

Washington State Electric Utility Fuel Mix Disclosure Reports



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Table of Contents

Forward	2
About the Washington State Electric Utilities Fuel Mix	3
Washington State Electric Utilities: 2018 Graphs and Tables	5
Northwest Power Pool Fuel Mix	12

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 the 2019 report: 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 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 June 15 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), fuel type and associated emissions 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. Tables and figures associated with the Northwest Power Pool (NWPP) Generation Mix and Net System Mix 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. Claims on resources include distribution losses and differ from utility retail sales
- “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: 2018 Fuel Mix Graphs and Tables

Washington State Aggregate Fuel Mix

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

Figure 1: Washington State Electric Utilities Aggregate 2018 Fuel Mix (Percent)

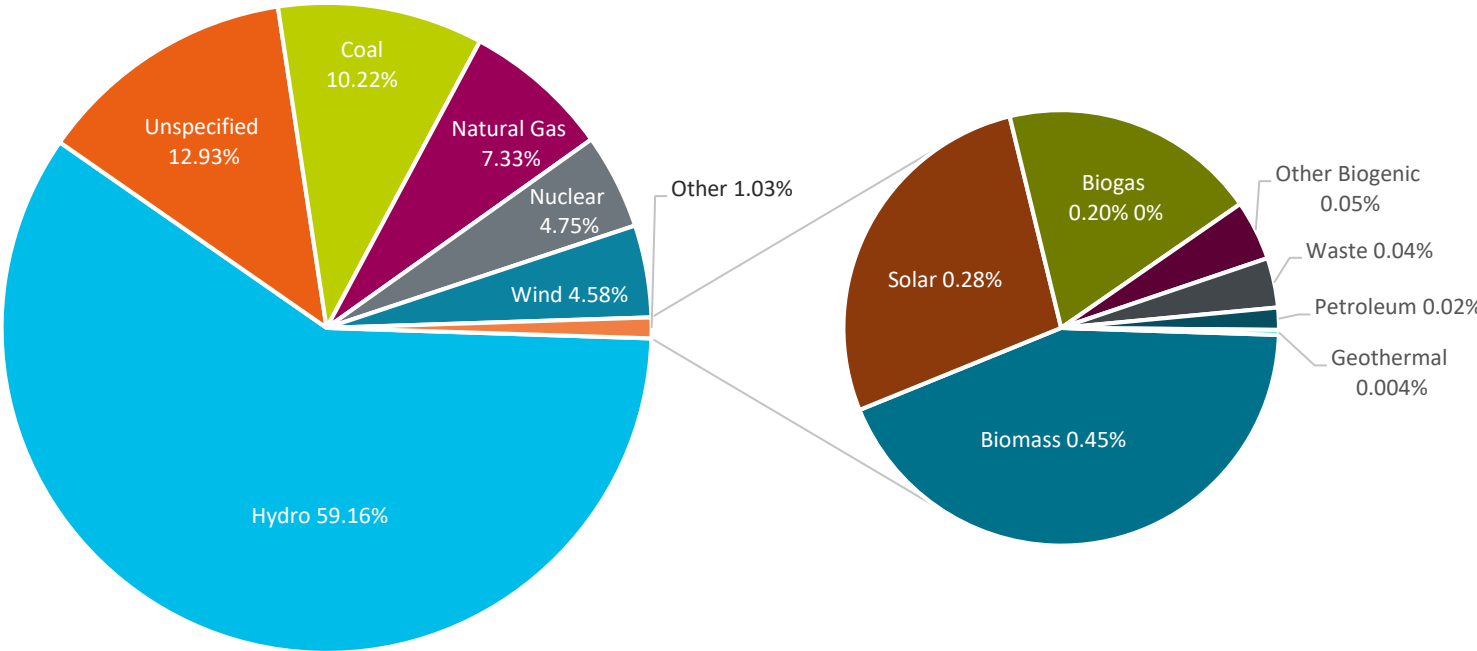
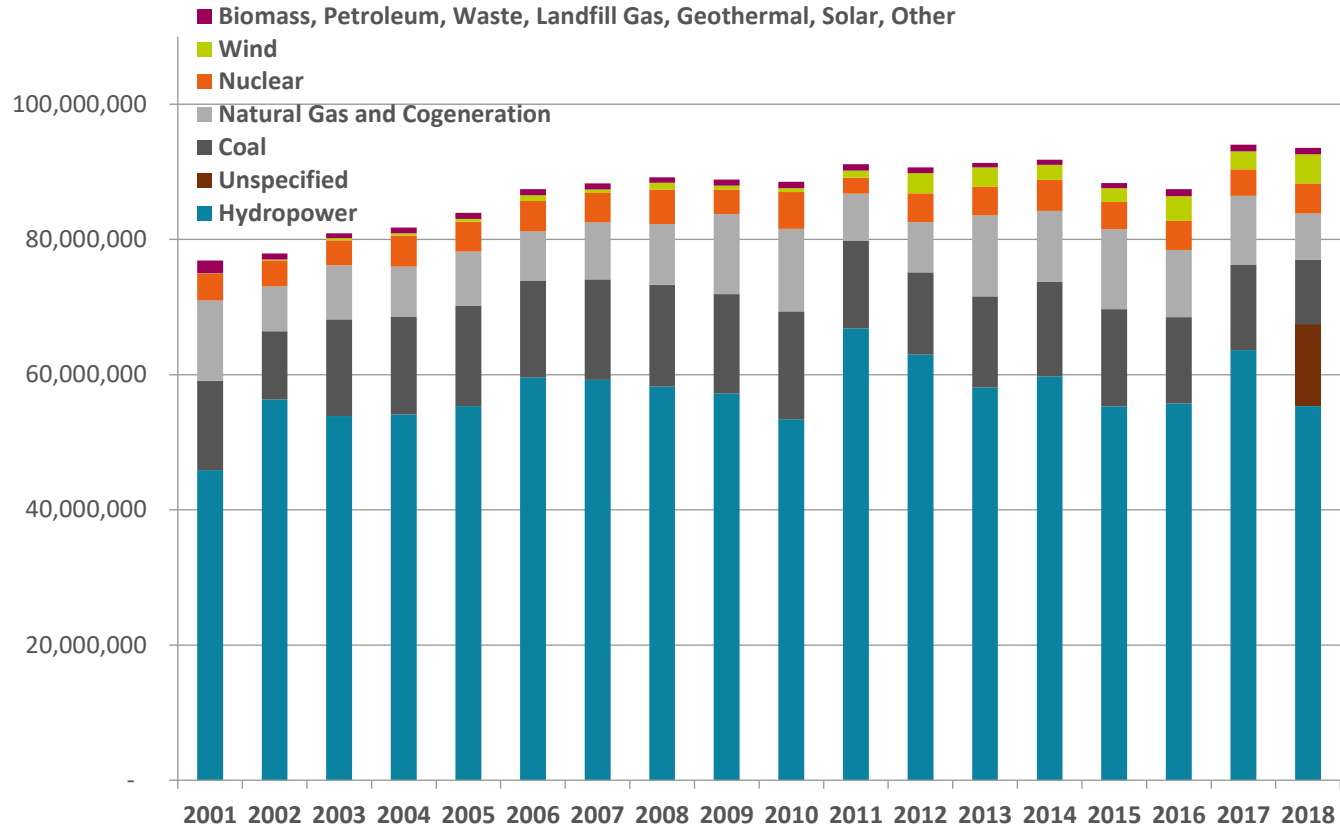


Table 1: Washington State Electric Utilities: Aggregate Fuel Mix 2018

Fuel Type	Total Electric Power MWh	Share of total
Hydro	55,340,207	59.16%
Unspecified	12,095,395	12.93%
Coal	9,556,048	10.22%
Natural Gas	6,861,147	7.33%
Nuclear	4,441,378	4.75%
Wind	4,288,021	4.58%
Biomass	417,963	0.45%
Solar	263,695	0.28%
Biogas	184,859	0.20%
Other Biogenic	42,931	0.05%
Waste	35,627	0.04%
Petroleum	15,854	0.02%
Geothermal	3,540	0.004%

Figure 2 below presents the Washington electricity Fuel Mix time series covering 2001 through 2018. Table 2 presents the 2001-18 time series in tabular format.

