogenic	0.03 %	0	17	17
Petroleum	0.02 %	0	11	11
Solar	0.00 %	0	0	0
Waste	0.00 %	0	0	0
Wind	0.00 %	0	0	0
Total	**100.00 %**	**56,932**	**2,213**	**59,145**

BPA Claims

Fuel	MWh
Biomass	32
Hydro	50,353
Natural Gas	4
Nuclear	6,543
SubTotal	**56,932**
BPA Market Purchase	2,200
BPA Total	**59,132**

Market Purchases

Type	MWh
Utility Market Purchase	12
Total	**12**

Okanogan County PUD #1

Utility Fuel Mix

Fuel	Percent	MWh from Claims on Resources	Total MWh from Market Purchases	Total MWh
Biogas	0.00 %	0	0	0
Biomass	0.20 %	204	1,070	1,274
Coal	3.70 %	0	24,119	24,119
Geothermal	0.00 %	0	0	0
Hydro	87.18 %	536,520	31,262	567,781
Natural Gas	2.10 %	28	13,630	13,659
Nuclear	6.68 %	41,827	1,687	43,514
Other Biogenic	0.00 %	0	0	0
Other Non-Biogenic	0.09 %	0	568	568
Petroleum	0.05 %	0	358	358
Solar	0.00 %	0	0	0
Waste	0.00 %	0	0	0
Wind	0.00 %	0	0	0
Total	**100.00 %**	**578,579**	**72,694**	**651,273**

BPA Claims

Fuel	MWh
Biomass	204
Hydro	321,874
Natural Gas	28
Nuclear	41,827
SubTotal	**363,933**
BPA Market Purchase	14,063
BPA Total	**377,996**

Market Purchases

Type	MWh
Utility Market Purchase	58,630
Total	**58,630**

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Wells	Water	214,646	214,646
Total		**214,646**	**214,646**

Orcas Power & Light Coop

Utility Fuel Mix

Fuel	Percent	MWh from Claims on Resources	Total MWh from Market Purchases	Total MWh
Biogas	0.00 %	0	0	0
Biomass	0.11 %	112	114	226
Coal	1.23 %	0	2,572	2,572
Geothermal	0.00 %	0	0	0
Hydro	86.75 %	177,383	3,333	180,716
Natural Gas	0.71 %	16	1,453	1,469
Nuclear	11.15 %	23,051	180	23,231
Other Biogenic	0.00 %	0	0	0
Other Non-Biogenic	0.03 %	0	61	61
Petroleum	0.02 %	0	38	38
Solar	0.00 %	0	0	0
Waste	0.00 %	0	0	0
Wind	0.00 %	0	0	0
Total	**100.00 %**	**200,562**	**7,751**	**208,313**

BPA Claims

Fuel	MWh
Biomass	112
Hydro	177,383
Natural Gas	16
Nuclear	23,051
SubTotal	**200,562**
BPA Market Purchase	7,751
BPA Total	**208,313**

Pacific County PUD #2

Utility Fuel Mix

Fuel	Percent	MWh from Claims on Resources	Total MWh from Market Purchases	Total MWh
Biogas	0.00 %	0	0	0
Biomass	0.17 %	157	352	509
Coal	2.61 %	0	7,942	7,942
Geothermal	0.00 %	0	0	0
Hydro	84.87 %	247,579	10,294	257,874
Natural Gas	1.48 %	22	4,488	4,510
Nuclear	10.77 %	32,173	556	32,728
Other Biogenic	0.00 %	0	0	0
Other Non-Biogenic	0.06 %	0	187	187
Petroleum	0.04 %	0	118	118
Solar	0.00 %	0	0	0
Waste	0.00 %	0	0	0
Wind	0.00 %	0	0	0
Total	**100.00 %**	**279,931**	**23,937**	**303,868**

BPA Claims

Fuel	MWh
Biomass	157
Hydro	247,579
Natural Gas	22
Nuclear	32,173
SubTotal	**279,931**
BPA Market Purchase	10,817
BPA Total	**290,748**

Market Purchases

Type	MWh
Utility Market Purchase	13,121
Total	**13,121**

Pacific Power (WA)

Utility Fuel Mix

Fuel	Percent	MWh from Claims on Resources	Total MWh from Market Purchases	Total MWh
Biogas	0.00 %	208	0	208
Biomass	0.35 %	73	15,587	15,661
Coal	48.67 %	1,805,355	351,405	2,156,760
Geothermal	0.00 %	0	0	0
Hydro	26.73 %	729,083	455,461	1,184,544
Natural Gas	17.57 %	580,167	198,583	778,750
Nuclear	0.89 %	15,049	24,581	39,630
Other Biogenic	0.00 %	0	0	0
Other Non-Biogenic	0.19 %	0	8,276	8,276
Petroleum	0.15 %	1,513	5,212	6,725
Solar	0.00 %	0	0	0
Waste	0.00 %	0	0	0
Wind	5.45 %	241,520	0	241,520
Total	**100.00 %**	**3,372,968**	**1,059,105**	**4,432,074**

