

Washington electric utility fuel mix disclosure reports



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Forward

The Washington Fuel Mix Disclosure process is designed to provide utilities with an assessment of the 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 energydata@commerce.wa.gov.

About the Washington electric utilities fuel mix

The fuel mix disclosure law, RCW 19.29A, requires Washington 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 utility (also called a 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) 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. These are typically short-term transactions in 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, represented as MWh) 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. BPA provides Commerce with information about the mix of resources used to generate this electricity. PNGC Power, an electric generation and transmission cooperative, also provides information to Commerce on behalf of some member utilities.

Changes for post-2019 reports: Power source disclosure (fuel mix) 2019 Legislative update

- In 2019 the Legislature enacted Engrossed Substitute House Bill [1428](#) to reform the fuel mix statute ([19.29A RCW](#)). 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 prior law had required that Commerce assign fuel shares to this power. Instead, unknown sources are now listed as a separate category.
- The law made other changes that are less obvious but important to the integrity of utility power source disclosures. Utilities are required to include known sources of electricity generation, and utilities are not allowed to make renewable energy claims if they have transferred or sold the renewable energy certificates associated with that electricity.

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 July 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 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 developed a 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 U.S. 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 labeled as unspecified.
- “BPA claims” includes only the portion of delivered BPA power that can be attributed to specific plants.

Washington electric utilities: 2020 graphs and tables

Washington 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 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 for 2019. Hydropower, at 54.77%, is the largest primary fuel used to produce electricity in the state. Natural gas is the second largest category at 12.94%, followed by unspecified power (fuel source information is not known) and coal at 11.30% and 10.18% respectively. Table 1 lists the electricity fuel sources by megawatt-hours (MWh) and percent.

Figure 1: Washington electric utilities aggregate 2020 fuel mix (percent)

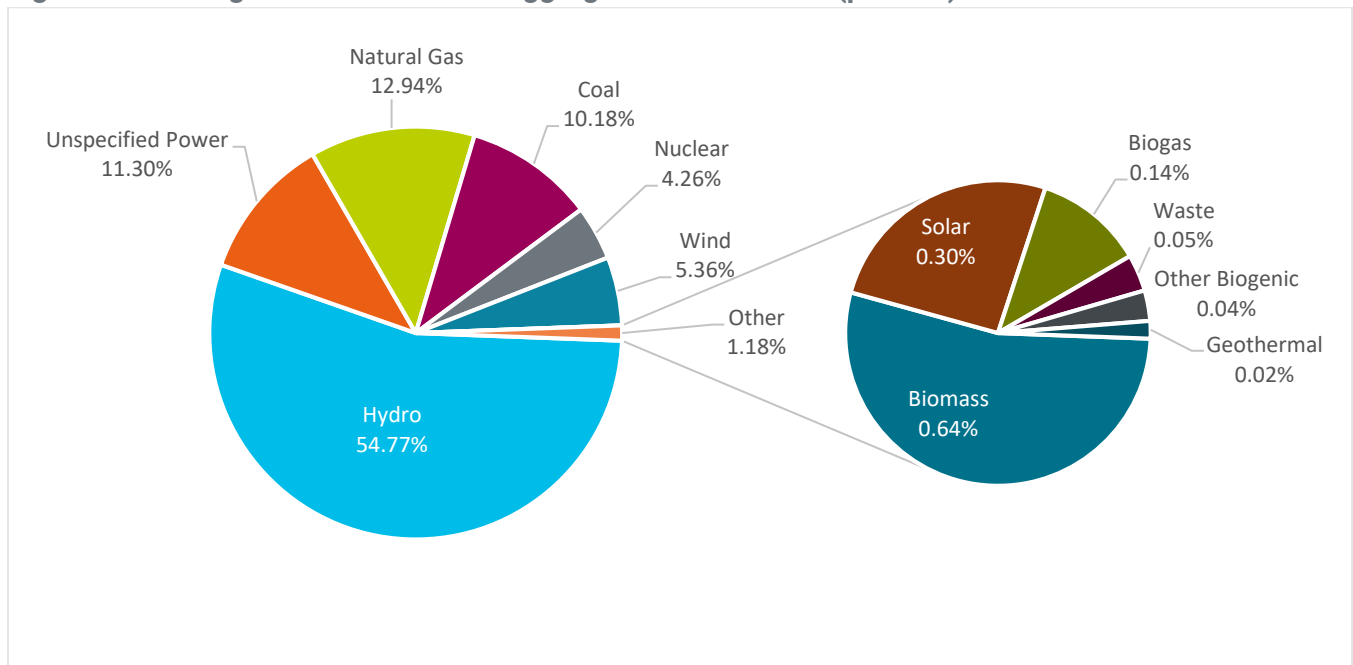
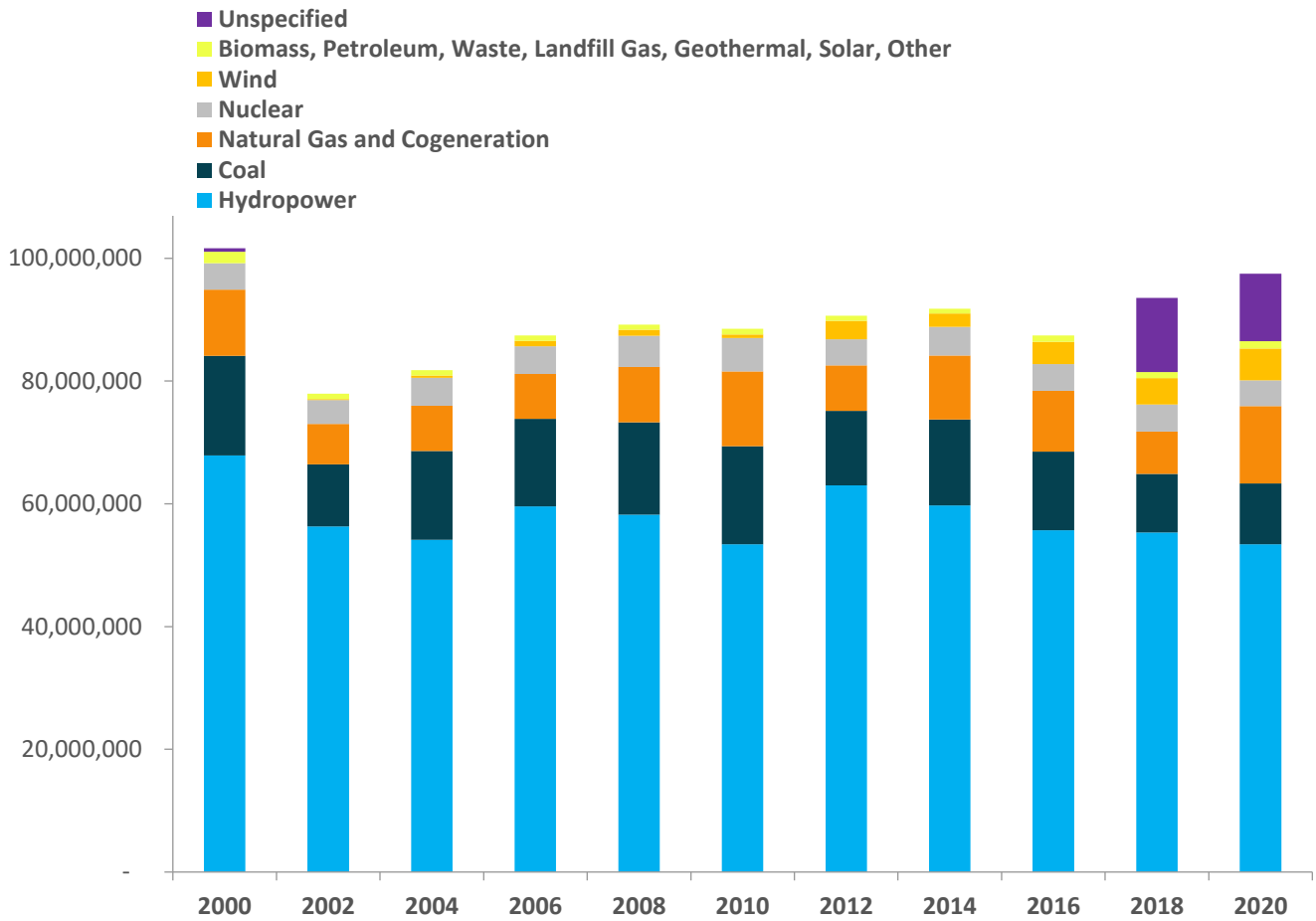


Table 1: Washington electric utilities: Aggregate fuel mix 2020

Fuel type	Total electric power MWh	Share of total
Hydro	53,400,859	54.77%
Natural gas	12,617,521	12.94%
Unspecified power	11,015,647	11.30%
Coal	9,923,208	10.18%
Wind	5,227,038	5.36%
Nuclear	4,155,396	4.26%
Biomass	619,827	0.64%
Solar	297,147	0.30%
Biogas	133,530	0.14%
Waste	44,998	0.05%
Other biogenic	37,253	0.04%
Geothermal	21,528	0.02%

Figure 2: Washington state electric utilities: Aggregate fuel mix time series 2000-2020 (MWh)¹



¹ As described above, the method of reporting claims on unspecified sources changed in 2018. Before 2018, the fuel mix law required that Commerce assign a fuel mix to unspecified sources based on regional data.

