

Washington State Electric Utility Fuel Mix Disclosure Reports



For Calendar Year 2019

ENERGY

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REPORT TO THE LEGISLATURE

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Acknowledgments

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Forward

The Washington State Fuel Mix Disclosure process is designed to provide utilities with 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 360-725-3112.

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 (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. 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. The BPA provides Commerce with information about the mix of resources used to generate this electricity. The PNGC cooperative also provides some member utility information to Commerce.

Changes for post 2019 reports: Power Source Disclosure (Fuel Mix) 2019 Legislative update

- Engrossed Substitute House Bill [1428](#) reforms the fuel mix statute enacted in 2000 ([19.29A RCW](#)). This law requires that electric utilities disclose to their customers the fuels used to generate their electricity. Commerce requested this legislation to make much-needed updates to the law and to improve the accuracy and timeliness of the reports.
- For utility customers, the biggest change will be a new category on the disclosure label for “unspecified sources.” Utilities do not always know the sources when they purchase electricity, and the existing law required that Commerce assign fuel shares to this power. Instead, unknown sources will simply be listed as a separate category.
- The law makes other changes that are less obvious but important to the integrity of utility power source disclosures. Utilities will be required to include known sources of electricity generation, and Main Body of Report.

What is the source of information for this report?

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 June 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 energy (MWh) and fuel type is presented first. The state level information is the aggregate of all of the calculated individual utility fuel mix values. A state level time fuel mix series is also presented. The Northwest Power Pool (NWPP) Generation Mix information is presented next. Following these tables and figures is a full description of the fuel mix for each electric utility in the State.

Glossary

- “Claims on Resources” refers to power obtained from specific generation facilities, with fuel source information obtained from the US Energy Information Administration.
- “Unspecified Power Purchase” refers to power purchases where the generation facility and fuel source information is not known.
- “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 labelled as unspecified.
- “BPA Claims” includes only the portion of delivered BPA power that can be attributed to specific plants.

Washington State Electric Utilities: 2019 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 presents the fuel sources associated with electricity to end users in Washington State for 2019. Hydropower, at 54.1 percent is the by far the largest primary fuel used to produce electricity in the state. Unspecified power, where the fuel source information is not known, is the second largest category at 13.2 percent, followed by natural gas and coal at 11.6 and 10.7 percent respectively. Table 1 lists the electricity fuel sources by Megawatt-hours (MWh) and percent.

Figure 1: Washington State Electric Utilities Aggregate 2019 Fuel Mix (Percent)

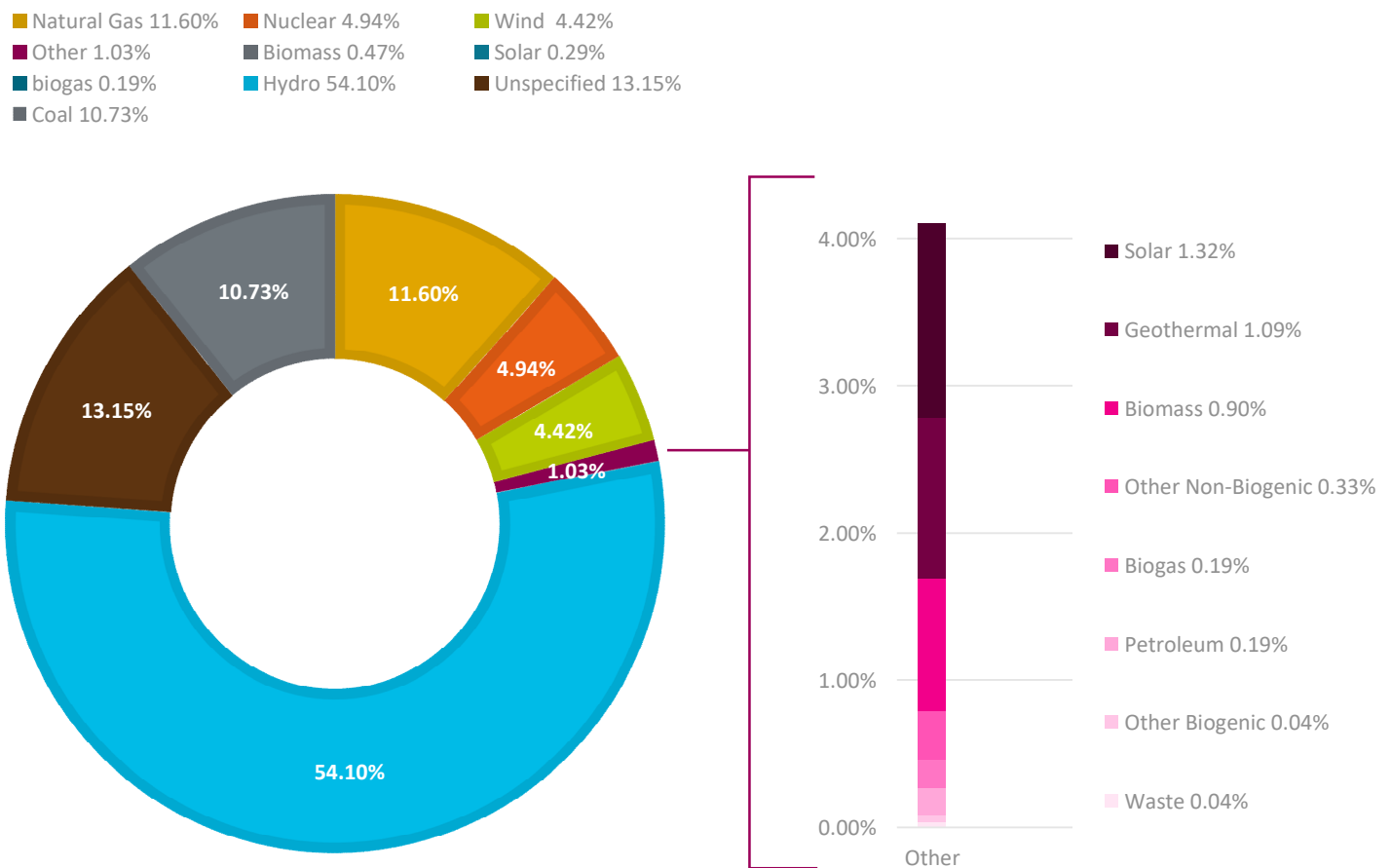


Table 1: Washington State Electric Utilities: Aggregate Fuel Mix 2019

Fuel Type	Total Electric Power MWh	Share of total
Hydro	50,754,566	54.10%
Unspecified Power	12,339,325	13.15%
Natural Gas	10,877,913	11.60%
Coal	10,069,295	10.73%
Nuclear	4,637,654	4.94%
Wind	4,144,546	4.42%
Biomass	440,016	0.47%
Solar	273,906	0.29%
Biogas	182,344	0.19%
Waste	38,334	0.04%
Other Biogenic	35,950	0.04%
Petroleum	13,089	0.01%
Geothermal	3,660	0.00%
Total	93,810,596	100.0%

Figure 2: Washington State Electric Utilities: Aggregate Fuel Mix Time Series 2001-2019 (MWh)

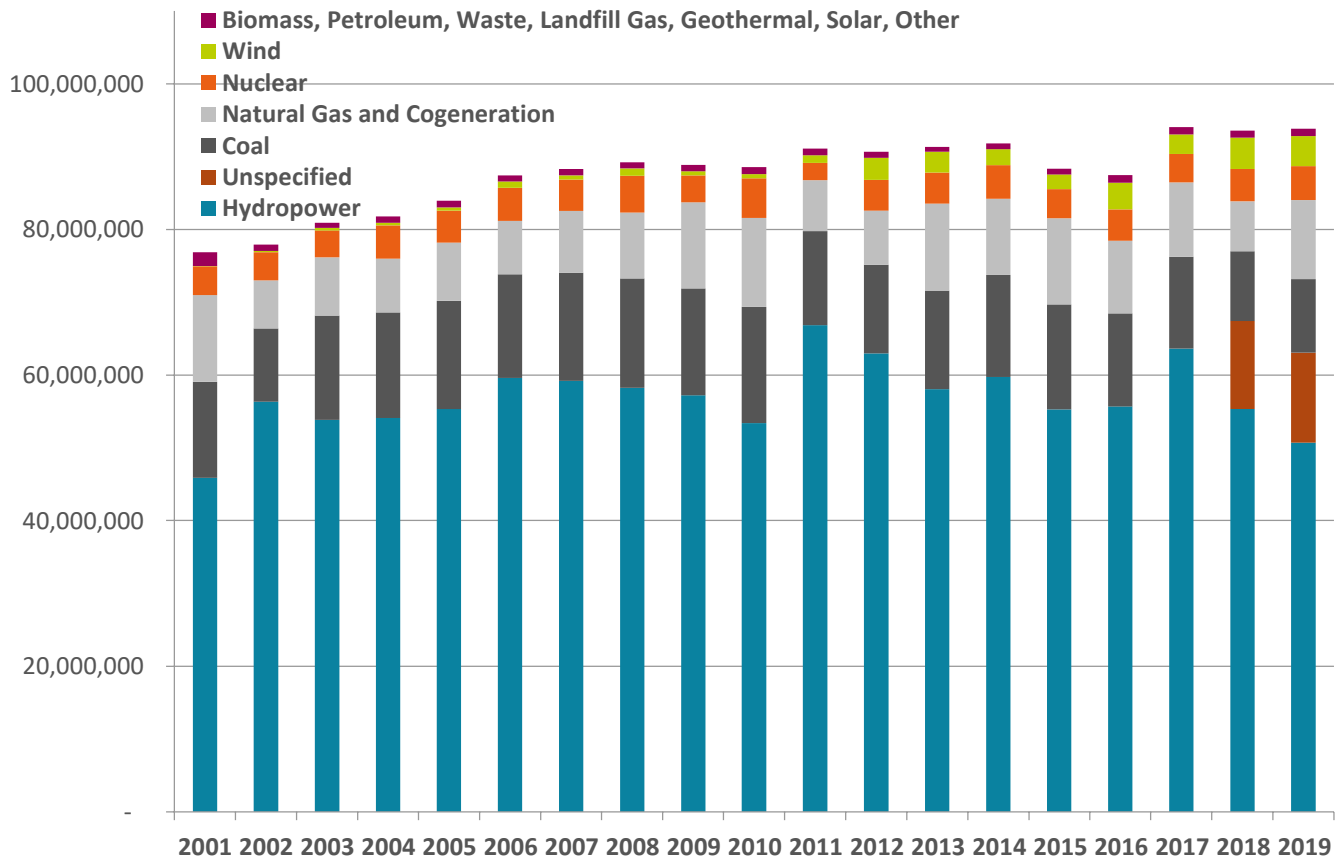


Table 2: Washington State Electric Utilities: Fuel Mix Time Series 2001-2019 (Megawatt-hours)