BPA Claims

Fuel	MWh
Biomass	73
Hydro	115,811
Natural Gas	10
Nuclear	15,049
SubTotal	**130,943**
BPA Market Purchase	5,060
BPA Total	**136,003**

Market Purchases

Type	MWh
Utility Market Purchase	1,054,045
Total	**1,054,045**

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Bend	Water	416	416
Campbell Hill Windpower	Wind	27,277	27,277
Chehalis Generating Facility	Natural Gas	292,601	
	Distillate Fuel Oil	0	292,601
Clearwater 1	Water	8,596	8,596
Clearwater 2	Water	9,654	9,654
Colstrip Energy LP	Subbituminous Coal	0	
	Waste/Other Coal	103,575	
	Distillate Fuel Oil	44	103,619
Combine Hills I	Wind	0	0
Copco 1	Water	17,201	17,201
Copco 2	Water	22,263	22,263
Cove Hydroelectric	Water	2,537	2,537
Dunlap	Wind	31,740	31,740
Eagle Point	Water	3,936	3,936
Eurus Combine Hills Turbine Ranch 2	Wind	24,806	24,806
Fall Creek	Water	2,156	2,156
Fish Creek	Water	7,402	7,402
George DeRuyter & Sons Dairy	Other Biomass Gas	208	208
Glenrock	Wind	25,458	25,458
Goodnoe Hills	Wind	18,292	18,292
Hermiston Generating Plant	Natural Gas	287,556	287,556
Iron Gate	Water	21,405	21,405

Jim Bridger	Distillate Fuel Oil	1,469	
	Subbituminous Coal	1,701,780	1,703,249
John C Boyle	Water	45,647	45,647
Leaning Juniper	Wind	16,552	16,552
Lemolo 1	Water	28,562	28,562
Lemolo 2	Water	31,166	31,166
Marengo Wind Plant	Wind	43,008	43,008
Merwin	Water	118,997	118,997
Priest Rapids	Water	9,707	9,707
Prospect 2	Water	50,982	50,982
Prospect 3	Water	7,010	7,010
Seven Mile Hill	Wind	1,197	1,197
Slide Creek	Water	16,067	16,067
Soda Springs	Water	12,979	12,979
Swift 1	Water	30,485	30,485
Toketee Falls	Water	49,463	49,463
Top of the World Windpower Project	Wind	53,190	53,190
Wallowa Falls	Water	922	922
Wanapum	Water	9,726	9,726
Wells	Water	52,827	52,827
West Side	Water	-3	-3
Yakima-Tieton Irrigation District	Water	1,523	1,523
Yale	Water	51,646	51,646
Total		**3,242,025**	**3,242,025**

Parkland Light & Water

Utility Fuel Mix

Fuel	Percent	MWh from Claims on Resources	Total MWh from Market Purchases	Total MWh
Biogas	0.00 %	0	0	0
Biomass	0.11 %	62	63	124
Coal	1.23 %	0	1,410	1,410
Geothermal	0.00 %	0	0	0
Hydro	86.75 %	97,233	1,827	99,060
Natural Gas	0.71 %	9	797	805
Nuclear	11.15 %	12,635	99	12,734
Other Biogenic	0.00 %	0	0	0
Other Non-Biogenic	0.03 %	0	33	33
Petroleum	0.02 %	0	21	21
Solar	0.00 %	0	0	0
Waste	0.00 %	0	0	0
Wind	0.00 %	0	0	0
Total	**100.00 %**	**109,939**	**4,250**	**114,187**

BPA Claims

Fuel	MWh
Biomass	62
Hydro	97,233
Natural Gas	9
Nuclear	12,635
SubTotal	**109,939**
BPA Market Purchase	4,250
BPA Total	**114,189**

Pend Oreille County PUD #1

Utility Fuel Mix

Fuel	Percent	MWh from Claims on Resources	Total MWh from Market Purchases	Total MWh
Biogas	0.00 %	0	0	0
Biomass	0.11 %	21	1,090	1,111
Coal	2.53 %	0	24,565	24,565
Geothermal	0.00 %	0	0	0
Hydro	95.21 %	894,344	31,840	926,184
Natural Gas	1.43 %	3	13,882	13,885
Nuclear	0.62 %	4,360	1,718	6,079
Other Biogenic	0.00 %	0	0	0
Other Non-Biogenic	0.06 %	0	579	579
Petroleum	0.04 %	0	364	364
Solar	0.00 %	0	0	0
Waste	0.00 %	0	0	0
Wind	0.00 %	0	0	0
Total	**100.00 %**	**898,728**	**74,038**	**972,767**