Figure 2: Washington State Electric Utilities: Aggregate Fuel Mix Time Series 2001-2018 (MWh)



**Table 2: Washington State Electric Utilities: Aggregate Fuel Mix Time Series
2001-2018 (Megawatt-hours)**

Fuel Source	2001	2002	2003	2004	2005	2006	2007	2008	2009
Hydropower	45,853,455	56,339,641	53,850,478	54,132,176	55,342,273	59,609,529	59,203,647	58,235,550	7,214,771
Coal	13,247,976	10,076,412	14,336,264	14,459,001	14,860,017	14,245,188	14,866,637	15,034,912	4,672,973
Cogeneration	5,954,725	3,971,751	3,590,493	2,717,321	2,660,660	2,766,515	2,157,302	1,635,296	1,867,355
Natural Gas	5,908,568	2,634,328	4,370,728	4,662,035	5,325,475	4,553,447	6,302,442	7,385,757	9,979,345
Nuclear	3,975,371	3,858,716	3,726,175	4,591,072	4,403,537	4,513,216	4,326,265	5,083,665	3,653,541
Biomass	937,515	392,378	434,700	536,643	587,085	392,712	460,983	415,226	445,076
Petroleum	489,650	22,244	34,957	53,046	44,233	62,232	69,267	69,937	94,360
Waste	236,666	23,471	139,056	102,864	150,955	331,963	288,528	276,669	296,180
Geothermal	158,779	-	-	-	-	14,399	11,189	16,866	19,237
Landfill Gas	70,807	220,705	75,125	134,122	80,500	57,858	49,041	23,043	16,058
Wind	23,822	163,134	320,540	346,470	432,667	867,392	545,622	1,010,928	587,994
Other		233,995	6,991	37,379	31,156	10,863	12,923	19,391	28,650
Solar									
Unspecified									
Total	76,857,334	77,936,775	80,885,507	81,772,129	83,918,558	87,425,313	88,293,846	89,207,239	8,875,541

Fuel Source	2010	2011	2012	2013	2014	2015	2016	2017	2018
Hydropower	53,412,121	66,847,397	62,984,536	58,074,493	59,723,805	55,306,859	55,948,538	63,644,891	55,340,207
Coal	15,955,168	12,900,636	12,149,258	13,519,852	14,026,540	14,388,993	12,338,072	12,593,438	9,556,048
Cogeneration	1,731,728	1,319,055	486,609	1,126,515	926,691				
Natural Gas	10,476,257	5,684,223	6,952,877	10,823,275	9,515,792	11,807,835	10,055,032	10,181,880	6,861,147
Nuclear	5,430,617	2,390,245	4,239,398	4,247,504	4,617,391	4,021,955	4,307,607	3,941,745	4,441,378
Biomass	492,371	446,890	310,812	260,972	300,416	401,408	684,569	562,311	417,963
Petroleum	81,372	68,539	67,580	64,611	59,674	47,108	65,498	103,244	15,854
Waste	332,719	336,948	303,066	221,914	203,960	158,887	113,732	172,753	35,627
Geothermal	17,376	18,107	17,003	16,138	17,911	16,085		0	3,540
Landfill Gas	18,787	49,209	83,665	60,741	104,431	133,132	148,177	121,566	184,859
Wind	567,281	1,017,702	3,011,137	2,859,415	2,219,613	2,029,032	3,661,267	2,674,081	4,288,021
Other	28,504	27,307	36,396	39,528	59,964		48,095	36,678	42,931
Solar			1,433	1,709	6,618	8,807	3,491	3,071	263,695
Unspecified									12,095,395
Total	88,544,303	91,106,257	90,643,771	91,316,669	91,782,808	88,320,101	87,374,078	94,035,658	93,548,683

Table 3 presents aggregate Washington utility carbon dioxide emissions for 2018 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. Table 4 below illustrates the aggregate state carbon dioxide for the electric sector for 2005-2018.

Table 3: 2018 Washington State Utility Aggregate CO2 Emissions by Fuel Type

Carbon Dioxide Emissions	Short tons	Metric Tons
Coal	14,739,364	13,372,070
Natural gas	4,627,203	4,197,961
Waste	105,556	95,764
Other biogenic/non-biogenic	81,914	74,315
Landfill gas	100,318	91,012
Petroleum	20,172	18,300
Total	19,674,527	17,849,423
Other Emissions	Short tons	Metric Tons
Sulfur Dioxide	34,854	31,621
Nitrogen Oxides	30,298	27,487
	Pounds	Kilograms
Mercury	312	141

Figure 3: 2018 Washington State Utility Aggregate CO2 Emissions by Fuel Type

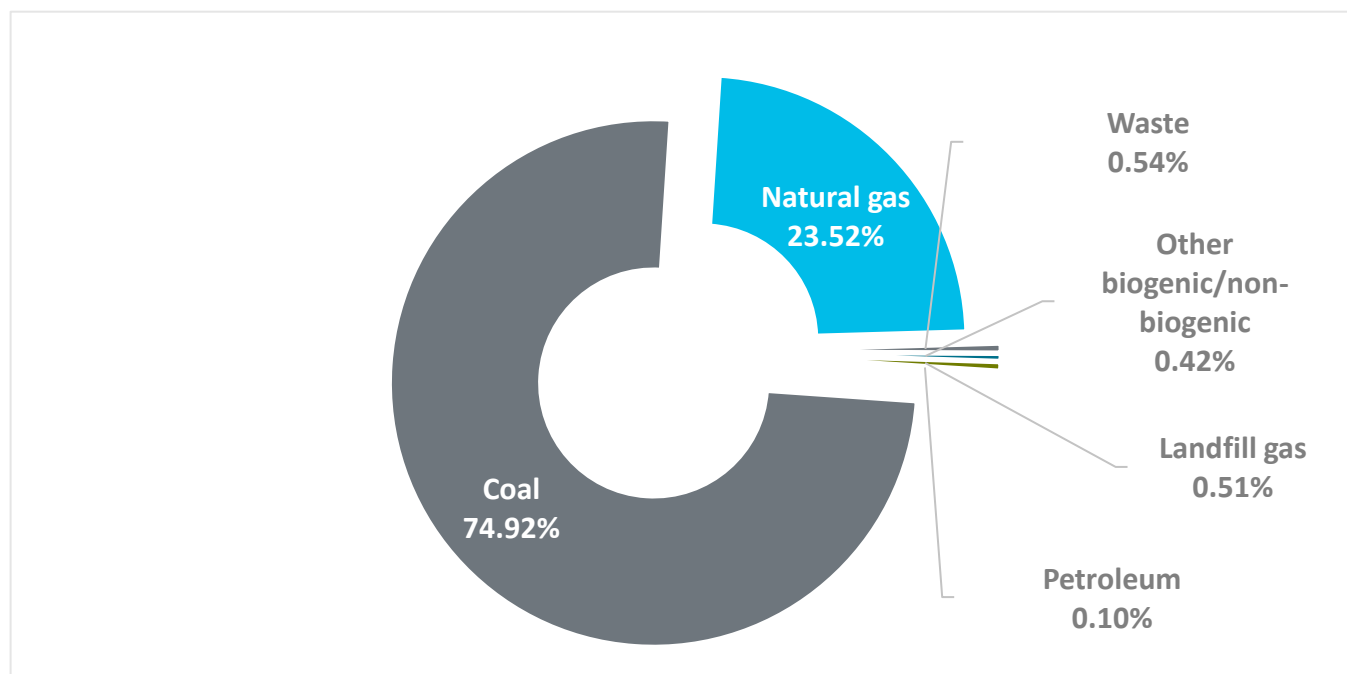
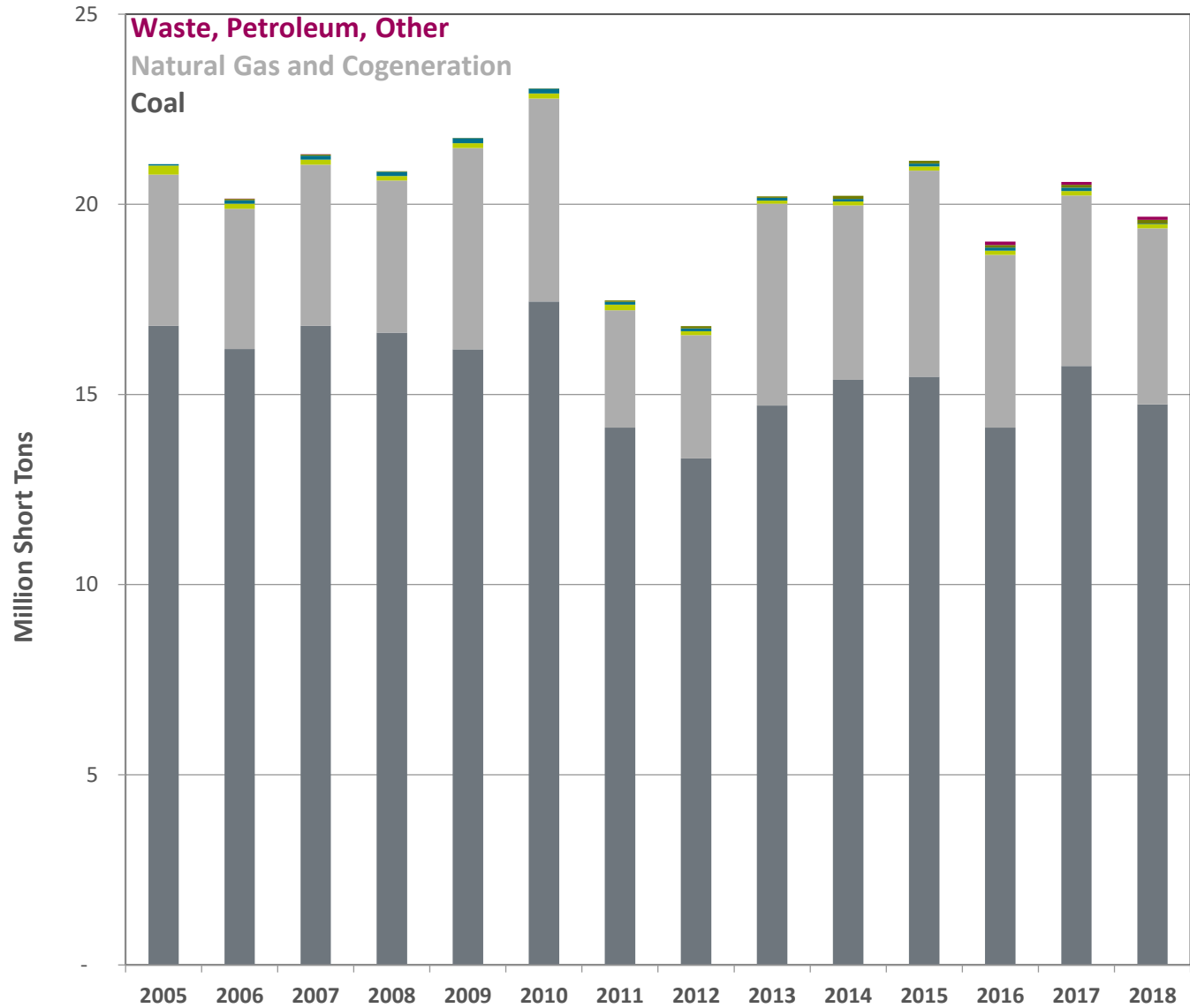