Table 2: Washington electric utilities: Aggregate fuel mix time series 2002-2020 (MWh)

Fuel Source	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
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	66,847,397
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	12,900,636
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	1,319,055
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	5,684,223
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	2,390,245
Biomass	392,378	434,700	536,643	587,085	392,712	460,983	415,226	445,076	492,371	446,890
Petroleum	22,244	34,957	53,046	44,233	62,232	69,267	69,937	94,360	81,372	68,539
Waste	23,471	139,056	102,864	150,955	331,963	288,528	276,669	296,180	332,719	336,948
Geothermal	-	-	-	-	14,399	11,189	16,866	19,237	17,376	18,107
Landfill Gas	220,705	75,125	134,122	80,500	57,858	49,041	23,043	16,058	18,787	49,209
Wind	163,134	320,540	346,470	432,667	867,392	545,622	1,010,928	587,994	567,281	1,017,702
Other	233,995	6,991	37,379	31,156	10,863	12,923	19,391	28,650	28,504	27,307
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	91,106,257

Fuel Source	2012	2013	2014	2015	2016	2017	2018	2019	2020
Hydropower	62,984,536	58,074,493	59,723,805	55,306,859	55,948,538	63,644,891	55,340,207	50,754,566	53,400,859
Coal	12,149,258	13,519,852	14,026,540	14,388,993	12,338,072	12,593,438	9,556,048	10,069,295	9,923,208
Cogeneration	486,609	1,126,515	926,691						
Natural Gas	6,952,877	10,823,275	9,515,792	11,807,835	10,055,032	10,181,880	6,861,147	10,877,913	12,617,521
Nuclear	4,239,398	4,247,504	4,617,391	4,021,955	4,307,607	3,941,745	4,441,378	4,637,654	4,155,396
Biomass	310,812	260,972	300,416	401,408	684,569	562,311	417,963	440,016	619,827
Petroleum	67,580	64,611	59,674	47,108	65,498	103,244	15,854	13,089	0
Waste	303,066	221,914	203,960	158,887	113,732	172,753	35,627	38,334	44,998
Geothermal	17,003	16,138	17,911	16,085		0	3,540	3,660	21,528
Landfill Gas	83,665	60,741	104,431	133,132	148,177	121,566	184,859	182,344	133,530
Wind	3,011,137	2,859,415	2,219,613	2,029,032	3,661,267	2,674,081	4,288,021	4,144,546	5,227,038
Other	36,396	39,528	59,964		48,095	36,678	42,931	35,950	37,253
Solar	1,433	1,709	6,618	8,807	3,491	3,071	263,695	273,906	297,147
Unspecified							12,095,395	12,339,325	11,015,647
Total	90,643,771	91,316,669	91,782,808	88,320,101	87,374,078	94,035,658	93,548,683	93,810,599	97,493,952

Commerce uses the fuel mix data to estimate aggregate carbon dioxide emissions from electricity consumed by Washington customers. This information is used by the Department of Ecology in its statewide inventory of greenhouse gases. Table 3 presents the statewide electric consumption emissions for 2020 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's electric sector carbon dioxide emissions. Figure 4 illustrates the aggregate state carbon dioxide for the electric sector for 2005-2020.

Table 3: 2020 Washington utility aggregate CO2 emissions by fuel type

Fuel type	Short tons	Metric tons
Coal	9,893,228	8,974,988
Natural gas	5,353,115	4,856,265
Other biogenic/non-biogenic	163,630	148,442
Waste	127,424	115,597
Landfill gas	75,717	68,689
Petroleum	11,204	10,164
Total	15,624,317	14,174,146

Other emissions	Short tons	Metric Tons
Sulfur dioxide	27,356	24,817
Nitrogen oxides	23,886	21,669
Mercury (not measured in tons)	235 pounds	106 kilograms

Figure 3: 2020 Washington utility aggregate CO2 emissions by fuel type

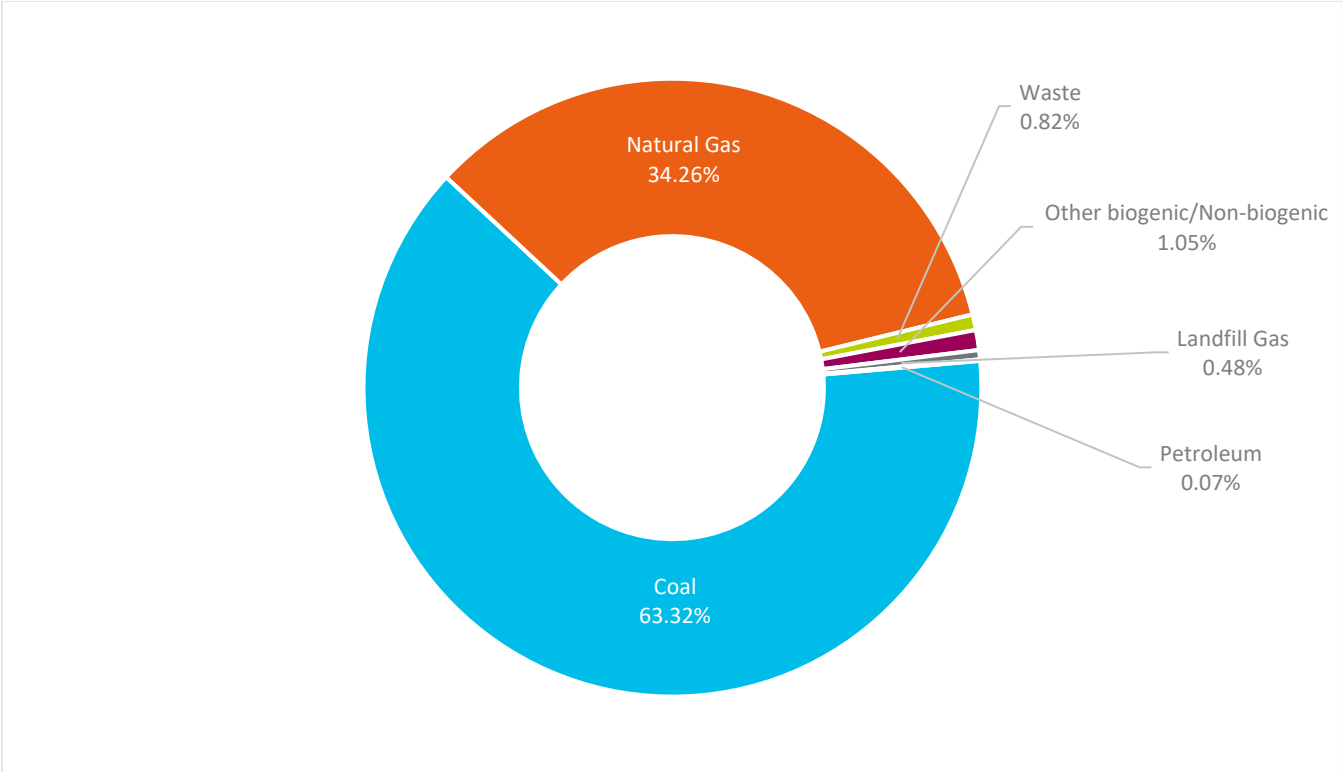
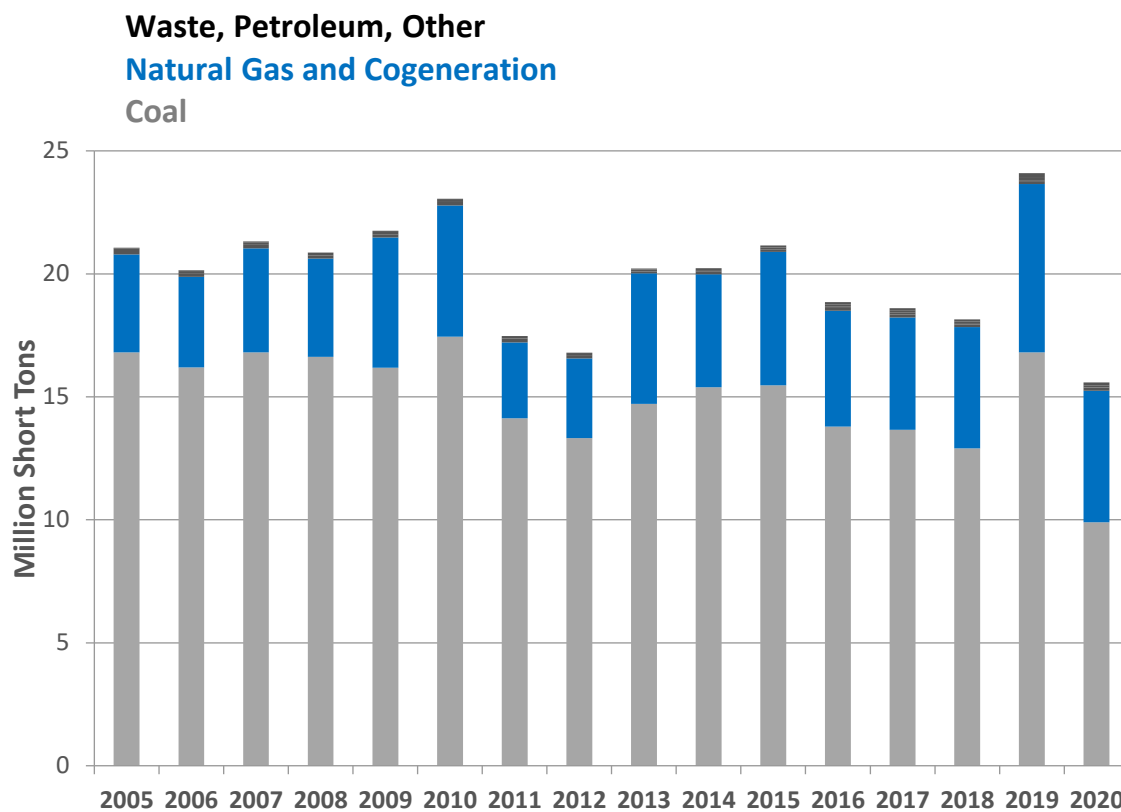


Figure 4: 2005-2020 Washington aggregate CO2 emissions by fuel type



Northwest Power Pool Fuel Mix

The Northwest Power Pool Fuel Mix for 2020 is presented in Figure 5 and Table 4 below. The Northwest Power Pool includes electric utilities in Washington, Oregon, and Idaho and parts of Montana, Nevada, Utah, and California. Hydropower has the largest share of generation at 43.96%, followed by coal and natural gas fired generation at 21.62% and 17.74% respectively.

