

Washington Electric Utility 2019 Fuel Mix Disclosure Report



Department of Commerce

For Calendar Year 2018

Update July 2023

Michael Fong, Director

Acknowledgements

Washington State Department of Commerce
Energy Policy Office

Austin Scharff, Energy Policy Specialist
Glenn Blackmon, Manager, Energy Policy Office
Greg Nothstein, Research and Data Specialist
Carolee Sharp, Editor

WASHINGTON ENERGY OFFICE

1011 Plum St. SE
P.O. Box 42525
Olympia, WA 98504-2525

www.commerce.wa.gov

For people with disabilities, this report is available
on request in other formats. To submit a request,
please call 360.725.4000 (TTY 360.586.0772)

Table of Contents

Forward	2
About Fuel Mix.....	3
Graphs and tables	5
Northwest Power Pool Fuel Mix.....	11

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 customers. 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 Fuel Mix

[RCW 19.29A](#) requires Washington electric utilities report to customers the sources of power used 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. 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 this process is to inform customers and policy makers about the characteristics of the electricity delivered by each utility to consumers and businesses. Most utilities use electricity from multiple sources, even if they operate their own power plants. In some cases, utilities obtain power without knowing the specific generation source. Power in Washington comes from three sources: Specific power plants, the Bonneville Power Administration (BPA), and unspecified power purchases. 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.

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). [RCW 19.29A](#) requires that a utility have documentation of ownership or contractual rights from a specific generating facility 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.

Post-2019 reports

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 was a new category on the disclosure label for “unspecified sources.” Utilities sometimes purchase electricity without requiring that the seller identify the source of that electricity. For example, power transactions to balance supply and demand on an hour-by-hour basis are typically unspecified. Prior to the 2019 change the law had required that Commerce assign fuel shares to this power. Instead, unknown sources are now listed as a separate category.

What is the source of information for this report?

The primary source of information in this publication is the reports of individual utilities of the source and disposition of electricity supplies. A secondary source is the U.S. Energy Information Administration (EIA) report of 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 historical 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.

Graphs and tables

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 2021. Hydropower (57.34%) is the largest primary fuel used to produce electricity in the state. Unspecified power is the second largest category (12.72%), followed by coal (10.90%) and natural gas (8.37%). Table 1 lists the electricity fuel sources by MWh and percent.

Figure 1: 2018 Aggregate Fuel Mix for Washington Electric Utilities

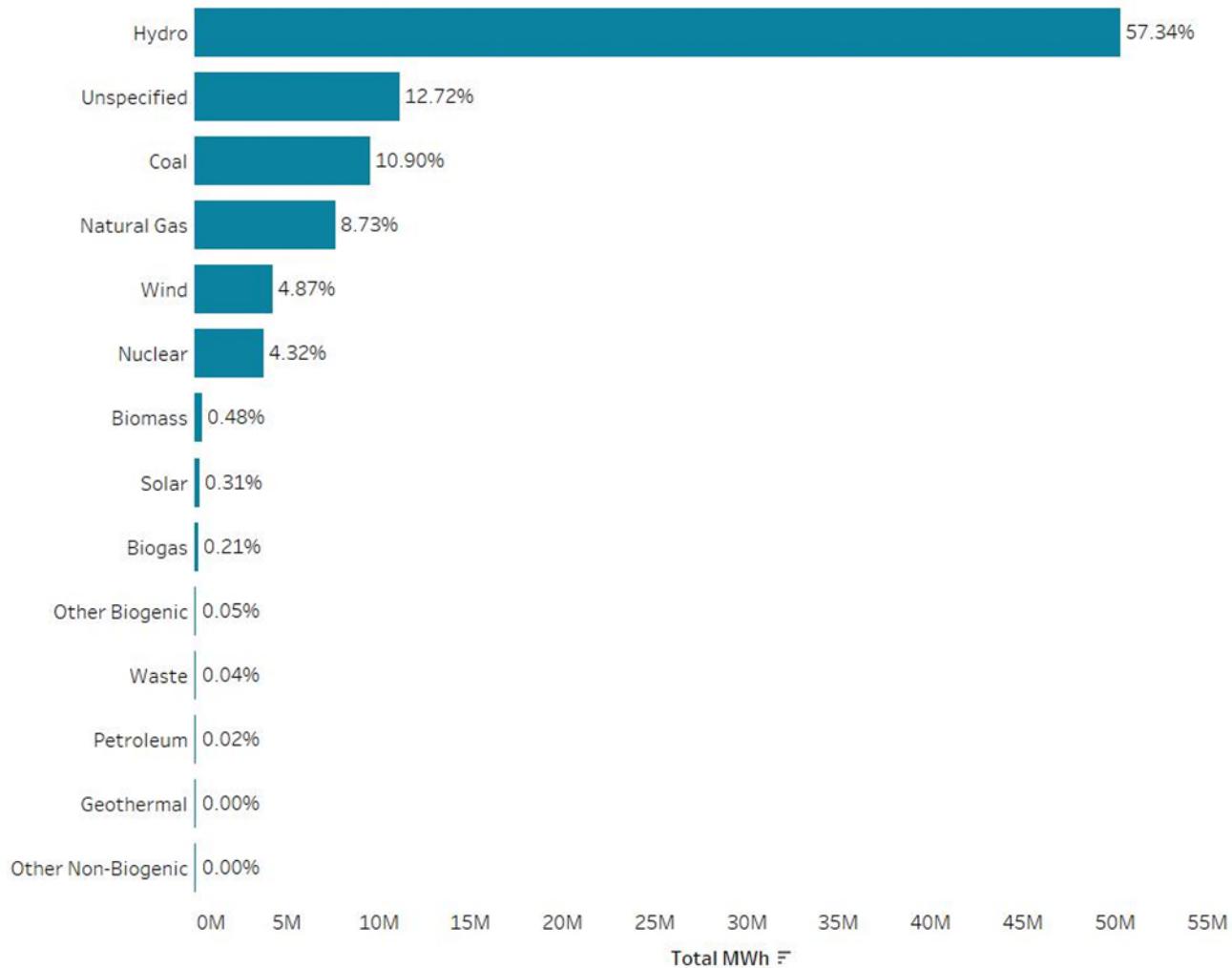
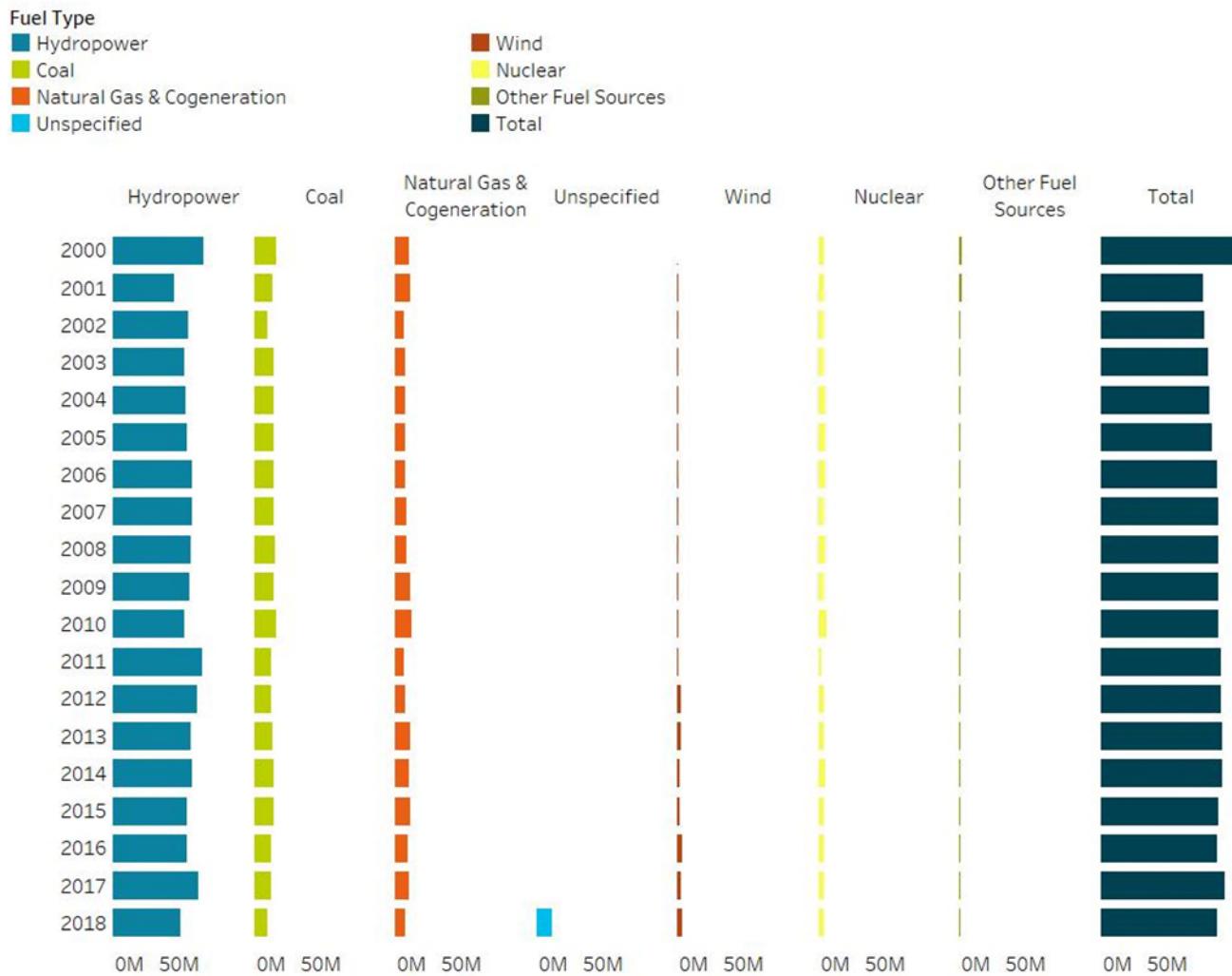