Figure 4: 2005 - 2018 Washington State Aggregate CO2 Emissions by Fuel Type



Northwest Power Pool Fuel and Net System Mix

The Northwest Power Pool Fuel Mix for 2018 is presented in Figure 5 and Table 4 below. Hydropower has the largest share of generation at 46.3 percent, followed by coal and natural gas fired generation at 23.2 and 15.4 percent respectively.

Figure 5: Northwest Power Pool Generation 2018

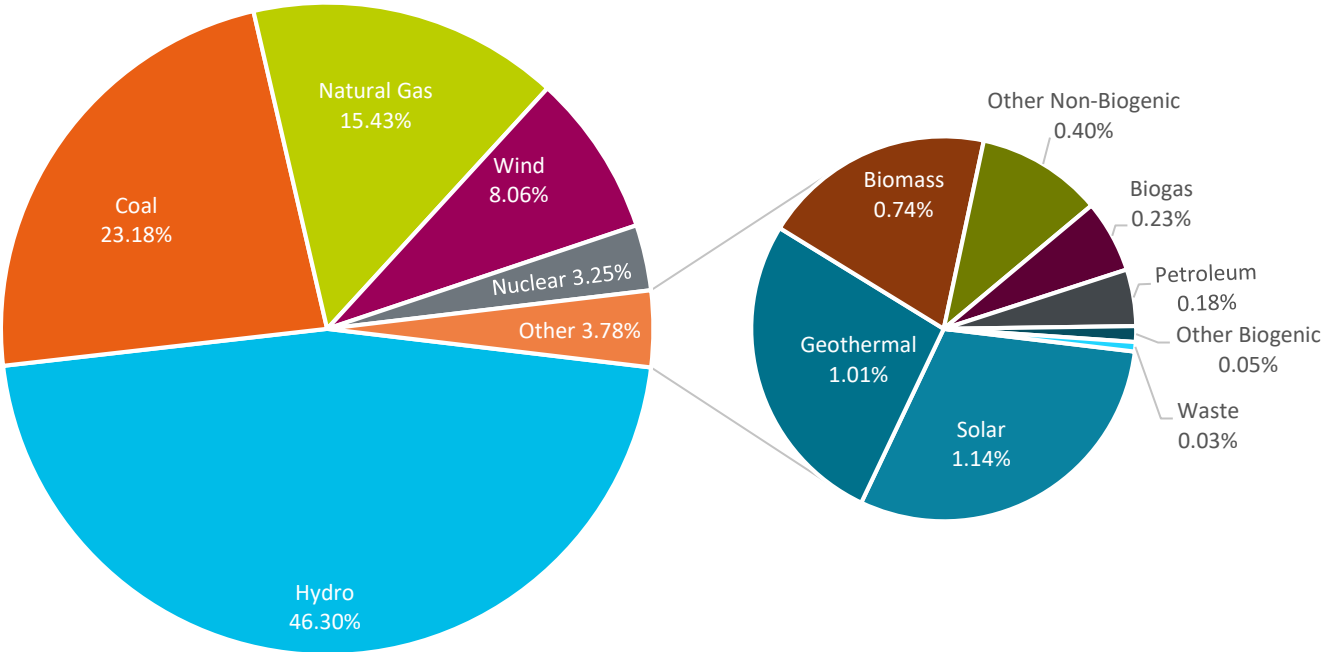


Table 4: 2018 Northwest Power Pool Generation by Fuel Category¹

Fuel Category	Net Generation MWh	Fuel Category Share
Hydro	138,398,075	46.30%
Coal	69,290,606	23.18%
Natural Gas	46,119,633	15.43%
Wind	24,093,046	8.06%
Nuclear	9,708,441	3.25%
Solar	3,403,887	1.14%
Geothermal	3,016,844	1.01%
Biomass	2,223,073	0.74%
Other Non-Biogenic	1,201,810	0.40%
Biogas	686,323	0.23%
Petroleum	528,538	0.18%
Other Biogenic	136,355	0.05%
Waste	95,049	0.03%
Total	298,901,680	100.00%

Table 5 below illustrates carbon dioxide, sulfur dioxide and nitrogen oxide emissions associated with electric power generation in the Northwest Power Pool in 2018. Coal fired electricity generation is the primary source of emissions.

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: 2018 Northwest Power Pool Emissions by Fuel Type

Fuel	CO2 emissions	SO2 emissions	NOx emissions
Coal	75,359,636	51,925	29,453
Natural gas	21,037,527	355	5,949
Petroleum	417,193	3,184	64
Other	333,576	86	660
Total	97,147,933	55,550	36,126

Table 6 illustrates the Northwest Power Pool Net System Mix for 2018. 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 43.7 percent followed by coal and natural gas fired generation at 26.4 and 23.9 percent respectively.

Table 6: Northwest Power Pool Net System Fuel Mix 2018

Fuel Type	Net Generation, MWh	Fuel Category Share	Imputed NSM emissions, short tons
Hydro	39,721,800	43.68%	
Coal	24,025,111	26.42%	27,210,293
Natural Gas	21,707,316	23.87%	9,854,029
Nuclear	2,141,179	2.35%	
Biomass	2,108,414	2.31%	
Other Non-Biogenic	1,186,331	1.30%	1,186,331
Petroleum	56,509	0.06%	52,018
Waste	11,412	0.01%	34,017
Total	90,958,072	100.00%	38,336,687

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	86.47 %	4,411
Natural Gas	0.01 %	0
Nuclear	10.75 %	549
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	2.77 %	142
Total	100.00 %	5,102

BPA Claims

Fuel	MWh
Hydro	4,411
Nuclear	549
SubTotal	4,960
BPA Unspecified Purchase	142
BPA Total	5,102

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	86.47 %	3,625
Natural Gas	0.01 %	0
Nuclear	10.75 %	451
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	2.77 %	116
Total	100.00 %	4,192

BPA Claims

Fuel	MWh
Hydro	3,625
Nuclear	451
SubTotal	4,076
BPA Unspecified Purchase	116
BPA Total	4,192

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	73.14 %	23,522
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	0.90 %	290
Waste	0.00 %	0
Wind	20.91 %	6,725
Unspecified	5.05 %	1,623
Total	100.00 %	32,160

Utility Unspecified Purchases

Type	MWh
Unspecified Purchase	1,623
Total	1,623

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Big Horn Wind II	Wind	57	57
Big Horn Wind Project	Wind	19	19
Gala Solar	Solar	290	290
Klamath Solar	Unknown		705
Klondike Windpower II	Wind	6,620	6,620
Klondike Windpower III	Wind	23	23
Leaning Juniper Wind Power II	Wind	7	7
Priest Rapids	Water	10,091	10,091
Wanapum	Water	13,431	13,431
Total		30,538	31,243

Avista (WA)

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	3.13 %	187,741
Coal	13.66 %	818,251
Geothermal	0.00 %	0
Hydro	46.01 %	2,756,542
Natural Gas	32.37 %	1,939,269
Nuclear	0.00 %	0
Other Biogenic	0.62 %	37,082
Other Non-Biogenic	0.00 %	0
Petroleum	0.02 %	959
Solar	0.00 %	0
Waste	0.59 %	35,627
Wind	3.60 %	215,574
Unspecified	0.00 %	0
Total	100.00 %	5,991,045