Figure 5: Northwest Power Pool Generation 2020

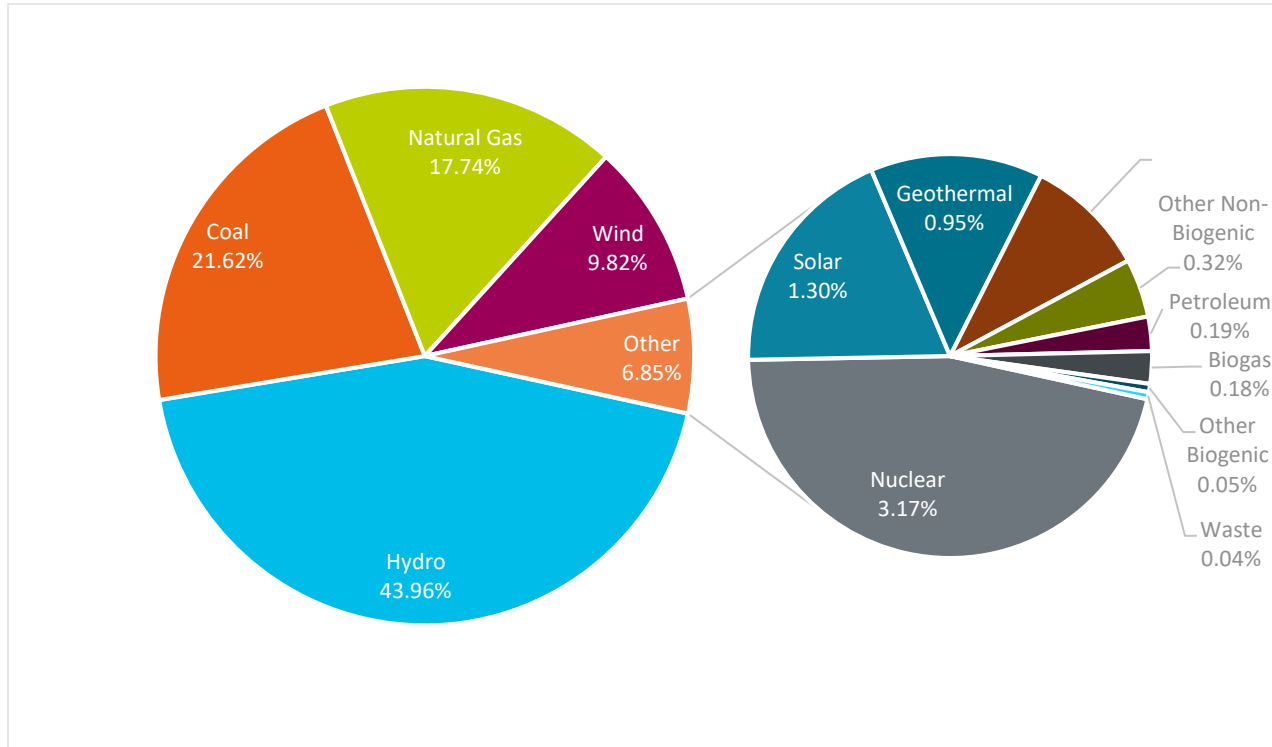


Table 4: 2020 Northwest Power Pool generation by fuel category²

Fuel category	Net generation MWh	Fuel category share
Hydro	130,648,899	43.95%
Coal	64,262,030	21.62%
Natural gas	52,716,707	17.74%
Wind	29,198,758	9.82%
Nuclear	9,427,050	3.17%
Geothermal	2,814,906	0.95%
Waste	113,206	0.04%
Other biogenic	135,503	0.05%
Petroleum	560,602	0.19%
Biogas	529,928	0.18%
Solar	3,855,722	1.30%
Other non-biogenic	954,061	0.32%
Biomass	1,981,268	0.67%
Total	297,198,640	100.00%

² Net power plant generation is used in the Washington fuel mix disclosure process. Some entities report power as gross generation, which does not include power plant parasitic losses.

Table 5 illustrates carbon dioxide emissions associated with electric power generation in the Northwest Power Pool in 2020. Coal fired electricity generation is the primary source of emissions.

Table 5: 2020 Northwest Power Pool estimated CO2 emissions by fuel type

Fuel type	CO2 emissions: Short tons	CO2 emissions: Metric tons
Coal	81,484,254	73,914,729
Natural gas	24,671,419	22,374,017
Petroleum	723,177	656,259
Other	1,122,251	1,018,221
Total	108,001,100	97,963,227

Table 6 illustrates the Northwest Power Pool Net System Mix for 2020. The Net System Mix, also known as the residual 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 52.08%, followed by coal and natural gas fired generation at 22.48% and 19.52% respectively. Commerce no longer uses the residual mix in estimating Washington utility fuel mix but presents the information for other potential uses.

Table 6: Northwest Power Pool net system fuel mix 2020

Fuel type	Net generation, MWh	Fuel category share	Imputed NSM emissions, short tons
Hydro	43,489,456	52.08%	
Coal	18,776,504	22.48%	23,805,176
Natural gas	16,302,126	19.52%	7,626,408
Nuclear	2,960,311	3.54%	
Biomass	1,019,033	1.22%	
Other non-biogenic	939,091	1.12%	967,335
Waste	17,980	0.02%	10,245
Petroleum	2,817	0.00%	3,635
Total	83,507,318	100.00%	32,412,799

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	84.69 %	4,616
Natural Gas	0.00 %	0
Nuclear	10.92 %	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	4.39 %	239
Total	100.00 %	5,450

BPA Claims

Fuel	MWh
Hydro	4,616
Nuclear	595
SubTotal	5,211
BPA Unspecified Purchase	239
BPA Total	5,450

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	84.69 %	3,822
Natural Gas	0.00 %	0
Nuclear	10.92 %	493
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	4.39 %	198
Total	100.00 %	4,513

BPA Claims

Fuel	MWh
Hydro	3,822
Nuclear	493
SubTotal	4,315
BPA Unspecified Purchase	197
BPA Total	4,512

Avista (WA)

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	5.21 %	302,861
Coal	13.01 %	756,088
Geothermal	0.00 %	0
Hydro	33.87 %	1,968,825
Natural Gas	39.98 %	2,324,914
Nuclear	0.00 %	0
Other Biogenic	0.60 %	34,971
Other Non-Biogenic	0.00 %	0
Petroleum	0.01 %	871
Solar	0.00 %	0
Unknown	0.00 %	0
Waste	0.74 %	42,741
Wind	1.65 %	95,946
Unspecified	4.93 %	286,393
Total	100.00 %	5,813,610

Utility Unspecified Purchases

Type	MWh
Unspecified Purchase	286,392
Total	286,392

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Boulder Park	Natural Gas	29,861	29,861
Cabinet Gorge	Water	236,205	236,205
Clearwater Paper IPP Lewiston	Black Liquor	170,795	
	Wood/Wood Waste Solids	47,372	
	Distillate Fuel Oil	0	
	Natural Gas	46,672	
	Residual Fuel Oil	0	264,840
Colstrip	Subbituminous Coal	756,088	
	Distillate Fuel Oil	822	
	Waste/Other Oil	49	
	Gaseous Propane	0	756,959
Coyote Springs II	Natural Gas	1,096,276	1,096,276
Kettle Falls Generating Station	Natural Gas	352	
	Wood/Wood Waste Solids	62,038	62,390
Little Falls (WA)	Water	131,834	131,834
Long Lake	Water	311,808	311,808
Meyers Falls	Water	7,164	7,164
Monroe Street	Water	19,576	19,576
Nine Mile	Water	27,780	27,780
Northeast (WA)	Natural Gas	413	413
Noxon Rapids	Water	376,073	376,073
Palouse	Wind	87,193	87,193
Plummer Cogen	Wood/Wood Waste Solids	22,655	22,655
Post Falls	Water	18,141	18,141
Priest Rapids	Water	218,204	218,204

Rathdrum	Natural Gas	106,085	106,085
Rathdrum Power LLC	Natural Gas	1,045,255	1,045,255
Rattlesnake	Wind	8,753	8,753
Rocky Reach	Water	260,524	260,524
Sheep Creek Hydro	Water	5,395	5,395
Spokane Waste to Energy	Non-biogenic Municipal Solid Waste	42,741	
	Biogenic Municipal Solid Waste	34,971	77,712
Upper Falls	Water	13,696	13,696
Upriver Dam Hydro Plant	Water	31,761	31,761
Wells	Water	310,664	310,664
Total		5,527,216	5,527,217

