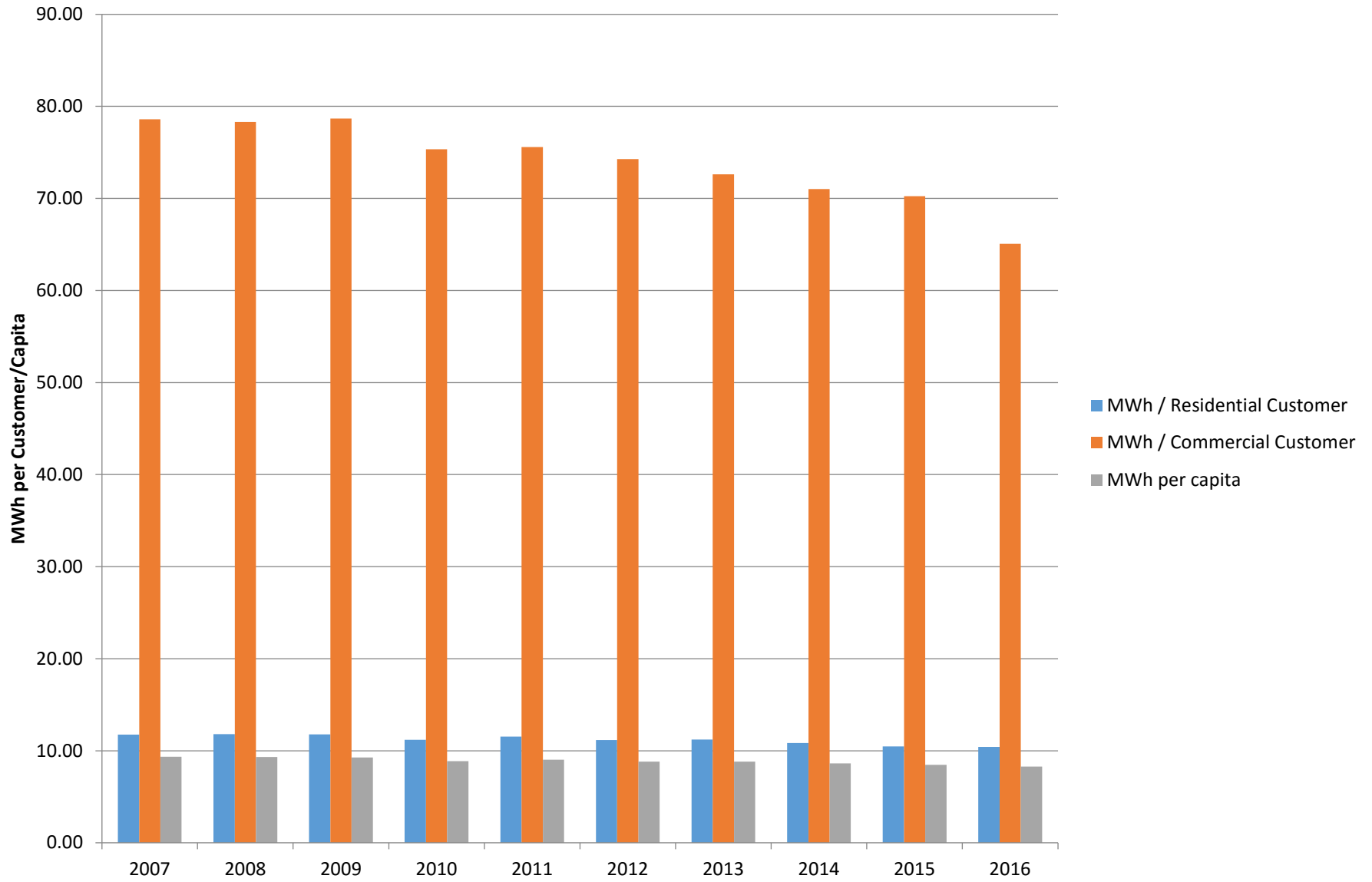


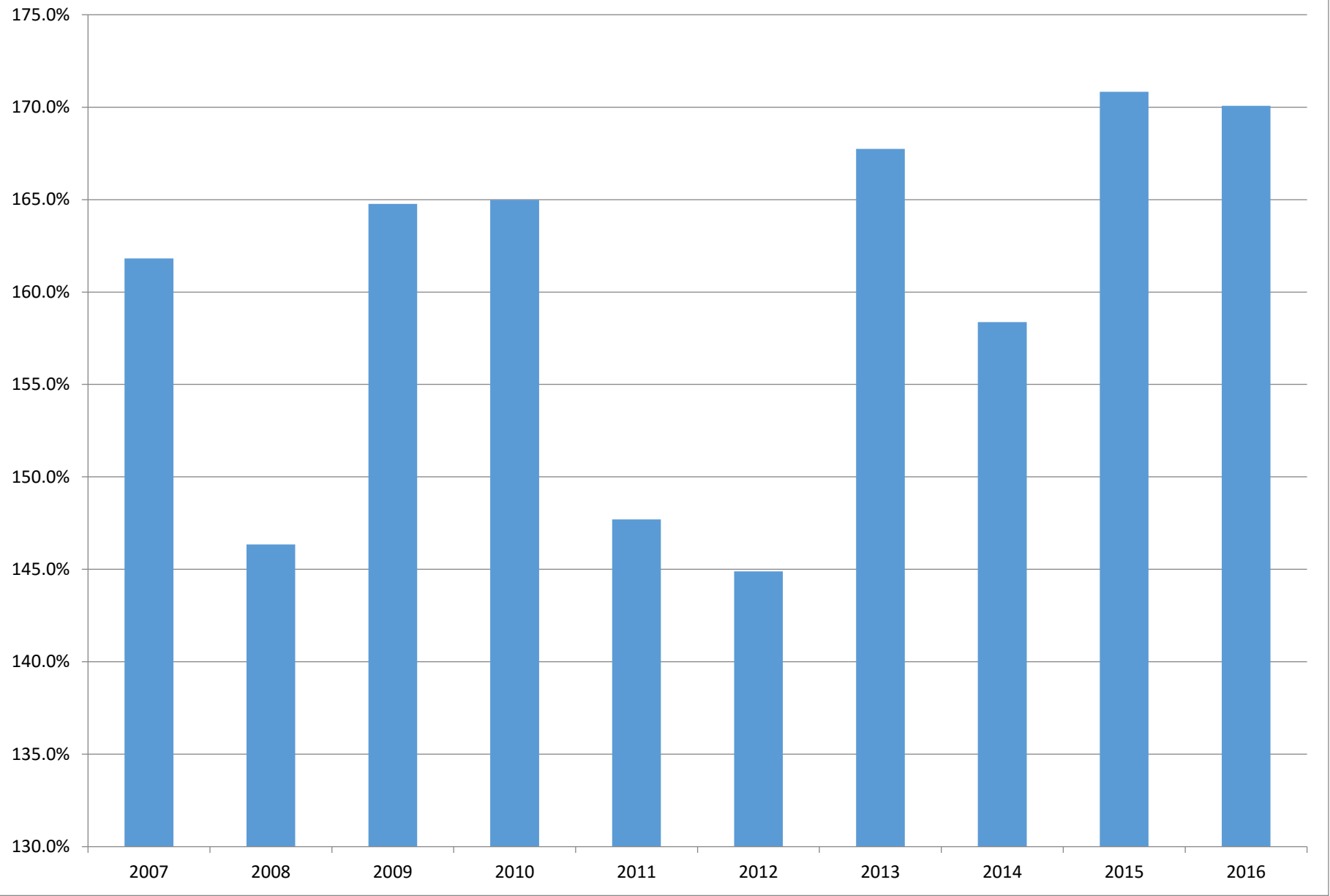
Energy Intensity Metrics 2007 - 2016



Unknown Resources: Generation Delivered and Attributed Emissions



Ratio of Annual CO2 : 1990 CO2



- Average MWh per residential customer
 - Average MWh per commercial customer
 - MWh per capita
 - Annual CO₂ emissions (short tons)
 - Ratios of Annual CO₂ emissions to CO₂ emissions in 1990
- Subtotal Metrics - Energy and Emissions from Unknown Generation Sources*
- Annual CO₂ emissions (short tons) from unknown generation sources
 - Annual MWh delivered to retail customers from unknown generation sources
 - Percentage of load served by unknown generation sources