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Boulder Park	Natural Gas	28,269	28,269
Cabinet Gorge	Water	592,987	592,987
Colstrip	Subbituminous Coal	818,251	
	Waste/Other Oil	314	
	Distillate Fuel Oil	646	
	Gaseous Propane	0	819,210
Coyote Springs II	Natural Gas	881,816	881,816
Kettle Falls Generating Station	Wood/Wood Waste Solids	168,173	
	Natural Gas	4,179	172,352
Little Falls (WA)	Water	98,151	98,151
Long Lake	Water	297,885	297,885
Meyers Falls	Water	6,332	6,332
Monroe Street	Water	41,450	41,450
Nine Mile	Water	73,306	73,306
Northeast (WA)	Natural Gas	893	893
Noxon Rapids	Water	941,529	941,529
Palouse	Wind	215,574	215,574
Plummer Cogen	Wood/Wood Waste Solids	19,568	19,568
Post Falls	Water	37,082	37,082
Priest Rapids	Water	210,497	210,497
Rathdrum	Natural Gas	85,560	85,560
Rathdrum Power LLC	Natural Gas	938,552	938,552
Rocky Reach	Water	262,974	262,974
Sheep Creek Hydro	Water	3,785	3,785
Spokane Waste to Energy	Biogenic Municipal Solid Waste	37,082	
	Non-biogenic Municipal Solid Waste	35,627	72,709

Upper Falls	Water	31,286	31,286
Upriver Dam Hydro Plant	Water	30,410	30,410
Wells	Water	128,868	128,868
Total		5,991,046	5,991,045

Benton County PUD #1

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	1.74 %	31,229
Biomass	0.00 %	0
Coal	0.00 %	0
Geothermal	0.00 %	0
Hydro	79.55 %	1,426,223
Natural Gas	0.52 %	9,353
Nuclear	9.81 %	175,857
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Waste	0.00 %	0
Wind	5.25 %	94,105
Unspecified	3.13 %	56,177
Total	100.00 %	1,792,944

BPA Claims

Fuel	MWh
Hydro	1,414,095
Natural Gas	111
Nuclear	175,857
SubTotal	1,590,063
BPA Unspecified Purchase	45,382
BPA Total	1,635,445

Utility Unspecified Purchases

Type	MWh
Unspecified Purchase	10,795
Total	10,795

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Condon Windpower LLC	Wind	2,587	2,587
FPL Energy Vansycle LLC (WA)	Wind	4,761	4,761
Frederickson Power LP	Natural Gas	9,242	9,242
Hopkins Ridge Wind	Wind	7,874	7,874
Klondike Wind Power	Wind	1,184	1,184
Klondike Windpower III	Wind	3,132	3,132
LRI LFGTE Facility	Landfill Gas	31,229	31,229
Nine Canyon	Wind	20,009	20,009
Packwood	Water	12,128	12,128
White Creek Wind Farm	Wind	20,865	20,865
Yahoo Creek	Wind	33,693	33,693
Total		146,704	146,704

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	75.96 %	430,226
Natural Gas	0.01 %	34
Nuclear	9.45 %	53,503
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	14.58 %	82,549
Total	100.00 %	566,312

BPA Claims

Fuel	MWh
Hydro	430,226
Natural Gas	34
Nuclear	53,503
SubTotal	483,763
BPA Unspecified Purchase	13,807
BPA Total	497,570

Utility Unspecified Purchases

Type	MWh
Unspecified Purchase	68,742
Total	68,742

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	83.50 %	480,251
Natural Gas	0.01 %	38
Nuclear	10.38 %	59,724
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	6.11 %	35,142
Total	100.00 %	575,155

BPA Claims

Fuel	MWh
Hydro	480,251
Natural Gas	38
Nuclear	59,724
SubTotal	540,013
BPA Unspecified Purchase	15,413
BPA Total	555,426

Utility Unspecified Purchases

Type	MWh
Unspecified Purchase	19,729
Total	19,729

BPA Federal Claimant (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	86.47 %	552,123
Natural Gas	0.01 %	43
Nuclear	10.75 %	68,662
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	2.77 %	17,719
Total	100.00 %	638,547

BPA Claims

Fuel	MWh
Hydro	552,123
Natural Gas	43
Nuclear	68,662
SubTotal	620,828
BPA Unspecified Purchase	17,720
BPA Total	638,548

Centralia City 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	88.06 %	238,552
Natural Gas	0.00 %	13
Nuclear	7.57 %	20,510
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	4.37 %	11,844
Total	100.00 %	270,919

BPA Claims	
Fuel	MWh
Hydro	164,927
Natural Gas	13
Nuclear	20,510
SubTotal	185,450
BPA Unspecified Purchase	5,293
BPA Total	190,743

Utility Unspecified Purchases	
Type	MWh
Unspecified Purchase	6,550
Total	6,550

Claims on Power Plants			
Plant Name	Fuel	MWh	Total MWh
Yelm	Water	73,625	73,625
Total		73,625	73,625

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	95.70 %	1,579,524
Natural Gas	0.00 %	0
Nuclear	0.00 %	0
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	20
Solar	0.00 %	0
Waste	0.00 %	0
Wind	0.03 %	577
Unspecified	4.27 %	70,471
Total	100.00 %	1,650,592

Utility Unspecified Purchases

Type	MWh
Unspecified Purchase	70,471
Total	70,471

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Chelan	Water	167,996	167,996
Nine Canyon	Wind	577	577
Rock Island	Water	333,336	333,336
Rocky Reach	Water	1,077,068	1,077,068
Stehekin Diesel	Distillate Fuel Oil	20	20
Stehekin Hydro	Water	1,124	1,124
Total		1,580,121	1,580,121

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	80.72 %	124,616
Natural Gas	0.01 %	10
Nuclear	10.04 %	15,497
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	9.23 %	14,249
Total	100.00 %	154,372

BPA Claims

Fuel	MWh
Hydro	124,616
Natural Gas	10
Nuclear	15,497
SubTotal	140,123
BPA Unspecified Purchase	4,000
BPA Total	144,123

Utility Unspecified Purchases

Type	MWh
Unspecified Purchase	10,250
Total	10,250

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	86.47 %	18,334
Natural Gas	0.01 %	1
Nuclear	10.75 %	2,280
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	2.77 %	588
Total	100.00 %	21,203

BPA Claims

Fuel	MWh
Hydro	18,334
Natural Gas	1
Nuclear	2,280
SubTotal	20,615
BPA Unspecified Purchase	588
BPA Total	21,203

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	86.47 %	70,439
Natural Gas	0.01 %	6
Nuclear	10.75 %	8,760
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	2.77 %	2,261
Total	100.00 %	81,466

BPA Claims

Fuel	MWh
Hydro	70,439
Natural Gas	6
Nuclear	8,760
SubTotal	79,205
BPA Unspecified Purchase	2,260
BPA Total	81,465

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	86.65 %	574,684
Natural Gas	0.01 %	45
Nuclear	10.60 %	70,330
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	2.74 %	18,150
Total	100.00 %	663,209

BPA Claims

Fuel	MWh
Hydro	565,537
Natural Gas	45
Nuclear	70,330
SubTotal	635,912
BPA Unspecified Purchase	18,148
BPA Total	654,060

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Distributed Generation--Hydro (WA)	Water	261	261
Packwood	Water	8,886	8,886
Total		9,147	9,147

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	57.12 %	2,675,396
Natural Gas	25.47 %	1,192,802
Nuclear	7.06 %	330,772
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	10.35 %	484,652
Total	100.00 %	4,683,622

BPA Claims

Fuel	MWh
Hydro	2,659,800
Natural Gas	209
Nuclear	330,772
SubTotal	2,990,781
BPA Unspecified Purchase	85,360
BPA Total	3,076,141

Utility Unspecified Purchases

Type	MWh
Unspecified Purchase	399,291
Total	399,291

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Packwood	Water	15,596	15,596
River Road Gen Plant	Natural Gas	1,192,593	1,192,593
Total		1,208,189	1,208,189

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	86.47 %	19,455
Natural Gas	0.01 %	2
Nuclear	10.75 %	2,419
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	2.77 %	624
Total	100.00 %	22,500

BPA Claims

Fuel	MWh
Hydro	19,455
Natural Gas	2
Nuclear	2,419
SubTotal	21,876
BPA Unspecified Purchase	625
BPA Total	22,501

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	82.44 %	310,429
Natural Gas	0.01 %	24
Nuclear	10.25 %	38,605
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	7.30 %	27,483
Total	100.00 %	376,541

BPA Claims

Fuel	MWh
Hydro	310,429
Natural Gas	24
Nuclear	38,605
SubTotal	349,058
BPA Unspecified Purchase	9,962
BPA Total	359,020

Utility Unspecified Purchases

Type	MWh
Unspecified Purchase	17,519
Total	17,519

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	86.47 %	14,569
Natural Gas	0.01 %	1
Nuclear	10.75 %	1,812
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	2.77 %	468
Total	100.00 %	16,850

BPA Claims

Fuel	MWh
Hydro	14,569
Natural Gas	1
Nuclear	1,812
SubTotal	16,382
BPA Unspecified Purchase	467
BPA Total	16,849

Cowlitz County PUD #1

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	1.54 %	75,247
Coal	0.05 %	2,249
Geothermal	0.00 %	0
Hydro	65.84 %	3,226,354
Natural Gas	0.19 %	9,540
Nuclear	7.78 %	381,441
Other Biogenic	0.02 %	985
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	180
Solar	1.99 %	97,642
Waste	0.00 %	0
Wind	5.61 %	274,747
Unspecified	16.98 %	831,819
Total	100.00 %	4,900,204