Fuel Source	2002	2003	2004	2005	2006	2007	2008	2009	2010
Hydropower	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
Coal	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
Cogeneration	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
Natural Gas	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
Nuclear	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
Biomass	392,378	434,700	536,643	587,085	392,712	460,983	415,226	445,076	492,371
Petroleum	22,244	34,957	53,046	44,233	62,232	69,267	69,937	94,360	81,372
Waste	23,471	139,056	102,864	150,955	331,963	288,528	276,669	296,180	332,719
Geothermal	-	-	-	-	14,399	11,189	16,866	19,237	17,376
Landfill Gas	220,705	75,125	134,122	80,500	57,858	49,041	23,043	16,058	18,787
Wind	163,134	320,540	346,470	432,667	867,392	545,622	1,010,928	587,994	567,281
Other	233,995	6,991	37,379	31,156	10,863	12,923	19,391	28,650	28,504
Solar									
Unspecified									
Total	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

Fuel Source	2011	2012	2013	2014	2015	2016	2017	2018	2019
Hydropower	66,847,397	62,984,536	58,074,493	59,723,805	55,306,859	55,948,538	63,644,891	55,340,207	50,754,566
Coal	12,900,636	12,149,258	13,519,852	14,026,540	14,388,993	12,338,072	12,593,438	9,556,048	10,069,295
Cogeneration	1,319,055	486,609	1,126,515	926,691					
Natural Gas	5,684,223	6,952,877	10,823,275	9,515,792	11,807,835	10,055,032	10,181,880	6,861,147	10,877,913
Nuclear	2,390,245	4,239,398	4,247,504	4,617,391	4,021,955	4,307,607	3,941,745	4,441,378	4,637,654
Biomass	446,890	310,812	260,972	300,416	401,408	684,569	562,311	417,963	440,016
Petroleum	68,539	67,580	64,611	59,674	47,108	65,498	103,244	15,854	13,089
Waste	336,948	303,066	221,914	203,960	158,887	113,732	172,753	35,627	38,334
Geothermal	18,107	17,003	16,138	17,911	16,085		0	3,540	3,660
Landfill Gas	49,209	83,665	60,741	104,431	133,132	148,177	121,566	184,859	182,344
Wind	1,017,702	3,011,137	2,859,415	2,219,613	2,029,032	3,661,267	2,674,081	4,288,021	4,144,546
Other	27,307	36,396	39,528	59,964		48,095	36,678	42,931	35,950
Solar		1,433	1,709	6,618	8,807	3,491	3,071	263,695	273,906
Unspecified								12,095,395	12,339,325
Total	91,106,257	90,643,771	91,316,669	91,782,808	88,320,101	87,374,078	94,035,658	93,548,683	93,810,599

Table 3 presents aggregate Washington utility carbon dioxide emissions for 2019 by fuel category. Total sulfur dioxide, nitrogen oxide and mercury emissions are shown at the bottom of the table. Figure 3 below presents the carbon dioxide emissions information in chart format. Emissions from coal fired generation dominate Washington State's electric sector carbon dioxide emissions. Figure 4 below illustrates the aggregate state carbon dioxide for the electric sector for 2005-2019.

Table 3: 2019 Washington State Utility Aggregate CO2 Emissions by Fuel Type

Fuel Type	Short tons	Metric Tons
Coal	16,799,686	15,241,266
Natural gas	6,846,562	6,211,442
Waste	119,741	108,663
Other biogenic/non-biogenic	199,647	181,127
Landfill gas	93,016	84,388
Petroleum	34,341	31,155
Total	24,092,993	21,858,011
Other Emissions	Short tons	Metric Tons
Sulfur Dioxide	43,761	39,702
Nitrogen Oxides	37,224	33,711
	Pounds	Kilograms
Mercury	335	152

Figure 3: 2019 Washington State Utility Aggregate CO2 Emissions by Fuel Type

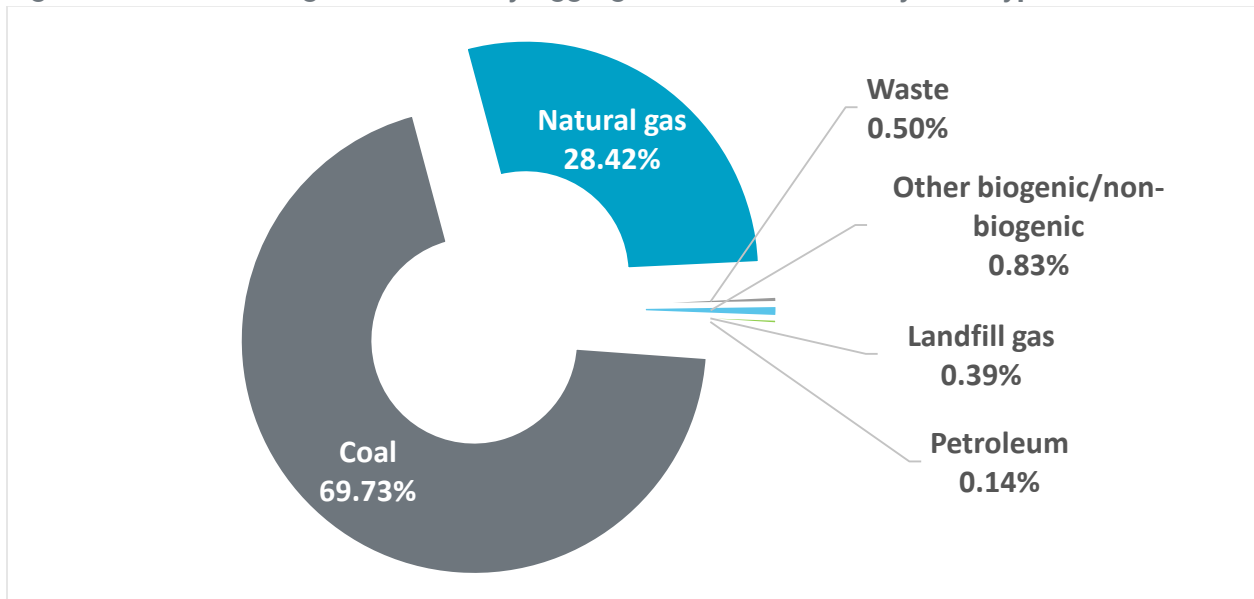
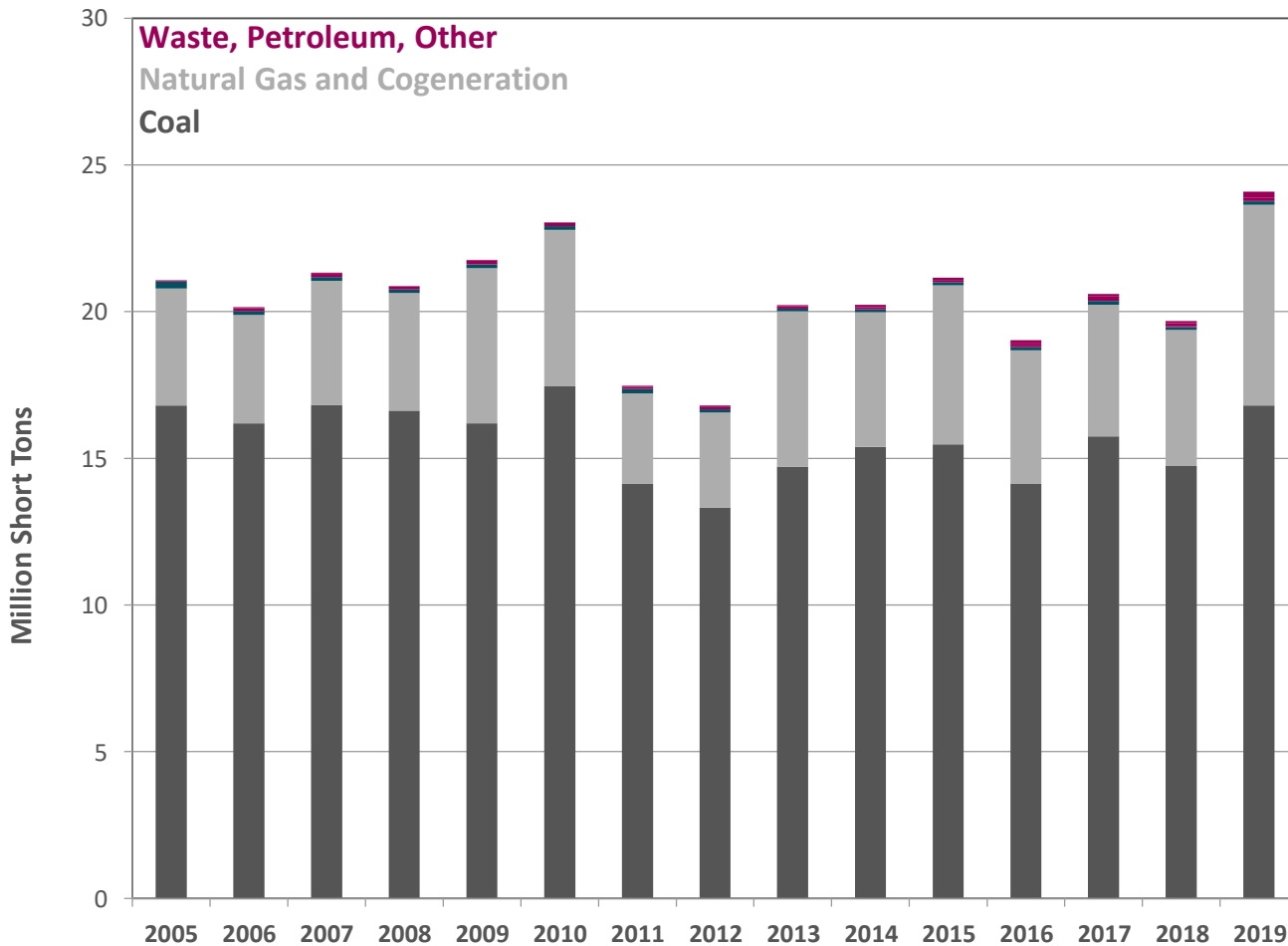


Figure 4: 2005-2019 Washington Aggregate CO2 emissions by Fuel Type



Northwest Power Pool Fuel Mix

The Northwest Power Pool Fuel Mix for 2019 is presented in Figure 5 and Table 4 below. Hydropower has the largest share of generation at 40.6 percent, followed by coal and natural gas fired generation at 24.6 and 19.5 percent respectively.