Table 1: 2018 Aggregate Fuel Mix Washington State Electric Utilities

Fuel Type	Total Electric Power MWh	Share of total
Hydro	50,289,183	57.34%
Unspecified	11,157,787	12.72%
Coal	9,556,048	10.90%
Natural Gas	7,654,899	8.73%
Wind	4,274,696	4.87%
Nuclear	3,790,590	4.32%
Biomass	417,963	0.48%
Solar	272,611	0.31%
Biogas	184,859	0.21%
Other Biogenic	42,931	0.05%
Waste	35,627	0.04%
Petroleum	15,854	0.02%
Geothermal	3,540	0.00%

Figure 2: Aggregate Fuel Mix Time Series (MWh) for Washington Electric Utilities¹



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: Aggregate Fuel Mix Time Series (MWh) for Washington Electric Utilities

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Hydropower	67,890K	45,853K	56,340K	53,850K	54,132K	55,342K	59,610K	59,204K	58,236K	57,215K	53,412K
Natural Gas	5,344K	5,909K	2,634K	4,371K	4,662K	5,325K	4,553K	6,302K	7,386K	9,979K	10,476K
Unspecified											
Coal	16,243K	13,248K	10,076K	14,336K	14,459K	14,860K	14,245K	14,867K	15,035K	14,673K	15,955K
Wind		24K	163K	321K	346K	433K	867K	546K	1,011K	588K	567K
Nuclear	4,286K	3,975K	3,859K	3,726K	4,591K	4,404K	4,513K	4,326K	5,084K	3,654K	5,431K
Biomass	1,100K	938K	392K	435K	537K	587K	393K	461K	415K	445K	492K
Solar											
Landfill Gas	69K	71K	221K	75K	134K	81K	58K	49K	23K	16K	19K
Waste	160K	237K	23K	139K	103K	151K	332K	289K	277K	296K	333K
Other	0K	0K	234K	7K	37K	31K	11K	13K	19K	29K	29K
Geothermal	143K	159K	0K	0K	0K	0K	14K	11K	17K	19K	17K
Petroleum	401K	490K	22K	35K	53K	44K	62K	69K	70K	94K	81K
Cogeneration	5,428K	5,955K	3,972K	3,590K	2,717K	2,661K	2,767K	2,157K	1,635K	1,867K	1,732K
Total	101,065K	76,857K	77,937K	80,886K	81,772K	83,919K	87,425K	88,294K	89,207K	88,876K	88,544K
	2011	2012	2013	2014	2015	2016	2017	2018			
Hydropower	66,847K	62,985K	58,074K	59,724K	55,307K	55,698K	63,645K	50,289K			
Natural Gas	5,684K	6,953K	10,823K	9,516K	11,808K	9,937K	10,182K	7,655K			
Unspecified								11,158K			
Coal	12,901K	12,149K	13,520K	14,027K	14,389K	12,800K	12,593K	9,556K			
Wind	1,018K	3,011K	2,859K	2,220K	2,029K	3,661K	2,674K	4,275K			
Nuclear	2,390K	4,239K	4,248K	4,617K	4,022K	4,309K	3,942K	3,791K			
Biomass	447K	311K	261K	300K	401K	676K	562K	418K			
Solar		1K	2K	7K	9K	3K	3K	273K			
Landfill Gas	49K	84K	61K	104K	133K	148K	122K	185K			
Waste	337K	303K	222K	204K	36K	37K	35K	36K			
Other	27K	36K	40K	60K	123K	122K	172K	43K			
Geothermal	18K	17K	16K	18K	16K	0K	0K	4K			
Petroleum	69K	68K	65K	60K	47K	62K	103K	16K			
Cogeneration	1,319K	487K	1,127K	927K							
Total	91,106K	90,644K	91,317K	91,783K	88,320K	87,453K	94,033K	87,697K			

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 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's electric sector carbon dioxide emissions. Figure 4 illustrates historical aggregate CO₂ emissions for the electric sector.