	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
MWh / Residential Customer	11.64	11.74	11.80	11.78	11.20	11.54	11.17	11.20	10.84	10.47	10.40
MWh / Commercial Customer	78.83	78.61	78.30	78.68	75.34	75.58	74.28	72.63	71.02	70.25	65.07
MWh per capita	9.25	9.34	9.33	9.28	8.86	9.03	8.82	8.82	8.64	8.48	8.29
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Ratio of Annual CO ₂ : 1990 CO ₂	156.5%	161.8%	146.3%	164.8%	165.0%	147.7%	144.9%	167.7%	158.4%	170.8%	170.1%
Annual Emissions (see other file)											
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Annual Emissions CO ₂ from Unknown Generation	3,101,016	3,136,942	2,787,287	2,465,915	1,897,917	3,064,415	3,489,259	3,326,881	3,167,831	2,072,888	2,086,933
Annual MWh delivered from Unknown Generation	6,117,349	5,220,403	5,441,422	4,408,167	3,185,183	6,774,738	7,727,006	5,877,233	6,189,748	3,964,233	4,166,129
% Load Served by Unknown Generation	27.1%	22.5%	23.1%	18.8%	14.1%	29.6%	34.5%	25.8%	27.8%	18.0%	18.4%
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Population Served	2,267,102	2,307,477	2,340,766	2,360,348	2,374,059	2,384,581	2,396,763	2,383,976	2,393,758	2,418,979	2,466,653
	1990										
1990 Residential Customers Served	732291	(from 1990 10k)									
1990 Population Served	1,824,620.63										
Comparison of Emission from Secondary Sources: Commerce Fuel Mix Methodology versus eGrid (NWPP)											
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Commerce Spreadsheet (May 2016 Update)	3,101,016	3,136,942	2,787,287	2,465,915	1,897,917	3,064,415	3,489,259	3,326,881	3,167,831	2,072,888	
eGrid (2013, 2014), and Average (2006, 2008, 2011)	2,585,443	2,241,614	2,299,768	1,805,603	1,341,885	2,863,282	2,572,144	3,326,881	2,154,893	1,200,541	

	A	B	C	D	E	F	G	H	I	J	K	
1	Summary Energy and Emissions Intensity Report											
2												
3		Utility :	Puget Sound Energy									
4		Reporting for year :	2006	MWh per Capita								
5		Population Served :	2,267,102	9.25								
6												
7		Energy Intensity Metrics										
8						Customer	MWh per					
9				MWh at Meter	MWh Proportion	Count	Customer					
10		Residential Customers		10,593,340	50.5%	909,876	11.6					
11		Commercial Customers		9,009,721	43.0%	114,299	78.8					
12		Industrial Customers		1,368,672	6.5%							
13		Total Load Served		20,971,733								
14												
15		Emissions Intensity Metrics										
16					Percent of	Short						
17				Busbar MWh	Total Load	Tons CO₂						
18		Known Resources Serving WA		16,470,704	72.9%	7,771,666						
19		Unknown Resources Serving WA		6,117,349	27.1%	3,101,016	% of 1990 CO₂					
20				2006	Tons CO ₂	10,872,682	156.5%					
21												
22					1990 Short Tons CO ₂	6,946,064	<i>Example number, use correct number from cells below.</i>					
23												
24		See UTC Docket UE-131723, General Order R-581, Page 7, Paragraph 19.										
25						1990						
26						Short Tons CO ₂						
27						Avista	1,131,957					
28						Pacific Power	2,399,078					
29						Puget Sound Energy	6,946,064					

	A	B	C	D	E	F	G	H	I
1	Summary Energy and Emissions Intensity Report								
2									
3		Utility :	Puget Sound Energy						
4		Reporting for year :	2007	MWh per Capita					
5		Population Served :	2,307,477	9.34					
6									
7	<i>Energy Intensity Metrics</i>								
8						Customer	MWh per		
9				MWh at Meter	MWh Proportion	Count	Customer		
10	Residential Customers			10,869,347	50.4%	926,080	11.7		
11	Commercial Customers			9,317,624	43.2%	118,533	78.6		
12	Industrial Customers			1,364,264	6.3%				
13	Total Load Served			21,551,235					
14									
15	<i>Emissions Intensity Metrics</i>								
16					Percent of	Short			
17				Busbar MWh	Total Load	Tons CO₂			
18	Known Resources Serving WA			17,976,918	77.5%	8,103,199			
19	Unknown Resources Serving WA			5,220,403	22.5%	3,136,942	% of 1990 CO₂		
20				2007	Tons CO ₂	11,240,141	161.8%		
21									
22						1990 Short Tons CO ₂	6,946,064		
23									
24					<i>See UTC Docket UE-131723, General Order R-581, Page 7, Paragraph 19.</i>				
25							1990		
26							Short Tons CO ₂		
27						Avista	1,131,957		
28						Pacific Power	2,399,078		
29						Puget Sound Energy	6,946,064		

	A	B	C	D	E	F	G	H	I
1	Summary Energy and Emissions Intensity Report								
2									
3		Utility :	Puget Sound Energy						
4		Reporting for year :	2008	MWh per Capita					
5		Population Served :	2,340,766	9.33					
6									
7	<i>Energy Intensity Metrics</i>								
8						Customer	MWh per		
9				MWh at Meter	MWh Proportion	Count	Customer		
10	Residential Customers			11,082,670	50.7%	939,440	11.8		
11	Commercial Customers			9,453,940	43.3%	120,743	78.3		
12	Industrial Customers			1,304,662	6.0%				
13	Total Load Served			21,841,272					
14									
15	<i>Emissions Intensity Metrics</i>								
16					Percent of	Short			
17				Busbar MWh	Total Load	Tons CO₂			
18	Known Resources Serving WA			18,130,450	76.9%	7,378,102			
19	Unknown Resources Serving WA			5,441,422	23.1%	2,787,287	% of 1990 CO₂		
20				2008 Tons CO ₂		10,165,388	146.3%		
21									
22						1990 Short Tons CO ₂	6,946,064		
23									
24					See UTC Docket UE-131723, General Order R-581, Page 7, Paragraph 19.				
25							1990		
26							Short Tons CO ₂		
27						Avista	1,131,957		
28						Pacific Power	2,399,078		
29						Puget Sound Energy	6,946,064		