Figure 5: Northwest Power Pool Generation 2019

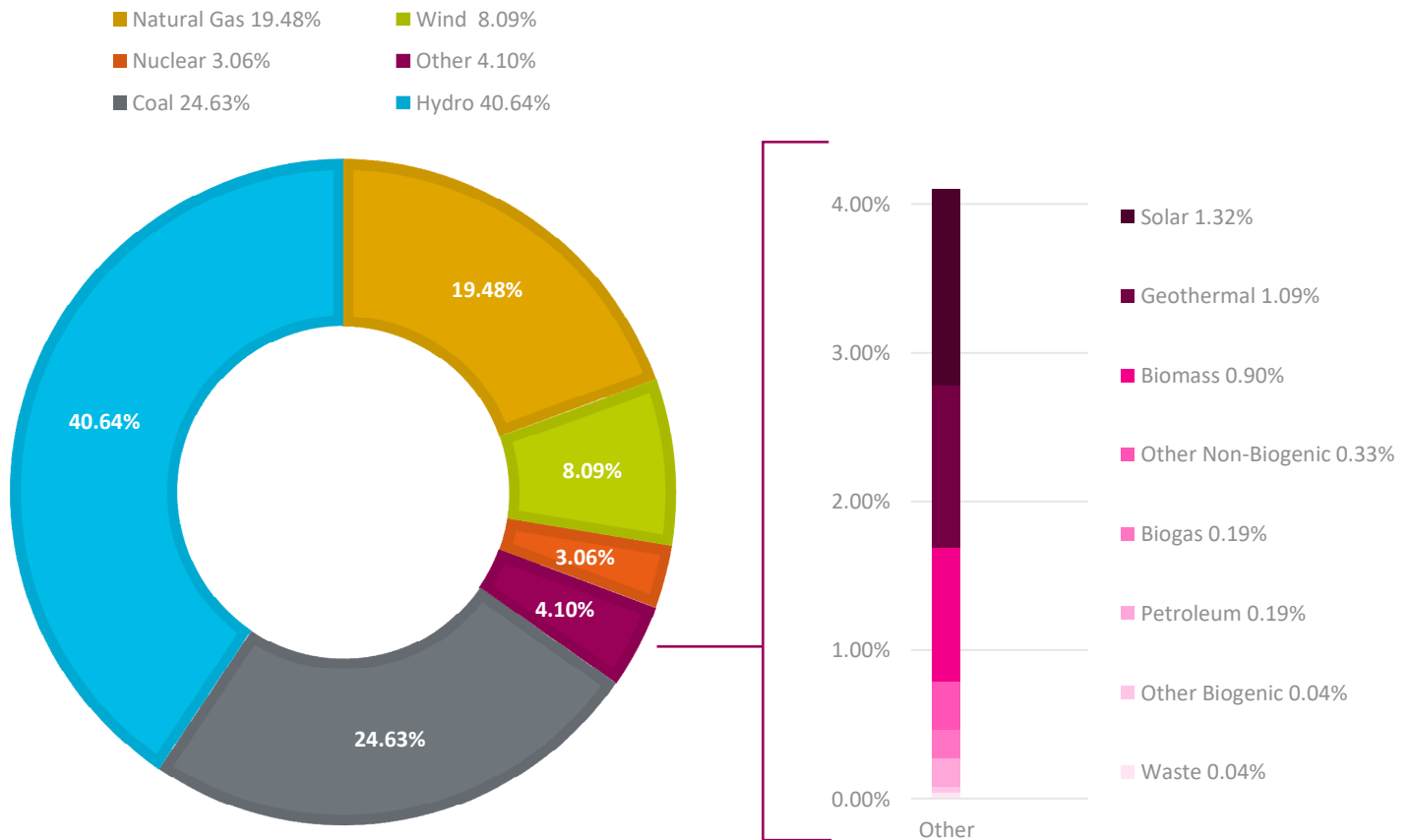


Table 4: 2019 Northwest Power Pool Generation by Fuel Category¹

Fuel Category	Net Generation MWh	Fuel Category Share
Hydro	114,844,517	40.64%
Coal	71,443,150	24.63%
Natural Gas	56,506,304	19.48%
Wind	23,452,803	8.09%
Nuclear	8,866,499	3.06%
Geothermal	3,156,663	1.09%
Waste	102,864	0.04%
Other Biogenic	122,102	0.04%
Petroleum	546,758	0.19%
Biogas	547,496	0.19%
Solar	3,841,219	1.32%
Other non-Biogenic	964,910	0.33%
Biomass	2,615,775	0.90%
Total	290,001,060	100.00%

¹ Net power plant generation is used in the WA fuel mix disclosure process. Some entities report power as gross generation, which does not include power plant parasitic losses.

Table 5 below illustrates carbon dioxide emissions associated with electric power generation in the Northwest Power Pool in 2019. Coal fired electricity generation is the primary source of emissions.

Table 5: 2019 Northwest Power Pool Estimated CO2 Emissions by Fuel Type

Fuel Type	CO2 emissions: short tons	CO2 emissions: Metric tons
Coal	90,564,180	82,163,012
Natural gas	26,434,597	23,982,397
Petroleum	705,499	640,053
Other	1,759,058	1,595,879
Total	119,463,334	108,381,342

Table 6 illustrates the Northwest Power Pool Net System Mix for 2019. The Net System Mix is the electric generation remaining after all known claims on generation are made against the Northwest Power Pool total generation shown in Table 4 above. Hydropower generation comprises the largest share at 33.5 percent followed by coal and natural gas fired generation at 32.4 and 28.9 percent respectively.

Table 6: Northwest Power Pool Net System Fuel Mix 2019

Fuel Type	Net Generation, MWh	Fuel Category Share	Imputed NSM emissions, short tons
Hydro	23,091,240	33.50%	
Coal	22,397,886	32.49%	28,481,438
Natural Gas	19,941,659	28.93%	10,571,073
Nuclear	801,920	1.16%	
Biomass	1,697,610	2.47%	
Other Non-Biogenic	951,278	1.38%	928,257
Petroleum	33,301	0.05%	83,722
Waste	12,046	0.02%	40,184
Total	68,926,940	100.00%	40,041,675

Appendix A: Utility Fuel Mix Disclosure Reports

See pages below

Alder Mutual Light

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	0.00 %	0
Coal	0.00 %	0
Geothermal	0.00 %	0
Hydro	83.16 %	4,229
Natural Gas	0.00 %	0
Nuclear	11.45 %	582
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	5.39 %	274
Total	100.00 %	5,085

BPA Claims

Fuel	MWh
Hydro	4,229
Nuclear	582
SubTotal	4,811
BPA Unspecified Purchase	275
BPA Total	5,086

Asotin County PUD #1

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	0.00 %	0
Coal	0.00 %	0
Geothermal	0.00 %	0
Hydro	83.16 %	4,040
Natural Gas	0.00 %	0
Nuclear	11.45 %	556
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	5.39 %	262
Total	100.00 %	4,858

BPA Claims

Fuel	MWh
Hydro	4,040
Nuclear	556
SubTotal	4,596
BPA Unspecified Purchase	261
BPA Total	4,857

Avangrid (WA)

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	0.00 %	0
Coal	0.00 %	0
Geothermal	0.00 %	0
Hydro	3.38 %	1,178
Natural Gas	2.32 %	808
Nuclear	0.00 %	0
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	23.73 %	8,260
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	70.19 %	24,433
Unspecified	0.38 %	134
Total	100.00 %	34,813

Utility Unspecified Purchases

Type	MWh
Unspecified Purchase	135
Total	135

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Big Horn Wind II	Wind	56	56
Big Horn Wind Project	Wind	97	97
Klamath Cogeneration Plant	Natural Gas	808	808
Klondike Windpower II	Wind	9,986	9,986
Klondike Windpower III	Wind	9,309	9,309
Montague Wind Power Facility LLC	Wind	4,985	4,985
Priest Rapids	Water	610	610
Rocky Reach	Water	568	568
Solar Star Oregon II	Solar	8,260	8,260
Total		34,679	34,679

Avista (WA)

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	4.86 %	294,725
Coal	15.02 %	910,161
Geothermal	0.00 %	0
Hydro	37.83 %	2,293,318
Natural Gas	37.97 %	2,301,131
Nuclear	0.00 %	0
Other Biogenic	0.52 %	31,364
Other Non-Biogenic	0.00 %	0
Petroleum	0.01 %	878
Solar	0.00 %	0
Unknown	0.00 %	0
Waste	0.63 %	38,334
Wind	3.16 %	191,675
Unspecified	0.00 %	0
Total	100.00 %	6,061,586

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Boulder Park	Natural Gas	38,531	38,531
Cabinet Gorge	Water	454,036	454,036
Clearwater Paper IPP Lewiston	Residual Fuel Oil	0	
	Black Liquor	105,852	
	Natural Gas	26,730	
	Wood/Wood Waste Solids	30,625	
	Distillate Fuel Oil	0	163,207
Colstrip	Subbituminous Coal	910,161	
	Waste/Other Oil	271	
	Distillate Fuel Oil	608	
	Gaseous Propane	0	911,039
Coyote Springs II	Natural Gas	1,088,749	1,088,749
Kettle Falls Generating Station	Natural Gas	8,045	
	Wood/Wood Waste Solids	136,775	144,820
Little Falls (WA)	Water	94,440	94,440
Long Lake	Water	252,489	252,489
Meyers Falls	Water	5,127	5,127
Monroe Street	Water	44,931	44,931
Nine Mile	Water	54,780	54,780
Northeast (WA)	Natural Gas	1,992	1,992
Noxon Rapids	Water	720,871	720,871
Palouse	Wind	191,675	191,675
Plummer Cogen	Wood/Wood Waste Solids	21,473	21,473
Post Falls	Water	31,455	31,455
Priest Rapids	Water	161,203	161,203

Rathdrum	Natural Gas	101,455	101,455
Rathdrum Power LLC	Natural Gas	1,035,629	1,035,629
Rocky Reach	Water	206,928	206,928
Sheep Creek Hydro	Water	3,706	3,706
Spokane Waste to Energy	Non-biogenic Municipal Solid Waste	38,334	
	Biogenic Municipal Solid Waste	31,364	69,698
Upper Falls	Water	30,483	30,483
Upriver Dam Hydro Plant	Water	21,624	21,624
Wells	Water	211,245	211,245
Total		6,061,587	6,061,586