Table 3: 2018 Aggregate CO₂ Emissions by Fuel Type for Washington Electric Utilities

Carbon Dioxide Emissions	Short tons	Metric Tons
Coal	14,461,513	13,122,970
Natural gas	4,617,570	4,190,172
Waste	105,531	95,763
Other	81,564	74,015
Landfill gas	100,318	91,032
Petroleum	20,082	18,223
Total	19,386,580	17,592,178

Other emissions	Short tons	Metric Tons
Sulfur dioxide	34,219	31,051
Nitrogen oxides	31,221	28,332
Mercury (not measured in tons)	307 pounds	

Figure 3: 2018 Aggregate CO2 Emissions by Fuel Type for Washington Electric Utilities

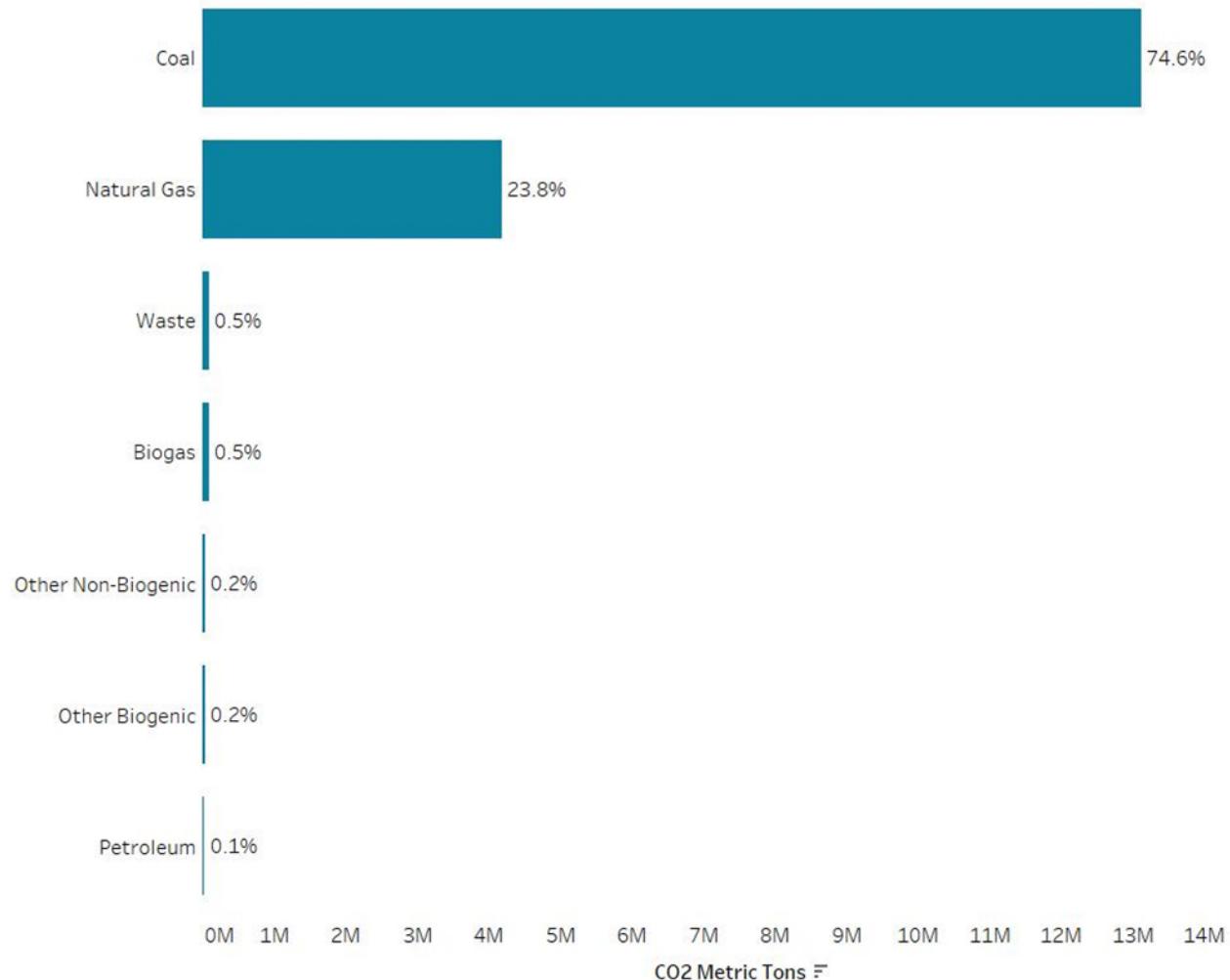
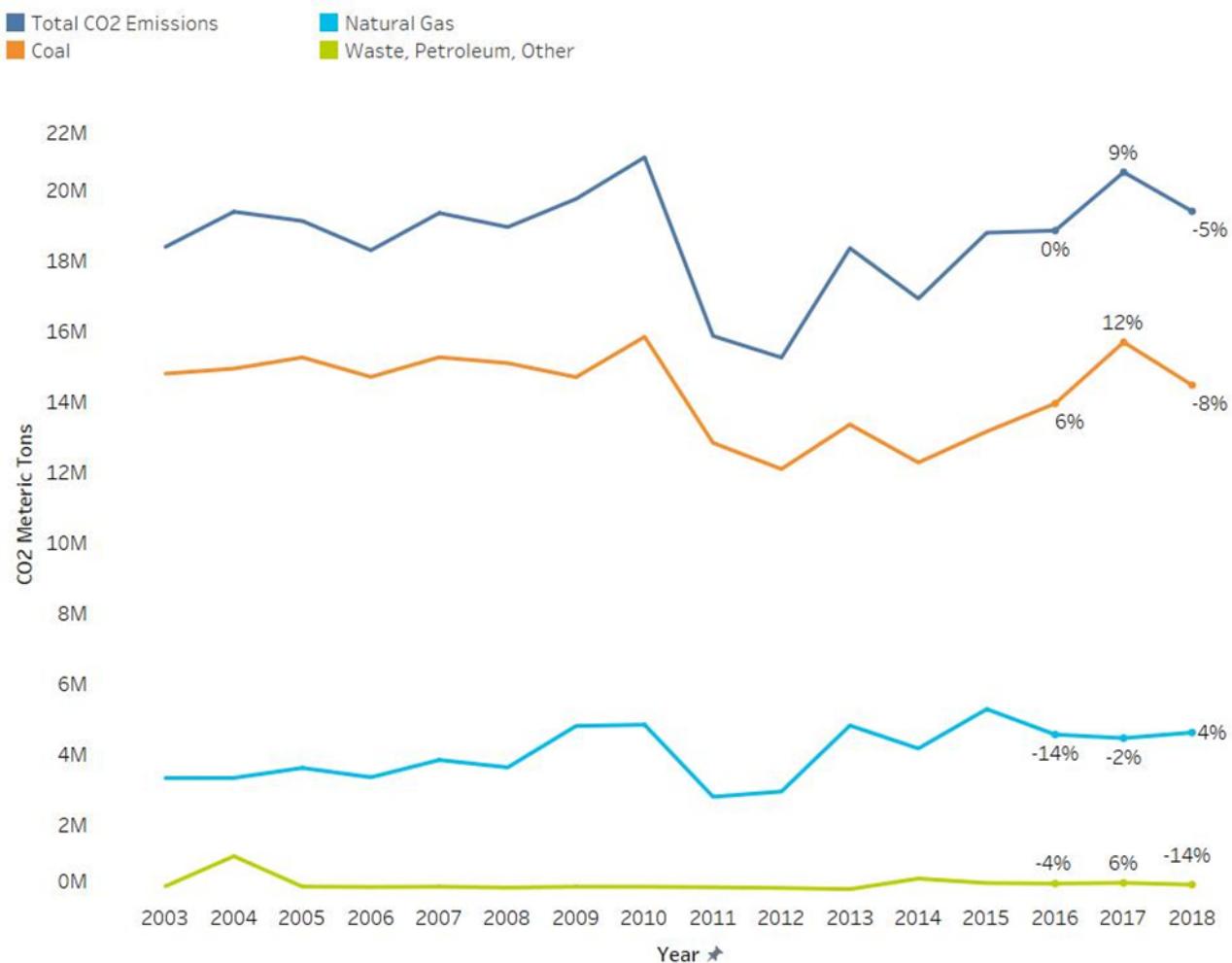