Benton 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	77.88 %	1,403,185
Natural Gas	0.00 %	0
Nuclear	9.94 %	179,185
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	8.18 %	147,426
Unspecified	4.00 %	72,061
Total	100.00 %	1,801,857

BPA Claims

Fuel	MWh
Hydro	1,389,416
Nuclear	179,185
SubTotal	1,568,601
BPA Unspecified Purchase	72,061
BPA Total	1,640,662

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Bonneville	Water	709	709
Cold Springs Windfarm	Wind	990	990
Condon Windpower LLC	Wind	5,031	5,031
Desert Meadow Windfarm	Wind	1,132	1,132
FPL Energy Vansycle LLC (WA)	Wind	4,584	4,584
Hammett Hill Windfarm	Wind	1,039	1,039
Klondike Wind Power	Wind	2,796	2,796
Klondike Windpower III	Wind	23,949	23,949
Mainline Windfarm	Wind	1,089	1,089
Nine Canyon	Wind	39,604	39,604
Packwood	Water	13,060	13,060
Ryegrass Windfarm	Wind	1,022	1,022
Two Ponds Windfarm	Wind	1,093	1,093
White Creek Wind Farm	Wind	22,277	22,277
Wolverine Creek	Wind	5,000	5,000
Yahoo Creek	Wind	37,820	37,820
Total		161,195	161,195

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	84.69 %	452,998
Natural Gas	0.00 %	0
Nuclear	10.92 %	58,420
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	4.39 %	23,494
Total	100.00 %	534,912

BPA Claims

Fuel	MWh
Hydro	452,998
Nuclear	58,420
SubTotal	511,418
BPA Unspecified Purchase	23,495
BPA Total	534,913

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	79.44 %	479,324
Natural Gas	0.00 %	0
Nuclear	10.25 %	61,815
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	10.31 %	62,205
Total	100.00 %	603,344

BPA Claims

Fuel	MWh
Hydro	479,324
Nuclear	61,815
SubTotal	541,139
BPA Unspecified Purchase	24,859
BPA Total	565,998

Utility Unspecified Purchases

Type	MWh
Unspecified Purchase	37,344
Total	37,344

Centralia City Light

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	0.00 %	0
Coal	14.06 %	37,303
Geothermal	0.00 %	0
Hydro	75.07 %	199,125
Natural Gas	0.00 %	0
Nuclear	7.74 %	20,523
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.02 %	42
Solar	0.00 %	0
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	3.11 %	8,254
Total	100.00 %	265,247

BPA Claims

Fuel	MWh
Hydro	159,139
Nuclear	20,523
SubTotal	179,662
BPA Unspecified Purchase	8,254
BPA Total	187,916

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Transalta Centralia Generation	Refined Coal	37,294	
	Waste/Other Coal	8	
	Subbituminous Coal	0	
	Distillate Fuel Oil	42	37,345
Yelm	Water	39,986	39,986
Total		77,330	77,331

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	99.98 %	1,663,395
Natural Gas	0.00 %	0
Nuclear	0.00 %	0
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	24
Solar	0.00 %	0
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	0.02 %	327
Unspecified	0.00 %	0
Total	100.00 %	1,663,746

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Chelan	Water	377,119	377,119
Nine Canyon	Wind	327	327
Rock Island	Water	139,054	139,054
Rocky Reach	Water	1,146,131	1,146,131
Stehekin Diesel	Distillate Fuel Oil	24	24
Stehekin Hydro	Water	1,091	1,091
Total		1,663,746	1,663,746

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	79.44 %	112,151
Natural Gas	0.00 %	0
Nuclear	10.24 %	14,463
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	10.32 %	14,577
Total	100.00 %	141,191

BPA Claims

Fuel	MWh
Hydro	112,151
Nuclear	14,463
SubTotal	126,614
BPA Unspecified Purchase	5,816
BPA Total	132,430

Utility Unspecified Purchases

Type	MWh
Unspecified Purchase	8,761
Total	8,761

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	84.69 %	17,640
Natural Gas	0.00 %	0
Nuclear	10.92 %	2,275
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	4.39 %	915
Total	100.00 %	20,830

BPA Claims

Fuel	MWh
Hydro	17,640
Nuclear	2,275
SubTotal	19,915
BPA Unspecified Purchase	915
BPA Total	20,830

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	84.69 %	68,150
Natural Gas	0.00 %	0
Nuclear	10.92 %	8,789
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	4.39 %	3,535
Total	100.00 %	80,474

BPA Claims

Fuel	MWh
Hydro	68,150
Nuclear	8,789
SubTotal	76,939
BPA Unspecified Purchase	3,535
BPA Total	80,474

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	84.90 %	574,455
Natural Gas	0.00 %	0
Nuclear	10.77 %	72,850
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	4.33 %	29,298
Total	100.00 %	676,603

BPA Claims

Fuel	MWh
Hydro	564,890
Nuclear	72,850
SubTotal	637,740
BPA Unspecified Purchase	29,298
BPA Total	667,038

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Packwood	Water	9,565	9,565
Total		9,565	9,565

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	50.94 %	2,355,224
Natural Gas	29.87 %	1,381,142
Nuclear	6.52 %	301,574
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	3.05 %	140,908
Unspecified	9.62 %	444,855
Total	100.00 %	4,623,703

BPA Claims

Fuel	MWh
Hydro	2,338,438
Nuclear	301,574
SubTotal	2,640,012
BPA Unspecified Purchase	121,280
BPA Total	2,761,292

Utility Unspecified Purchases

Type	MWh
Unspecified Purchase	323,575
Total	323,575

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
BPA--Dedicated Resource Type Sales	Unknown		60,273
Eurus Combine Hills Turbine Ranch 2	Wind	140,908	140,908
Packwood	Water	16,786	16,786
River Road Gen Plant	Natural Gas	1,381,142	1,381,142
Total		1,538,836	1,599,109

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	84.66 %	18,639
Natural Gas	0.00 %	0
Nuclear	10.92 %	2,404
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	4.42 %	972
Total	100.00 %	22,015

BPA Claims

Fuel	MWh
Hydro	18,639
Nuclear	2,404
SubTotal	21,043
BPA Unspecified Purchase	965
BPA Total	22,008

Utility Unspecified Purchases

Type	MWh
Unspecified Purchase	5
Total	5

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	77.25 %	290,733
Natural Gas	0.00 %	0
Nuclear	9.96 %	37,494
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	12.79 %	48,140
Total	100.00 %	376,367

BPA Claims

Fuel	MWh
Hydro	290,733
Nuclear	37,494
SubTotal	328,227
BPA Unspecified Purchase	15,079
BPA Total	343,306

Utility Unspecified Purchases

Type	MWh
Unspecified Purchase	33,063
Total	33,063

Consolidated Irrigation District #19

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 %	2,087
Natural Gas	0.00 %	0
Nuclear	10.92 %	269
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	4.39 %	108
Total	100.00 %	2,464

BPA Claims

Fuel	MWh
Hydro	2,087
Nuclear	269
SubTotal	2,356
BPA Unspecified Purchase	109
BPA Total	2,465

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	84.69 %	14,392
Natural Gas	0.00 %	0
Nuclear	10.92 %	1,856
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	4.39 %	746
Total	100.00 %	16,994

BPA Claims

Fuel	MWh
Hydro	14,392
Nuclear	1,856
SubTotal	16,248
BPA Unspecified Purchase	746
BPA Total	16,994

Cowlitz County PUD #1

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	1.54 %	67,647
Coal	0.06 %	2,622
Geothermal	0.00 %	0
Hydro	71.69 %	3,156,681
Natural Gas	0.38 %	16,590
Nuclear	8.80 %	387,284
Other Biogenic	0.03 %	1,151
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	127
Solar	0.01 %	558
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	7.91 %	348,336
Unspecified	9.58 %	421,995
Total	100.00 %	4,402,991

BPA Claims

Fuel	MWh
Hydro	3,003,040
Nuclear	387,284
SubTotal	3,390,324
BPA Unspecified Purchase	155,752
BPA Total	3,546,076

Utility Unspecified Purchases

Type	MWh
Unspecified Purchase	266,243
Total	266,243

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
American Falls Solar	Solar	558	558
Cold Springs Windfarm	Wind	8,933	8,933
Condon Windpower LLC	Wind	6,274	6,274
Desert Meadow Windfarm	Wind	8,934	8,934
FPL Energy Vansycle LLC (WA)	Wind	10,855	10,855
Hammitt Hill Windfarm	Wind	8,933	8,933
Harvest Wind Project	Wind	108,594	108,594
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	Natural Gas	11,427	
	Wood/Wood Waste Solids	10,572	
	Black Liquor	37,437	59,436
Mainline Windfarm	Wind	8,934	8,934
Nine Canyon	Wind	16,633	16,633
Nippon Dynawave Packaging Longview WA	Wood/Wood Waste Solids	4,883	
	Distillate Fuel Oil	5	
	Residual Fuel Oil	122	
	Subbituminous Coal	2,622	
	Natural Gas	5,163	
	Black Liquor	14,756	
	Sludge Waste	1,151	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	5,888	5,888
Ryegrass Windfarm	Wind	8,933	8,933
Swift 2	Water	141,870	141,870
Two Ponds Windfarm	Wind	8,934	8,934
Wanapum	Water	5,883	5,883
Total		590,673	590,672