BPA Claims

Fuel	MWh
Hydro	3,067,234
Natural Gas	241
Nuclear	381,441
SubTotal	3,448,916
BPA Unspecified Purchase	98,437
BPA Total	3,547,353

Utility Unspecified Purchases

Type	MWh
Unspecified Purchase	733,383
Total	733,383

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
American Falls Solar	Solar	21,925	21,925
American Falls Solar II	Solar	20,898	20,898
Condon Windpower LLC	Wind	2,184	2,184
FPL Energy Vansycle LLC (WA)	Wind	9,040	9,040
Harvest Wind Project	Wind	90,325	90,325
High Mesa	Wind	96,497	96,497
Klondike Wind Power	Wind	1,004	1,004
Klondike Windpower III	Wind	2,733	2,733
Longview Fibre	Wood/Wood Waste Solids	11,505	
	Black Liquor	42,334	
	Natural Gas	6,079	59,918
Murphy Flat Solar	Solar	15,321	15,321
Nine Canyon	Wind	4,506	4,506
Nippon Dynawave Packaging	Black Liquor	16,734	
Longview WA	Wood/Wood Waste Solids	4,674	
	Natural Gas	3,220	
	Sludge Waste	985	
	Subbituminous Coal	2,249	
	Distillate Fuel Oil	11	
	Residual Fuel Oil	169	28,042
Orchard Ranch Solar	Solar	20,351	20,351
Power County Wind Park North	Wind	28,446	28,446
Power County Wind Park South	Wind	19,280	19,280

Priest Rapids	Water	12,629	12,629
Simcoe Solar	Solar	19,147	19,147
Swift 2	Water	146,492	146,492
White Creek Wind Farm	Wind	20,732	20,732
Total		619,470	619,470

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	100.00 %	1,017,954
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
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	0.00 %	0
Total	100.00 %	1,017,954

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Rocky Reach	Water	204,411	204,411
Wells	Water	813,543	813,543
Total		1,017,954	1,017,954

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	86.47 %	23,913
Natural Gas	0.01 %	2
Nuclear	10.75 %	2,974
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	2.77 %	767
Total	100.00 %	27,656

BPA Claims

Fuel	MWh
Hydro	23,913
Natural Gas	2
Nuclear	2,974
SubTotal	26,889
BPA Unspecified Purchase	768
BPA Total	27,657

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	86.47 %	182,003
Natural Gas	0.01 %	14
Nuclear	10.75 %	22,634
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	2.77 %	5,841
Total	100.00 %	210,492

BPA Claims

Fuel	MWh
Hydro	182,003
Natural Gas	14
Nuclear	22,634
SubTotal	204,651
BPA Unspecified Purchase	5,842
BPA Total	210,493

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	86.47 %	240,896
Natural Gas	0.01 %	19
Nuclear	10.75 %	29,958
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	2.77 %	7,731
Total	100.00 %	278,604

BPA Claims

Fuel	MWh
Hydro	240,896
Natural Gas	19
Nuclear	29,958
SubTotal	270,873
BPA Unspecified Purchase	7,731
BPA Total	278,604

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	86.47 %	62,365
Natural Gas	0.01 %	5
Nuclear	10.75 %	7,756
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	2.77 %	2,001
Total	100.00 %	72,127

BPA Claims

Fuel	MWh
Hydro	62,365
Natural Gas	5
Nuclear	7,756
SubTotal	70,126
BPA Unspecified Purchase	2,000
BPA Total	72,126

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	80.67 %	873,010
Natural Gas	3.23 %	34,985
Nuclear	9.87 %	106,876
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	6.23 %	67,483
Total	100.00 %	1,082,354

BPA Claims

Fuel	MWh
Hydro	859,411
Natural Gas	68
Nuclear	106,876
SubTotal	966,355
BPA Unspecified Purchase	27,583
BPA Total	993,938

Utility Unspecified Purchases

Type	MWh
Unspecified Purchase	39,900
Total	39,900

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Distributed Generation--Hydro (WA)	Water	4,498	4,498
Frederickson Power LP	Natural Gas	34,917	34,917
Packwood	Water	9,101	9,101
Total		48,516	48,516

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	36.19 %	1,878,742
Natural Gas	0.00 %	3
Nuclear	0.10 %	4,976
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Waste	0.00 %	0
Wind	0.59 %	30,823
Unspecified	63.12 %	3,277,420
Total	100.00 %	5,191,964

BPA Claims

Fuel	MWh
Hydro	40,014
Natural Gas	3
Nuclear	4,976
SubTotal	44,993
BPA Unspecified Purchase	1,283
BPA Total	46,276

Utility Unspecified Purchases

Type	MWh
Unspecified Purchase	3,276,137
Total	3,276,137

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Nine Canyon	Wind	30,823	30,823
PEC Headworks	Water	18,852	18,852
Priest Rapids	Water	842,701	842,701
Quincy Chute	Water	30,258	30,258
Wanapum	Water	946,917	946,917
Total		1,869,551	1,869,551

Grays Harbor County PUD #1

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	2.84 %	27,000
Coal	0.00 %	0
Geothermal	0.00 %	0
Hydro	84.00 %	798,533
Natural Gas	0.01 %	63
Nuclear	10.45 %	99,305
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	2.70 %	25,627
Total	100.00 %	950,528

BPA Claims

Fuel	MWh
Hydro	798,533
Natural Gas	63
Nuclear	99,305
SubTotal	897,901
BPA Unspecified Purchase	25,627
BPA Total	923,528

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Sierra Pacific Aberdeen	Wood/Wood Waste Solids	27,000	27,000
Total		27,000	27,000

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	86.47 %	834,399
Natural Gas	0.01 %	66
Nuclear	10.75 %	103,766
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	2.77 %	26,778
Total	100.00 %	965,009

BPA Claims

Fuel	MWh
Hydro	834,399
Natural Gas	66
Nuclear	103,766
SubTotal	938,231
BPA Unspecified Purchase	26,778
BPA Total	965,009

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	86.47 %	335,442
Natural Gas	0.01 %	26
Nuclear	10.75 %	41,716
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	2.77 %	10,765
Total	100.00 %	387,949

BPA Claims

Fuel	MWh
Hydro	335,442
Natural Gas	26
Nuclear	41,716
SubTotal	377,184
BPA Unspecified Purchase	10,765
BPA Total	387,949

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	86.47 %	21,717
Natural Gas	0.01 %	2
Nuclear	10.75 %	2,701
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	2.77 %	697
Total	100.00 %	25,117

BPA Claims

Fuel	MWh
Hydro	21,717
Natural Gas	2
Nuclear	2,701
SubTotal	24,420
BPA Unspecified Purchase	697
BPA Total	25,117

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	86.47 %	87,613
Natural Gas	0.01 %	7
Nuclear	10.75 %	10,896
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	2.77 %	2,812
Total	100.00 %	101,328

BPA Claims

Fuel	MWh
Hydro	87,613
Natural Gas	7
Nuclear	10,896
SubTotal	98,516
BPA Unspecified Purchase	2,811
BPA Total	101,327

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	80.32 %	316,607
Natural Gas	0.01 %	22
Nuclear	8.74 %	34,435
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	10.93 %	43,066
Total	100.00 %	394,130

BPA Claims

Fuel	MWh
Hydro	276,899
Natural Gas	22
Nuclear	34,435
SubTotal	311,356
BPA Unspecified Purchase	8,886
BPA Total	320,242

Utility Unspecified Purchases

Type	MWh
Unspecified Purchase	34,179
Total	34,179

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
McNary Dam Fish Attraction Project	Water	37,112	37,112
Packwood	Water	2,596	2,596
Total		39,708	39,708

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	86.47 %	2,421
Natural Gas	0.01 %	0
Nuclear	10.75 %	301
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	2.77 %	78
Total	100.00 %	2,800

BPA Claims

Fuel	MWh
Hydro	2,421
Nuclear	301
SubTotal	2,722
BPA Unspecified Purchase	78
BPA Total	2,800

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	86.47 %	228,245
Natural Gas	0.01 %	18
Nuclear	10.75 %	28,385
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	2.77 %	7,325
Total	100.00 %	263,973

BPA Claims

Fuel	MWh
Hydro	228,245
Natural Gas	18
Nuclear	28,385
SubTotal	256,648
BPA Unspecified Purchase	7,327
BPA Total	263,975

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	81.03 %	773,321
Natural Gas	0.01 %	60
Nuclear	9.99 %	95,334
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Waste	0.00 %	0
Wind	6.39 %	61,027
Unspecified	2.58 %	24,602
Total	100.00 %	954,344

BPA Claims

Fuel	MWh
Hydro	766,601
Natural Gas	60
Nuclear	95,334
SubTotal	861,995
BPA Unspecified Purchase	24,602
BPA Total	886,597