	A	B	C	D	E	F	G	H	I
1	Summary Energy and Emissions Intensity Report								
2									
3		Utility :	Puget Sound Energy						
4		Reporting for year :	2009	MWh per Capita					
5		Population Served :	2,360,348	9.28					
6									
7	<i>Energy Intensity Metrics</i>								
8						Customer	MWh per		
9				MWh at Meter	MWh Proportion	Count	Customer		
10	Residential Customers		11,163,371	51.0%	947,299	11.8			
11	Commercial Customers		9,584,670	43.8%	121,817	78.7			
12	Industrial Customers		1,148,060	5.2%					
13	Total Load Served		21,896,101						
14									
15	<i>Emissions Intensity Metrics</i>								
16					Percent of	Short			
17				Busbar MWh	Total Load	Tons CO₂			
18	Known Resources Serving WA		19,034,284	81.2%	8,978,707				
19	Unknown Resources Serving WA		4,408,167	18.8%	2,465,915	% of 1990 CO₂			
20			2009	Tons CO ₂	11,444,623	164.8%			
21									
22					1990 Short Tons CO ₂	6,946,064			
23									
24					See UTC Docket UE-131723, General Order R-581, Page 7, Paragraph 19.				
25							1990		
26							Short Tons CO ₂		
27						Avista	1,131,957		
28						Pacific Power	2,399,078		
29						Puget Sound Energy	6,946,064		

	A	B	C	D	E	F	G	H	I
1	Summary Energy and Emissions Intensity Report								
2									
3		Utility :	Puget Sound Energy						
4		Reporting for year :	2010	MWh per Capita					
5		Population Served :	2,374,059	8.86					
6									
7	<i>Energy Intensity Metrics</i>								
8						Customer	MWh per		
9				MWh at Meter	MWh Proportion	Count	Customer		
10	Residential Customers			10,672,888	50.8%	952,802	11.2		
11	Commercial Customers			9,192,953	43.7%	122,015	75.3		
12	Industrial Customers			1,160,586	5.5%				
13	Total Load Served			21,026,427					
14									
15	<i>Emissions Intensity Metrics</i>								
16					Percent of	Short			
17				Busbar MWh	Total Load	Tons CO₂			
18	Known Resources Serving WA			19,409,091	85.9%	9,562,115			
19	Unknown Resources Serving WA			3,185,183	14.1%	1,897,917	% of 1990 CO₂		
20				2010	Tons CO ₂	11,460,032	165.0%		
21									
22						1990 Short Tons CO ₂	6,946,064		
23									
24					<i>See UTC Docket UE-131723, General Order R-581, Page 7, Paragraph 19.</i>				
25							1990		
26							Short Tons CO ₂		
27						Avista	1,131,957		
28						Pacific Power	2,399,078		
29						Puget Sound Energy	6,946,064		

	A	B	C	D	E	F	G	H	I
1	Summary Energy and Emissions Intensity Report								
2									
3		Utility :	Puget Sound Energy						
4		Reporting for year :	2011	MWh per Capita					
5		Population Served :	2,384,581	9.03					
6									
7	<i>Energy Intensity Metrics</i>								
8						Customer	MWh per		
9				MWh at Meter	MWh Proportion	Count	Customer		
10	Residential Customers			11,045,116	51.3%	957,025	11.5		
11	Commercial Customers			9,275,081	43.1%	122,720	75.6		
12	Industrial Customers			1,214,232	5.6%				
13	Total Load Served			21,534,429					
14									
15	<i>Emissions Intensity Metrics</i>								
16					Percent of	Short			
17				Busbar MWh	Total Load	Tons CO₂			
18	Known Resources Serving WA			16,075,429	70.4%	7,195,140			
19	Unknown Resources Serving WA			6,774,738	29.6%	3,064,415	% of 1990 CO₂		
20				2011	Tons CO ₂	10,259,555	147.7%		
21									
22						1990 Short Tons CO ₂	6,946,064		
23									
24	<i>See UTC Docket UE-131723, General Order R-581, Page 7, Paragraph 19.</i>								
25							1990		
26							Short Tons CO ₂		
27						Avista	1,131,957		
28						Pacific Power	2,399,078		
29						Puget Sound Energy	6,946,064		

	A	B	C	D	E	F	G	H	I
1	Summary Energy and Emissions Intensity Report								
2									
3		Utility :	Puget Sound Energy						
4		Reporting for year :	2012	MWh per Capita					
5		Population Served :	2,396,763	8.82					
6									
7	<i>Energy Intensity Metrics</i>								
8						Customer	MWh per		
9				MWh at Meter	MWh Proportion	Count	Customer		
10	Residential Customers			10,744,641	50.8%	961,914	11.2		
11	Commercial Customers			9,192,545	43.5%	123,757	74.3		
12	Industrial Customers			1,208,801	5.7%				
13	Total Load Served			21,145,987					
14									
15	<i>Emissions Intensity Metrics</i>								
16					Percent of	Short			
17				Busbar MWh	Total Load	Tons CO₂			
18	Known Resources Serving WA			14,688,684	65.5%	6,574,991			
19	Unknown Resources Serving WA			7,727,006	34.5%	3,489,259	% of 1990 CO₂		
20				2012	Tons CO ₂	10,064,250	144.9%		
21									
22						1990 Short Tons CO ₂	6,946,064		
23									
24					See UTC Docket UE-131723, General Order R-581, Page 7, Paragraph 19.				
25							1990		
26							Short Tons CO ₂		
27						Avista	1,131,957		
28						Pacific Power	2,399,078		
29						Puget Sound Energy	6,946,064		

	A	B	C	D	E	F	G	H	I
1	Summary Energy and Emissions Intensity Report								
2									
3		Utility :	Puget Sound Energy						
4		Reporting for year :	2013	MWh per Capita					
5		Population Served :	2,383,976	8.82					
6									
7	<i>Energy Intensity Metrics</i>								
8						Customer	MWh per		
9				MWh at Meter	MWh Proportion	Count	Customer		
10		Residential Customers		10,718,566	51.0%	956,782	11.2		
11		Commercial Customers		9,086,128	43.2%	125,099	72.6		
12		Industrial Customers		1,215,442	5.8%				
13		Total Load Served		21,020,136					
14									
15	<i>Emissions Intensity Metrics</i>								
16					Percent of	Short			
17				Busbar MWh	Total Load	Tons CO₂			
18		Known Resources Serving WA		16,925,901	74.2%	8,324,309			
19		Unknown Resources Serving WA		5,877,233	25.8%	3,326,881	% of 1990 CO₂		
20				2013	Tons CO ₂	11,651,191	167.7%		
21									
22						1990 Short Tons CO ₂	6,946,064		
23									
24						See UTC Docket UE-131723, General Order R-581, Page 7, Paragraph 19.			
25							1990		
26							Short Tons CO ₂		
27						Avista	1,131,957		
28						Pacific Power	2,399,078		
29						Puget Sound Energy	6,946,064		

	A	B	C	D	E	F	G	H	I
1	Summary Energy and Emissions Intensity Report								
2									
3		Utility :	Puget Sound Energy						
4		Reporting for year :	2014	MWh per Capita					
5		Population Served :	2,393,758	8.64					
6									
7	<i>Energy Intensity Metrics</i>								
8						Customer	MWh per		
9				MWh at Meter	MWh Proportion	Count	Customer		
10		Residential Customers	10,412,460	50.4%	960,708	10.8			
11		Commercial Customers	9,043,539	43.7%	127,346	71.0			
12		Industrial Customers	1,216,903	5.9%					
13		Total Load Served	20,672,902						
14									
15	<i>Emissions Intensity Metrics</i>								
16					Percent of	Short			
17				Busbar MWh	Total Load	Tons CO₂			
18		Known Resources Serving WA	16,087,761	72.2%	7,833,030				
19		Unknown Resources Serving WA	6,189,748	27.8%	3,167,831	% of 1990 CO₂			
20			2014	Tons CO ₂	11,000,861	158.4%			
21									
22					1990 Short Tons CO ₂	6,946,064			
23									
24					See UTC Docket UE-131723, General Order R-581, Page 7, Paragraph 19.				
25						1990			
26						Short Tons CO ₂			
27					Avista	1,131,957			
28					Pacific Power	2,399,078			
29					Puget Sound Energy	6,946,064			