Figure 4: Aggregate CO₂ Emissions Time Series by Fuel Type for Washington Electric Utilities



Northwest Power Pool Fuel Mix

The Northwest Power Pool Fuel Mix for 2018 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 46.06%, followed by coal (22.97%) and natural gas (15.24%).

Figure 5: 2018 Northwest Power Pool Generation

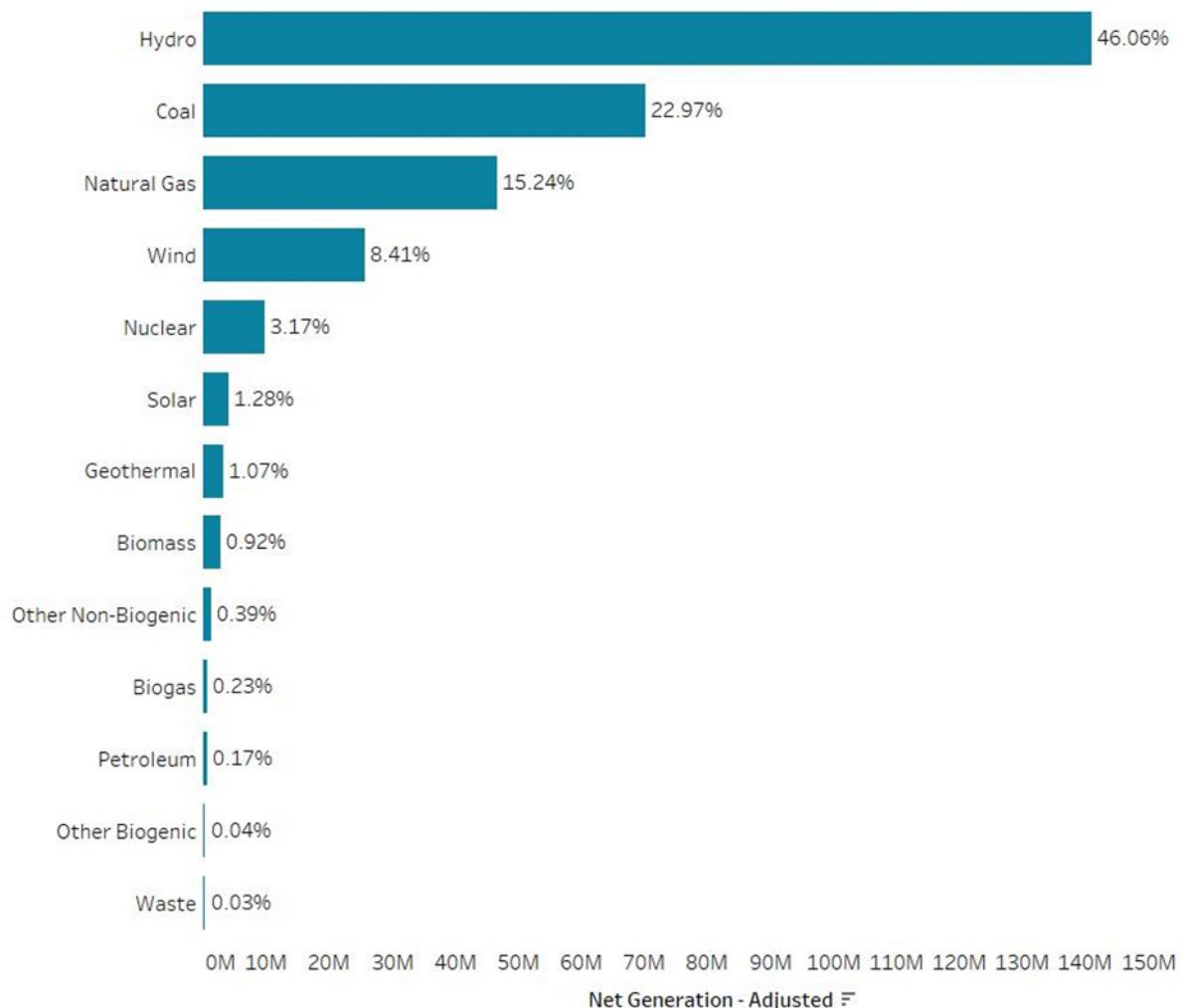


Table 4: 2018 Northwest Power Pool Generation by Fuel Category²

Fuel Category	Net Generation MWh	Fuel Category Share
Hydro	140,913,979	46.06%
Coal	70,264,317	22.97%
Natural Gas	46,638,493	15.24%
Wind	25,728,079	8.41%
Nuclear	9,708,441	3.17%
Solar	3,925,706	1.28%
Geothermal	3,265,943	1.07%
Biomass	2,814,476	0.92%
Other Non-Biogenic	1,201,810	0.39%
Biogas	706,698	0.23%
Petroleum	535,001	0.17%
Other Biogenic	136,355	0.04%
Waste	95,049	0.03%
Total	305,934,347	100%

² 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 illustrates carbon dioxide emissions associated with electric power generation in the Northwest Power Pool in 2018. Coal fired electricity generation is the primary source of emissions.

Table 5: 2018 Northwest Power Pool Emissions by Fuel Type

Fuel	CO2 emissions: Short tons	CO2 emissions: Metric tons
Coal	89,095,154	80,818,610
Natural gas	21,826,815	19,794,302
Other	1,378,310	1,250,544
Petroleum	690,151	626,290
Total	112,990,430	102,489,747

Table 6 illustrates the Northwest Power Pool Net System Mix for 2018. 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 (43.67%), followed by coal (26.41%) and natural gas (23.86%). Commerce no longer uses the residual mix in estimating Washington utility fuel mix but presents the information for other potential uses.