Benton County PUD #1

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	1.72 %	31,543
Biomass	0.00 %	0
Coal	0.00 %	0
Geothermal	0.00 %	0
Hydro	74.10 %	1,355,995
Natural Gas	2.72 %	49,804
Nuclear	10.15 %	185,679
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	5.22 %	95,582
Unspecified	6.09 %	111,514
Total	100.00 %	1,830,117

BPA Claims

Fuel	MWh
Hydro	1,347,993
Nuclear	185,679
SubTotal	1,533,672
BPA Unspecified Purchase	87,324
BPA Total	1,620,996

Utility Unspecified Purchases

Type	MWh
Unspecified Purchase	24,190
Total	24,190

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Condon Windpower LLC	Wind	2,734	2,734
FPL Energy Vansycle LLC (WA)	Wind	5,526	5,526
Frederickson Power LP	Natural Gas	49,804	49,804
Klondike Wind Power	Wind	1,271	1,271
Klondike Windpower III	Wind	3,447	3,447
LRI LFGTE Facility	Landfill Gas	31,543	31,543
Nine Canyon	Wind	22,393	22,393
Packwood	Water	8,002	8,002
White Creek Wind Farm	Wind	23,400	23,400
Yahoo Creek	Wind	36,811	36,811
Total		184,931	184,931

Benton Rural Electric Assn

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	0.00 %	0
Coal	0.00 %	0
Geothermal	0.00 %	0
Hydro	72.99 %	432,379
Natural Gas	0.00 %	0
Nuclear	10.05 %	59,558
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	16.96 %	100,457
Total	100.00 %	592,394

BPA Claims

Fuel	MWh
Hydro	432,379
Nuclear	59,558
SubTotal	491,937
BPA Unspecified Purchase	28,010
BPA Total	519,947

Utility Unspecified Purchases

Type	MWh
Unspecified Purchase	72,446
Total	72,446

Big Bend Electric Coop

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	0.00 %	0
Coal	0.00 %	0
Geothermal	0.00 %	0
Hydro	79.34 %	454,510
Natural Gas	0.00 %	0
Nuclear	10.93 %	62,606
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	9.73 %	55,724
Total	100.00 %	572,840

BPA Claims

Fuel	MWh
Hydro	454,510
Nuclear	62,606
SubTotal	517,116
BPA Unspecified Purchase	29,444
BPA Total	546,560

Utility Unspecified Purchases

Type	MWh
Unspecified Purchase	26,281
Total	26,281

Centralia City Light

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	0.00 %	0
Coal	3.28 %	8,825
Geothermal	0.00 %	0
Hydro	84.44 %	227,386
Natural Gas	0.00 %	0
Nuclear	8.35 %	22,490
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	11
Solar	0.00 %	0
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	3.93 %	10,577
Total	100.00 %	269,289

BPA Claims

Fuel	MWh
Hydro	163,272
Nuclear	22,490
SubTotal	185,762
BPA Unspecified Purchase	10,577
BPA Total	196,339

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Transalta Centralia Generation	Waste/Other Coal	0	
	Subbituminous Coal	0	
	Refined Coal	8,825	
	Distillate Fuel Oil	11	8,836
Yelm	Water	64,114	64,114
Total		72,950	72,950

Chelan County PUD #1

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	0.00 %	0
Coal	0.00 %	0
Geothermal	0.00 %	0
Hydro	99.99 %	1,768,862
Natural Gas	0.00 %	0
Nuclear	0.00 %	0
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	35
Solar	0.00 %	0
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	0.01 %	196
Unspecified	0.00 %	0
Total	100.00 %	1,769,093

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Chelan	Water	265,084	265,084
Nine Canyon	Wind	196	196
Rock Island	Water	234,078	234,078
Rocky Reach	Water	1,268,552	1,268,552
Stehekin Diesel	Distillate Fuel Oil	35	35
Stehekin Hydro	Water	1,148	1,148
Total		1,769,093	1,769,093

Cheney Light Department

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	0.00 %	0
Coal	0.00 %	0
Geothermal	0.00 %	0
Hydro	74.90 %	126,395
Natural Gas	0.00 %	0
Nuclear	10.32 %	17,410
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	14.78 %	24,939
Total	100.00 %	168,744

BPA Claims

Fuel	MWh
Hydro	126,395
Nuclear	17,410
SubTotal	143,805
BPA Unspecified Purchase	8,188
BPA Total	151,993

Utility Unspecified Purchases

Type	MWh
Unspecified Purchase	16,749
Total	16,749

Chewelah Electric Department

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	0.00 %	0
Coal	0.00 %	0
Geothermal	0.00 %	0
Hydro	83.16 %	17,600
Natural Gas	0.00 %	0
Nuclear	11.45 %	2,424
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	5.39 %	1,140
Total	100.00 %	21,164

BPA Claims

Fuel	MWh
Hydro	17,600
Nuclear	2,424
SubTotal	20,024
BPA Unspecified Purchase	1,141
BPA Total	21,165

City of Blaine

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	0.00 %	0
Coal	0.00 %	0
Geothermal	0.00 %	0
Hydro	83.16 %	67,995
Natural Gas	0.00 %	0
Nuclear	11.45 %	9,366
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	5.39 %	4,405
Total	100.00 %	81,766

BPA Claims

Fuel	MWh
Hydro	67,995
Nuclear	9,366
SubTotal	77,361
BPA Unspecified Purchase	4,404
BPA Total	81,765

Clallam County PUD #1

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	0.00 %	0
Coal	0.00 %	0
Geothermal	0.00 %	0
Hydro	83.31 %	564,773
Natural Gas	0.00 %	0
Nuclear	11.35 %	76,934
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	5.34 %	36,182
Total	100.00 %	677,889

BPA Claims

Fuel	MWh
Hydro	558,526
Nuclear	76,934
SubTotal	635,460
BPA Unspecified Purchase	36,182
BPA Total	671,642

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Distributed Generation--Hydro (WA)	Water	288	288
Packwood	Water	5,959	5,959
Total		6,247	6,247

Clark County PUD #1

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	0.00 %	0
Coal	0.00 %	0
Geothermal	0.00 %	0
Hydro	46.04 %	2,172,989
Natural Gas	31.43 %	1,483,490
Nuclear	6.31 %	297,888
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	3.51 %	165,736
Unspecified	12.71 %	599,970
Total	100.00 %	4,720,073

BPA Claims

Fuel	MWh
Hydro	2,162,612
Nuclear	297,888
SubTotal	2,460,500
BPA Unspecified Purchase	140,096
BPA Total	2,600,596

Utility Unspecified Purchases

Type	MWh
Unspecified Purchase	459,873
Total	459,873

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Eurus Combine Hills Turbine Ranch 2	Wind	165,736	165,736
Packwood	Water	10,377	10,377
River Road Gen Plant	Natural Gas	1,483,490	1,483,490
Total		1,659,603	1,659,603

Clearwater Power (WA)

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	0.00 %	0
Coal	0.00 %	0
Geothermal	0.00 %	0
Hydro	82.95 %	18,285
Natural Gas	0.00 %	0
Nuclear	11.40 %	2,513
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	5.65 %	1,245
Total	100.00 %	22,043

BPA Claims

Fuel	MWh
Hydro	18,241
Nuclear	2,513
SubTotal	20,754
BPA Unspecified Purchase	1,182
BPA Total	21,936

Utility Unspecified Purchases

Type	MWh
Unspecified Purchase	64
Total	64

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Rocky Reach	Water	43	43
Total		43	43

Columbia Rural Electric Assn (WA)

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	0.00 %	0
Coal	0.00 %	0
Geothermal	0.00 %	0
Hydro	77.77 %	289,890
Natural Gas	0.00 %	0
Nuclear	10.71 %	39,931
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	11.52 %	42,926
Total	100.00 %	372,747

BPA Claims

Fuel	MWh
Hydro	289,890
Nuclear	39,931
SubTotal	329,821
BPA Unspecified Purchase	18,779
BPA Total	348,600

Utility Unspecified Purchases

Type	MWh
Unspecified Purchase	24,148
Total	24,148

Coulee Dam, Town of

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	0.00 %	0
Coal	0.00 %	0
Geothermal	0.00 %	0
Hydro	83.16 %	14,412
Natural Gas	0.00 %	0
Nuclear	11.45 %	1,985
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	5.39 %	934
Total	100.00 %	17,331

BPA Claims

Fuel	MWh
Hydro	14,412
Nuclear	1,985
SubTotal	16,397
BPA Unspecified Purchase	933
BPA Total	17,330

Cowlitz County PUD #1

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	1.52 %	70,914
Coal	0.05 %	2,477
Geothermal	0.00 %	0
Hydro	63.90 %	2,975,523
Natural Gas	0.29 %	13,558
Nuclear	8.45 %	393,705
Other Biogenic	0.02 %	1,084
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	104
Solar	0.01 %	558
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	7.48 %	348,335
Unspecified	18.28 %	851,589
Total	100.00 %	4,657,847

BPA Claims

Fuel	MWh
Hydro	2,858,227
Nuclear	393,705
SubTotal	3,251,932
BPA Unspecified Purchase	185,160
BPA Total	3,437,092

Utility Unspecified Purchases

Type	MWh
Unspecified Purchase	666,430
Total	666,430

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
American Falls Solar	Solar	558	558
Cold Springs Windfarm	Wind	16,713	16,713
Condon Windpower LLC	Wind	6,274	6,274
Desert Meadow Windfarm	Wind	36,888	36,888
FPL Energy Vansycle LLC (WA)	Wind	10,855	10,855
Harvest Wind Project	Wind	108,593	108,593
High Mesa	Wind	92,794	92,794
Horse Butte Wind I, LLC	Wind	3,357	3,357
Klondike Wind Power	Wind	2,502	2,502
Klondike Windpower III	Wind	16,520	16,520
Longview Fibre	Wood/Wood Waste Solids	12,314	
	Black Liquor	38,278	
	Natural Gas	8,844	59,436
Nine Canyon	Wind	16,633	16,633
Nippon Dynawave Packaging Longview WA	Natural Gas	4,715	
	Distillate Fuel Oil	13	
	Residual Fuel Oil	91	
	Subbituminous Coal	2,477	
	Black Liquor	15,426	
	Sludge Waste	1,084	
	Wood/Wood Waste Solids	4,896	28,701
Power County Wind Park North	Wind	19,302	19,302
Power County Wind Park South	Wind	17,904	17,904