Douglas County PUD #1

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	0.00 %	0
Coal	0.07 %	656
Geothermal	0.00 %	0
Hydro	73.47 %	741,599
Natural Gas	0.53 %	5,337
Nuclear	0.00 %	0
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	1
Solar	0.03 %	292
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	25.90 %	261,402
Total	100.00 %	1,009,287

Utility Unspecified Purchases

Type	MWh
Unspecified Purchase	261,401
Total	261,401

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Boardman	Subbituminous Coal	656	
	Distillate Fuel Oil	1	657
Distributed Generation--Hydro (OR)	Water	111,224	111,224
Distributed Generation--Natural Gas (OR)	Natural Gas	5,337	5,337
Distributed Generation--Solar (OR)	Solar	292	292
Distributed Generation--Wind (OR)	Wind	292	292
Rocky Reach	Water	298,989	298,989
Wells	Water	442,610	442,610
Total		859,401	859,401

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	84.69 %	23,494
Natural Gas	0.00 %	0
Nuclear	10.92 %	3,030
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	4.39 %	1,219
Total	100.00 %	27,743

BPA Claims

Fuel	MWh
Hydro	23,494
Nuclear	3,030
SubTotal	26,524
BPA Unspecified Purchase	1,220
BPA Total	27,744

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	84.69 %	170,796
Natural Gas	0.00 %	0
Nuclear	10.92 %	22,027
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	4.39 %	8,858
Total	100.00 %	201,681

BPA Claims

Fuel	MWh
Hydro	170,796
Nuclear	22,027
SubTotal	192,823
BPA Unspecified Purchase	8,858
BPA Total	201,681

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	84.69 %	238,201
Natural Gas	0.00 %	0
Nuclear	10.92 %	30,719
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	4.39 %	12,354
Total	100.00 %	281,274

BPA Claims

Fuel	MWh
Hydro	238,201
Nuclear	30,719
SubTotal	268,920
BPA Unspecified Purchase	12,354
BPA Total	281,274

Energy Northwest

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 %	20,276
Natural Gas	0.00 %	0
Nuclear	10.92 %	2,615
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	4.39 %	1,052
Total	100.00 %	23,943

BPA Claims

Fuel	MWh
Hydro	20,276
Nuclear	2,615
SubTotal	22,891
BPA Unspecified Purchase	1,051
BPA Total	23,942

Fairchild Airforce Base

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 %	37,262
Natural Gas	0.00 %	0
Nuclear	10.92 %	4,806
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	4.39 %	1,933
Total	100.00 %	44,001

BPA Claims

Fuel	MWh
Hydro	37,262
Nuclear	4,806
SubTotal	42,068
BPA Unspecified Purchase	1,933
BPA Total	44,001

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	84.69 %	59,888
Natural Gas	0.00 %	0
Nuclear	10.92 %	7,723
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	4.39 %	3,106
Total	100.00 %	70,717

BPA Claims

Fuel	MWh
Hydro	59,888
Nuclear	7,723
SubTotal	67,611
BPA Unspecified Purchase	3,106
BPA Total	70,717

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	82.66 %	893,085
Natural Gas	0.00 %	0
Nuclear	10.50 %	113,472
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	6.84 %	73,860
Total	100.00 %	1,080,417

BPA Claims

Fuel	MWh
Hydro	879,876
Nuclear	113,472
SubTotal	993,348
BPA Unspecified Purchase	45,633
BPA Total	1,038,981

Utility Unspecified Purchases

Type	MWh
Unspecified Purchase	28,227
Total	28,227

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Distributed Generation--Hydro (WA)	Water	3,436	3,436
Packwood	Water	9,773	9,773
Total		13,209	13,209

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	22.42 %	1,172,023
Natural Gas	0.00 %	0
Nuclear	0.10 %	5,371
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	0.64 %	33,610
Unspecified	76.84 %	4,016,059
Total	100.00 %	5,227,063

BPA Claims

Fuel	MWh
Hydro	41,647
Nuclear	5,371
SubTotal	47,018
BPA Unspecified Purchase	2,160
BPA Total	49,178

Utility Unspecified Purchases

Type	MWh
Unspecified Purchase	4,013,898
Total	4,013,898

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Nine Canyon	Wind	33,610	33,610
PEC Headworks	Water	18,191	18,191
Priest Rapids	Water	521,831	521,831
Quincy Chute	Water	31,584	31,584
Wanapum	Water	558,770	558,770
Total		1,163,986	1,163,986

Grays Harbor County PUD #1

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	0.89 %	8,040
Coal	0.00 %	0
Geothermal	0.00 %	0
Hydro	83.94 %	755,205
Natural Gas	0.00 %	0
Nuclear	10.82 %	97,394
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	4.35 %	39,168
Total	100.00 %	899,807

BPA Claims

Fuel	MWh
Hydro	755,205
Nuclear	97,394
SubTotal	852,599
BPA Unspecified Purchase	39,168
BPA Total	891,767

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Sierra Pacific Aberdeen	Wood/Wood Waste Solids	8,040	8,040
Total		8,040	8,040

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	80.60 %	843,076
Natural Gas	0.00 %	0
Nuclear	10.39 %	108,726
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	9.01 %	94,274
Total	100.00 %	1,046,076

BPA Claims

Fuel	MWh
Hydro	843,076
Nuclear	108,726
SubTotal	951,802
BPA Unspecified Purchase	43,726
BPA Total	995,528

Utility Unspecified Purchases

Type	MWh
Unspecified Purchase	50,547
Total	50,547

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	84.69 %	334,525
Natural Gas	0.00 %	0
Nuclear	10.92 %	43,142
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	4.39 %	17,350
Total	100.00 %	395,017

BPA Claims

Fuel	MWh
Hydro	334,525
Nuclear	43,142
SubTotal	377,667
BPA Unspecified Purchase	17,348
BPA Total	395,015

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	84.69 %	23,497
Natural Gas	0.00 %	0
Nuclear	10.92 %	3,030
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	4.39 %	1,219
Total	100.00 %	27,746

BPA Claims

Fuel	MWh
Hydro	23,497
Nuclear	3,030
SubTotal	26,527
BPA Unspecified Purchase	1,220
BPA Total	27,747

Kittitas 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	84.55 %	94,855
Natural Gas	0.00 %	0
Nuclear	10.90 %	12,233
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	4.55 %	5,105
Total	100.00 %	112,193

BPA Claims

Fuel	MWh
Hydro	94,855
Nuclear	12,233
SubTotal	107,088
BPA Unspecified Purchase	4,919
BPA Total	112,007

Utility Unspecified Purchases

Type	MWh
Unspecified Purchase	185
Total	185

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	75.26 %	376,883
Natural Gas	0.00 %	0
Nuclear	8.57 %	42,921
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	16.17 %	80,958
Total	100.00 %	500,762

BPA Claims

Fuel	MWh
Hydro	332,816
Nuclear	42,921
SubTotal	375,737
BPA Unspecified Purchase	17,260
BPA Total	392,997

Utility Unspecified Purchases

Type	MWh
Unspecified Purchase	63,697
Total	63,697

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
McNary Dam Fish Attraction Project	Water	41,280	41,280
Packwood	Water	2,787	2,787
Total		44,067	44,067

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	84.69 %	218,245
Natural Gas	0.00 %	0
Nuclear	10.92 %	28,146
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	4.39 %	11,319
Total	100.00 %	257,710

BPA Claims

Fuel	MWh
Hydro	218,245
Nuclear	28,146
SubTotal	246,391
BPA Unspecified Purchase	11,319
BPA Total	257,710

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	79.37 %	748,174
Natural Gas	0.00 %	0
Nuclear	10.18 %	95,975
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	6.36 %	59,989
Unspecified	4.09 %	38,597
Total	100.00 %	942,735

BPA Claims

Fuel	MWh
Hydro	744,198
Nuclear	95,975
SubTotal	840,173
BPA Unspecified Purchase	38,598
BPA Total	878,771

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Burton Creek Hydro	Water	1,618	1,618
Fossil Gulch	Wind	12,551	12,551
Klondike Windpower III	Wind	1,260	1,260
Mill Creek	Water	760	760
Nine Canyon	Wind	46,178	46,178
Packwood	Water	1,598	1,598
Total		63,965	63,965

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	85.70 %	67,503
Natural Gas	0.00 %	0
Nuclear	10.20 %	8,038
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	4.10 %	3,232
Total	100.00 %	78,773

BPA Claims

Fuel	MWh
Hydro	62,326
Nuclear	8,038
SubTotal	70,364
BPA Unspecified Purchase	3,233
BPA Total	73,597

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Lilliwaup Falls Generating	Water	4,750	4,750
Rocky Brook Hydroelectric	Water	427	427
Total		5,177	5,177

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	82.61 %	573,771
Natural Gas	0.00 %	0
Nuclear	10.47 %	72,761
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.03 %	210
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	2.68 %	18,628
Unspecified	4.21 %	29,262
Total	100.00 %	694,632

BPA Claims

Fuel	MWh
Hydro	564,196
Nuclear	72,761
SubTotal	636,957
BPA Unspecified Purchase	29,262
BPA Total	666,219

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Condon Windpower LLC	Wind	8	8
Distributed Generation--Solar (WA)	Solar	210	210
Nine Canyon	Wind	8,419	8,419
Packwood	Water	9,575	9,575
White Creek Wind Farm	Wind	10,201	10,201
Total		28,413	28,413