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Burton Creek Hydro	Water	1,263	1,263
Condon Windpower LLC	Wind	1,175	1,175
FPL Energy Vansycle LLC (WA)	Wind	0	0
Grand View Solar Two	Solar	0	0
Klondike Wind Power	Wind	0	0
Klondike Windpower III	Wind	0	0
Mill Creek	Water	947	947
Nine Canyon	Wind	59,852	59,852
Packwood	Water	4,511	4,511
Sand Ranch Windfarm LLC	Wind	0	0
Threemile Canyon	Wind	0	0
Wagon Trail LLC	Wind	0	0
Ward Butte Windfarm LLC	Wind	0	0
Total		67,748	67,748

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	86.47 %	63,773
Natural Gas	0.01 %	5
Nuclear	10.75 %	7,931
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	2.77 %	2,047
Total	100.00 %	73,756

BPA Claims

Fuel	MWh
Hydro	63,773
Natural Gas	5
Nuclear	7,931
SubTotal	71,709
BPA Unspecified Purchase	2,045
BPA Total	73,754

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	78.69 %	508,155
Natural Gas	0.01 %	40
Nuclear	9.79 %	63,194
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.03 %	185
Waste	0.00 %	0
Wind	8.95 %	57,799
Unspecified	2.53 %	16,308
Total	100.00 %	645,681

BPA Claims

Fuel	MWh
Hydro	508,155
Natural Gas	40
Nuclear	63,194
SubTotal	571,389
BPA Unspecified Purchase	16,307
BPA Total	587,696

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Condon Windpower LLC	Wind	1,030	1,030
Distributed Generation--Solar (WA)	Solar	185	185
FPL Energy Vansycle LLC (WA)	Wind	1,891	1,891
Klondike Wind Power	Wind	469	469
Klondike Windpower III	Wind	1,240	1,240
Nine Canyon	Wind	7,492	7,492
White Creek Wind Farm	Wind	45,677	45,677
Total		57,984	57,984

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	86.47 %	28,283
Natural Gas	0.01 %	2
Nuclear	10.75 %	3,517
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	2.77 %	908
Total	100.00 %	32,710

BPA Claims

Fuel	MWh
Hydro	28,283
Natural Gas	2
Nuclear	3,517
SubTotal	31,802
BPA Unspecified Purchase	907
BPA Total	32,709

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	86.47 %	49,161
Natural Gas	0.01 %	4
Nuclear	10.75 %	6,114
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	2.77 %	1,578
Total	100.00 %	56,857

BPA Claims

Fuel	MWh
Hydro	49,161
Natural Gas	4
Nuclear	6,114
SubTotal	55,279
BPA Unspecified Purchase	1,578
BPA Total	56,857

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	86.47 %	202,009
Natural Gas	0.01 %	16
Nuclear	10.75 %	25,122
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	2.77 %	6,483
Total	100.00 %	233,630

BPA Claims

Fuel	MWh
Hydro	202,009
Natural Gas	16
Nuclear	25,122
SubTotal	227,147
BPA Unspecified Purchase	6,483
BPA Total	233,630

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	86.47 %	57,197
Natural Gas	0.01 %	5
Nuclear	10.75 %	7,113
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	2.77 %	1,836
Total	100.00 %	66,151

BPA Claims

Fuel	MWh
Hydro	57,197
Natural Gas	5
Nuclear	7,113
SubTotal	64,315
BPA Unspecified Purchase	1,837
BPA Total	66,152

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	86.47 %	102
Natural Gas	0.01 %	0
Nuclear	10.75 %	13
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	2.77 %	3
Total	100.00 %	118

BPA Claims	
Fuel	MWh
Hydro	102
Nuclear	13
SubTotal	115
BPA Unspecified Purchase	3
BPA Total	118

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	86.47 %	75,361
Natural Gas	0.01 %	6
Nuclear	10.75 %	9,372
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	2.77 %	2,419
Total	100.00 %	87,158

BPA Claims

Fuel	MWh
Hydro	75,361
Natural Gas	6
Nuclear	9,372
SubTotal	84,739
BPA Unspecified Purchase	2,419
BPA Total	87,158

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	85.34 %	53,511
Natural Gas	0.01 %	4
Nuclear	10.61 %	6,655
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	4.04 %	2,534
Total	100.00 %	62,704

BPA Claims

Fuel	MWh
Hydro	53,511
Natural Gas	4
Nuclear	6,655
SubTotal	60,170
BPA Unspecified Purchase	1,716
BPA Total	61,886

Utility Unspecified Purchases

Type	MWh
Unspecified Purchase	817
Total	817

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	85.40 %	533,868
Natural Gas	0.00 %	25
Nuclear	6.38 %	39,853
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Waste	0.00 %	0
Wind	4.16 %	26,031
Unspecified	4.06 %	25,361
Total	100.00 %	625,138

BPA Claims

Fuel	MWh
Hydro	320,463
Natural Gas	25
Nuclear	39,853
SubTotal	360,341
BPA Unspecified Purchase	10,283
BPA Total	370,624

Utility Unspecified Purchases

Type	MWh
Unspecified Purchase	15,078
Total	15,078

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Nine Canyon	Wind	26,031	26,031
Wells	Water	213,404	213,404
Total		239,435	239,435

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	85.69 %	186,661
Natural Gas	0.01 %	15
Nuclear	10.66 %	23,213
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	3.64 %	7,934
Total	100.00 %	217,823

BPA Claims

Fuel	MWh
Hydro	186,661
Natural Gas	15
Nuclear	23,213
SubTotal	209,889
BPA Unspecified Purchase	5,990
BPA Total	215,879

Utility Unspecified Purchases

Type	MWh
Unspecified Purchase	1,942
Total	1,942

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	82.98 %	253,279
Natural Gas	0.01 %	20
Nuclear	10.32 %	31,498
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	6.69 %	20,434
Total	100.00 %	305,231

BPA Claims

Fuel	MWh
Hydro	253,279
Natural Gas	20
Nuclear	31,498
SubTotal	284,797
BPA Unspecified Purchase	8,128
BPA Total	292,925

Utility Unspecified Purchases

Type	MWh
Unspecified Purchase	12,307
Total	12,307

Pacific Power (WA)

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	0.00 %	0
Coal	41.35 %	1,802,792
Geothermal	0.00 %	0
Hydro	14.22 %	620,281
Natural Gas	14.52 %	633,445
Nuclear	0.38 %	16,752
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.04 %	1,588
Solar	0.00 %	0
Waste	0.00 %	0
Wind	4.77 %	208,107
Unspecified	24.72 %	1,078,242
Total	100.00 %	4,361,207

BPA Claims

Fuel	MWh
Hydro	134,709
Natural Gas	11
Nuclear	16,752
SubTotal	151,472
BPA Unspecified Purchase	4,324
BPA Total	155,796

Utility Unspecified Purchases

Type	MWh
Unspecified Purchase	1,073,919
Total	1,073,919

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Bend	Water	293	293
Campbell Hill Windpower	Wind	24,567	24,567
Chehalis Generating Facility	Distillate Fuel Oil	0	
	Natural Gas	345,496	345,496
Clearwater 1	Water	8,189	8,189
Clearwater 2	Water	7,468	7,468
Colstrip	Gaseous Propane	0	
	Subbituminous Coal	94,583	
	Waste/Other Oil	36	
	Distillate Fuel Oil	75	94,694
Copco 1	Water	14,948	14,948
Copco 2	Water	18,751	18,751
Dunlap	Wind	31,136	31,136
Eagle Point	Water	3,319	3,319
Fall Creek	Water	795	795
Fish Creek	Water	2,985	2,985
Glenrock	Wind	24,144	24,144
Goodnoe Hills	Wind	18,315	18,315
Hermiston Generating Plant	Natural Gas	287,938	287,938
Iron Gate	Water	17,996	17,996
Jim Bridger	Distillate Fuel Oil	1,477	
	Subbituminous Coal	1,708,209	1,709,686
John C Boyle	Water	38,926	38,926
Leaning Juniper	Wind	16,023	16,023

Lemolo 1	Water	23,695	23,695
Lemolo 2	Water	26,774	26,774
Marengo Wind Plant	Wind	39,794	39,794
Merwin	Water	91,098	91,098
Prospect 1	Water	2,450	2,450
Prospect 2	Water	39,874	39,874
Prospect 3	Water	4,502	4,502
Prospect 4	Water	514	514
Seven Mile Hill	Wind	11,844	11,844
Slide Creek	Water	11,501	11,501
Soda Springs	Water	8,920	8,920
Swift 1	Water	52,809	52,809
Toketee Falls	Water	39,447	39,447
Top of the World Windpower Project	Wind	42,284	42,284
Wallowa Falls	Water	943	943
Yale	Water	69,375	69,375
Total		3,131,493	3,131,493

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	86.47 %	100,856
Natural Gas	0.01 %	8
Nuclear	10.75 %	12,542
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	2.77 %	3,237
Total	100.00 %	116,643

BPA Claims

Fuel	MWh
Hydro	100,856
Natural Gas	8
Nuclear	12,542
SubTotal	113,406
BPA Unspecified Purchase	3,237
BPA Total	116,643

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	97.16 %	991,633
Natural Gas	0.00 %	15
Nuclear	2.26 %	23,030
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	0.58 %	5,943
Total	100.00 %	1,020,621

BPA Claims

Fuel	MWh
Hydro	185,190
Natural Gas	15
Nuclear	23,030
SubTotal	208,235
BPA Unspecified Purchase	5,943
BPA Total	214,178