Priest Rapids	Water	5,553	5,553
Swift 2	Water	106,195	106,195
Wanapum	Water	5,548	5,548
Total		554,327	554,326

Douglas County PUD #1

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	0.00 %	0
Coal	0.00 %	0
Geothermal	0.00 %	0
Hydro	81.16 %	958,834
Natural Gas	0.00 %	0
Nuclear	0.00 %	0
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	18.84 %	222,550
Total	100.00 %	1,181,384

Utility Unspecified Purchases

Type	MWh
Unspecified Purchase	222,550
Total	222,550

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Rocky Reach	Water	268,412	268,412
Wells	Water	690,422	690,422
Total		958,834	958,834

Eatonville Electric Department

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	0.00 %	0
Coal	0.00 %	0
Geothermal	0.00 %	0
Hydro	83.16 %	23,019
Natural Gas	0.00 %	0
Nuclear	11.45 %	3,171
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	5.39 %	1,491
Total	100.00 %	27,681

BPA Claims

Fuel	MWh
Hydro	23,019
Nuclear	3,171
SubTotal	26,190
BPA Unspecified Purchase	1,491
BPA Total	27,681

Ellensburg Electric Division

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	0.00 %	0
Coal	0.00 %	0
Geothermal	0.00 %	0
Hydro	83.16 %	179,564
Natural Gas	0.00 %	0
Nuclear	11.45 %	24,734
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	5.39 %	11,632
Total	100.00 %	215,930

BPA Claims

Fuel	MWh
Hydro	179,564
Nuclear	24,734
SubTotal	204,298
BPA Unspecified Purchase	11,633
BPA Total	215,931

Elmhurst Mutual Power & Light

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	0.00 %	0
Coal	0.00 %	0
Geothermal	0.00 %	0
Hydro	83.16 %	233,279
Natural Gas	0.00 %	0
Nuclear	11.45 %	32,133
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	5.39 %	15,112
Total	100.00 %	280,524

BPA Claims

Fuel	MWh
Hydro	233,279
Nuclear	32,133
SubTotal	265,412
BPA Unspecified Purchase	15,112
BPA Total	280,524

Ferry County PUD #1

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	0.00 %	0
Coal	0.00 %	0
Geothermal	0.00 %	0
Hydro	83.16 %	59,750
Natural Gas	0.00 %	0
Nuclear	11.45 %	8,230
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	5.39 %	3,871
Total	100.00 %	71,851

BPA Claims

Fuel	MWh
Hydro	59,750
Nuclear	8,230
SubTotal	67,980
BPA Unspecified Purchase	3,872
BPA Total	71,852

Franklin County PUD #1

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	0.00 %	0
Coal	0.00 %	0
Geothermal	0.00 %	0
Hydro	77.83 %	864,739
Natural Gas	4.05 %	45,027
Nuclear	10.60 %	117,812
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	0.51 %	5,713
Unspecified	7.01 %	77,901
Total	100.00 %	1,111,192

BPA Claims

Fuel	MWh
Hydro	855,290
Nuclear	117,812
SubTotal	973,102
BPA Unspecified Purchase	55,407
BPA Total	1,028,509

Utility Unspecified Purchases

Type	MWh
Unspecified Purchase	22,493
Total	22,493

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Distributed Generation--Hydro (WA)	Water	3,453	3,453
Frederickson Power LP	Natural Gas	45,027	45,027
Nine Canyon	Wind	5,713	5,713
Packwood	Water	5,996	5,996
Total		60,189	60,189

Grant County PUD #2

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	0.00 %	0
Coal	0.00 %	0
Geothermal	0.00 %	0
Hydro	23.52 %	1,241,265
Natural Gas	0.00 %	0
Nuclear	0.10 %	5,052
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	0.47 %	24,744
Unspecified	75.91 %	4,005,790
Total	100.00 %	5,276,851

BPA Claims

Fuel	MWh
Hydro	36,678
Nuclear	5,052
SubTotal	41,730
BPA Unspecified Purchase	2,376
BPA Total	44,106

Utility Unspecified Purchases

Type	MWh
Unspecified Purchase	4,003,415
Total	4,003,415

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Nine Canyon	Wind	24,744	24,744
PEC Headworks	Water	18,680	18,680
Priest Rapids	Water	562,056	562,056
Quincy Chute	Water	26,280	26,280
Wanapum	Water	597,571	597,571
Total		1,229,331	1,229,331

Grays Harbor County PUD #1

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	0.00 %	0
Coal	0.00 %	0
Geothermal	0.00 %	0
Hydro	83.16 %	790,972
Natural Gas	0.00 %	0
Nuclear	11.45 %	108,952
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	5.39 %	51,240
Total	100.00 %	951,164

BPA Claims

Fuel	MWh
Hydro	790,972
Nuclear	108,952
SubTotal	899,924
BPA Unspecified Purchase	51,240
BPA Total	951,164

Inland Power & Light

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	0.00 %	0
Coal	0.00 %	0
Geothermal	0.00 %	0
Hydro	82.26 %	837,949
Natural Gas	0.00 %	0
Nuclear	11.33 %	115,423
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	6.41 %	65,328
Total	100.00 %	1,018,700

BPA Claims

Fuel	MWh
Hydro	837,949
Nuclear	115,423
SubTotal	953,372
BPA Unspecified Purchase	54,285
BPA Total	1,007,657

Utility Unspecified Purchases

Type	MWh
Unspecified Purchase	11,045
Total	11,045

Jefferson County PUD #1

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	0.00 %	0
Coal	0.00 %	0
Geothermal	0.00 %	0
Hydro	83.16 %	325,975
Natural Gas	0.00 %	0
Nuclear	11.45 %	44,901
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	5.39 %	21,117
Total	100.00 %	391,993

BPA Claims

Fuel	MWh
Hydro	325,975
Nuclear	44,901
SubTotal	370,876
BPA Unspecified Purchase	21,116
BPA Total	391,992

Kalispel Tribal Utility

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	0.00 %	0
Coal	0.00 %	0
Geothermal	0.00 %	0
Hydro	83.16 %	24,147
Natural Gas	0.00 %	0
Nuclear	11.45 %	3,326
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	5.39 %	1,564
Total	100.00 %	29,037

BPA Claims

Fuel	MWh
Hydro	24,147
Nuclear	3,326
SubTotal	27,473
BPA Unspecified Purchase	1,564
BPA Total	29,037

Kittitas PUD #1

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	0.00 %	0
Coal	0.00 %	0
Geothermal	0.00 %	0
Hydro	84.69 %	95,517
Natural Gas	0.00 %	0
Nuclear	10.41 %	11,745
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	4.90 %	5,524
Total	100.00 %	112,786

BPA Claims

Fuel	MWh
Hydro	85,266
Nuclear	11,745
SubTotal	97,011
BPA Unspecified Purchase	5,523
BPA Total	102,534

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Wanapum	Water	10,251	10,251
Total		10,251	10,251

Klickitat County PUD #1

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	0.00 %	0
Coal	0.00 %	0
Geothermal	0.00 %	0
Hydro	73.30 %	333,684
Natural Gas	0.00 %	0
Nuclear	9.00 %	40,964
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	17.70 %	80,585
Total	100.00 %	455,233

BPA Claims

Fuel	MWh
Hydro	297,389
Nuclear	40,964
SubTotal	338,353
BPA Unspecified Purchase	19,265
BPA Total	357,618

Utility Unspecified Purchases

Type	MWh
Unspecified Purchase	61,320
Total	61,320

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
McNary Dam Fish Attraction Project	Water	34,559	34,559
Packwood	Water	1,736	1,736
Total		36,295	36,295

Kootenai Electric Coop

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	0.00 %	0
Coal	0.00 %	0
Geothermal	0.00 %	0
Hydro	83.16 %	2,328
Natural Gas	0.00 %	0
Nuclear	11.45 %	321
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	5.39 %	151
Total	100.00 %	2,800

BPA Claims

Fuel	MWh
Hydro	2,328
Nuclear	321
SubTotal	2,649
BPA Unspecified Purchase	150
BPA Total	2,799

Lakeview Light & Power

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	0.00 %	0
Coal	0.00 %	0
Geothermal	0.00 %	0
Hydro	83.16 %	219,316
Natural Gas	0.00 %	0
Nuclear	11.45 %	30,210
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	5.39 %	14,208
Total	100.00 %	263,734

BPA Claims

Fuel	MWh
Hydro	219,316
Nuclear	30,210
SubTotal	249,526
BPA Unspecified Purchase	14,208
BPA Total	263,734

Lewis County PUD #1

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	0.00 %	0
Coal	0.00 %	0
Geothermal	0.00 %	0
Hydro	75.28 %	719,408
Natural Gas	0.00 %	0
Nuclear	10.32 %	98,599
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	5.61 %	53,584
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	3.94 %	37,660
Unspecified	4.85 %	46,371
Total	100.00 %	955,622

BPA Claims

Fuel	MWh
Hydro	715,807
Nuclear	98,599
SubTotal	814,406
BPA Unspecified Purchase	46,370
BPA Total	860,776

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
American Falls Solar	Solar	13,664	13,664
American Falls Solar II	Solar	18,728	18,728
Burton Creek Hydro	Water	1,217	1,217
Mill Creek	Water	657	657
Nine Canyon	Wind	37,660	37,660
Orchard Ranch Solar	Solar	12,149	12,149
Packwood	Water	1,727	1,727
Simcoe Solar	Solar	9,043	9,043
Total		94,845	94,845

Mason County PUD #1

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	0.00 %	0
Coal	0.00 %	0
Geothermal	0.00 %	0
Hydro	84.00 %	65,455
Natural Gas	0.00 %	0
Nuclear	10.88 %	8,482
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	5.12 %	3,989
Total	100.00 %	77,926

BPA Claims

Fuel	MWh
Hydro	61,574
Nuclear	8,482
SubTotal	70,056
BPA Unspecified Purchase	3,989
BPA Total	74,045

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Lilliwaup Falls Generating	Water	3,459	3,459
Rocky Brook Hydroelectric	Water	422	422
Total		3,881	3,881

Mason County PUD #3

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	0.00 %	0
Coal	0.00 %	0
Geothermal	0.00 %	0
Hydro	76.53 %	526,886
Natural Gas	0.00 %	0
Nuclear	10.42 %	71,777
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.03 %	206
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	8.12 %	55,894
Unspecified	4.90 %	33,757
Total	100.00 %	688,520