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	84.69 %	26,063
Natural Gas	0.00 %	0
Nuclear	10.92 %	3,361
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	4.39 %	1,352
Total	100.00 %	30,776

BPA Claims

Fuel	MWh
Hydro	26,063
Nuclear	3,361
SubTotal	29,424
BPA Unspecified Purchase	1,351
BPA Total	30,775

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	84.69 %	48,057
Natural Gas	0.00 %	0
Nuclear	10.92 %	6,198
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	4.39 %	2,492
Total	100.00 %	56,747

BPA Claims

Fuel	MWh
Hydro	48,057
Nuclear	6,198
SubTotal	54,255
BPA Unspecified Purchase	2,493
BPA Total	56,748

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	84.69 %	197,048
Natural Gas	0.00 %	0
Nuclear	10.92 %	25,412
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	4.39 %	10,220
Total	100.00 %	232,680

BPA Claims

Fuel	MWh
Hydro	197,048
Nuclear	25,412
SubTotal	222,460
BPA Unspecified Purchase	10,219
BPA Total	232,679

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	84.69 %	55,609
Natural Gas	0.00 %	0
Nuclear	10.92 %	7,172
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	4.39 %	2,884
Total	100.00 %	65,665

BPA Claims

Fuel	MWh
Hydro	55,609
Nuclear	7,172
SubTotal	62,781
BPA Unspecified Purchase	2,884
BPA Total	65,665

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	84.69 %	104
Natural Gas	0.00 %	0
Nuclear	10.92 %	13
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	4.39 %	5
Total	100.00 %	122

BPA Claims

Fuel	MWh
Hydro	104
Nuclear	13
SubTotal	117
BPA Unspecified Purchase	5
BPA Total	122

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Lake Creek	Water	8	8
Total		8	8

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	84.69 %	76,896
Natural Gas	0.00 %	0
Nuclear	10.92 %	9,917
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	4.39 %	3,988
Total	100.00 %	90,801

BPA Claims

Fuel	MWh
Hydro	76,896
Nuclear	9,917
SubTotal	86,813
BPA Unspecified Purchase	3,990
BPA Total	90,803

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	79.76 %	53,768
Natural Gas	0.00 %	0
Nuclear	10.29 %	6,934
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	9.95 %	6,711
Total	100.00 %	67,413

BPA Claims

Fuel	MWh
Hydro	53,768
Nuclear	6,934
SubTotal	60,702
BPA Unspecified Purchase	2,789
BPA Total	63,491

Utility Unspecified Purchases

Type	MWh
Unspecified Purchase	3,923
Total	3,923

Okanogan County PUD #1

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	0.00 %	0
Coal	0.02 %	113
Geothermal	0.00 %	0
Hydro	82.86 %	525,057
Natural Gas	0.15 %	920
Nuclear	6.91 %	43,783
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	3.48 %	22,034
Unspecified	6.58 %	41,724
Total	100.00 %	633,631

BPA Claims

Fuel	MWh
Hydro	339,494
Nuclear	43,783
SubTotal	383,277
BPA Unspecified Purchase	17,609
BPA Total	400,886

Utility Unspecified Purchases

Type	MWh
Unspecified Purchase	24,116
Total	24,116

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Boardman	Subbituminous Coal	113	
	Distillate Fuel Oil	0	113
Distributed Generation--Hydro (WA)	Water	19,168	19,168
Distributed Generation--Natural Gas (WA)	Natural Gas	920	920
Distributed Generation--Wind (WA)	Wind	101	101
Nine Canyon	Wind	21,933	21,933
Wells	Water	166,395	166,395
Total		208,630	208,630

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	84.69 %	190,465
Natural Gas	0.00 %	0
Nuclear	10.92 %	24,563
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	4.39 %	9,878
Total	100.00 %	224,906

BPA Claims

Fuel	MWh
Hydro	190,465
Nuclear	24,563
SubTotal	215,028
BPA Unspecified Purchase	9,878
BPA Total	224,906

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	80.33 %	249,175
Natural Gas	0.00 %	0
Nuclear	10.36 %	32,135
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	9.31 %	28,884
Total	100.00 %	310,194

BPA Claims

Fuel	MWh
Hydro	249,175
Nuclear	32,135
SubTotal	281,310
BPA Unspecified Purchase	12,923
BPA Total	294,233

Utility Unspecified Purchases

Type	MWh
Unspecified Purchase	15,961
Total	15,961

Pacific Power (WA)

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	0.00 %	0
Coal	36.00 %	1,604,372
Geothermal	0.00 %	0
Hydro	13.89 %	619,337
Natural Gas	18.17 %	809,860
Nuclear	0.25 %	11,329
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.02 %	957
Solar	0.00 %	0
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	6.52 %	290,848
Unspecified	25.15 %	1,121,090
Total	100.00 %	4,457,793

BPA Claims

Fuel	MWh
Hydro	87,846
Nuclear	11,329
SubTotal	99,175
BPA Unspecified Purchase	4,556
BPA Total	103,731

Utility Unspecified Purchases

Type	MWh
Unspecified Purchase	1,116,534
Total	1,116,534

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Bend	Water	69	69
Campbell Hill Windpower	Wind	25,346	25,346
Chehalis Generating Facility	Distillate Fuel Oil	0	
	Natural Gas	501,928	501,928
Clearwater 1	Water	5,133	5,133
Clearwater 2	Water	4,831	4,831
Colstrip	Subbituminous Coal	81,060	
	Distillate Fuel Oil	88	
	Waste/Other Oil	5	
	Gaseous Propane	0	81,153
Copco 1	Water	15,286	15,286
Copco 2	Water	18,852	18,852
Dunlap	Wind	31,363	31,363
Eagle Point	Water	3,483	3,483
Fall Creek	Water	1,810	1,810
Fish Creek	Water	4,527	4,527
Glenrock	Wind	30,212	30,212
Goodnoe Hills	Wind	26,561	26,561
Hermiston Generating Plant	Natural Gas	307,932	307,932
Iron Gate	Water	17,931	17,931
Jim Bridger	Subbituminous Coal	1,523,313	
	Distillate Fuel Oil	863	1,524,176
John C Boyle	Water	38,336	38,336
Leaning Juniper	Wind	25,711	25,711

Lemolo 1	Water	16,872	16,872
Lemolo 2	Water	20,665	20,665
Marengo Wind Plant	Wind	52,729	52,729
Merwin	Water	102,686	102,686
Prospect 1	Water	2,811	2,811
Prospect 2	Water	37,888	37,888
Prospect 3	Water	3,705	3,705
Prospect 4	Water	586	586
Rolling Hills	Wind	26,997	26,997
Seven Mile Hill	Wind	32,251	32,251
Slide Creek	Water	10,444	10,444
Soda Springs	Water	8,180	8,180
Swift 1	Water	89,043	89,043
Toketee Falls	Water	34,084	34,084
Top of the World Windpower Project	Wind	39,678	39,678
Wallowa Falls	Water	1,105	1,105
West Side	Electricity for Energy Storage	-11	-11
Yale	Water	93,164	93,164
Total		3,237,517	3,237,517

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	84.69 %	97,640
Natural Gas	0.00 %	0
Nuclear	10.92 %	12,592
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	4.39 %	5,064
Total	100.00 %	115,296

BPA Claims

Fuel	MWh
Hydro	97,640
Nuclear	12,592
SubTotal	110,232
BPA Unspecified Purchase	5,064
BPA Total	115,296

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	91.01 %	892,365
Natural Gas	0.00 %	0
Nuclear	1.42 %	13,920
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	7.57 %	74,274
Total	100.00 %	980,559

BPA Claims

Fuel	MWh
Hydro	107,939
Nuclear	13,920
SubTotal	121,859
BPA Unspecified Purchase	5,599
BPA Total	127,458

Utility Unspecified Purchases

Type	MWh
Unspecified Purchase	68,676
Total	68,676

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Boundary	Water	340,151	340,151
Box Canyon	Water	444,275	444,275
Total		784,426	784,426

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	75.16 %	519,161
Natural Gas	0.00 %	0
Nuclear	9.69 %	66,953
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	11.25 %	77,722
Unspecified	3.90 %	26,926
Total	100.00 %	690,762

BPA Claims

Fuel	MWh
Hydro	519,161
Nuclear	66,953
SubTotal	586,114
BPA Unspecified Purchase	26,925
BPA Total	613,039

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Bonneville	Water	0	0
Chief Joseph	Water	0	0
Cold Springs Windfarm	Wind	21,576	21,576
Condon Windpower LLC	Wind	5,664	5,664
Cougar	Water	0	0
Grand Coulee	Water	0	0
Harvest Wind Project	Wind	1,535	1,535
Hills Creek	Water	0	0
Horse Butte Wind I, LLC	Wind	15,635	15,635
Klondike Wind Power	Wind	458	458
Klondike Windpower III	Wind	1,212	1,212
Lookout Point	Water	0	0
Palisades Dam	Water	0	0
Vansycle II Wind Energy Center	Wind	31,642	31,642
Total		77,722	77,722

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	84.69 %	229,534
Natural Gas	0.00 %	0
Nuclear	10.92 %	29,602
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	4.39 %	11,905
Total	100.00 %	271,041

BPA Claims

Fuel	MWh
Hydro	229,534
Nuclear	29,602
SubTotal	259,136
BPA Unspecified Purchase	11,903
BPA Total	271,039