BPA Claims

Fuel	MWh
Biomass	21
Hydro	33,555
Natural Gas	3
Nuclear	4,360
SubTotal	**37,939**
BPA Market Purchase	1,466
BPA Total	**39,405**

Market Purchases

Type	MWh
Utility Market Purchase	72,571
Total	**72,571**

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Boundary	Water	368,828	368,828
Box Canyon	Water	491,961	491,961
Total		**860,789**	**860,789**

Peninsula Light

Utility Fuel Mix

Fuel	Percent	MWh from Claims on Resources	Total MWh from Market Purchases	Total MWh
Biogas	0.00 %	0	0	0
Biomass	0.11 %	296	337	633
Coal	1.28 %	0	7,595	7,595
Geothermal	0.00 %	0	0	0
Hydro	80.33 %	467,817	9,845	477,661
Natural Gas	0.73 %	41	4,292	4,334
Nuclear	10.31 %	60,792	531	61,323
Other Biogenic	0.00 %	0	0	0
Other Non-Biogenic	0.03 %	0	179	179
Petroleum	0.02 %	0	113	113
Solar	0.00 %	0	0	0
Waste	0.00 %	0	0	0
Wind	7.19 %	42,733	0	42,733
Total	**100.00 %**	**571,679**	**22,892**	**594,571**

BPA Claims

Fuel	MWh
Biomass	296
Hydro	467,817
Natural Gas	41
Nuclear	60,792
SubTotal	**528,946**
BPA Market Purchase	20,441
BPA Total	**549,387**

Market Purchases

Type	MWh
Utility Market Purchase	2,451
Total	**2,451**

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Condon Windpower LLC	Wind	777	777
FPL Energy Vansycle LLC (WA)	Wind	1,362	1,362
Harvest Wind Project	Wind	39,144	39,144
Klondike Wind Power	Wind	475	475
Klondike Windpower III	Wind	975	975
Total		**42,733**	**42,733**

Port Angeles Light Operations

Utility Fuel Mix

Fuel	Percent	MWh from Claims on Resources	Total MWh from Market Purchases	Total MWh
Biogas	0.00 %	0	0	0
Biomass	0.11 %	224	227	451
Coal	1.23 %	0	5,129	5,129
Geothermal	0.00 %	0	0	0
Hydro	86.75 %	353,769	6,647	360,416
Natural Gas	0.71 %	31	2,898	2,929
Nuclear	11.15 %	45,972	359	46,330
Other Biogenic	0.00 %	0	0	0
Other Non-Biogenic	0.03 %	0	121	121
Petroleum	0.02 %	0	76	76
Solar	0.00 %	0	0	0
Waste	0.00 %	0	0	0
Wind	0.00 %	0	0	0
Total	**100.00 %**	**399,996**	**15,457**	**415,452**

BPA Claims

Fuel	MWh
Biomass	224
Hydro	353,769
Natural Gas	31
Nuclear	45,972
SubTotal	**399,996**
BPA Market Purchase	15,457
BPA Total	**415,453**

Port of Seattle

Utility Fuel Mix

Fuel	Percent	MWh from Claims on Resources	Total MWh from Market Purchases	Total MWh
Biogas	0.00 %	0	0	0
Biomass	0.11 %	77	79	156
Coal	1.23 %	0	1,771	1,771
Geothermal	0.00 %	0	0	0
Hydro	86.75 %	122,134	2,295	124,429
Natural Gas	0.71 %	11	1,001	1,011
Nuclear	11.15 %	15,871	124	15,995
Other Biogenic	0.00 %	0	0	0
Other Non-Biogenic	0.03 %	0	42	42
Petroleum	0.02 %	0	26	26
Solar	0.00 %	0	0	0
Waste	0.00 %	0	0	0
Wind	0.00 %	0	0	0
Total	**100.00 %**	**138,093**	**5,338**	**143,430**

BPA Claims

Fuel	MWh
Biomass	77
Hydro	122,134
Natural Gas	11
Nuclear	15,871
SubTotal	**138,093**
BPA Market Purchase	5,338
BPA Total	**143,431**

Port Townsend

Utility Fuel Mix

Fuel	Percent	MWh from Claims on Resources	Total MWh from Market Purchases	Total MWh
Biogas	0.00 %	0	0	0
Biomass	0.11 %	55	56	111
Coal	1.23 %	0	1,262	1,262
Geothermal	0.00 %	0	0	0
Hydro	86.75 %	87,047	1,636	88,683
Natural Gas	0.71 %	8	713	721
Nuclear	11.15 %	11,312	88	11,400
Other Biogenic	0.00 %	0	0	0
Other Non-Biogenic	0.03 %	0	30	30
Petroleum	0.02 %	0	19	19
Solar	0.00 %	0	0	0
Waste	0.00 %	0	0	0
Wind	0.00 %	0	0	0
Total	**100.00 %**	**98,422**	**3,804**	**102,226**