Table 6: 2018 Northwest Power Pool Net System Fuel Mix by Fuel Category

Fuel Type	Net Generation (MWh)	Fuel Category Share	Imputed NSM emissions (Short tons)
Hydro	39,723,514	43.67%	
Coal	24,025,111	26.41%	30,463,841
Natural Gas	21,704,481	23.86%	9,211,813
Nuclear	2,141,391	2.35%	
Biomass	2,108,414	2.32%	
Other Non-Biogenic	1,186,305	1.30%	1,108,627
Petroleum	56,511	0.06%	66,154
Waste	11,412	0.01%	32,952
Total	90,957,139	100.00%	40,833,387

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	86.54 %	4,415
Natural Gas	0.01 %	0
Nuclear	10.69 %	545
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	2.76 %	141
Total	100.00 %	5,101

BPA Claims	
Fuel	MWh
Hydro	4,415
Nuclear	545
SubTotal	4,960
BPA Unspecified Purchase	140
BPA Total	5,100

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	86.54 %	3,628
Natural Gas	0.01 %	0
Nuclear	10.69 %	448
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	2.76 %	116
Total	100.00 %	4,192

BPA Claims

Fuel	MWh
Hydro	3,628
Nuclear	448
SubTotal	4,076
BPA Unspecified Purchase	118
BPA Total	4,194

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	4.35 %	1,428
Natural Gas	2.58 %	847
Nuclear	0.00 %	0
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	28.15 %	9,251
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	58.96 %	19,379
Unspecified	5.96 %	1,960
Total	100.00 %	32,865

Utility Unspecified Purchases

Type	MWh
Unspecified Purchase	1,959
Total	1,959

Claims on Power Plants

Plant Name	Fuel	MWh	Total MWh
Big Horn Wind II	Wind	1,131	1,131
Big Horn Wind Project	Wind	230	230
Gala Solar	Solar	9,251	9,251
Juniper Canyon I Wind Project	Wind	20	20
Klamath Cogeneration Plant	Natural Gas	847	847
Klondike Windpower II	Wind	14,380	14,380
Klondike Windpower III	Wind	3,587	3,587
Leaning Juniper Wind Power II	Wind	31	31
Priest Rapids	Water	1,428	1,428
Total		30,905	30,905

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
Unknown	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	
	Distillate Fuel Oil	646	
	Gaseous Propane	0	
	Waste/Other Oil	314	819,210
Coyote Springs II	Natural Gas	881,816	881,816
Kettle Falls Generating Station	Natural Gas	4,179	
	Wood/Wood Waste Solids	168,173	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	79.62 %	1,427,496
Natural Gas	0.52 %	9,353
Nuclear	9.75 %	174,844
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	5.25 %	94,105
Unspecified	3.12 %	55,917
Total	100.00 %	1,792,944

BPA Claims	
Fuel	MWh
Hydro	1,415,368
Natural Gas	111
Nuclear	174,844
SubTotal	1,590,323
BPA Unspecified Purchase	45,122
BPA Total	1,635,445

Utility Unspecified Purchases	
Type	MWh
Unspecified Purchase	10,794
Total	10,794

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	76.04 %	430,614
Natural Gas	0.01 %	34
Nuclear	9.39 %	53,195
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	14.56 %	82,470
Total	100.00 %	566,313

BPA Claims	
Fuel	MWh
Hydro	430,614
Natural Gas	34
Nuclear	53,195
SubTotal	483,843
BPA Unspecified Purchase	13,727
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	83.58 %	480,683
Natural Gas	0.01 %	38
Nuclear	10.32 %	59,380
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	6.09 %	35,053
Total	100.00 %	575,154

BPA Claims	
Fuel	MWh
Hydro	480,683
Natural Gas	38
Nuclear	59,380
SubTotal	540,101
BPA Unspecified Purchase	15,324
BPA Total	555,425

Utility Unspecified Purchases	
Type	MWh
Unspecified Purchase	19,729
Total	19,729

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	88.11 %	238,701
Natural Gas	0.00 %	13
Nuclear	7.53 %	20,392
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	4.36 %	11,814
Total	100.00 %	270,920

BPA Claims

Fuel	MWh
Hydro	165,076
Natural Gas	13
Nuclear	20,392
SubTotal	185,481
BPA Unspecified Purchase	5,263
BPA Total	190,744

Utility Unspecified Purchases

Type	MWh
Unspecified Purchase	6,551
Total	6,551

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
Unknown	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	70,470
Total	70,470

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	80.79 %	124,729
Natural Gas	0.01 %	10
Nuclear	9.98 %	15,408
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	9.22 %	14,226
Total	100.00 %	154,373

BPA Claims

Fuel	MWh
Hydro	124,729
Natural Gas	10
Nuclear	15,408
SubTotal	140,147
BPA Unspecified Purchase	3,976
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	86.54 %	18,351
Natural Gas	0.01 %	1
Nuclear	10.69 %	2,267
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	2.76 %	585
Total	100.00 %	21,204

BPA Claims	
Fuel	MWh
Hydro	18,351
Natural Gas	1
Nuclear	2,267
SubTotal	20,619
BPA Unspecified Purchase	587
BPA Total	21,206

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	86.54 %	70,502
Natural Gas	0.01 %	6
Nuclear	10.69 %	8,709
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	2.76 %	2,248
Total	100.00 %	81,465

BPA Claims

Fuel	MWh
Hydro	70,502
Natural Gas	6
Nuclear	8,709
SubTotal	79,217
BPA Unspecified Purchase	2,247
BPA Total	81,464

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	86.73 %	575,193
Natural Gas	0.01 %	45
Nuclear	10.54 %	69,925
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	2.72 %	18,046
Total	100.00 %	663,209

BPA Claims

Fuel	MWh
Hydro	566,046
Natural Gas	45
Nuclear	69,925
SubTotal	636,016
BPA Unspecified Purchase	18,047
BPA Total	654,063

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	57.17 %	2,677,790
Natural Gas	25.47 %	1,192,802
Nuclear	7.02 %	328,867
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	10.34 %	484,162
Total	100.00 %	4,683,621

BPA Claims	
Fuel	MWh
Hydro	2,662,194
Natural Gas	209
Nuclear	328,867
SubTotal	2,991,270
BPA Unspecified Purchase	84,870
BPA Total	3,076,140

Utility Unspecified Purchases	
Type	MWh
Unspecified Purchase	399,292
Total	399,292

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	86.54 %	19,472
Natural Gas	0.01 %	2
Nuclear	10.69 %	2,405
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	2.76 %	621
Total	100.00 %	22,500

BPA Claims	
Fuel	MWh
Hydro	19,472
Natural Gas	2
Nuclear	2,405
SubTotal	21,879
BPA Unspecified Purchase	620
BPA Total	22,499