BPA Claims

Fuel	MWh
Hydro	521,091
Nuclear	71,777
SubTotal	592,868
BPA Unspecified Purchase	33,758
BPA Total	626,626

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
BPA--Dedicated Resource Type Sales	Unknown		0
Condon Windpower LLC	Wind	1,088	1,088
Distributed Generation--Solar (WA)	Solar	206	206
FPL Energy Vansycle LLC (WA)	Wind	2,197	2,197
Klondike Wind Power	Wind	507	507
Klondike Windpower III	Wind	1,364	1,364
Nine Canyon	Wind	6,199	6,199
Packwood	Water	5,795	5,795
White Creek Wind Farm	Wind	44,539	44,539
Total		61,895	61,895

McCleary Light & Power

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	0.00 %	0
Coal	0.00 %	0
Geothermal	0.00 %	0
Hydro	83.16 %	26,097
Natural Gas	0.00 %	0
Nuclear	11.45 %	3,595
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	5.39 %	1,691
Total	100.00 %	31,383

BPA Claims

Fuel	MWh
Hydro	26,097
Nuclear	3,595
SubTotal	29,692
BPA Unspecified Purchase	1,690
BPA Total	31,382

Milton Electric Division

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	0.00 %	0
Coal	0.00 %	0
Geothermal	0.00 %	0
Hydro	83.16 %	47,677
Natural Gas	0.00 %	0
Nuclear	11.45 %	6,567
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	5.39 %	3,089
Total	100.00 %	57,333

BPA Claims

Fuel	MWh
Hydro	47,677
Nuclear	6,567
SubTotal	54,244
BPA Unspecified Purchase	3,089
BPA Total	57,333

Modern Electric Water Company

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	0.00 %	0
Coal	0.00 %	0
Geothermal	0.00 %	0
Hydro	83.16 %	196,771
Natural Gas	0.00 %	0
Nuclear	11.45 %	27,104
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	5.39 %	12,747
Total	100.00 %	236,622

BPA Claims

Fuel	MWh
Hydro	196,771
Nuclear	27,104
SubTotal	223,875
BPA Unspecified Purchase	12,747
BPA Total	236,622

Nespelem Valley Elec Coop

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	0.00 %	0
Coal	0.00 %	0
Geothermal	0.00 %	0
Hydro	83.16 %	52,847
Natural Gas	0.00 %	0
Nuclear	11.45 %	7,279
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	5.39 %	3,424
Total	100.00 %	63,550

BPA Claims

Fuel	MWh
Hydro	52,847
Nuclear	7,279
SubTotal	60,126
BPA Unspecified Purchase	3,424
BPA Total	63,550

Northern Lights (WA)

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	0.00 %	0
Coal	0.00 %	0
Geothermal	0.00 %	0
Hydro	84.24 %	124
Natural Gas	0.00 %	0
Nuclear	10.72 %	16
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	5.04 %	7
Total	100.00 %	147

BPA Claims

Fuel	MWh
Hydro	115
Nuclear	16
SubTotal	131
BPA Unspecified Purchase	6
BPA Total	137

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Lake Creek	Water	9	9
Total		9	9

Ohop Mutual Light

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	0.00 %	0
Coal	0.00 %	0
Geothermal	0.00 %	0
Hydro	83.16 %	73,424
Natural Gas	0.00 %	0
Nuclear	11.45 %	10,114
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	5.39 %	4,756
Total	100.00 %	88,294

BPA Claims

Fuel	MWh
Hydro	73,424
Nuclear	10,114
SubTotal	83,538
BPA Unspecified Purchase	4,756
BPA Total	88,294

Okanogan County Electric Coop

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	0.00 %	0
Coal	0.00 %	0
Geothermal	0.00 %	0
Hydro	81.23 %	54,409
Natural Gas	0.00 %	0
Nuclear	11.19 %	7,494
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	7.58 %	5,076
Total	100.00 %	66,979

BPA Claims

Fuel	MWh
Hydro	54,409
Nuclear	7,494
SubTotal	61,903
BPA Unspecified Purchase	3,525
BPA Total	65,428

Utility Unspecified Purchases

Type	MWh
Unspecified Purchase	1,550
Total	1,550

Okanogan County PUD #1

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	0.00 %	0
Coal	0.00 %	0
Geothermal	0.00 %	0
Hydro	80.97 %	511,601
Natural Gas	0.00 %	0
Nuclear	6.71 %	42,384
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	3.51 %	22,196
Unspecified	8.81 %	55,690
Total	100.00 %	631,871

BPA Claims

Fuel	MWh
Hydro	307,701
Nuclear	42,384
SubTotal	350,085
BPA Unspecified Purchase	19,933
BPA Total	370,018

Utility Unspecified Purchases

Type	MWh
Unspecified Purchase	35,757
Total	35,757

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Nine Canyon	Wind	22,196	22,196
Wells	Water	203,900	203,900
Total		226,096	226,096

Orcas Power & Light Coop

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	0.00 %	0
Coal	0.00 %	0
Geothermal	0.00 %	0
Hydro	82.33 %	182,658
Natural Gas	0.00 %	0
Nuclear	11.34 %	25,160
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	6.33 %	14,046
Total	100.00 %	221,864

BPA Claims

Fuel	MWh
Hydro	182,658
Nuclear	25,160
SubTotal	207,818
BPA Unspecified Purchase	11,832
BPA Total	219,650

Utility Unspecified Purchases

Type	MWh
Unspecified Purchase	2,213
Total	2,213

Pacific County PUD #2

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	0.00 %	0
Coal	0.00 %	0
Geothermal	0.00 %	0
Hydro	76.18 %	239,921
Natural Gas	0.00 %	0
Nuclear	10.49 %	33,048
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	13.33 %	41,972
Total	100.00 %	314,941

BPA Claims

Fuel	MWh
Hydro	239,921
Nuclear	33,048
SubTotal	272,969
BPA Unspecified Purchase	15,542
BPA Total	288,511

Utility Unspecified Purchases

Type	MWh
Unspecified Purchase	26,431
Total	26,431

Pacific Power (WA)

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	0.00 %	0
Coal	45.31 %	2,065,708
Geothermal	0.00 %	0
Hydro	10.83 %	493,887
Natural Gas	17.62 %	803,354
Nuclear	0.17 %	7,867
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.04 %	1,696
Solar	0.00 %	0
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	1.92 %	87,461
Unspecified	24.11 %	1,099,503
Total	100.00 %	4,559,476

BPA Claims

Fuel	MWh
Hydro	57,114
Nuclear	7,867
SubTotal	64,981
BPA Unspecified Purchase	3,702
BPA Total	68,683

Utility Unspecified Purchases

Type	MWh
Unspecified Purchase	1,095,803
Total	1,095,803

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Bend	Water	338	338
Campbell Hill Windpower	Wind	9,690	9,690
Chehalis Generating Facility	Distillate Fuel Oil	0	
	Natural Gas	498,853	498,853
Clearwater 1	Water	5,720	5,720
Clearwater 2	Water	7,775	7,775
Colstrip	Gaseous Propane	0	
	Subbituminous Coal	112,872	
	Waste/Other Oil	34	
	Distillate Fuel Oil	75	112,981
Copco 1	Water	18,631	18,631
Copco 2	Water	23,567	23,567
Dunlap	Wind	11,613	11,613
Eagle Point	Water	3,649	3,649
Fall Creek	Water	1,312	1,312
Fish Creek	Water	4,538	4,538
Glenrock	Wind	9,339	9,339
Goodnoe Hills	Wind	3,680	3,680
Hermiston Generating Plant	Natural Gas	304,501	304,501
Iron Gate	Water	22,001	22,001
Jim Bridger	Distillate Fuel Oil	1,587	
	Subbituminous Coal	1,952,836	1,954,423
John C Boyle	Water	49,064	49,064
Leaning Juniper	Wind	7,531	7,531

Lemolo 1	Water	23,213	23,213
Lemolo 2	Water	30,975	30,975
Marengo Wind Plant	Wind	18,011	18,011
Merwin	Water	32,195	32,195
Prospect 1	Water	1,847	1,847
Prospect 2	Water	40,857	40,857
Prospect 3	Water	5,127	5,127
Prospect 4	Water	394	394
Seven Mile Hill	Wind	10,561	10,561
Slide Creek	Water	10,042	10,042
Soda Springs	Water	8,269	8,269
Swift 1	Water	41,797	41,797
Toketee Falls	Water	41,965	41,965
Top of the World Windpower Project	Wind	17,036	17,036
Wallowa Falls	Water	596	596
West Side	Electricity for Energy Storage	-4	-4
Yale	Water	62,901	62,901
Total		3,394,988	3,394,988

Parkland Light & Water

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	0.00 %	0
Coal	0.00 %	0
Geothermal	0.00 %	0
Hydro	83.16 %	97,445
Natural Gas	0.00 %	0
Nuclear	11.45 %	13,422
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	5.39 %	6,313
Total	100.00 %	117,180

BPA Claims

Fuel	MWh
Hydro	97,445
Nuclear	13,422
SubTotal	110,867
BPA Unspecified Purchase	6,312
BPA Total	117,179

Pend Oreille County PUD #1

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	0.00 %	0
Coal	0.00 %	0
Geothermal	0.00 %	0
Hydro	90.53 %	888,412
Natural Gas	0.00 %	0
Nuclear	2.43 %	23,859
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	7.04 %	69,079
Total	100.00 %	981,350

BPA Claims

Fuel	MWh
Hydro	173,209
Nuclear	23,859
SubTotal	197,068
BPA Unspecified Purchase	11,221
BPA Total	208,289

Utility Unspecified Purchases

Type	MWh
Unspecified Purchase	57,859
Total	57,859

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Boundary	Water	318,158	318,158
Box Canyon	Water	397,045	397,045
Total		715,203	715,203

Peninsula Light

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	0.00 %	0
Coal	0.00 %	0
Geothermal	0.00 %	0
Hydro	75.96 %	465,337
Natural Gas	0.00 %	0
Nuclear	10.46 %	64,098
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	8.66 %	53,039
Unspecified	4.92 %	30,145
Total	100.00 %	612,619

BPA Claims

Fuel	MWh
Hydro	465,337
Nuclear	64,098
SubTotal	529,435
BPA Unspecified Purchase	30,146
BPA Total	559,581

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Condon Windpower LLC	Wind	8,163	8,163
FPL Energy Vansycle LLC (WA)	Wind	22,938	22,938
Harvest Wind Project	Wind	2,043	2,043
Horse Butte Wind I, LLC	Wind	2,789	2,789
Klondike Wind Power	Wind	15,874	15,874
Klondike Windpower III	Wind	1,232	1,232
Total		53,039	53,039