BPA Claims

Fuel	MWh
Biomass	55
Hydro	87,047
Natural Gas	8
Nuclear	11,312
SubTotal	**98,422**
BPA Market Purchase	3,804
BPA Total	**102,226**

Puget Sound Energy

Utility Fuel Mix

Fuel	Percent	MWh from Claims on Resources	Total MWh from Market Purchases	Total MWh
Biogas	0.15 %	32,627	0	32,627
Biomass	0.22 %	414	47,463	47,877
Coal	37.11 %	6,939,595	1,070,002	8,009,597
Geothermal	0.00 %	0	0	0
Hydro	30.54 %	5,205,945	1,386,845	6,592,790
Natural Gas	21.72 %	4,083,015	604,671	4,687,685
Nuclear	0.74 %	84,986	74,847	159,832
Other Biogenic	0.00 %	197	0	197
Other Non-Biogenic	0.12 %	0	25,201	25,201
Petroleum	0.13 %	12,111	15,870	27,981
Solar	0.00 %	1,030	0	1,030
Waste	0.00 %	0	0	0
Wind	9.27 %	1,999,840	0	1,999,840
Total	**100.00 %**	**18,359,760**	**3,224,899**	**21,584,657**

BPA Claims

Fuel	MWh
Biomass	414
Hydro	653,998
Natural Gas	58
Nuclear	84,986
SubTotal	**739,456**
BPA Market Purchase	28,576
BPA Total	**768,032**

Market Purchases

Type	MWh
Utility Market Purchase	3,196,323
Total	**3,196,323**

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
3 Bar G Wind Turbine #3	Wind	0	0
Bio Energy Washington	Other Biomass Gas	5	5
Black Creek	Water	12,066	12,066
Cascade Community Solar	Solar	29	29
Colstrip	Subbituminous Coal	4,450,918	
	Distillate Fuel Oil	3,103	
	Gaseous Propane	0	
	Waste/Other Oil	2,215	4,456,236
Crystal Mountain	Distillate Fuel Oil	193	193
Electron	Water	164,009	164,009
Emerald City Renewables	Other Biomass Gas	31,213	31,213
Encogen	Natural Gas	208,025	
	Distillate Fuel Oil	944	208,969
Farm Power Lynden	Other Biomass Gas	1,409	1,409
Ferndale Generating Station	Distillate Fuel Oil	138	
	Natural Gas	729,063	729,201
Frederickson	Natural Gas	19,621	
	Distillate Fuel Oil	0	19,621
Frederickson Power LP	Natural Gas	410,801	410,801
Fredonia	Distillate Fuel Oil	983	
	Natural Gas	240,871	241,854
Goldendale Generating Station	Natural Gas	1,011,911	1,011,911
Hopkins Ridge Wind	Wind	410,522	410,522
Island Community Solar	Solar	58	58

Klamath Falls Bioenergy Facility	Other Biomass Solids	197	197
Klondike Windpower III	Wind	124,654	124,654
Koma Kulshan Associates	Water	45,301	45,301
Lake Washington -- Finn Hill	Solar	288	288
Lower Baker	Water	353,054	353,054
Lower Snake River Wind Energy Project	Wind	859,196	859,196
Mint Farm Generating Station	Natural Gas	1,040,909	1,040,909
Priest Rapids	Water	29,609	29,609
Rock Island	Water	700,644	700,644
Rocky Reach	Water	1,454,835	1,454,835
Skookumchuck	Water	4,378	4,378
Smith Creek (Whatcom County, WA)	Water	190	190
Snoqualmie	Water	53,051	53,051
Snoqualmie 2	Water	149,222	149,222
Sumas Power Plant	Natural Gas	388,635	388,635
Swauk Valley Wind	Wind	0	0
Sygitowicz Creek	Water	892	892
Transalta Centralia Generation	Subbituminous Coal	2,458,777	
	Waste/Other Coal	29,900	
	Distillate Fuel Oil	4,417	2,493,094
Twin Falls Hydro	Water	78,590	78,590
Upper Baker	Water	363,161	363,161
Wanapum	Water	29,663	29,663
Weeks Falls	Water	10,932	10,932
Wells	Water	1,102,350	1,102,350
Whitehorn	Natural Gas	33,121	
	Distillate Fuel Oil	118	33,239
Wild Horse	Wind	605,468	
	Solar	655	606,123
Total		**17,620,304**	**17,620,304**