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	82.52 %	310,709
Natural Gas	0.01 %	24
Nuclear	10.19 %	38,383
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	7.28 %	27,425
Total	100.00 %	376,541

BPA Claims	
Fuel	MWh
Hydro	310,709
Natural Gas	24
Nuclear	38,383
SubTotal	349,116
BPA Unspecified Purchase	9,906
BPA Total	359,022

Utility Unspecified Purchases	
Type	MWh
Unspecified Purchase	17,521
Total	17,521

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	86.54 %	14,582
Natural Gas	0.01 %	1
Nuclear	10.69 %	1,801
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	2.76 %	465
Total	100.00 %	16,849

BPA Claims

Fuel	MWh
Hydro	14,582
Natural Gas	1
Nuclear	1,801
SubTotal	16,384
BPA Unspecified Purchase	465
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	65.90 %	3,229,115
Natural Gas	0.19 %	9,540
Nuclear	7.74 %	379,243
Other Biogenic	0.02 %	985
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	180
Solar	1.99 %	97,642
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	5.61 %	274,747
Unspecified	16.96 %	831,255
Total	100.00 %	4,900,203

BPA Claims	
Fuel	MWh
Hydro	3,069,995
Natural Gas	241
Nuclear	379,243
SubTotal	3,449,479
BPA Unspecified Purchase	97,872
BPA Total	3,547,351

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	Black Liquor	42,334	
	Wood/Wood Waste Solids	11,505	
	Natural Gas	6,079	59,918
Murphy Flat Solar	Solar	15,321	15,321
Nine Canyon	Wind	4,506	4,506
Nippon Dynawave Packaging	Subbituminous Coal	2,249	
Longview WA	Distillate Fuel Oil	11	
	Black Liquor	16,734	
	Natural Gas	3,220	
	Sludge Waste	985	
	Residual Fuel Oil	169	
	Wood/Wood Waste Solids	4,674	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
Unknown	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	86.54 %	23,934
Natural Gas	0.01 %	2
Nuclear	10.69 %	2,957
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	2.76 %	763
Total	100.00 %	27,656

BPA Claims

Fuel	MWh
Hydro	23,934
Natural Gas	2
Nuclear	2,957
SubTotal	26,893
BPA Unspecified Purchase	763
BPA Total	27,656

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	86.54 %	182,166
Natural Gas	0.01 %	14
Nuclear	10.69 %	22,503
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	2.76 %	5,807
Total	100.00 %	210,490

BPA Claims

Fuel	MWh
Hydro	182,166
Natural Gas	14
Nuclear	22,503
SubTotal	204,683
BPA Unspecified Purchase	5,806
BPA Total	210,489

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	86.54 %	241,113
Natural Gas	0.01 %	19
Nuclear	10.69 %	29,785
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	2.76 %	7,687
Total	100.00 %	278,604

BPA Claims

Fuel	MWh
Hydro	241,113
Natural Gas	19
Nuclear	29,785
SubTotal	270,917
BPA Unspecified Purchase	7,688
BPA Total	278,605

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	86.54 %	62,421
Natural Gas	0.01 %	5
Nuclear	10.69 %	7,711
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	2.76 %	1,990
Total	100.00 %	72,127

BPA Claims

Fuel	MWh
Hydro	62,421
Natural Gas	5
Nuclear	7,711
SubTotal	70,137
BPA Unspecified Purchase	1,990
BPA Total	72,127

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	80.73 %	873,783
Natural Gas	3.23 %	34,985
Nuclear	9.82 %	106,261
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	6.22 %	67,325
Total	100.00 %	1,082,354

BPA Claims	
Fuel	MWh
Hydro	860,184
Natural Gas	68
Nuclear	106,261
SubTotal	966,513
BPA Unspecified Purchase	27,421
BPA Total	993,934

Utility Unspecified Purchases	
Type	MWh
Unspecified Purchase	39,903
Total	39,903

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 %	1,878,778
Natural Gas	0.00 %	3
Nuclear	0.10 %	4,947
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	0.59 %	30,823
Unspecified	63.12 %	3,277,413
Total	100.00 %	5,191,964

BPA Claims	
Fuel	MWh
Hydro	40,050
Natural Gas	3
Nuclear	4,947
SubTotal	45,000
BPA Unspecified Purchase	1,277
BPA Total	46,277

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	84.08 %	799,252
Natural Gas	0.01 %	63
Nuclear	10.39 %	98,733
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	2.68 %	25,480
Total	100.00 %	950,528

BPA Claims

Fuel	MWh
Hydro	799,252
Natural Gas	63
Nuclear	98,733
SubTotal	898,048
BPA Unspecified Purchase	25,481
BPA Total	923,529

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	86.54 %	835,150
Natural Gas	0.01 %	66
Nuclear	10.69 %	103,168
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	2.76 %	26,625
Total	100.00 %	965,009

BPA Claims

Fuel	MWh
Hydro	835,150
Natural Gas	66
Nuclear	103,168
SubTotal	938,384
BPA Unspecified Purchase	26,625
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	86.54 %	335,744
Natural Gas	0.01 %	26
Nuclear	10.69 %	41,475
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	2.76 %	10,704
Total	100.00 %	387,949

BPA Claims

Fuel	MWh
Hydro	335,744
Natural Gas	26
Nuclear	41,475
SubTotal	377,245
BPA Unspecified Purchase	10,703
BPA Total	387,948

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	86.54 %	21,737
Natural Gas	0.01 %	2
Nuclear	10.69 %	2,685
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	2.76 %	693
Total	100.00 %	25,117

BPA Claims	
Fuel	MWh
Hydro	21,737
Natural Gas	2
Nuclear	2,685
SubTotal	24,424
BPA Unspecified Purchase	692
BPA Total	25,116

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	86.54 %	87,692
Natural Gas	0.01 %	7
Nuclear	10.69 %	10,833
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	2.76 %	2,796
Total	100.00 %	101,328

BPA Claims

Fuel	MWh
Hydro	87,692
Natural Gas	7
Nuclear	10,833
SubTotal	98,532
BPA Unspecified Purchase	2,796
BPA Total	101,328

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	80.39 %	316,856
Natural Gas	0.01 %	22
Nuclear	8.69 %	34,237
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	10.91 %	43,016
Total	100.00 %	394,131

BPA Claims	
Fuel	MWh
Hydro	277,148
Natural Gas	22
Nuclear	34,237
SubTotal	311,407
BPA Unspecified Purchase	8,835
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	86.54 %	2,423
Natural Gas	0.01 %	0
Nuclear	10.69 %	299
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	2.76 %	77
Total	100.00 %	2,799

BPA Claims

Fuel	MWh
Hydro	2,423
Nuclear	299
SubTotal	2,722
BPA Unspecified Purchase	77
BPA Total	2,799

Lakeview Light & Power

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	0.00 %	0
Coal	0.00 %	0
Geothermal	0.00 %	0
Hydro	86.54 %	228,450
Natural Gas	0.01 %	18
Nuclear	10.69 %	28,221
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	2.76 %	7,283
Total	100.00 %	263,972