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	84.69 %	111,229
Natural Gas	0.00 %	0
Nuclear	10.92 %	14,344
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	4.39 %	5,769
Total	100.00 %	131,342

BPA Claims

Fuel	MWh
Hydro	111,229
Nuclear	14,344
SubTotal	125,573
BPA Unspecified Purchase	5,769
BPA Total	131,342

Puget Sound Energy

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.09 %	19,362
Biomass	0.01 %	2,087
Coal	22.96 %	4,984,651
Geothermal	0.02 %	3,500
Hydro	24.12 %	5,234,658
Natural Gas	27.04 %	5,869,992
Nuclear	0.19 %	40,693
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.04 %	9,430
Solar	0.95 %	206,950
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	10.51 %	2,282,111
Unspecified	14.07 %	3,053,442
Total	100.00 %	21,706,876

BPA Claims

Fuel	MWh
Hydro	315,539
Nuclear	40,693
SubTotal	356,232
BPA Unspecified Purchase	16,365
BPA Total	372,597

Utility Unspecified Purchases

Type	MWh
Unspecified Purchase	3,037,077
Total	3,037,077

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
3 Bar G Wind Turbine #3	Wind	80	80
American Falls Solar	Solar	7,796	7,796
American Falls Solar II	Solar	7,687	7,687
Black Creek	Water	11,913	11,913
Campbell Hill Windpower	Wind	12,726	12,726
Cassia Gulch	Wind	7,654	7,654
Cassia Wind	Wind	967	967
Cedar Creek Wind	Wind	10,000	10,000
Colstrip	Distillate Fuel Oil	2,094	
	Gaseous Propane	0	
	Waste/Other Oil	125	
	Subbituminous Coal	1,926,451	1,928,670
Crystal Mountain	Distillate Fuel Oil	490	490
Distributed Generation--Biomass (WA)	Wood/Wood Waste Solids	2,087	2,087
Distributed Generation--Solar (OR)	Solar	28,664	28,664
Distributed Generation--Solar (WA)	Solar	159	159
Double A Digester	Other Biomass Gas	1,599	1,599
Electron	Water	87,909	87,909
Encogen	Natural Gas	339,968	
	Distillate Fuel Oil	23	339,991
Escalante Solar I, LLC	Solar	25,000	25,000
Escalante Solar III, LLC	Solar	11,535	11,535
Farm Power Rexville	Other Biomass Gas	3,770	3,770

Ferndale Generating Station	Natural Gas	1,009,486	
	Distillate Fuel Oil	40	1,009,526
Finley Buttes Landfill Gas	Landfill Gas	3,500	3,500
First Up Knudson Wind Turbine	Wind	143	143
Frederickson	Natural Gas	26,890	
	Distillate Fuel Oil	95	26,985
Frederickson Power LP	Natural Gas	438,966	438,966
Fredonia	Distillate Fuel Oil	2,915	
	Natural Gas	176,140	179,055
Glenrock	Wind	1,500	1,500
Goldendale Generating Station	Natural Gas	1,850,118	1,850,118
Goodnoe Hills	Wind	30,200	30,200
Grand View Solar Two	Solar	11,469	11,469
Hopkins Ridge Wind	Wind	253,696	253,696
Horse Butte Wind I, LLC	Wind	16,379	16,379
Horseshoe Bend Wind Park	Wind	9,130	9,130
ID Solar	Solar	7,897	7,897
Iron Springs Solar, LLC	Solar	14,961	14,961
Juniper Canyon I Wind Project	Wind	28,546	28,546
Klondike Windpower III	Wind	53,421	53,421
Koma Kulshan Associates	Water	37,334	37,334
Leaning Juniper	Wind	24,800	24,800
Lower Baker	Water	361,440	361,440
Lower Snake River Wind Energy Project	Wind	713,072	713,072
LRI LFGTE Facility	Landfill Gas	5,000	5,000
Marengo Wind Plant	Wind	69,726	69,726
Meadow Creek Project Company	Wind	38,760	38,760
Mint Farm Generating Station	Natural Gas	1,586,428	1,586,428
Mt. Home Solar 1, LLC	Solar	4,962	4,962
Murphy Flat Solar	Solar	8,023	8,023
Neal Hot Springs Geothermal Project	Geothermal	250	250
Nine Canyon	Wind	18,937	18,937
Nooksack Hydro	Water	22,143	22,143
Orchard Ranch Solar	Solar	8,508	8,508
Pavant Solar II LLC	Solar	22,596	22,596
Priest Rapids	Water	209,971	209,971
Raft River Geothermal Power Plant	Geothermal	3,250	3,250
Rock Creek Dairy	Other Biomass Gas	1,901	1,901
Rock Island	Water	599,065	599,065
Rockland Wind Farm	Wind	50,743	50,743
Rocky Reach	Water	1,230,890	1,230,890
Selis Ksanka Qlispe	Water	269,458	269,458
Sheep Solar	Solar	1,572	1,572
Silverton Solar	Solar	1,490	1,490
Simcoe Solar	Solar	8,200	8,200
Skookumchuck	Water	4,106	4,106
Skookumchuck Wind Facility	Wind	23,253	23,253
Smith Creek (Whatcom County, WA)	Water	61	61
Snoqualmie	Water	48,152	48,152
Snoqualmie 2	Water	165,219	165,219
South Peak Wind	Wind	11,500	11,500

Spanish Fork Wind Park 2 LLC	Wind	2,190	2,190
Sumas Power Plant	Natural Gas	437,912	437,912
Swauk Wind LLC	Wind	11,454	11,454
Three Peaks Power	Solar	6,250	6,250
Top of the World Windpower Project	Wind	10,273	10,273
Transalta Centralia Generation	Refined Coal	3,057,515	
	Waste/Other Coal	685	
	Distillate Fuel Oil	3,460	
	Subbituminous Coal	0	3,061,660
Twin Falls Hydro	Water	81,378	81,378
Upper Baker	Water	332,223	332,223
Utah Red Hills Renewable Energy Park	Solar	30,073	30,073
Van Dyk -S Holsteins	Other Biomass Gas	111	111
Vanderhaak Dairy Digester	Other Biomass Gas	3,481	3,481
Wanapum	Water	205,707	205,707
Weeks Falls	Water	14,588	14,588
Wells	Water	1,237,562	1,237,562
Whitehorn	Distillate Fuel Oil	189	
	Natural Gas	4,083	4,272
Wild Horse	Wind	873,184	
	Solar	108	873,292
Wolverine Creek	Wind	10,000	10,000
Total		18,297,425	18,297,425

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	78.24 %	726,361
Natural Gas	0.00 %	0
Nuclear	10.09 %	93,674
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.04 %	399
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	11.63 %	107,944
Total	100.00 %	928,378

BPA Claims

Fuel	MWh
Hydro	726,361
Nuclear	93,674
SubTotal	820,035
BPA Unspecified Purchase	37,672
BPA Total	857,707

Utility Unspecified Purchases

Type	MWh
Unspecified Purchase	70,271
Total	70,271

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Horn Rapids Solar, Storage and Training	Solar	399	399
Total		399	399

Ruston, Town of

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	1.63 %	57
Coal	0.00 %	0
Geothermal	0.80 %	28
Hydro	75.62 %	2,638
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	21.95 %	766
Unspecified	0.00 %	0
Total	100.00 %	3,489

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Alder	Water	178	178
Benson Creek Windfarm (Burnt River)	Wind	44	44
Bonneville Dam Incremental Hydro G1	Unknown		0
Burley Butte Windpark	Wind	88	88
Chief Joseph	Water	28	28
Condon Windpower LLC	Wind	8	8
Cushman 1	Water	88	88
Cushman 2	Water	145	145
Durbin Creek Windfarm (Burnt River)	Wind	39	39
Elkhorn Valley Wind Farm	Wind	50	50
FPL Energy Vansycle LLC (OR)	Wind	16	16
Grand Coulee Project Hydro Authority	Water	261	261
Hood Street Reservoir	Water	3	3
Hot Springs Windfarm LLC	Wind	43	43
Jett Creek Windfarm (Burnt River)	Wind	13	13
Klondike Wind Power	Wind	5	5
Klondike Windpower III	Wind	12	12
LaGrande	Water	297	297
Lookout Point	Water	1	1
Mayfield	Water	610	610
Milner Dam Wind Park LLC	Wind	80	80
Mossyrock	Water	972	972

Neal Hot Springs Geothermal Project	Geothermal	28	28
Nine Canyon	Wind	26	26
Palisades Dam	Water	5	5
Payne's Ferry	Wind	96	96
Pilgrim Stage Wind Park	Wind	50	50
Power County Wind Park North	Wind	42	42
Power County Wind Park South	Wind	36	36
Priest Rapids	Water	11	11
Prospector Windfarm (Burnt River)	Wind	40	40
Sierra Pacific Aberdeen	Wood/Wood Waste Solids	57	57
Wanapum	Water	14	14
White Creek Wind Farm	Wind	78	78
Wynoochee	Water	25	25
Total		3,489	3,489

Seattle City Light

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	1.24 %	114,168
Biomass	0.00 %	0
Coal	0.00 %	0
Geothermal	0.00 %	0
Hydro	86.09 %	7,909,407
Natural Gas	0.00 %	0
Nuclear	4.98 %	457,743
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	5.14 %	472,131
Unspecified	2.55 %	234,663
Total	100.00 %	9,188,112