Richland Energy Services

Utility Fuel Mix

Fuel	Percent	MWh from Claims on Resources	Total MWh from Market Purchases	Total MWh
Biogas	0.00 %	0	0	0
Biomass	0.11 %	491	499	990
Coal	1.23 %	0	11,244	11,244
Geothermal	0.00 %	0	0	0
Hydro	86.75 %	775,597	14,574	790,171
Natural Gas	0.71 %	68	6,354	6,423
Nuclear	11.15 %	100,788	787	101,574
Other Biogenic	0.00 %	0	0	0
Other Non-Biogenic	0.03 %	0	265	265
Petroleum	0.02 %	0	167	167
Solar	0.00 %	0	0	0
Waste	0.00 %	0	0	0
Wind	0.00 %	0	0	0
Total	**100.00 %**	**876,944**	**33,890**	**910,834**

BPA Claims

Fuel	MWh
Biomass	491
Hydro	775,597
Natural Gas	68
Nuclear	100,788
SubTotal	**876,944**
BPA Market Purchase	33,890
BPA Total	**910,834**

Ruston, Town of

Utility Fuel Mix

Fuel	Percent	MWh from Claims on Resources	Total MWh from Market Purchases	Total MWh
Biogas	0.00 %	0	0	0
Biomass	0.13 %	4	4	8
Coal	1.54 %	0	98	98
Geothermal	0.00 %	0	0	0
Hydro	84.23 %	5,236	127	5,363
Natural Gas	0.88 %	0	55	56
Nuclear	6.05 %	378	7	385
Other Biogenic	0.00 %	0	0	0
Other Non-Biogenic	0.04 %	0	2	2
Petroleum	0.02 %	0	1	1
Solar	0.00 %	0	0	0
Waste	0.00 %	0	0	0
Wind	7.11 %	453	0	453
Total	**100.00 %**	**6,071**	**294**	**6,366**

BPA Claims

Fuel	MWh
Biomass	2
Hydro	2,911
Nuclear	378
SubTotal	**3,291**
BPA Market Purchase	128
BPA Total	**3,419**

Market Purchases

Type	MWh
Utility Market Purchase	169
Total	**169**

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Alder	Water	167	167
Bennett Creek Windfarm LLC	Wind	71	71
Burley Butte Windpark	Wind	68	68
Condon Windpower LLC	Wind	6	6
Cushman 1	Water	123	123
Cushman 2	Water	227	227
FPL Energy Vansycle LLC (WA)	Wind	10	10
Grand Coulee Project Hydro Authority	Water	168	168
Hood Street Reservoir	Water	2	2
Hot Springs Windfarm LLC	Wind	73	73
Klondike Wind Power	Wind	4	4
Klondike Windpower III	Wind	7	7
LaGrande	Water	253	253
Mayfield	Water	521	521
Milner Dam Wind Park LLC	Wind	62	62
Mossyrock	Water	819	819
Nine Canyon	Wind	48	48
Pilgrim Stage Wind Park	Wind	37	37
Power County Wind Park North	Wind	33	33
Power County Wind Park South	Wind	34	34
Priest Rapids	Water	9	9
Sierra Pacific Aberdeen	Wood/Wood Waste Solids	2	2
Wanapum	Water	11	11
Wynoochee	Water	25	25
Total		**2,780**	**2,780**

Seattle City Light

Utility Fuel Mix

Fuel	Percent	MWh from Claims on Resources	Total MWh from Market Purchases	Total MWh
Biogas	1.19 %	115,283	0	115,283
Biomass	0.27 %	22,139	4,126	26,265
Coal	0.96 %	0	93,021	93,021
Geothermal	0.00 %	0	0	0
Hydro	88.03 %	8,392,740	120,566	8,513,306
Natural Gas	0.55 %	331	52,567	52,898
Nuclear	5.11 %	487,428	6,507	493,935
Other Biogenic	0.00 %	0	0	0
Other Non-Biogenic	0.02 %	0	2,191	2,191
Petroleum	0.01 %	0	1,380	1,380
Solar	0.00 %	0	0	0
Waste	0.00 %	0	0	0
Wind	3.86 %	373,389	0	373,389
Total	**100.00 %**	**9,391,310**	**280,358**	**9,671,668**

BPA Claims

Fuel	MWh
Biomass	2,375
Hydro	3,750,939
Natural Gas	331
Nuclear	487,428
SubTotal	**4,241,073**
BPA Market Purchase	163,892
BPA Total	**4,404,965**