BPA Claims

Fuel	MWh
Hydro	228,450
Natural Gas	18
Nuclear	28,221
SubTotal	256,689
BPA Unspecified Purchase	7,283
BPA Total	263,972

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	81.11 %	774,012
Natural Gas	0.01 %	60
Nuclear	9.93 %	94,785
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	6.39 %	61,027
Unspecified	2.56 %	24,461
Total	100.00 %	954,345

BPA Claims

Fuel	MWh
Hydro	767,291
Natural Gas	60
Nuclear	94,785
SubTotal	862,136
BPA Unspecified Purchase	24,461
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	86.54 %	63,831
Natural Gas	0.01 %	5
Nuclear	10.69 %	7,885
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	2.76 %	2,035
Total	100.00 %	73,756

BPA Claims

Fuel	MWh
Hydro	63,831
Natural Gas	5
Nuclear	7,885
SubTotal	71,721
BPA Unspecified Purchase	2,035
BPA Total	73,756

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	78.77 %	508,613
Natural Gas	0.01 %	40
Nuclear	9.73 %	62,830
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.03 %	185
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	8.95 %	57,799
Unspecified	2.51 %	16,215
Total	100.00 %	645,682

BPA Claims

Fuel	MWh
Hydro	508,613
Natural Gas	40
Nuclear	62,830
SubTotal	571,483
BPA Unspecified Purchase	16,216
BPA Total	587,699

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	86.54 %	28,309
Natural Gas	0.01 %	2
Nuclear	10.69 %	3,497
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	2.76 %	902
Total	100.00 %	32,710

BPA Claims

Fuel	MWh
Hydro	28,309
Natural Gas	2
Nuclear	3,497
SubTotal	31,808
BPA Unspecified Purchase	902
BPA Total	32,710

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	86.54 %	49,205
Natural Gas	0.01 %	4
Nuclear	10.69 %	6,078
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	2.76 %	1,569
Total	100.00 %	56,856

BPA Claims

Fuel	MWh
Hydro	49,205
Natural Gas	4
Nuclear	6,078
SubTotal	55,287
BPA Unspecified Purchase	1,567
BPA Total	56,854

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	86.54 %	202,191
Natural Gas	0.01 %	16
Nuclear	10.69 %	24,977
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	2.76 %	6,446
Total	100.00 %	233,630

BPA Claims	
Fuel	MWh
Hydro	202,191
Natural Gas	16
Nuclear	24,977
SubTotal	227,184
BPA Unspecified Purchase	6,446
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	86.54 %	57,248
Natural Gas	0.01 %	5
Nuclear	10.69 %	7,072
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	2.76 %	1,825
Total	100.00 %	66,150

BPA Claims

Fuel	MWh
Hydro	57,248
Natural Gas	5
Nuclear	7,072
SubTotal	64,325
BPA Unspecified Purchase	1,824
BPA Total	66,149

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	86.54 %	102
Natural Gas	0.01 %	0
Nuclear	10.69 %	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	2.76 %	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	86.54 %	75,428
Natural Gas	0.01 %	6
Nuclear	10.69 %	9,318
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	2.76 %	2,405
Total	100.00 %	87,157

BPA Claims

Fuel	MWh
Hydro	75,428
Natural Gas	6
Nuclear	9,318
SubTotal	84,752
BPA Unspecified Purchase	2,405
BPA Total	87,157

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	85.45 %	534,156
Natural Gas	0.00 %	25
Nuclear	6.34 %	39,623
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	8.21 %	51,333
Total	100.00 %	625,137

BPA Claims	
Fuel	MWh
Hydro	320,752
Natural Gas	25
Nuclear	39,623
SubTotal	360,400
BPA Unspecified Purchase	10,226
BPA Total	370,626

Utility Unspecified Purchases	
Type	MWh
Unspecified Purchase	41,108
Total	41,108

Claims on Power Plants			
Plant Name	Fuel	MWh	Total MWh
Nine Canyon	Wind	0	0
Wells	Water	213,404	213,404
Total		213,404	213,404

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	83.05 %	253,507
Natural Gas	0.01 %	20
Nuclear	10.26 %	31,316
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	6.68 %	20,388
Total	100.00 %	305,231

BPA Claims	
Fuel	MWh
Hydro	253,507
Natural Gas	20
Nuclear	31,316
SubTotal	284,843
BPA Unspecified Purchase	8,082
BPA Total	292,925

Utility Unspecified Purchases	
Type	MWh
Unspecified Purchase	12,304
Total	12,304

Pacific Power (WA)

Utility Fuel Mix

Fuel	Percent	Total MWh
Biogas	0.00 %	0
Biomass	0.00 %	0
Coal	41.34 %	1,802,792
Geothermal	0.00 %	0
Hydro	14.23 %	620,402
Natural Gas	14.52 %	633,445
Nuclear	0.38 %	16,656
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.04 %	1,588
Solar	0.00 %	0
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	4.77 %	208,107
Unspecified	24.72 %	1,078,217
Total	100.00 %	4,361,207

BPA Claims	
Fuel	MWh
Hydro	134,830
Natural Gas	11
Nuclear	16,656
SubTotal	151,497
BPA Unspecified Purchase	4,299
BPA Total	155,796

Utility Unspecified Purchases	
Type	MWh
Unspecified Purchase	1,073,918
Total	1,073,918

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	
	Waste/Other Oil	36	
	Subbituminous Coal	94,583	
	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
Goodhoe 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	86.54 %	100,947
Natural Gas	0.01 %	8
Nuclear	10.69 %	12,470
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	2.76 %	3,218
Total	100.00 %	116,643

BPA Claims	
Fuel	MWh
Hydro	100,947
Natural Gas	8
Nuclear	12,470
SubTotal	113,425
BPA Unspecified Purchase	3,218
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	97.18 %	991,799
Natural Gas	0.00 %	15
Nuclear	2.24 %	22,897
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	0.58 %	5,909
Total	100.00 %	1,020,620

BPA Claims	
Fuel	MWh
Hydro	185,356
Natural Gas	15
Nuclear	22,897
SubTotal	208,268
BPA Unspecified Purchase	5,911
BPA Total	214,179

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	79.89 %	481,756
Natural Gas	0.01 %	38
Nuclear	9.87 %	59,512
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	7.68 %	46,333
Unspecified	2.55 %	15,358
Total	100.00 %	602,997

BPA Claims

Fuel	MWh
Hydro	481,756
Natural Gas	38
Nuclear	59,512
SubTotal	541,306
BPA Unspecified Purchase	15,360
BPA Total	556,666

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	86.54 %	238,972
Natural Gas	0.01 %	19
Nuclear	10.69 %	29,521
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	2.76 %	7,618
Total	100.00 %	276,130