	A	B	C	D	E	F	G	H	I
1	Summary Energy and Emissions Intensity Report								
2									
3		Utility :	Puget Sound Energy						
4		Reporting for year :	2015	MWh per Capita					
5		Population Served :	2,418,979	8.48					
6									
7	<i>Energy Intensity Metrics</i>								
8						Customer	MWh per		
9				MWh at Meter	MWh Proportion	Count	Customer		
10	Residential Customers			10,164,709	49.6%	970,830	10.5		
11	Commercial Customers			9,087,102	44.3%	129,347	70.3		
12	Industrial Customers			1,257,958	6.1%				
13	Total Load Served			20,509,769					
14									
15	<i>Emissions Intensity Metrics</i>								
16					Percent of	Short			
17				Busbar MWh	Total Load	Tons CO₂			
18	Known Resources Serving WA			18,066,615	82.0%	9,793,361			
19	Unknown Resources Serving WA			3,964,233	18.0%	2,072,888	% of 1990 CO₂		
20				2015 Tons CO ₂		11,866,249	170.8%		
21									
22						1990 Short Tons CO ₂	6,946,064		
23									
24	See UTC Docket UE-131723, General Order R-581, Page 7, Paragraph 19.								
25							1990		
26							Short Tons CO ₂		
27						Avista	1,131,957		
28						Pacific Power	2,399,078		
29						Puget Sound Energy	6,946,064		

Summary Energy and Emissions Intensity Report

Utility :	Puget Sound Energy	
Reporting for year :	2016	MWh per Capita
Population Served :	2,466,653	8.29

Energy Intensity Metrics

	MWh at Meter	MWh Proportion	Customer Count	MWh per Customer
Residential Customers	10,245,326	50.1%	984,739	10.4
Commercial Customers	8,979,883	43.9%	137,997	65.1
Industrial Customers	1,223,214	6.0%		
Total Load Served	20,448,423			

Emissions Intensity Metrics

	Busbar MWh	Percent of Total Load	Short Tons CO ₂	
Known Resources Serving WA	18,455,004	81.6%	9,726,282	
Unknown Resources Serving WA	4,166,129	18.4%	2,086,933	% of 1990 CO₂
	2016 Tons CO ₂		11,813,215	170.1%

1990 Short Tons CO₂ 6,946,064

See UTC Docket UE-131723, General Order R-581, Page 7, Paragraph 19.

	1990 Short Tons CO ₂
Avista	1,131,957
Pacific Power	2,399,078
Puget Sound Energy	6,946,064

Insert Blue Blanks with actual numbers (no links or calculations)

Known Resources Serving WA Customers

2006

Resource	WA MWh	lbs CO ₂ /MWh	Short Tons CO ₂
Electron	67,270	-	-
Lower Baker	334,145	-	-
Snoqualmie Falls #1	47,557	-	-
Snoqualmie Falls #2	161,751	-	-
Upper Baker	338,553	-	-
Colstrip 1 & 2	2,180,745	2,483	2,707,654
Colstrip 3 & 4	2,619,283	2,451	3,210,066
Encogen	259,963	1,063	138,107
Crystal Mountain	1,060	1,719	912
Freddie #1	393,030	765	150,410
Fredonia	42,874	1,279	27,429
Fredrickson 1 & 2	12,684	1,725	10,940
Hopkins Ridge (W184)	361,587	-	-
Whitehorn 2&3	13,578	1,596	10,838
Wild Horse (W183)	11,242	-	-
BC Hydro (Point Roberts)	22,243	845	9,401
BPA	7,077	-	-
BPA Firm - WNP#3 Exchange	362,075	845	153,028
Chelan PUD - Rock Island Syst #2	1,294,355	-	-
Chelan PUD - Rocky Reach	2,365,522	-	-
Douglas PUD - Wells Project	1,133,871	-	-
Grant PUD - Priest Rapids	443,113	-	-
Grant PUD - Wanapum	455,505	-	-
NWestern Energy(MPC) Firm Contract	723,917	2	892
Snohomish PUD Conservation	89,664	845	37,896
VanderHaak Dairy Digester	1,823	-	-
WASCO Hydro	36,732	-	-
Hutchinson Creek	2,171	-	-
Koma Kulshan Associates	33,468	-	-
March Point Cogen. - 1 & 2	983,696	727	357,475
Nooksack	17,653	-	-
Port Townsend Paper Co.	1,847	1,056	976
Puyallup Energy Recovery Company	4,829	-	-
Spokane MSW	141,325	4,574	323,188
Sumas Cogeneration	579,514	927	268,748
Sygitowicz Creek	586	-	-
Tenaska	844,472	861	363,708
Twin Falls Hydro	67,233	-	-
Weeks Falls	12,691	-	-

16,470,704

7,771,666


Unknown Resources For WA Customers

2006

WA Dept. of Commerce Fuel Mix Report =

1,014

lbs CO₂ per MWh

For Year	2006	
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Resource	WA MWh	Fuel Mix lbs CO ₂ /MWh	Short Tons CO ₂
Arizona Public Service	2,000	1014	1,014
ATCO Power Canada	820	1014	416
Avista Corp. WWP Division	102,667	1014	52,044
Avista Energy	713,907	1014	361,895
Barclays Bank Plc	7,600	1014	3,853
Bear Energy LP	48	1014	24
Benton County PUD	22,518	1014	11,415
Black Hills Power	12,360	1014	6,266
Book Outs - EITF 03-11	(2,421,278)	1014	(1,227,398)
BP Energy Co.	181,121	1014	91,814
BPA	739,012	1014	374,621
Burbank, City of	4,195	1014	2,127
Cargill Power Markets	48,374	1014	24,522
Chelan County PUD #1	40,907	1014	20,737
Cincinnati Gas & Electric Co	7,400	1014	3,751
Cinergy Services	21,330	1014	10,813
Citigroup Energy Inc	117,050	1014	59,335
Clatskanie PUD	9,785	1014	4,960
Conoco, Inc.	17,475	1014	8,858
Constellation Power Source, Inc.	320,060	1014	162,245
DB Energy Trading LLC	27,200	1014	13,788
Douglas County PUD #1	292,497	1014	148,273
ENMAX Energy Marketing, Inc.	175	1014	89
Epcor Merchant & Capital	63,703	1014	32,292
Eugene Water & Electric	63,650	1014	32,266
Fortis Energy Marketing & Trading	16,400	1014	8,314
Franklin County PUD #1	15,035	1014	7,622
Grant County PUD #2	89,108	1014	45,171
Grays Harbor PUD #1	21,400	1014	10,848
Iberdrola Renewables (PPM Energy)	400,182	1014	202,861
Idaho Falls Power	84,230	1014	42,698
Idaho Power Company	99,558	1014	50,468
J. Aron & Company	20,000	1014	10,138
JP Morgan Ventures Energy	10,000	1014	5,069
King County	40	1014	20
Klamath Falls, City of	31,207	1014	15,819
Lehman Bros Commodity Services	7,800	1014	3,954
Los Angeles Dept. Water & Power	1,275	1014	646
Macquarie Energy LLC	83,200	1014	42,176
Merrill Lynch Commodities	24,400	1014	12,369
Modesto Irrigation District	852	1014	432
Morgan Stanley CG	276,663	1014	140,246
N. California Power Agency	1,315	1014	667
New Mexico, Public Service Company	3,200	1014	1,622
Noble Americas Energy Solutions	29,225	1014	14,815
NorthPoint Energy Solutions, Inc.	1,342	1014	680
Northwestern Energy	9,629	1014	4,881
Occidental Power Services	1,064	1014	539
Okanogan PUD	3,761	1014	1,907
Pacific Northwest Generatin Coop.	181,909	1014	92,214
Pacificcorp	352,506	1014	178,693
PG&E Energy Trading	24,945	1014	12,645
Pinnacle West Capital Corp	889,475	1014	450,894
Portland General Electric	500,872	1014	253,903
Powerex Corp.	504,275	1014	255,628
PP&L Montana, LLC.	41,793	1014	21,186
Public Service of Colorado	19,800	1014	10,037
Rainbow Energy Marketing	121,336	1014	61,508
Redding, City of	2,903	1014	1,472
Sacramento Municipal	5,025	1014	2,547
San Diego Gas & Electric	6,904	1014	3,500
Seattle City Light Marketing	172,078	1014	87,230
Sempra Energy Trading	1,226,010	1014	621,491
Shell Energy (Coral Pwr)	730,645	1014	370,380
Sierra Pacific Power	26,329	1014	13,347
Silicon Valley Pwr - Santa Clara	448	1014	227
Snohomish County PUD #1	80,505	1014	40,810
Southern Cal - Edison	29,334	1014	14,870
SUEZ Energy Marketing (Tractebel)	116,640	1014	59,127
Sumas Cogeneration	21,788	1014	11,045