Market Purchases

Type	MWh
Utility Market Purchase	116,467
Total	**116,467**

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Bonneville	Water	5,267	5,267
Boundary	Water	2,002,307	2,002,307
Cedar Falls (WA)	Water	67,965	67,965
Chief Joseph	Water	9,493	9,493
Cougar	Water	88	88
Diablo	Water	653,006	653,006
Eltopia Branch Canal 4.6	Water	2,108	2,108
FPL Energy Vansycle LLC (OR)	Wind	149,356	149,356
FPL Energy Vansycle LLC (WA)	Wind	224,033	224,033
Gorge	Water	777,930	777,930
Grand Coulee	Water	29,858	29,858
High Ross Treaty	Water	240,704	240,704
Lookout Point	Water	389	389
Main Canal Headworks	Water	37,504	37,504
Potholes East Canal 66.0	Water	3,394	3,394
Priest Rapids	Water	18,970	18,970
Ross	Water	593,166	593,166
Russell D Smith	Water	5,758	5,758
Sierra Pacific Burlington Facility	Wood/Wood Waste Solids	19,764	19,764
South Fork Tolt	Water	52,101	52,101
Summer Falls Power Plant	Water	141,793	141,793
Waste Management Columbia Ridge LFGTE	Landfill Gas	99,487	99,487
West Point Treatment Plant	Other Biomass Gas	15,796	
	Natural Gas	0	15,796
Total		**5,150,237**	**5,150,237**

Skamania County PUD #1

Utility Fuel Mix

Fuel	Percent	MWh from Claims on Resources	Total MWh from Market Purchases	Total MWh
Biogas	0.00 %	0	0	0
Biomass	0.11 %	71	73	144
Coal	1.23 %	0	1,635	1,635
Geothermal	0.00 %	0	0	0
Hydro	86.75 %	112,814	2,120	114,934
Natural Gas	0.71 %	10	924	934
Nuclear	11.15 %	14,660	114	14,774
Other Biogenic	0.00 %	0	0	0
Other Non-Biogenic	0.03 %	0	39	39
Petroleum	0.02 %	0	24	24
Solar	0.00 %	0	0	0
Waste	0.00 %	0	0	0
Wind	0.00 %	0	0	0
Total	**100.00 %**	**127,555**	**4,929**	**132,484**

BPA Claims

Fuel	MWh
Biomass	71
Hydro	112,814
Natural Gas	10
Nuclear	14,660
SubTotal	**127,555**
BPA Market Purchase	4,929
BPA Total	**132,484**

Snohomish County PUD #1

Utility Fuel Mix

Fuel	Percent	MWh from Claims on Resources	Total MWh from Market Purchases	Total MWh
Biogas	0.00 %	0	0	0
Biomass	0.10 %	3,401	3,454	6,855
Coal	1.19 %	0	77,873	77,873
Geothermal	0.00 %	0	0	0
Hydro	87.27 %	5,632,900	100,932	5,733,832
Natural Gas	0.68 %	474	44,007	44,480
Nuclear	10.71 %	698,024	5,447	703,471
Other Biogenic	0.00 %	0	0	0
Other Non-Biogenic	0.03 %	0	1,834	1,834
Petroleum	0.02 %	0	1,155	1,155
Solar	0.00 %	0	0	0
Waste	0.00 %	0	0	0
Wind	0.00 %	0	0	0
Total	**100.00 %**	**6,334,799**	**234,702**	**6,569,500**

BPA Claims

Fuel	MWh
Biomass	3,401
Hydro	5,371,552
Natural Gas	474
Nuclear	698,024
SubTotal	**6,073,451**
BPA Market Purchase	234,702
BPA Total	**6,308,153**

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
H M Jackson	Water	261,348	261,348
Hampton Lumber Mill	Other Biomass Solids	0	0
Hay Canyon Wind Power LLC	Wind	0	0
Packwood	Water	0	0
Qualco Energy	Other Biomass Gas	0	0
Roosevelt Biogas 1	Landfill Gas	0	0
Wheat Field Wind Power Project	Wind	0	0
White Creek Wind Farm	Wind	0	0
Woods Creek	Water	0	0
Youngs Creek Hydroelectric Project	Water	0	0
Total		**261,348**	**261,348**

Steilacoom Electric Utility

Utility Fuel Mix

Fuel	Percent	MWh from Claims on Resources	Total MWh from Market Purchases	Total MWh
Biogas	0.00 %	0	0	0
Biomass	0.11 %	21	21	43
Coal	1.23 %	0	483	483
Geothermal	0.00 %	0	0	0
Hydro	86.75 %	33,344	627	33,971
Natural Gas	0.71 %	3	273	276
Nuclear	11.15 %	4,333	34	4,367
Other Biogenic	0.00 %	0	0	0
Other Non-Biogenic	0.03 %	0	11	11
Petroleum	0.02 %	0	7	7
Solar	0.00 %	0	0	0
Waste	0.00 %	0	0	0
Wind	0.00 %	0	0	0
Total	**100.00 %**	**37,701**	**1,456**	**39,158**