Port Angeles Light Operations

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	0.00 %	0
Coal	0.00 %	0
Geothermal	0.00 %	0
Hydro	83.16 %	228,522
Natural Gas	0.00 %	0
Nuclear	11.45 %	31,478
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	5.39 %	14,804
Total	100.00 %	274,804

BPA Claims

Fuel	MWh
Hydro	228,522
Nuclear	31,478
SubTotal	260,000
BPA Unspecified Purchase	14,804
BPA Total	274,804

Port of Seattle

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	0.00 %	0
Coal	0.00 %	0
Geothermal	0.00 %	0
Hydro	83.16 %	121,828
Natural Gas	0.00 %	0
Nuclear	11.45 %	16,781
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	5.39 %	7,892
Total	100.00 %	146,501

BPA Claims

Fuel	MWh
Hydro	121,828
Nuclear	16,781
SubTotal	138,609
BPA Unspecified Purchase	7,893
BPA Total	146,502

Puget Sound Energy

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.14 %	31,058
Biomass	0.06 %	13,108
Coal	31.98 %	7,082,124
Geothermal	0.02 %	3,660
Hydro	17.17 %	3,802,122
Natural Gas	27.92 %	6,180,741
Nuclear	0.27 %	59,591
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.04 %	8,860
Solar	0.87 %	193,072
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	8.26 %	1,827,750
Unspecified	13.27 %	2,937,304
Total	100.00 %	22,139,390

BPA Claims

Fuel	MWh
Hydro	432,617
Nuclear	59,591
SubTotal	492,208
BPA Unspecified Purchase	28,026
BPA Total	520,234

Utility Unspecified Purchases

Type	MWh
Unspecified Purchase	2,909,279
Total	2,909,279

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Ballston Solar LLC	Solar	2,101	2,101
Bennett Creek Windfarm LLC - Mountain Home	Wind	2,056	2,056
Black Creek	Water	7,421	7,421
Black Eagle Solar, LLC	Solar	3,002	3,002
Boring Solar LLC	Solar	908	908
Camp Reed	Wind	16,515	16,515
Campbell Hill Windpower	Wind	5,000	5,000
Colstrip	Gaseous Propane	0	
	Subbituminous Coal	4,012,334	
	Distillate Fuel Oil	2,678	
	Waste/Other Oil	1,193	4,016,205
Condon Windpower LLC	Wind	2,115	2,115
Crystal Mountain	Distillate Fuel Oil	170	170
Distributed Generation--Biomass (WA)	Wood/Wood Waste Solids	13,108	13,108
Distributed Generation--Solar (WA)	Solar	48,546	48,546
Electron	Water	132,703	132,703
Elkhorn Valley Wind Farm	Wind	10,000	10,000
Emerald City Renewables	Landfill Gas	7,500	7,500
Encogen	Distillate Fuel Oil	0	
	Natural Gas	370,092	370,092
Escalante Solar I, LLC	Solar	1,788	1,788
Escalante Solar II, LLC	Solar	2,768	2,768
Farm Power Lynden	Other Biomass Gas	4,875	4,875

Farm Power Rexville	Other Biomass Gas	7,593	7,593
Ferndale Generating Station	Distillate Fuel Oil	73	
	Natural Gas	967,847	967,920
Finley Buttes Landfill Gas	Landfill Gas	1,813	1,813
Fossil Gulch	Wind	1,648	1,648
FPL Energy Vansycle LLC (WA)	Wind	3,890	3,890
Frederickson	Natural Gas	75,005	
	Distillate Fuel Oil	157	75,162
Frederickson Power LP	Natural Gas	618,695	618,695
Fredonia	Distillate Fuel Oil	438	
	Natural Gas	178,887	179,325
Glenrock	Wind	2,034	2,034
Golden Valley Wind Park LLC	Wind	10,169	10,169
Goldendale Generating Station	Natural Gas	1,794,064	1,794,064
Goodnoe Hills	Wind	12,400	12,400
Grand View Solar Two	Solar	41,752	41,752
Granite Mountain Solar East, LLC	Solar	2,330	2,330
Granite Mountain Solar West, LLC	Solar	121	121
Great Divide Solar, LLC	Solar	2,957	2,957
Green Meadow Solar, LLC	Solar	2,993	2,993
Hidden Hollow Energy	Landfill Gas	5,687	5,687
Hopkins Ridge Wind	Wind	217,498	217,498
Horse Butte Wind I, LLC	Wind	27	27
Horseshoe Bend Wind Park	Wind	10,841	10,841
Hot Springs Windfarm LLC	Wind	1,719	1,719
ID Solar	Solar	17,030	17,030
Klondike Wind Power	Wind	968	968
Klondike Windpower III	Wind	64,389	64,389
Koma Kulshan Associates	Water	27,514	27,514
Labish Solar LLC	Solar	2,124	2,124
Leaning Juniper	Wind	2,500	2,500
Lower Baker	Water	263,356	263,356
Lower Snake River Wind Energy Project	Wind	868,687	868,687
Magpie Solar, LLC	Solar	2,902	2,902
Marengo Wind Plant	Wind	45,720	45,720
Meadow Creek Project Company	Wind	50,105	50,105
Mint Farm Generating Station	Natural Gas	1,722,576	1,722,576
Murphy Flat Solar	Solar	9,587	9,587
Neal Hot Springs Geothermal Project	Geothermal	250	250
Nine Canyon	Wind	15,861	15,861
Nooksack Hydro	Water	21,046	21,046
NorWest Energy 9 LLC	Solar	1,000	
	Electricity for Energy Storage	0	1,000
OR Solar 3, LLC	Solar	2,288	2,288
OR Solar 5, LLC	Solar	2,417	2,417
OR Solar 6, LLC	Solar	3,186	3,186
Orchard Ranch Solar	Solar	8,855	8,855
Oregon Trail Wind Park	Wind	7,172	7,172
Priest Rapids	Water	21,534	21,534
Raft River Geothermal Power Plant	Geothermal	3,410	3,410
Rock Island	Water	538,460	538,460

Rockland Wind Farm	Wind	59,978	59,978
Rocky Reach	Water	1,109,789	1,109,789
Simcoe Solar	Solar	12,140	12,140
Skookumchuck	Water	2,149	2,149
Smith Creek (Whatcom County, WA)	Water	82	82
Snoqualmie	Water	45,401	45,401
Snoqualmie 2	Water	128,457	128,457
South Mills Solar, LLC	Solar	2,609	2,609
Sumas Power Plant	Natural Gas	446,745	446,745
Swauk Wind LLC	Wind	15,418	15,418
Sygitowicz Creek	Water	382	382
Threemile Canyon	Wind	2,017	2,017
Top of the World Windpower Project	Wind	10,657	10,657
Transalta Centralia Generation	Waste/Other Coal	0	
	Subbituminous Coal	0	
	Distillate Fuel Oil	3,709	
	Refined Coal	3,069,790	3,073,500
Tuana Gulch Wind Park	Wind	5,434	5,434
Twin Falls Hydro	Water	48,642	48,642
Upper Baker	Water	242,901	242,901
Utah Red Hills Renewable Energy Park	Solar	10,002	10,002
Van Dyk -S Holsteins	Other Biomass Gas	1,580	1,580
Vanderhaak Dairy Digester	Other Biomass Gas	2,010	2,010
Wanapum	Water	20,780	20,780
Ward Butte Windfarm LLC	Wind	7,340	7,340
Weeks Falls	Water	8,695	8,695
Wells	Water	750,193	750,193
White Creek Wind Farm	Wind	9,063	9,063
Whitehorn	Distillate Fuel Oil	440	
	Natural Gas	6,830	7,270
Wild Horse	Solar	220	
	Wind	347,361	347,581
Wolverine Creek	Wind	19,168	19,168
Woodline Solar	Solar	9,446	9,446
Total		18,709,876	18,709,877

Richland Energy Services

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	0.00 %	0
Coal	0.00 %	0
Geothermal	0.00 %	0
Hydro	81.71 %	829,731
Natural Gas	0.00 %	0
Nuclear	11.26 %	114,291
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	7.03 %	71,423
Total	100.00 %	1,015,445

BPA Claims

Fuel	MWh
Hydro	829,731
Nuclear	114,291
SubTotal	944,022
BPA Unspecified Purchase	53,752
BPA Total	997,774

Utility Unspecified Purchases

Type	MWh
Unspecified Purchase	17,673
Total	17,673

Ruston, Town of

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	0.57 %	43
Coal	0.00 %	0
Geothermal	0.00 %	0
Hydro	82.33 %	6,215
Natural Gas	0.00 %	0
Nuclear	7.10 %	536
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.03 %	2
Solar	0.01 %	0
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	6.62 %	499
Unspecified	3.34 %	252
Total	100.00 %	7,547

BPA Claims

Fuel	MWh
Hydro	3,888
Nuclear	536
SubTotal	4,424
BPA Unspecified Purchase	251
BPA Total	4,675

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Alder	Water	178	178
Bennett Creek Windfarm LLC - Mountain Home	Wind	47	47
Burley Butte Windpark	Wind	95	95
Condon Windpower LLC	Wind	12	12
Cosmo Specialty Fibers Plant	Wood/Wood Waste Solids	9	
	Bituminous Coal	0	
	Waste/Other Oil	0	
	Subbituminous Coal	0	
	Residual Fuel Oil	2	
	Wood Waste Liquids	34	
	Petroleum Coke	0	46
Cushman 1	Water	95	95
Cushman 2	Water	133	133
Distributed Generation--Solar (WA)	Solar	0	0
FPL Energy Vansycle LLC (OR)	Wind	86	86
FPL Energy Vansycle LLC (WA)	Wind	24	24
Grand Coulee Project Hydro Authority	Water	274	274
Hood Street Reservoir	Water	4	4
Hot Springs Windfarm LLC	Wind	1	1
Klondike Wind Power	Wind	5	5
Klondike Windpower III	Wind	14	14
LaGrande	Water	305	305
Mayfield	Water	560	560

Milner Dam Wind Park LLC	Wind		88	88
Mossyrock	Water		734	734
Nine Canyon	Wind		24	24
Payne's Ferry	Wind		18	18
Pilgrim Stage Wind Park	Wind		52	52
Power County Wind Park South	Wind		12	12
Priest Rapids	Water		13	13
Salmon Falls Wind Park	Wind		9	9
Thousand Springs Wind Park	Wind		12	12
Wanapum	Water		14	14
Wynoochee	Water		17	17
Yahoo Creek	Wind		0	0
Total			2,871	2,872