Tacoma Power	107,444	1014	54,466
Tenaska	1,537	1014	779
TransAlta Energy Marketing	1,162,941	1014	589,520
TransCanada Power Corp.	3,828	1014	1,940
Turlock Irrigation District	13,371	1014	6,778
UBS AG	100,496	1014	50,944
Western Area Power Association	473	1014	240
Wild Horse Test Power	144,854	1014	73,430
Williams Power Company	425	1014	215
Avista Energy	305,656	1014	154,944
Black Creek Hydro	2,816	1014	1,427
BPA	102,038	1014	51,725
Cargill Power Markets	30,396	1014	15,408
Deviation	(24,938)	1014	(12,641)
Douglas County PUD #1	75	1014	38
Pacific Gas & Elec - Exchange	412,904	1014	209,310
Powerex - Exchange	610,192	1014	309,319
Seattle City Light Marketing	78,400	1014	39,743
Tacoma Power	24,876	1014	12,610
Tacoma, City of	210	1014	106
TransAlta Energy Marketing	895,958	1014	454,180
Avista Energy	(309,216)	1014	(156,748)
Black Creek Hydro	(3,057)	1014	(1,550)
BPA	(103,655)	1014	(52,545)
Cargill Power Markets	(31,096)	1014	(15,763)
Douglas County PUD #1	(75)	1014	(38)
Pacific Gas & Elec - Exchange	(413,000)	1014	(209,359)
Powerex - Exchange	(610,192)	1014	(309,319)
Seattle City Light Marketing	(78,400)	1014	(39,743)
Storage/Interchange - Out	(21)	1014	(11)
Tacoma Power	(25,065)	1014	(12,706)
TransAlta Energy Marketing	(895,958)	1014	(454,180)
Arizona Public Service	(3,400)	1014	(1,724)
Avista Corp. WWP Division	(41,478)	1014	(21,026)
Avista Energy	(307,922)	1014	(156,092)
Barclays Bank Plc	(6,000)	1014	(3,042)
Bear Energy LP	(3,298)	1014	(1,672)
Benton County PUD	(4,433)	1014	(2,247)
Black Hills Power	(650)	1014	(329)
Book Outs - EITF 03-11	2,421,278	1014	1,227,398
BP Energy Co.	(95,783)	1014	(48,554)
BPA	(141,345)	1014	(71,651)
British Columbia Transmission Corp	(23)	1014	(12)
Burbank, City of	(3,121)	1014	(1,582)
Cargill Power Markets	(84,873)	1014	(43,024)
Chelan County PUD #1	(1,200)	1014	(608)
Cincinnati Gas & Electric Co	(13,200)	1014	(6,691)
Cinergy Services	(24,697)	1014	(12,519)
Citigroup Energy Inc	(88,920)	1014	(45,075)
Clatskanie PUD	(4,691)	1014	(2,378)
Conoco, Inc.	(44,413)	1014	(22,514)
Constellation Power Source, Inc.	(80,970)	1014	(41,045)
DB Energy Trading LLC	(30,000)	1014	(15,208)
Douglas County PUD #1	(980)	1014	(497)
ENMAX Energy Marketing, Inc.	(6,322)	1014	(3,205)
Epcor Merchant & Capital	(21,189)	1014	(10,741)
Eugene Water & Electric	(16,203)	1014	(8,214)
Fortis Energy Marketing & Trading	(45,575)	1014	(23,103)
Franklin County PUD #1	(1,725)	1014	(874)
Grant County PUD #2	(16,830)	1014	(8,531)
Grays Harbor PUD #1	(4,477)	1014	(2,269)
Hinson Power Company	(3,200)	1014	(1,622)
Iberdrola Renewables (PPM Energy)	(183,683)	1014	(93,113)
Idaho Power Company	(77,637)	1014	(39,356)
J. Aron & Company	(13,600)	1014	(6,894)
JP Morgan Ventures Energy	(20,000)	1014	(10,138)
Klamath Falls, City of	(9,281)	1014	(4,705)
Lehman Bros Commodity Services	(49,275)	1014	(24,979)
Los Angeles Dept. Water & Power	(3,215)	1014	(1,630)
Macquarie Energy LLC	(77,000)	1014	(39,033)
Merrill Lynch Commodities	(40,881)	1014	(20,723)
Modesto Irrigation District	(8,394)	1014	(4,255)
Morgan Stanley CG	(252,602)	1014	(128,049)

N. California Power Agency	(3,417)	1014	(1,732)
Noble Americas Energy Solutions	(2,072)	1014	(1,050)
NorthPoint Energy Solutions, Inc.	(17,324)	1014	(8,782)
Northwestern Energy	(25,569)	1014	(12,961)
Occidental Power Services	(5,300)	1014	(2,687)
Okanogan PUD	(260)	1014	(132)
Pacific Northwest Generatin Coop.	(7,665)	1014	(3,886)
Pacificcorp	(299,493)	1014	(151,819)
PG&E Energy Trading	(10,225)	1014	(5,183)
Pinnacle West Capital Corp	(11,000)	1014	(5,576)
Portland General Electric	(84,922)	1014	(43,049)
Powerex Corp.	(546,974)	1014	(277,273)
PP&L Montana, LLC.	(54,840)	1014	(27,800)
Public Service of Colorado	(12,930)	1014	(6,554)
Rainbow Energy Marketing	(182,633)	1014	(92,581)
Redding, City of	(2,030)	1014	(1,029)
Sacramento Municipal	(9,398)	1014	(4,764)
San Diego Gas & Electric	(11,112)	1014	(5,633)
Seattle City Light Marketing	(43,046)	1014	(21,821)
Sempra Energy Trading	(186,355)	1014	(94,467)
Shell Energy (Coral Pwr)	(215,517)	1014	(109,250)
Sierra Pacific Power	(23,099)	1014	(11,709)
Silicon Valley Pwr - Santa Clara	(16,202)	1014	(8,213)
Snohomish County PUD #1	(29,170)	1014	(14,787)
Southern Cal - Edison	(18,966)	1014	(9,614)
SUEZ Energy Marketing (Tractebel)	(115,860)	1014	(58,732)
Tacoma Power	(9,162)	1014	(4,644)
TransAlta Energy Marketing	(618,699)	1014	(313,632)
TransCanada Power Corp.	(15,432)	1014	(7,823)
Turlock Irrigation District	(2,765)	1014	(1,402)
UBS AG	(74,264)	1014	(37,646)
Western Area Power Association	(515)	1014	(261)
Williams Power Company	(425)	1014	(215)
	6,117,349		3,101,016