BPA Claims

Fuel	MWh
Biomass	21
Hydro	33,344
Natural Gas	3
Nuclear	4,333
SubTotal	**37,701**
BPA Market Purchase	1,456
BPA Total	**39,157**

Sumas, City of

Utility Fuel Mix

Fuel	Percent	MWh from Claims on Resources	Total MWh from Market Purchases	Total MWh
Biogas	0.00 %	0	0	0
Biomass	0.11 %	18	18	36
Coal	1.23 %	0	412	412
Geothermal	0.00 %	0	0	0
Hydro	86.75 %	28,443	534	28,977
Natural Gas	0.71 %	3	233	236
Nuclear	11.15 %	3,696	29	3,725
Other Biogenic	0.00 %	0	0	0
Other Non-Biogenic	0.03 %	0	10	10
Petroleum	0.02 %	0	6	6
Solar	0.00 %	0	0	0
Waste	0.00 %	0	0	0
Wind	0.00 %	0	0	0
Total	**100.00 %**	**32,160**	**1,242**	**33,402**

BPA Claims

Fuel	MWh
Biomass	18
Hydro	28,443
Natural Gas	3
Nuclear	3,696
SubTotal	**32,160**
BPA Market Purchase	1,242
BPA Total	**33,402**

Tacoma Power

Utility Fuel Mix

Fuel	Percent	MWh from Claims on Resources	Total MWh from Market Purchases	Total MWh
Biogas	0.00 %	0	0	0
Biomass	0.13 %	3,074	3,285	6,359
Coal	1.54 %	0	74,056	74,056
Geothermal	0.00 %	0	0	0
Hydro	84.23 %	3,948,832	95,984	4,044,816
Natural Gas	0.88 %	194	41,850	42,043
Nuclear	6.05 %	285,332	5,180	290,512
Other Biogenic	0.00 %	0	0	0
Other Non-Biogenic	0.04 %	0	1,744	1,744
Petroleum	0.02 %	0	1,098	1,098
Solar	0.00 %	0	0	0
Waste	0.00 %	0	0	0
Wind	7.11 %	341,423	0	341,423
Total	**100.00 %**	**4,578,855**	**223,197**	**4,802,051**

BPA Claims

Fuel	MWh
Biomass	1,390
Hydro	2,195,733
Natural Gas	194
Nuclear	285,332
SubTotal	**2,482,649**
BPA Market Purchase	95,940
BPA Total	**2,578,589**

Market Purchases

Type	MWh
Utility Market Purchase	127,257
Total	**127,257**

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Alder	Water	125,827	125,827
Bennett Creek Windfarm LLC	Wind	53,915	53,915
Burley Butte Windpark	Wind	51,243	51,243
Condon Windpower LLC	Wind	4,310	4,310
Cushman 1	Water	92,683	92,683
Cushman 2	Water	171,063	171,063
FPL Energy Vansycle LLC (WA)	Wind	7,619	7,619
Grand Coulee Project Hydro Authority	Water	126,846	126,846
Hood Street Reservoir	Water	1,610	1,610
Hot Springs Windfarm LLC	Wind	54,742	54,742
Klondike Wind Power	Wind	2,674	2,674
Klondike Windpower III	Wind	5,460	5,460
LaGrande	Water	190,556	190,556
Mayfield	Water	393,007	393,007
Milner Dam Wind Park LLC	Wind	47,105	47,105
Mossyrock	Water	617,816	617,816
Nine Canyon	Wind	36,341	36,341
Pilgrim Stage Wind Park	Wind	28,014	28,014
Power County Wind Park North	Wind	24,617	24,617
Power County Wind Park South	Wind	25,383	25,383
Priest Rapids	Water	7,160	7,160
Sierra Pacific Aberdeen	Wood/Wood Waste Solids	1,684	1,684
Wanapum	Water	7,922	7,922
Wynoochee	Water	18,609	18,609
Total		**2,096,206**	**2,096,206**

Tanner Electric Coop

Utility Fuel Mix

Fuel	Percent	MWh from Claims on Resources	Total MWh from Market Purchases	Total MWh
Biogas	0.00 %	0	0	0
Biomass	0.11 %	51	52	103
Coal	1.23 %	0	1,167	1,167
Geothermal	0.00 %	0	0	0
Hydro	86.75 %	80,489	1,512	82,002
Natural Gas	0.71 %	7	659	667
Nuclear	11.15 %	10,459	82	10,541
Other Biogenic	0.00 %	0	0	0
Other Non-Biogenic	0.03 %	0	27	27
Petroleum	0.02 %	0	17	17
Solar	0.00 %	0	0	0
Waste	0.00 %	0	0	0
Wind	0.00 %	0	0	0
Total	**100.00 %**	**91,006**	**3,516**	**94,524**