BPA Claims

Fuel	MWh
Hydro	3,549,385
Nuclear	457,743
SubTotal	4,007,128
BPA Unspecified Purchase	184,086
BPA Total	4,191,214

Utility Unspecified Purchases

Type	MWh
Unspecified Purchase	50,577
Total	50,577

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Bonneville	Water	4,092	4,092
Boundary	Water	2,012,076	2,012,076
Cedar Falls (WA)	Water	67,764	67,764
Chief Joseph	Water	23,097	23,097
Condon Windpower LLC	Wind	7,651	7,651
Cougar	Water	354	354
Diablo	Water	590,461	590,461
Eitopia Branch Canal 4.6	Water	3,217	3,217
FPL Energy Vansycle LLC (OR)	Wind	433,679	433,679
FPL Energy Vansycle LLC (WA)	Wind	15,343	15,343
Gorge	Water	804,475	804,475
Grand Coulee	Water	37,028	37,028
Hills Creek	Water	174	174
Klondike Wind Power	Wind	3,929	3,929
Klondike Windpower III	Wind	11,529	11,529
Lookout Point	Water	921	921
Main Canal Headworks	Water	43,678	43,678
Newhalem	Water	0	0
Palisades Dam	Water	3,944	3,944
Potholes East Canal 66.0	Water	1,870	1,870
Priest Rapids	Water	17,941	17,941
Ross	Water	540,891	540,891
Russell D Smith	Water	5,514	5,514
South Fork Tolt	Water	35,283	35,283

Summer Falls Power Plant	Water	162,991	162,991
Wanapum	Water	4,251	4,251
Waste Management Columbia Ridge LFGTE	Landfill Gas	100,927	100,927
West Point Treatment Plant	Natural Gas	0	
	Other Biomass Gas	13,241	13,241
Total		4,946,321	4,946,321

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	84.69 %	120,589
Natural Gas	0.00 %	0
Nuclear	10.92 %	15,552
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	4.39 %	6,254
Total	100.00 %	142,395

BPA Claims

Fuel	MWh
Hydro	120,589
Nuclear	15,552
SubTotal	136,141
BPA Unspecified Purchase	6,254
BPA Total	142,395

Snohomish County PUD #1

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	0.99 %	65,472
Coal	0.00 %	0
Geothermal	0.00 %	0
Hydro	73.82 %	4,896,819
Natural Gas	0.00 %	0
Nuclear	9.31 %	617,771
Other Biogenic	0.02 %	1,132
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	1.21 %	80,280
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	10.90 %	722,952
Unspecified	3.75 %	248,444
Total	100.00 %	6,632,870

BPA Claims

Fuel	MWh
Hydro	4,790,259
Nuclear	617,771
SubTotal	5,408,030
BPA Unspecified Purchase	248,444
BPA Total	5,656,474

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Bonneville	Water	6,236	6,236
Brush Creek Solar	Solar	8,988	8,988
Chief Joseph	Water	35,259	35,259
Condon Windpower LLC	Wind	19,952	19,952
Cougar	Water	531	531
Distributed generation - solar (WA)	Solar	36,700	36,700
Distributed Generation--Solar (OR)	Solar	5,192	5,192
FPL Energy Vansycle LLC (WA)	Wind	41,594	41,594
Grand Coulee	Water	56,474	56,474
Hampton Lumber Mill	Wood/Wood Waste Solids	65,472	65,472
Hay Canyon Wind Power LLC	Wind	350,608	350,608
Hills Creek	Water	267	267
Klondike Wind Power	Wind	11,105	11,105
Klondike Windpower III	Wind	31,039	31,039
Lookout Point	Water	1,400	1,400
Morgan Solar Center	Solar	9,634	9,634
Ontario Solar Center	Solar	9,608	9,608
Palisades	Unknown		0
Palisades Dam	Water	6,003	6,003
Qualco Energy	Other Biomass Solids	1,132	1,132
SulusSolar17	Solar	4,784	4,784
Vale Solar Center	Solar	5,374	5,374
Wheat Field Wind Power Project	Wind	185,497	185,497
White Creek Wind Farm	Wind	83,157	83,157

Woods Creek	Water	390	390
Total		976,396	976,396

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	84.69 %	32,608
Natural Gas	0.00 %	0
Nuclear	10.92 %	4,205
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	4.39 %	1,691
Total	100.00 %	38,504

BPA Claims

Fuel	MWh
Hydro	32,608
Nuclear	4,205
SubTotal	36,813
BPA Unspecified Purchase	1,691
BPA Total	38,504

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	84.69 %	25,702
Natural Gas	0.00 %	0
Nuclear	10.92 %	3,315
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	4.39 %	1,333
Total	100.00 %	30,350

BPA Claims

Fuel	MWh
Hydro	25,702
Nuclear	3,315
SubTotal	29,017
BPA Unspecified Purchase	1,333
BPA Total	30,350

Tacoma Power

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	0.75 %	36,019
Coal	0.00 %	0
Geothermal	0.37 %	18,000
Hydro	80.51 %	3,864,226
Natural Gas	0.00 %	0
Nuclear	5.84 %	280,288
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	198
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	10.18 %	488,871
Unspecified	2.35 %	112,721
Total	100.00 %	4,800,323

BPA Claims

Fuel	MWh
Hydro	2,173,379
Nuclear	280,288
SubTotal	2,453,667
BPA Unspecified Purchase	112,721
BPA Total	2,566,388

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Alder	Water	113,796	113,796
Benson Creek Windfarm (Burnt River)	Wind	28,209	28,209
Bonneville	Water	3,138	3,138
Burley Butte Windpark	Wind	56,106	56,106
Chief Joseph	Water	17,752	17,752
Condon Windpower LLC	Wind	4,752	4,752
Cougar	Water	265	265
Cushman 1	Water	56,472	56,472
Cushman 2	Water	93,058	93,058
Distributed Generation--Solar (WA)	Solar	198	198
Durbin Creek Windfarm (Burnt River)	Wind	24,782	24,782
Elkhorn Valley Wind Farm	Wind	32,000	32,000
FPL Energy Vansycle LLC (WA)	Wind	10,451	10,451
Grand Coulee	Water	28,442	28,442
Grand Coulee Project Hydro Authority	Water	138,712	138,712
Hills Creek	Water	134	134
Hood Street Reservoir	Water	1,941	1,941
Hot Springs Windfarm LLC	Wind	27,515	27,515
Jett Creek Windfarm (Burnt River)	Wind	8,363	8,363
Klondike Wind Power	Wind	2,920	2,920
Klondike Windpower III	Wind	7,724	7,724
LaGrande	Water	189,725	189,725

Lookout Point	Water	704	704
Mayfield	Water	389,879	389,879
Milner Dam Wind Park LLC	Wind	51,216	51,216
Mossyrock	Water	621,398	621,398
Neal Hot Springs Geothermal Project	Geothermal	18,000	18,000
Nine Canyon	Wind	16,375	16,375
Palisades Dam	Water	3,029	3,029
Payne's Ferry	Wind	61,653	61,653
Pilgrim Stage Wind Park	Wind	31,677	31,677
Power County Wind Park North	Wind	26,797	26,797
Power County Wind Park South	Wind	23,203	23,203
Priest Rapids	Water	7,250	7,250
Prospector Windfarm (Burnt River)	Wind	25,434	25,434
Sierra Pacific Aberdeen	Wood/Wood Waste Solids	36,019	36,019
Wanapum	Water	9,186	9,186
White Creek Wind Farm	Wind	49,694	49,694
Wynoochee	Water	15,966	15,966
Total		2,233,935	2,233,935

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	84.69 %	82,838
Natural Gas	0.00 %	0
Nuclear	10.92 %	10,683
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	4.39 %	4,296
Total	100.00 %	97,817

BPA Claims

Fuel	MWh
Hydro	82,838
Nuclear	10,683
SubTotal	93,521
BPA Unspecified Purchase	4,297
BPA Total	97,818

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	80.38 %	184,322
Natural Gas	0.00 %	0
Nuclear	10.36 %	23,771
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	9.26 %	21,246
Total	100.00 %	229,339

BPA Claims

Fuel	MWh
Hydro	184,322
Nuclear	23,771
SubTotal	208,093
BPA Unspecified Purchase	9,560
BPA Total	217,653

Utility Unspecified Purchases

Type	MWh
Unspecified Purchase	11,685
Total	11,685

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	84.69 %	37,799
Natural Gas	0.00 %	0
Nuclear	10.92 %	4,875
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	4.39 %	1,960
Total	100.00 %	44,634

BPA Claims

Fuel	MWh
Hydro	37,799
Nuclear	4,875
SubTotal	42,674
BPA Unspecified Purchase	1,961
BPA Total	44,635

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	84.69 %	197,775
Natural Gas	0.00 %	0
Nuclear	10.92 %	25,506
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	4.39 %	10,257
Total	100.00 %	233,538

BPA Claims

Fuel	MWh
Hydro	197,775
Nuclear	25,506
SubTotal	223,281
BPA Unspecified Purchase	10,258
BPA Total	233,539

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	84.69 %	124,903
Natural Gas	0.00 %	0
Nuclear	10.92 %	16,108
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	4.39 %	6,478
Total	100.00 %	147,489

BPA Claims

Fuel	MWh
Hydro	124,903
Nuclear	16,108
SubTotal	141,011
BPA Unspecified Purchase	6,477
BPA Total	147,488