Known Resources Serving WA Customers

2007

Resource	WA MWh	lbs CO ₂ /MWh	Short Tons CO ₂
Electron	88,729	-	-
Lower Baker	436,208	-	-
Snoqualmie Falls #1	52,146	-	-
Snoqualmie Falls #2	176,100	-	-
Upper Baker	401,050	-	-
Colstrip 1 & 2	2,366,043	2,510	2,968,949
Colstrip 3 & 4	2,776,869	2,421	3,360,762
Encogen	182,970	1,128	103,153
Goldendale	636,737	784	249,585
Crystal Mountain	313	1,963	308
Freddie #1	440,914	392	86,407
Fredonia	7,928	1,600	6,341
Fredonia 3 & 4	19,647	1,159	11,390
Fredrickson 1 & 2	8,908	1,325	5,899
Hopkins Ridge (W184)	402,465	-	-
Whitehorn 2&3	13,208	1,471	9,717
Wild Horse (W183)	612,858	-	-
BC Hydro (Point Roberts)	22,373	859	9,607
BPA	6,923	-	-
BPA Firm - WNP#3 Exchange	339,510	859	145,784
Chelan PUD - Rock Island Syst #2	1,279,176	-	-
Chelan PUD - Rocky Reach	2,478,149	-	-
Douglas PUD - Wells Project	1,143,974	-	-
Grant PUD - Priest Rapids	437,351	-	-
Grant PUD - Wanapum	471,766	-	-
Klondike Wind Power III	8,570	-	-
NWestern Energy(MPC) Firm Contract	744,477	2	916
Snohomish PUD Conservation	89,728	859	38,529
VanderHaak Dairy Digester	2,092	-	-
WASCO Hydro	43,893	-	-
Hutchinson Creek	1,860	-	-
Koma Kulshan Associates	43,644	-	-
March Point Cogen. - 1 & 2	1,025,308	716	367,300
Nooksack	22,964	-	-
Port Townsend Paper Co.	2,611	1,071	1,398
Puyallup Energy Recovery Company	2,757	-	-
Spokane MSW	141,747	4,476	317,244
Sumas Cogeneration	228,957	849	97,162
Sygitowicz Creek	458	-	-
Tenaska	729,134	885	322,748
Twin Falls Hydro	73,012	-	-
Weeks Falls	13,390	-	-

		<u>17,976,918</u>	<u>8,103,199</u>

Unknown Resources For WA Customers

2007

WA Dept. of Commerce Fuel Mix Report =

1,202

lbs CO₂ per MWh

For Year	2007	
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Resource	WA MWh	Fuel Mix lbs CO ₂ /MWh	Short Tons CO ₂
ATCO Power Canada	343	1202	206
Avista Corp. WWP Division	78,344	1202	47,077
Avista Energy	213,884	1202	128,523
Barclays Bank Plc	61,000	1202	36,655
Bear Energy LP	160,006	1202	96,148
Benton County PUD	23,621	1202	14,194
Black Hills Power	4,400	1202	2,644
Book Outs - EITF 03-11	(2,169,507)	1202	(1,303,658)
BP Energy Co.	32,332	1202	19,428
BPA	246,829	1202	148,320
British Columbia Transmission Corp	85	1202	51
Burbank, City of	1,105	1202	664
Cargill Power Markets	87,029	1202	52,296
Chelan County PUD #1	57,329	1202	34,449
Citigroup Energy Inc	186,496	1202	112,066
Clatskanie PUD	17,582	1202	10,565
Conoco, Inc.	46,240	1202	27,786
Constellation Power Source, Inc.	927,668	1202	557,436
CP Energy Marketing (Epcor)	79,114	1202	47,540
Credit Suisse Energy, LLC	153,200	1202	92,058
DB Energy Trading LLC	25,400	1202	15,263
Douglas County PUD #1	299,493	1202	179,965
ENMAX Energy Marketing, Inc.	1,711	1202	1,028
Eugene Water & Electric	94,235	1202	56,626
Fortis Energy Marketing & Trading	93,400	1202	56,124
Franklin County PUD #1	18,589	1202	11,170
Grant County PUD #2	56,689	1202	34,064
Grays Harbor PUD #1	32,287	1202	19,401
Highland Energy LLC	950	1202	571
Hinson Power Company	1,600	1202	961
Iberdrola Renewables (PPM Energy)	297,538	1202	178,791
Idaho Falls Power	42,710	1202	25,664
Idaho Power Company	60,463	1202	36,332
J. Aron & Company	22,050	1202	13,250
JP Morgan Ventures Energy	79,600	1202	47,832
Klamath Falls, City of	139,856	1202	84,040
Lehman Bros Commodity Services	67,050	1202	40,290
Los Angeles Dept. Water & Power	1,425	1202	856
Merrill Lynch Commodities	16,400	1202	9,855
Modesto Irrigation District	2,538	1202	1,525
Morgan Stanley CG	744,517	1202	447,381
N. California Power Agency	521	1202	313
Noble Americas Energy Solutions	2,096	1202	1,259
NorthPoint Energy Solutions, Inc.	6,276	1202	3,771
Northwestern Energy	12,808	1202	7,696
Occidental Power Services	10,803	1202	6,492
Okanogan PUD	4,694	1202	2,821
Pacific Northwest Generatin Coop.	170,767	1202	102,614
Pacific Summit Energy LLC	5,580	1202	3,353
Pacificcorp	207,443	1202	124,653
PG&E Energy Trading	7,857	1202	4,721
Pinnacle West Marketing & Trading	21,000	1202	12,619
Portland General Electric	315,978	1202	189,871
Powerex Corp.	287,187	1202	172,571
PP&L Montana, LLC.	61,832	1202	37,155
Public Service of Colorado	18,791	1202	11,292
Rainbow Energy Marketing	181,241	1202	108,908
Redding, City of	1,171	1202	704
Sacramento Municipal	4,925	1202	2,959
San Diego Gas & Electric	3,300	1202	1,983
Seattle City Light Marketing	132,332	1202	79,518
Sempra Energy Trading	934,094	1202	561,297
Shell Energy (Coral Pwr)	700,864	1202	421,149
Sierra Pacific Industries	13,296	1202	7,990
Sierra Pacific Power	16,272	1202	9,778
Silicon Valley Pwr - Santa Clara	80	1202	48
Snohomish County PUD #1	72,772	1202	43,729
Southern Cal - Edison	10,850	1202	6,520
SUEZ Energy Marketing (Tractebel)	106,896	1202	64,234
Tacoma Power	81,554	1202	49,006