BPA Claims

Fuel	MWh
Biomass	51
Hydro	80,489
Natural Gas	7
Nuclear	10,459
SubTotal	**91,006**
BPA Market Purchase	3,516
BPA Total	**94,522**

Vera Water & Power

Utility Fuel Mix

Fuel	Percent	MWh from Claims on Resources	Total MWh from Market Purchases	Total MWh
Biogas	0.00 %	0	0	0
Biomass	0.11 %	120	122	243
Coal	1.23 %	0	2,755	2,755
Geothermal	0.00 %	0	0	0
Hydro	86.75 %	190,068	3,571	193,640
Natural Gas	0.71 %	17	1,557	1,574
Nuclear	11.15 %	24,699	193	24,892
Other Biogenic	0.00 %	0	0	0
Other Non-Biogenic	0.03 %	0	65	65
Petroleum	0.02 %	0	41	41
Solar	0.00 %	0	0	0
Waste	0.00 %	0	0	0
Wind	0.00 %	0	0	0
Total	**100.00 %**	**214,904**	**8,304**	**223,210**

BPA Claims

Fuel	MWh
Biomass	120
Hydro	190,068
Natural Gas	17
Nuclear	24,699
SubTotal	**214,904**
BPA Market Purchase	8,304
BPA Total	**223,208**

Wahkiakum County PUD #1

Utility Fuel Mix

Fuel	Percent	MWh from Claims on Resources	Total MWh from Market Purchases	Total MWh
Biogas	0.00 %	0	0	0
Biomass	0.11 %	23	23	46
Coal	1.23 %	0	518	518
Geothermal	0.00 %	0	0	0
Hydro	86.75 %	35,749	672	36,421
Natural Gas	0.71 %	3	293	296
Nuclear	11.15 %	4,646	36	4,682
Other Biogenic	0.00 %	0	0	0
Other Non-Biogenic	0.03 %	0	12	12
Petroleum	0.02 %	0	8	8
Solar	0.00 %	0	0	0
Waste	0.00 %	0	0	0
Wind	0.00 %	0	0	0
Total	**100.00 %**	**40,421**	**1,562**	**41,983**

BPA Claims

Fuel	MWh
Biomass	23
Hydro	35,749
Natural Gas	3
Nuclear	4,646
SubTotal	**40,421**
BPA Market Purchase	1,562
BPA Total	**41,983**

Whatcom County PUD #1

Utility Fuel Mix

Fuel	Percent	MWh from Claims on Resources	Total MWh from Market Purchases	Total MWh
Biogas	0.00 %	0	0	0
Biomass	0.11 %	124	126	250
Coal	1.23 %	0	2,842	2,842
Geothermal	0.00 %	0	0	0
Hydro	86.75 %	196,031	3,683	199,714
Natural Gas	0.71 %	17	1,606	1,623
Nuclear	11.15 %	25,474	199	25,673
Other Biogenic	0.00 %	0	0	0
Other Non-Biogenic	0.03 %	0	67	67
Petroleum	0.02 %	0	42	42
Solar	0.00 %	0	0	0
Waste	0.00 %	0	0	0
Wind	0.00 %	0	0	0
Total	**100.00 %**	**221,646**	**8,565**	**230,211**

BPA Claims

Fuel	MWh
Biomass	124
Hydro	196,031
Natural Gas	17
Nuclear	25,474
SubTotal	**221,646**
BPA Market Purchase	8,565
BPA Total	**230,211**

Yakama Power

Utility Fuel Mix

Fuel	Percent	MWh from Claims on Resources	Total MWh from Market Purchases	Total MWh
Biogas	0.00 %	0	0	0
Biomass	0.11 %	54	55	109
Coal	1.23 %	0	1,237	1,237
Geothermal	0.00 %	0	0	0
Hydro	86.75 %	85,319	1,603	86,922
Natural Gas	0.71 %	8	699	707
Nuclear	11.15 %	11,087	87	11,174
Other Biogenic	0.00 %	0	0	0
Other Non-Biogenic	0.03 %	0	29	29
Petroleum	0.02 %	0	18	18
Solar	0.00 %	0	0	0
Waste	0.00 %	0	0	0
Wind	0.00 %	0	0	0
Total	**100.00 %**	**96,468**	**3,728**	**100,196**

BPA Claims

Fuel	MWh
Biomass	54
Hydro	85,319
Natural Gas	8
Nuclear	11,087
SubTotal	**96,468**
BPA Market Purchase	3,728
BPA Total	**100,196**