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Boundary	Water	365,660	365,660
Box Canyon	Water	440,783	440,783
Total		806,443	806,443

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	79.82 %	481,323
Natural Gas	0.01 %	38
Nuclear	9.93 %	59,857
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Waste	0.00 %	0
Wind	7.68 %	46,333
Unspecified	2.56 %	15,447
Total	100.00 %	602,998

BPA Claims

Fuel	MWh
Hydro	481,323
Natural Gas	38
Nuclear	59,857
SubTotal	541,218
BPA Unspecified Purchase	15,447
BPA Total	556,665

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Condon Windpower LLC	Wind	919	919
FPL Energy Vansycle LLC (WA)	Wind	13,139	13,139
Harvest Wind Project	Wind	31,848	31,848
Klondike Wind Power	Wind	427	427
Total		46,333	46,333

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	86.47 %	238,757
Natural Gas	0.01 %	19
Nuclear	10.75 %	29,692
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	2.77 %	7,662
Total	100.00 %	276,130

BPA Claims

Fuel	MWh
Hydro	238,757
Natural Gas	19
Nuclear	29,692
SubTotal	268,468
BPA Unspecified Purchase	7,663
BPA Total	276,131

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	86.47 %	125,498
Natural Gas	0.01 %	10
Nuclear	10.75 %	15,607
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	2.77 %	4,028
Total	100.00 %	145,143

BPA Claims

Fuel	MWh
Hydro	125,498
Natural Gas	10
Nuclear	15,607
SubTotal	141,115
BPA Unspecified Purchase	4,029
BPA Total	145,144

Puget Sound Energy

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.14 %	31,708
Biomass	0.05 %	10,143
Coal	31.18 %	6,932,757
Geothermal	0.02 %	3,540
Hydro	22.29 %	4,956,252
Natural Gas	17.24 %	3,832,936
Nuclear	0.36 %	80,933
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.06 %	13,107
Solar	0.67 %	149,638
Waste	0.00 %	0
Wind	8.41 %	1,869,790
Unspecified	19.58 %	4,352,868
Total	100.00 %	22,233,672

BPA Claims

Fuel	MWh
Hydro	650,797
Natural Gas	51
Nuclear	80,933
SubTotal	731,781
BPA Unspecified Purchase	20,885
BPA Total	752,666

Utility Unspecified Purchases

Type	MWh
Unspecified Purchase	4,331,982
Total	4,331,982

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
American Falls Solar	Solar	1,287	1,287
American Falls Solar II	Solar	1,888	1,888
BC Solar	Solar	18,507	18,507
Black Cap Solar Plant	Solar	0	0
Black Creek	Water	10,926	10,926
Camp Reed	Wind	32,716	32,716
Colstrip	Subbituminous Coal	3,862,397	
	Gaseous Propane	0	
	Waste/Other Oil	1,480	
	Distillate Fuel Oil	3,048	3,866,925
Crystal Mountain	Distillate Fuel Oil	66	66
Distributed Generation--Biomass (WA)	Wood/Wood Waste Solids	10,143	10,143
Distributed Generation--Solar (WA)	Solar	77,481	77,481
Distributed Generation--Wind (WA)	Wind	25,000	25,000
Double A Digester	Other Biomass Gas	4,507	4,507
Electron	Water	125,864	125,864
Emerald City Renewables	Landfill Gas	5,000	5,000
Encogen	Natural Gas	184,889	
	Distillate Fuel Oil	0	184,889
Farm Power Lynden	Other Biomass Gas	4,752	4,752
Farm Power Rexville	Other Biomass Gas	5,121	5,121
Ferndale Generating Station	Natural Gas	607,622	
	Distillate Fuel Oil	2,589	610,211

Finley Buttes Landfill Gas	Landfill Gas	5,893	5,893
Frederickson	Distillate Fuel Oil	24	
	Natural Gas	27,578	27,602
Frederickson Power LP	Natural Gas	326,836	326,836
Fredonia	Natural Gas	118,462	
	Distillate Fuel Oil	1,154	119,616
Glenrock	Wind	2,000	2,000
Golden Valley Wind Park LLC	Wind	10,478	10,478
Goldendale Generating Station	Natural Gas	1,030,404	1,030,404
Goodnoe Hills	Wind	9,470	9,470
Granite Mountain Solar East, LLC	Solar	603	603
Hidden Hollow Energy	Landfill Gas	1,187	1,187
High Mesa	Wind	11,687	11,687
Hopkins Ridge Wind	Wind	253,264	253,264
Horse Butte Wind I, LLC	Wind	22,587	22,587
ID Solar	Solar	6,305	6,305
Klondike Windpower III	Wind	42,892	42,892
Koma Kulshan Associates	Water	38,735	38,735
Lime Wind	Wind	3,793	3,793
Lower Baker	Water	325,538	325,538
Lower Snake River Wind Energy Project	Wind	723,003	723,003
Marengo Wind Plant	Wind	18,547	18,547
Meadow Creek Project Company	Wind	22	22
Mint Farm Generating Station	Natural Gas	1,259,325	1,259,325
Murphy Flat Solar	Solar	10,087	10,087
Neal Hot Springs Geothermal Project	Geothermal	3,540	3,540
Nine Canyon	Wind	18,028	18,028
Nooksack Hydro	Water	26,542	26,542
Orchard Ranch Solar	Solar	11,273	11,273
Oregon Trail Wind Park	Wind	7,911	7,911
Priest Rapids	Water	23,708	23,708
Rock Creek Dairy	Other Biomass Gas	2,573	2,573
Rock Island	Water	640,750	640,750
Rockland Wind Farm	Wind	19,954	19,954
Rocky Reach	Water	1,433,113	1,433,113
Simcoe Solar	Solar	11,136	11,136
Skookumchuck	Water	3,031	3,031
Smith Creek (Whatcom County, WA)	Water	127	127
Snoqualmie	Water	62,389	62,389
Snoqualmie 2	Water	115,317	115,317
South Mills Solar, LLC	Solar	596	596
Sumas Power Plant	Natural Gas	251,477	251,477
Swauk Wind LLC	Wind	11,754	11,754
Sygitowicz Creek	Water	644	644
Transalta Centralia Generation	Subbituminous Coal	0	
	Waste/Other Coal	5,145	
	Distillate Fuel Oil	4,651	
	Refined Coal	3,065,215	3,075,011
Tuana Gulch Wind Park	Wind	10,964	10,964
Twin Falls Hydro	Water	72,115	72,115
Upper Baker	Water	308,425	308,425

Utah Red Hills Renewable Energy Park	Solar	10,015	10,015
Van Dyk -S Holsteins	Other Biomass Gas	1,947	1,947
Vanderhaak Dairy Digester	Other Biomass Gas	728	728
Wanapum	Water	24,634	24,634
Weeks Falls	Water	13,468	13,468
Wells	Water	1,080,129	1,080,129
White Creek Wind Farm	Wind	43,599	43,599
Whitehorn	Natural Gas	26,291	
	Distillate Fuel Oil	95	26,386
Wild Horse	Wind	602,121	
	Solar	460	602,581
Total		17,149,022	17,149,022

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	86.47 %	821,186
Natural Gas	0.01 %	65
Nuclear	10.75 %	102,123
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	2.77 %	26,354
Total	100.00 %	949,728

BPA Claims

Fuel	MWh
Hydro	821,186
Natural Gas	65
Nuclear	102,123
SubTotal	923,374
BPA Unspecified Purchase	26,355
BPA Total	949,729

Ruston, Town of

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	1.67 %	127
Coal	0.00 %	0
Geothermal	0.00 %	0
Hydro	84.98 %	6,471
Natural Gas	0.00 %	0
Nuclear	6.12 %	466
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.60 %	45
Waste	0.00 %	0
Wind	5.05 %	384
Unspecified	1.58 %	120
Total	100.00 %	7,613

BPA Claims

Fuel	MWh
Hydro	3,748
Nuclear	466
SubTotal	4,214
BPA Unspecified Purchase	121
BPA Total	4,335

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Alder	Water	208	208
Bennett Creek Windfarm LLC - Mountain Home	Wind	51	51
Burley Butte Windpark	Wind	76	76
Condon Windpower LLC	Wind	8	8
Cushman 1	Water	116	116
Cushman 2	Water	185	185
Distributed Generation--Solar (WA)	Solar	1	1
FPL Energy Vansycle LLC (WA)	Wind	15	15
Grand Coulee Project Hydro Authority	Water	243	243
Hood Street Reservoir	Water	3	3
Hot Springs Windfarm LLC	Solar	45	45
Klondike Wind Power	Wind	4	4
Klondike Windpower III	Wind	10	10
LaGrande	Water	335	335
Mayfield	Water	652	652
Milner Dam Wind Park LLC	Wind	77	77
Mossyrock	Water	927	927
Nine Canyon	Wind	31	31
Pilgrim Stage Wind Park	Wind	47	47
Power County Wind Park North	Wind	44	44
Power County Wind Park South	Wind	22	22
Priest Rapids	Water	13	13
Sierra Pacific Aberdeen	Wood/Wood Waste Solids	127	127
Wanapum	Water	15	15