Talen Energy (PPL Energy Plus)	11,082	1202	6,659
Tenaska	658	1202	395
The Energy Authority	13,880	1202	8,340
TransAlta Energy Marketing	1,681,755	1202	1,010,567
TransCanada Energy Marketing	9,169	1202	5,510
TransCanada Power Corp.	5,615	1202	3,374
Turlock Irrigation District	8,922	1202	5,361
UBS AG	20,016	1202	12,028
Western Area Power Association	171	1202	103
Williams Power Company	90	1202	54
Avista Energy	31,945	1202	19,196
Black Creek Hydro	2,245	1202	1,349
BPA	82,864	1202	49,793
Cargill Power Markets	28,800	1202	17,306
Deviation	24,866	1202	14,942
Douglas County PUD #1	122	1202	73
Pacific Gas & Elec - Exchange	412,900	1202	248,112
Powerex - Exchange	483,866	1202	290,755
Shell Energy (Coral Pwr)	28,832	1202	17,325
Tacoma Power	30,800	1202	18,508
TransAlta Energy Marketing	602,125	1202	361,817
Avista Energy	(32,120)	1202	(19,301)
Black Creek Hydro	(2,959)	1202	(1,778)
BPA	(83,521)	1202	(50,188)
Cargill Power Markets	(28,800)	1202	(17,306)
Citigroup Energy Inc	(50,000)	1202	(30,045)
Douglas County PUD #1	(122)	1202	(73)
Pacific Gas & Elec - Exchange	(413,001)	1202	(248,172)
Powerex - Exchange	(483,866)	1202	(290,755)
Shell Energy (Coral Pwr)	(28,832)	1202	(17,325)
Tacoma Power	(30,800)	1202	(18,508)
TransAlta Energy Marketing	(552,125)	1202	(331,772)
Avista Corp. WWP Division	(24,864)	1202	(14,941)
Avista Energy	(123,747)	1202	(74,360)
Barclays Bank Plc	(78,600)	1202	(47,231)
Bear Energy LP	(63,113)	1202	(37,925)
Benton County PUD	(5,756)	1202	(3,459)
Black Hills Power	(4,759)	1202	(2,860)
Book Outs - EITF 03-11	2,169,507	1202	1,303,658
BP Energy Co.	(29,896)	1202	(17,965)
BPA	(166,938)	1202	(100,313)
British Columbia Transmission Corp	(144)	1202	(87)
Burbank, City of	(990)	1202	(595)
Cargill Power Markets	(103,403)	1202	(62,135)
Chelan County PUD #1	(1,500)	1202	(901)
Citigroup Energy Inc	(177,691)	1202	(106,775)
Clatskanie PUD	(8,512)	1202	(5,115)
Conoco, Inc.	(27,645)	1202	(16,612)
Constellation Power Source, Inc.	(35,515)	1202	(21,341)
CP Energy Marketing (Epcor)	(46,075)	1202	(27,686)
Credit Suisse Energy, LLC	(32,236)	1202	(19,371)
DB Energy Trading LLC	(5,600)	1202	(3,365)
Douglas County PUD #1	(220)	1202	(132)
ENMAX Energy Marketing, Inc.	(4,053)	1202	(2,435)
Eugene Water & Electric	(20,381)	1202	(12,247)
Fortis Energy Marketing & Trading	(82,563)	1202	(49,612)
Franklin County PUD #1	(1,984)	1202	(1,192)
Grant County PUD #2	(10,136)	1202	(6,091)
Grays Harbor PUD #1	(4,011)	1202	(2,410)
Highland Energy LLC	(50)	1202	(30)
Hinson Power Company	(4,843)	1202	(2,910)
Iberdrola Renewables (PPM Energy)	(168,650)	1202	(101,342)
Idaho Power Company	(47,675)	1202	(28,648)
J. Aron & Company	(35,775)	1202	(21,497)
JP Morgan Ventures Energy	(30,400)	1202	(18,267)
Klamath Falls, City of	(1,172)	1202	(704)
Lehman Bros Commodity Services	(42,162)	1202	(25,335)
Los Angeles Dept. Water & Power	(4,310)	1202	(2,590)
Merrill Lynch Commodities	(20,775)	1202	(12,484)
Modesto Irrigation District	(5,467)	1202	(3,285)
Morgan Stanley CG	(308,680)	1202	(185,486)
N. California Power Agency	(789)	1202	(474)
Noble Americas Energy Solutions	(5,000)	1202	(3,005)

NorthPoint Energy Solutions, Inc.	(12,286)	1202	(7,383)
Northwestern Energy	(19,257)	1202	(11,572)
Occidental Power Services	(1,275)	1202	(766)
Pacific Northwest Generatin Coop.	(15,299)	1202	(9,193)
Pacific Summit Energy LLC	(5,250)	1202	(3,155)
Pacificcorp	(137,660)	1202	(82,720)
PG&E Energy Trading	(2,250)	1202	(1,352)
Pinnacle West Marketing & Trading	(1,034)	1202	(621)
Portland General Electric	(98,543)	1202	(59,215)
Powerex Corp.	(337,035)	1202	(202,524)
PP&L Montana, LLC.	(29,839)	1202	(17,930)
Public Service of Colorado	(1,668)	1202	(1,002)
Rainbow Energy Marketing	(174,730)	1202	(104,995)
Redding, City of	(702)	1202	(422)
Sacramento Municipal	(2,980)	1202	(1,791)
San Diego Gas & Electric	(1,200)	1202	(721)
Seattle City Light Marketing	(45,037)	1202	(27,063)
Sempra Energy Trading	(137,302)	1202	(82,505)
Shell Energy (Coral Pwr)	(155,921)	1202	(93,693)
Sierra Pacific Power	(15,870)	1202	(9,536)
Silicon Valley Pwr - Santa Clara	(1,548)	1202	(930)
Snohomish County PUD #1	(25,283)	1202	(15,193)
Southern Cal - Edison	(5,734)	1202	(3,446)
SUEZ Energy Marketing (Tractebel)	(83,511)	1202	(50,182)
Tacoma Power	(6,646)	1202	(3,994)
Talen Energy (PPL Energy Plus)	(1,217)	1202	(731)
The Energy Authority	(511)	1202	(307)
TransAlta Energy Marketing	(1,339,719)	1202	(805,038)
TransCanada Energy Marketing	(3,855)	1202	(2,316)
TransCanada Power Corp.	(2,083)	1202	(1,252)
Turlock Irrigation District	(1,311)	1202	(788)
UBS AG	(18,330)	1202	(11,015)
Western Area Power Association	(410)	1202	(246)
Williams Power Company	(1,186)	1202	(713)
	5,220,403		3,136,942