BPA Claims	
Fuel	MWh
Hydro	238,972
Natural Gas	19
Nuclear	29,521
SubTotal	268,512
BPA Unspecified Purchase	7,619
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	86.54 %	125,611
Natural Gas	0.01 %	10
Nuclear	10.69 %	15,517
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	2.76 %	4,004
Total	100.00 %	145,142

BPA Claims

Fuel	MWh
Hydro	125,611
Natural Gas	10
Nuclear	15,517
SubTotal	141,138
BPA Unspecified Purchase	4,004
BPA Total	145,142

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 %	4,956,837
Natural Gas	17.24 %	3,832,936
Nuclear	0.36 %	80,467
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.06 %	13,107
Solar	0.67 %	149,638
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	8.41 %	1,869,790
Unspecified	19.58 %	4,352,748
Total	100.00 %	22,233,671

BPA Claims	
Fuel	MWh
Hydro	651,382
Natural Gas	51
Nuclear	80,467
SubTotal	731,900
BPA Unspecified Purchase	20,766
BPA Total	752,666

Utility Unspecified Purchases	
Type	MWh
Unspecified Purchase	4,331,983
Total	4,331,983

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	Distillate Fuel Oil	3,048	
	Subbituminous Coal	3,862,397	
	Gaseous Propane	0	
	Waste/Other Oil	1,480	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	Distillate Fuel Oil	0	
	Natural Gas	184,889	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	Distillate Fuel Oil	2,589	

	Natural Gas	607,622	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
Sygutowicz Creek	Water	644	644
Transalta Centralia Generation	Refined Coal	3,065,215	
	Waste/Other Coal	5,145	
	Distillate Fuel Oil	4,651	
	Subbituminous Coal	0	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	Distillate Fuel Oil	95	
	Natural Gas	26,291	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	86.54 %	821,925
Natural Gas	0.01 %	65
Nuclear	10.69 %	101,534
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	2.76 %	26,203
Total	100.00 %	949,727

BPA Claims	
Fuel	MWh
Hydro	821,925
Natural Gas	65
Nuclear	101,534
SubTotal	923,524
BPA Unspecified Purchase	26,204
BPA Total	949,728

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	85.03 %	6,475
Natural Gas	0.00 %	0
Nuclear	6.08 %	463
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.01 %	1
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	5.64 %	429
Unspecified	1.57 %	120
Total	100.00 %	7,615

BPA Claims

Fuel	MWh
Hydro	3,751
Nuclear	463
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	Wind	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	85.90 %	8,287,376
Natural Gas	0.00 %	296
Nuclear	4.81 %	464,437
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	6.77 %	652,970
Unspecified	1.36 %	130,793
Total	100.00 %	9,647,588

BPA Claims	
Fuel	MWh
Hydro	3,759,641
Natural Gas	296
Nuclear	464,437
SubTotal	4,224,374
BPA Unspecified Purchase	119,858
BPA Total	4,344,232

Utility Unspecified Purchases	
Type	MWh
Unspecified Purchase	10,936
Total	10,936

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	86.54 %	117,452
Natural Gas	0.01 %	9
Nuclear	10.69 %	14,509
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	2.76 %	3,744
Total	100.00 %	135,714

BPA Claims	
Fuel	MWh
Hydro	117,452
Natural Gas	9
Nuclear	14,509
SubTotal	131,970
BPA Unspecified Purchase	3,743
BPA Total	135,713

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	79.57 %	5,299,812
Natural Gas	0.01 %	417
Nuclear	9.83 %	654,517
Other Biogenic	0.07 %	4,864
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.23 %	15,536
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	7.05 %	469,212
Unspecified	2.54 %	168,912
Total	100.00 %	6,660,024

BPA Claims

Fuel	MWh
Hydro	5,298,350
Natural Gas	417
Nuclear	654,517
SubTotal	5,953,284
BPA Unspecified Purchase	168,911
BPA Total	6,122,195

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

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	86.54 %	33,776
Natural Gas	0.01 %	3
Nuclear	10.69 %	4,172
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	2.76 %	1,077
Total	100.00 %	39,028

BPA Claims	
Fuel	MWh
Hydro	33,776
Natural Gas	3
Nuclear	4,172
SubTotal	37,951
BPA Unspecified Purchase	1,076
BPA Total	39,027

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	86.54 %	28,448
Natural Gas	0.01 %	2
Nuclear	10.69 %	3,514
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	2.76 %	907
Total	100.00 %	32,871

BPA Claims

Fuel	MWh
Hydro	28,448
Natural Gas	2
Nuclear	3,514
SubTotal	31,964
BPA Unspecified Purchase	907
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	85.03 %	4,130,342
Natural Gas	0.00 %	188
Nuclear	6.08 %	295,586
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.01 %	358
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	5.64 %	273,823
Unspecified	1.57 %	76,282
Total	100.00 %	4,857,736

BPA Claims

Fuel	MWh
Hydro	2,392,786
Natural Gas	188
Nuclear	295,586
SubTotal	2,688,560
BPA Unspecified Purchase	76,284
BPA Total	2,764,844

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	86.54 %	82,433
Natural Gas	0.01 %	6
Nuclear	10.69 %	10,183
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	2.76 %	2,628
Total	100.00 %	95,250

BPA Claims

Fuel	MWh
Hydro	82,433
Natural Gas	6
Nuclear	10,183
SubTotal	92,622
BPA Unspecified Purchase	2,628
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	78.83 %	180,371
Natural Gas	0.01 %	14
Nuclear	9.74 %	22,282
Other Biogenic	0.00 %	0
Other Non-Biogenic	0.00 %	0
Petroleum	0.00 %	0
Solar	0.00 %	0
Unknown	0.00 %	0
Waste	0.00 %	0
Wind	0.00 %	0
Unspecified	11.42 %	26,135
Total	100.00 %	228,802

BPA Claims

Fuel	MWh
Hydro	180,371
Natural Gas	14
Nuclear	22,282
SubTotal	202,667
BPA Unspecified Purchase	5,750
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	86.54 %	37,139
Natural Gas	0.01 %	3
Nuclear	10.69 %	4,588
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	2.76 %	1,184
Total	100.00 %	42,914

BPA Claims	
Fuel	MWh
Hydro	37,139
Natural Gas	3
Nuclear	4,588
SubTotal	41,730
BPA Unspecified Purchase	1,184
BPA Total	42,914

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	86.54 %	201,797
Natural Gas	0.01 %	16
Nuclear	10.69 %	24,928
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	2.76 %	6,433
Total	100.00 %	233,174

BPA Claims	
Fuel	MWh
Hydro	201,797
Natural Gas	16
Nuclear	24,928
SubTotal	226,741
BPA Unspecified Purchase	6,435
BPA Total	233,176

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	86.54 %	127,986
Natural Gas	0.01 %	10
Nuclear	10.69 %	15,810
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	2.76 %	4,080
Total	100.00 %	147,886

BPA Claims

Fuel	MWh
Hydro	127,986
Natural Gas	10
Nuclear	15,810
SubTotal	143,806
BPA Unspecified Purchase	4,080
BPA Total	147,886