Seattle City Light

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	1.26 %	119,743
Biomass	0.00 %	0
Coal	0.00 %	0
Geothermal	0.00 %	0
Hydro	83.45 %	7,935,518
Natural Gas	0.00 %	0
Nuclear	5.18 %	492,317
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	3.67 %	349,239
Unspecified	6.44 %	612,790
Total	100.00 %	9,509,607

BPA Claims

Fuel	MWh
Hydro	3,574,130
Nuclear	492,317
SubTotal	4,066,447
BPA Unspecified Purchase	231,538
BPA Total	4,297,985

Utility Unspecified Purchases

Type	MWh
Unspecified Purchase	381,254
Total	381,254

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Bonneville	Water	3,691	3,691
Boundary	Water	1,940,364	1,940,364
Cedar Falls (WA)	Water	37,231	37,231
Chief Joseph	Water	20,156	20,156
Condon Windpower LLC	Wind	5,428	5,428
Cougar	Water	272	272
Diablo	Water	555,657	555,657
Eltopia Branch Canal 4.6	Water	3,631	3,631
Foote Creek I	Wind	2,111	2,111
FPL Energy Vansycle LLC (OR)	Wind	317,594	317,594
FPL Energy Vansycle LLC (WA)	Wind	11,934	11,934
Gorge	Water	757,920	757,920
Grand Coulee	Water	32,076	32,076
High Ross Treaty	Water	289,865	289,865
Klondike Wind Power	Wind	3,349	3,349
Klondike Windpower III	Wind	8,823	8,823
Lookout Point	Water	820	820
Main Canal Headworks	Water	38,990	38,990
Newhalem	Water	0	0
Palisades Dam	Water	2,325	2,325
Potholes East Canal 66.0	Water	1,953	1,953
Priest Rapids	Water	16,606	16,606
Ross	Water	476,234	476,234
Russell D Smith	Water	5,823	5,823

South Fork Tolt	Water	26,694	26,694
Summer Falls Power Plant	Water	149,259	149,259
Wanapum	Water	1,821	1,821
Waste Management Columbia Ridge LFGTE	Landfill Gas	101,645	101,645
West Point Treatment Plant	Natural Gas	0	
	Other Biomass Gas	18,098	18,098
Total		4,830,370	4,830,370

Skamania County PUD #1

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	0.00 %	0
Coal	0.00 %	0
Geothermal	0.00 %	0
Hydro	83.16 %	120,635
Natural Gas	0.00 %	0
Nuclear	11.45 %	16,617
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	5.39 %	7,815
Total	100.00 %	145,067

BPA Claims

Fuel	MWh
Hydro	120,635
Nuclear	16,617
SubTotal	137,252
BPA Unspecified Purchase	7,815
BPA Total	145,067

Snohomish County PUD #1

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	0.49 %	33,466
Coal	0.00 %	0
Geothermal	0.00 %	0
Hydro	76.05 %	5,232,168
Natural Gas	0.00 %	0
Nuclear	10.47 %	720,591
Other Biogenic	0.05 %	3,502
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.25 %	17,328
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	7.76 %	533,563
Unspecified	4.93 %	338,894
Total	100.00 %	6,879,512

BPA Claims

Fuel	MWh
Hydro	5,231,357
Nuclear	720,591
SubTotal	5,951,948
BPA Unspecified Purchase	338,893
BPA Total	6,290,841

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Condon Windpower LLC	Wind	10,859	10,859
Distributed generation - solar (WA)	Solar	17,328	17,328
FPL Energy Vansycle LLC (WA)	Wind	21,937	21,937
Hampton Lumber Mill	Wood/Wood Waste Solids	33,466	33,466
Hay Canyon Wind Power LLC	Wind	207,744	207,744
Klondike Wind Power	Wind	5,048	5,048
Klondike Windpower III	Wind	13,683	13,683
Payne's Ferry	Wind	2,932	2,932
Qualco Energy	Other Biomass Solids	3,502	3,502
Thousand Springs Wind Park	Wind	1,483	1,483
Wheat Field Wind Power Project	Wind	216,470	216,470
White Creek Wind Farm	Wind	53,407	53,407
Woods Creek	Water	811	811
Total		588,670	588,670

Solar City (WA)

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	0.00 %	0
Coal	0.00 %	0
Geothermal	0.00 %	0
Hydro	0.00 %	0
Natural Gas	0.00 %	0
Nuclear	0.00 %	0
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	100.00 %	587
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	0.00 %	0
Total	100.00 %	587

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Distributed Generation--Solar (WA)	Solar	587	587
Total		587	587

Steilacoom Electric Utility

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	0.00 %	0
Coal	0.00 %	0
Geothermal	0.00 %	0
Hydro	83.16 %	32,314
Natural Gas	0.00 %	0
Nuclear	11.45 %	4,451
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	5.39 %	2,093
Total	100.00 %	38,858

BPA Claims

Fuel	MWh
Hydro	32,314
Nuclear	4,451
SubTotal	36,765
BPA Unspecified Purchase	2,094
BPA Total	38,859

Sumas, City of

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	0.00 %	0
Coal	0.00 %	0
Geothermal	0.00 %	0
Hydro	83.16 %	26,949
Natural Gas	0.00 %	0
Nuclear	11.45 %	3,712
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	5.39 %	1,746
Total	100.00 %	32,407

BPA Claims

Fuel	MWh
Hydro	26,949
Nuclear	3,712
SubTotal	30,661
BPA Unspecified Purchase	1,745
BPA Total	32,406

Tacoma Power

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	0.57 %	27,759
Coal	0.00 %	0
Geothermal	0.00 %	0
Hydro	82.33 %	3,991,968
Natural Gas	0.00 %	0
Nuclear	7.10 %	343,981
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.03 %	1,503
Solar	0.01 %	310
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	6.62 %	320,831
Unspecified	3.34 %	161,774
Total	100.00 %	4,848,126

BPA Claims

Fuel	MWh
Hydro	2,497,239
Nuclear	343,981
SubTotal	2,841,220
BPA Unspecified Purchase	161,774
BPA Total	3,002,994

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Alder	Water	114,283	114,283
Bennett Creek Windfarm LLC - Mountain Home	Wind	29,898	29,898
Burley Butte Windpark	Wind	61,296	61,296
Condon Windpower LLC	Wind	7,492	7,492
Cosmo Specialty Fibers Plant	Subbituminous Coal	0	
	Petroleum Coke	0	
	Waste/Other Oil	0	
	Residual Fuel Oil	1,503	
	Wood/Wood Waste Solids	5,771	
	Wood Waste Liquids	21,988	
	Bituminous Coal	0	29,262
Cushman 1	Water	61,015	61,015
Cushman 2	Water	85,691	85,691
Distributed Generation--Solar (WA)	Solar	310	310
FPL Energy Vansycle LLC (OR)	Wind	55,000	55,000
FPL Energy Vansycle LLC (WA)	Wind	15,376	15,376
Grand Coulee Project Hydro Authority	Water	175,967	175,967
Hood Street Reservoir	Water	2,831	2,831
Hot Springs Windfarm LLC	Wind	335	335
Klondike Wind Power	Wind	3,439	3,439
Klondike Windpower III	Wind	9,285	9,285
LaGrande	Water	196,054	196,054
Mayfield	Water	359,456	359,456

Milner Dam Wind Park LLC	Wind		56,611	56,611
Mossyrock	Water		471,170	471,170
Nine Canyon	Wind		15,580	15,580
Payne's Ferry	Wind		11,793	11,793
Pilgrim Stage Wind Park	Wind		33,492	33,492
Power County Wind Park South	Wind		7,975	7,975
Priest Rapids	Water		8,208	8,208
Salmon Falls Wind Park	Wind		5,599	5,599
Thousand Springs Wind Park	Wind		7,658	7,658
Wanapum	Water		9,081	9,081
Wynoochee	Water		10,973	10,973
Yahoo Creek	Wind		2	2
Total			1,845,132	1,845,132

Tanner Electric Coop

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	0.00 %	0
Coal	0.00 %	0
Geothermal	0.00 %	0
Hydro	83.16 %	14,412
Natural Gas	0.00 %	0
Nuclear	11.45 %	1,985
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	5.39 %	934
Total	100.00 %	17,331

BPA Claims

Fuel	MWh
Hydro	14,412
Nuclear	1,985
SubTotal	16,397
BPA Unspecified Purchase	933
BPA Total	17,330

Vera Water & Power

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	0.00 %	0
Coal	0.00 %	0
Geothermal	0.00 %	0
Hydro	76.27 %	177,947
Natural Gas	0.00 %	0
Nuclear	10.50 %	24,511
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	13.23 %	30,872
Total	100.00 %	233,330

BPA Claims

Fuel	MWh
Hydro	177,947
Nuclear	24,511
SubTotal	202,458
BPA Unspecified Purchase	11,528
BPA Total	213,986

Utility Unspecified Purchases

Type	MWh
Unspecified Purchase	19,345
Total	19,345

Wahkiakum County PUD #1

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	0.00 %	0
Coal	0.00 %	0
Geothermal	0.00 %	0
Hydro	83.16 %	36,017
Natural Gas	0.00 %	0
Nuclear	11.45 %	4,961
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	5.39 %	2,333
Total	100.00 %	43,311

BPA Claims

Fuel	MWh
Hydro	36,017
Nuclear	4,961
SubTotal	40,978
BPA Unspecified Purchase	2,333
BPA Total	43,311

Whatcom County PUD #1

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	0.00 %	0
Coal	0.00 %	0
Geothermal	0.00 %	0
Hydro	83.16 %	197,009
Natural Gas	0.00 %	0
Nuclear	11.45 %	27,137
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	5.39 %	12,763
Total	100.00 %	236,909

BPA Claims

Fuel	MWh
Hydro	197,009
Nuclear	27,137
SubTotal	224,146
BPA Unspecified Purchase	12,762
BPA Total	236,908

Yakama Power

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	0.00 %	0
Coal	0.00 %	0
Geothermal	0.00 %	0
Hydro	83.16 %	120,218
Natural Gas	0.00 %	0
Nuclear	11.45 %	16,559
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	5.39 %	7,788
Total	100.00 %	144,565

BPA Claims

Fuel	MWh
Hydro	120,218
Nuclear	16,559
SubTotal	136,777
BPA Unspecified Purchase	7,789
BPA Total	144,566

Need footnote for 2016 report