Wynoochee	Water	26	26
Total		3,281	3,281

Seattle City Light

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	1.16 %	111,716
Biomass	0.00 %	0
Coal	0.00 %	0
Geothermal	0.00 %	0
Hydro	85.87 %	8,283,994
Natural Gas	0.00 %	296
Nuclear	4.84 %	467,128
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Waste	0.00 %	0
Wind	6.77 %	652,970
Unspecified	1.36 %	131,483
Total	100.00 %	9,647,587

BPA Claims

Fuel	MWh
Hydro	3,756,259
Natural Gas	296
Nuclear	467,128
SubTotal	4,223,683
BPA Unspecified Purchase	120,547
BPA Total	4,344,230

Utility Unspecified Purchases

Type	MWh
Unspecified Purchase	10,935
Total	10,935

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Bonneville	Water	5,281	5,281
Boundary	Water	2,102,336	2,102,336
Cedar Falls (WA)	Water	68,844	68,844
Chief Joseph	Water	14,893	14,893
Condon Windpower LLC	Wind	7,125	7,125
Cougar	Water	232	232
Diablo	Water	494,735	494,735
Eltopia Branch Canal 4.6	Water	3,144	3,144
Foote Creek I	Wind	4,220	4,220
FPL Energy Vansycle LLC (OR)	Wind	282,662	282,662
FPL Energy Vansycle LLC (WA)	Wind	346,685	346,685
Gorge	Water	749,119	749,119
Grand Coulee	Water	32,420	32,420
High Ross Treaty	Water	255,291	255,291
Klondike Wind Power	Wind	3,305	3,305
Klondike Windpower III	Wind	8,973	8,973
Lookout Point	Water	775	775
Main Canal Headworks	Water	39,094	39,094
Newhalem	Water	1,343	1,343
Potholes East Canal 66.0	Water	1,673	1,673
Priest Rapids	Water	20,376	20,376
Ross	Water	544,927	544,927
Russell D Smith	Water	5,160	5,160
South Fork Tolt	Water	46,139	46,139

Summer Falls Power Plant	Water	141,953	141,953
Waste Management Columbia Ridge LFGTE	Landfill Gas	102,438	102,438
West Point Treatment Plant	Natural Gas	0	
	Other Biomass Gas	9,278	9,278
Total		5,292,421	5,292,421

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	86.47 %	117,346
Natural Gas	0.01 %	9
Nuclear	10.75 %	14,593
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	2.77 %	3,766
Total	100.00 %	135,714

BPA Claims

Fuel	MWh
Hydro	117,346
Natural Gas	9
Nuclear	14,593
SubTotal	131,948
BPA Unspecified Purchase	3,766
BPA Total	135,714

Snohomish County PUD #1

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.15 %	10,206
Biomass	0.55 %	36,548
Coal	0.00 %	0
Geothermal	0.00 %	0
Hydro	79.51 %	5,295,047
Natural Gas	0.01 %	417
Nuclear	9.88 %	658,309
Other Biogenic	0.07 %	4,864
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.23 %	15,536
Waste	0.00 %	0
Wind	7.05 %	469,212
Unspecified	2.55 %	169,885
Total	100.00 %	6,660,024

BPA Claims

Fuel	MWh
Hydro	5,293,585
Natural Gas	417
Nuclear	658,309
SubTotal	5,952,311
BPA Unspecified Purchase	169,885
BPA Total	6,122,196

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Distributed generation - solar (WA)	Solar	15,536	15,536
Hampton Lumber Mill	Wood/Wood Waste Solids	35,328	35,328
Hay Canyon Wind Power LLC	Wind	185,648	185,648
Hidden Hollow Energy	Landfill Gas	10,206	10,206
Klondike Windpower III	Wind	1,403	1,403
Payne's Ferry	Wind	35,856	35,856
Qualco Energy	Other Biomass Solids	4,864	4,864
Salmon Falls Wind Park	Wind	5,574	5,574
Seneca Sustainable Energy LLC	Wood/Wood Waste Solids	1,220	1,220
Thousand Springs Wind Park	Wind	8,612	8,612
Wheat Field Wind Power Project	Wind	180,246	180,246
White Creek Wind Farm	Wind	45,748	45,748
Woods Creek	Water	1,462	1,462
Yahoo Creek	Wind	6,125	6,125
Total		537,828	537,828

Solar City (WA)

Utility Fuel Mix

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

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	86.47 %	33,746
Natural Gas	0.01 %	3
Nuclear	10.75 %	4,197
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	2.77 %	1,083
Total	100.00 %	39,029

BPA Claims

Fuel	MWh
Hydro	33,746
Natural Gas	3
Nuclear	4,197
SubTotal	37,946
BPA Unspecified Purchase	1,082
BPA Total	39,028

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	86.47 %	28,422
Natural Gas	0.01 %	2
Nuclear	10.75 %	3,535
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	2.77 %	912
Total	100.00 %	32,871

BPA Claims

Fuel	MWh
Hydro	28,422
Natural Gas	2
Nuclear	3,535
SubTotal	31,959
BPA Unspecified Purchase	912
BPA Total	32,871

Tacoma Power

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	1.67 %	81,157
Coal	0.00 %	0
Geothermal	0.00 %	0
Hydro	84.98 %	4,128,190
Natural Gas	0.00 %	188
Nuclear	6.12 %	297,299
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.01 %	358
Waste	0.00 %	0
Wind	5.64 %	273,823
Unspecified	1.58 %	76,722
Total	100.00 %	4,857,737

BPA Claims

Fuel	MWh
Hydro	2,390,634
Natural Gas	188
Nuclear	297,299
SubTotal	2,688,121
BPA Unspecified Purchase	76,721
BPA Total	2,764,842

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Alder	Water	132,788	132,788
Bennett Creek Windfarm LLC - Mountain Home	Wind	32,582	32,582
Burley Butte Windpark	Wind	48,177	48,177
Condon Windpower LLC	Wind	5,171	5,171
Cushman 1	Water	73,999	73,999
Cushman 2	Water	118,132	118,132
Distributed Generation--Solar (WA)	Solar	358	358
FPL Energy Vansycle LLC (WA)	Wind	9,513	9,513
Grand Coulee Project Hydro Authority	Water	154,992	154,992
Hood Street Reservoir	Water	1,858	1,858
Klondike Wind Power	Wind	2,369	2,369
Klondike Windpower III	Wind	6,245	6,245
LaGrande	Water	213,944	213,944
Mayfield	Water	415,724	415,724
Milner Dam Wind Park LLC	Wind	49,228	49,228
Mossyrock	Water	591,332	591,332
Mountain Home	Wind	28,624	28,624
Nine Canyon	Wind	19,792	19,792
Pilgrim Stage Wind Park	Wind	30,097	30,097
Power County Wind Park North	Wind	28,049	28,049
Power County Wind Park South	Wind	13,976	13,976
Priest Rapids	Water	8,563	8,563
Sierra Pacific Aberdeen	Wood/Wood Waste Solids	81,157	81,157

Wanapum	Water	9,473	9,473
Wynoochee	Water	16,751	16,751
Total		2,092,894	2,092,894

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	86.47 %	82,359
Natural Gas	0.01 %	6
Nuclear	10.75 %	10,242
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	2.77 %	2,643
Total	100.00 %	95,250

BPA Claims

Fuel	MWh
Hydro	82,359
Natural Gas	6
Nuclear	10,242
SubTotal	92,607
BPA Unspecified Purchase	2,643
BPA Total	95,250

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	78.76 %	180,208
Natural Gas	0.01 %	14
Nuclear	9.79 %	22,411
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	11.44 %	26,168
Total	100.00 %	228,801

BPA Claims

Fuel	MWh
Hydro	180,208
Natural Gas	14
Nuclear	22,411
SubTotal	202,633
BPA Unspecified Purchase	5,784
BPA Total	208,417

Utility Unspecified Purchases

Type	MWh
Unspecified Purchase	20,385
Total	20,385

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	86.47 %	37,106
Natural Gas	0.01 %	3
Nuclear	10.75 %	4,614
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	2.77 %	1,191
Total	100.00 %	42,914

BPA Claims

Fuel	MWh
Hydro	37,106
Natural Gas	3
Nuclear	4,614
SubTotal	41,723
BPA Unspecified Purchase	1,190
BPA Total	42,913

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	86.47 %	201,615
Natural Gas	0.01 %	16
Nuclear	10.75 %	25,073
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	2.77 %	6,470
Total	100.00 %	233,174

BPA Claims

Fuel	MWh
Hydro	201,615
Natural Gas	16
Nuclear	25,073
SubTotal	226,704
BPA Unspecified Purchase	6,471
BPA Total	233,175

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	86.47 %	127,871
Natural Gas	0.01 %	10
Nuclear	10.75 %	15,902
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	2.77 %	4,104
Total	100.00 %	147,887

BPA Claims

Fuel	MWh
Hydro	127,871
Natural Gas	10
Nuclear	15,902
SubTotal	143,783
BPA Unspecified Purchase	4,104
BPA Total	147,887

Need footnote for 2016 report