Known Resources Serving WA Customers

2008

Resource	WA MWh	lbs CO ₂ /MWh	Short Tons CO ₂
Electron	96,154	-	-
Lower Baker	321,027	-	-
Snoqualmie Falls #1	59,492	-	-
Snoqualmie Falls #2	181,143	-	-
Upper Baker	317,108	-	-
Colstrip 1 & 2	2,124,142	2,267	2,408,203
Colstrip 3 & 4	2,943,303	2,143	3,153,532
Encogen	98,884	907	44,831
Goldendale	1,368,284	686	469,580
Sumas	218,930	798	87,328
Crystal Mountain	361	1,689	305
Freddie #1	545,866	350	95,622
Fredonia	7,453	1,941	7,234
Fredonia 3 & 4	9,931	1,159	5,755
Fredrickson 1 & 2	15,741	2,256	17,756
Hopkins Ridge (W184)	425,322	-	-
Whitehorn 2&3	4,135	1,772	3,663
Wild Horse (W183)	682,097	-	-
BC Hydro (Point Roberts)	22,695	845	9,592
BPA	7,063	-	-
BPA Firm - WNP#3 Exchange	374,999	845	158,490
Chelan PUD - Rock Island Syst #2	1,327,464	-	-
Chelan PUD - Rocky Reach	2,144,307	-	-
Douglas PUD - Wells Project	1,045,492	-	-
Grant PUD - Priest Rapids	464,474	-	-
Grant PUD - Wanapum	456,458	-	-
Klondike Wind Power III	148,311	-	-
NWestern Energy(MPC) Firm Contract	795,395	2	802
Snohomish PUD Conservation	89,984	845	38,031
VanderHaak Dairy Digester	2,232	-	-
WASCO Hydro	41,552	-	-
Hutchinson Creek	2,058	-	-
Koma Kulshan Associates	36,092	-	-
March Point Cogen. - 1 & 2	1,022,961	712	364,270
Nooksack	19,741	-	-
Port Townsend Paper Co.	2,366	2,524	2,986
Puyallup Energy Recovery Company	1,747	-	-
Spokane MSW	128,135	4,609	295,317
Sygitowicz Creek	652	-	-
Tenaska	491,579	874	214,806
Twin Falls Hydro	73,323	-	-
Weeks Falls	11,994	-	-

		<u>18,130,450</u>	<u>7,378,102</u>

Unknown Resources For WA Customers

2008

WA Dept. of Commerce Fuel Mix Report =

1,024

lbs CO₂ per MWh

For Year	2008	
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Resource	WA MWh	Fuel Mix lbs CO ₂ /MWh	Short Tons CO ₂
Avista Corp. WWP Division	228,885	1024	117,243
Barclays Bank Plc	54,188	1024	27,757
Bear Energy LP	82,433	1024	42,225
Benton County PUD	5,473	1024	2,803
Black Hills Power	4,193	1024	2,148
Book Outs - EITF 03-11	(1,458,513)	1024	(747,101)
BP Energy Co.	8,471	1024	4,339
BPA	287,771	1024	147,406
Burbank, City of	1,205	1024	617
Cargill Power Markets	156,466	1024	80,147
Chelan County PUD #1	60,076	1024	30,773
Citigroup Energy Inc	176,981	1024	90,656
Clatskanie PUD	29,829	1024	15,279
Conoco, Inc.	260,284	1024	133,327
Constellation Power Source, Inc.	447,128	1024	229,035
CP Energy Marketing (Epcor)	30,330	1024	15,536
Credit Suisse Energy, LLC	28,450	1024	14,573
DB Energy Trading LLC	43,073	1024	22,063
Douglas County PUD #1	239,272	1024	122,563
ENMAX Energy Marketing, Inc.	868	1024	445
Eugene Water & Electric	123,300	1024	63,159
Fortis Energy Marketing & Trading	145,965	1024	74,768
Franklin County PUD #1	4,960	1024	2,541
Grant County PUD #2	40,063	1024	20,522
Grays Harbor PUD #1	10,385	1024	5,320
Highland Energy LLC	14,297	1024	7,323
Hinson Power Company	2,000	1024	1,024
Iberdrola Renewables (PPM Energy)	448,401	1024	229,687
Idaho Power Company	55,219	1024	28,285
Integrus Energy Services, Inc	2,400	1024	1,229
J. Aron & Company	36,400	1024	18,645
JP Morgan Ventures Energy	96,579	1024	49,471
Lehman Bros Commodity Services	14,444	1024	7,399
Los Angeles Dept. Water & Power	480	1024	246
Louis Dreyfus Energy	285	1024	146
Modesto Irrigation District	430	1024	220
Morgan Stanley CG	1,248,783	1024	639,670
N. California Power Agency	439	1024	225
NorthPoint Energy Solutions, Inc.	8,475	1024	4,341
Northwestern Energy	27,923	1024	14,303
Occidental Power Services	200	1024	102
Okanogan PUD	3,660	1024	1,875
Pacific Northwest Generatin Coop.	156,918	1024	80,379
Pacific Summit Energy LLC	82,391	1024	42,204
Pacificcorp	290,962	1024	149,041
PG&E Energy Trading	506	1024	259
Portland General Electric	106,316	1024	54,459
Powerex Corp.	352,187	1024	180,402
Public Service of Colorado	9,806	1024	5,023
Rainbow Energy Marketing	82,452	1024	42,235
Redding, City of	1,284	1024	658
Sacramento Municipal	2,095	1024	1,073
San Diego Gas & Electric	1,032	1024	529
Seattle City Light Marketing	113,723	1024	58,253
Sempra Energy Trading	894,356	1024	458,120
Shell Energy (Coral Pwr)	940,286	1024	481,647
Sierra Pacific Power	7,828	1024	4,010
Silicon Valley Pwr - Santa Clara	1,820	1024	932
Snohomish County PUD #1	76,572	1024	39,223
Southern Cal - Edison	6,100	1024	3,125
SUEZ Energy Marketing (Tractebel)	24,295	1024	12,445
Tacoma Power	100,697	1024	51,581
Talen Energy (PPL Energy Plus)	103,775	1024	53,157
Tenaska	114,114	1024	58,453
The Energy Authority	54,630	1024	27,983
TransAlta Energy Marketing	583,432	1024	298,854
TransCanada Energy Marketing	11,288	1024	5,782
TransCanada Power Corp.	5,120	1024	2,623
Turlock Irrigation District	6,176	1024	3,164
UBS AG	32,800	1024	16,801

Western Area Power Association	796	1024	408
Black Creek Hydro	4,649	1024	2,381
BPA	97,704	1024	50,047
Constellation Power Source, Inc.	70,000	1024	35,856
Deviation	(28,008)	1024	(14,347)
Pacific Gas & Elec - Exchange	413,116	1024	211,612
Powerex - Exchange	25,607	1024	13,117
Seattle City Light Marketing	18,800	1024	9,630
TransAlta Energy Marketing	1,099,250	1024	563,074
Black Creek Hydro	(4,708)	1024	(2,412)
BPA	(99,125)	1024	(50,775)
Constellation Power Source, Inc.	(70,000)	1024	(35,856)
Pacific Gas & Elec - Exchange	(413,016)	1024	(211,561)
Powerex - Exchange	(25,607)	1024	(13,117)
Seattle City Light Marketing	(18,800)	1024	(9,630)
TransAlta Energy Marketing	(1,099,250)	1024	(563,074)
Arizona Public Service	(15)	1024	(8)
Avista Corp. WWP Division	(41,915)	1024	(21,470)
Barclays Bank Plc	(32,027)	1024	(16,405)
Bear Energy LP	(43,931)	1024	(22,503)
Benton County PUD	(1,335)	1024	(684)
Black Hills Power	(2,123)	1024	(1,087)
Book Outs - EITF 03-11	1,458,513	1024	747,101
BP Energy Co.	(28,512)	1024	(14,605)
BPA	(138,425)	1024	(70,906)
British Columbia Transmission Corp	(23)	1024	(12)
Burbank, City of	(1,085)	1024	(556)
Cargill Power Markets	(177,806)	1024	(91,078)
Chelan County PUD #1	(7,327)	1024	(3,753)
Citigroup Energy Inc	(232,727)	1024	(119,211)
Clatskanie PUD	(17,042)	1024	(8,730)
Conoco, Inc.	(8,142)	1024	(4,171)
Constellation Power Source, Inc.	(86,673)	1024	(44,397)
CP Energy Marketing (Epcor)	(7,691)	1024	(3,940)
Credit Suisse Energy, LLC	(1,600)	1024	(820)
DB Energy Trading LLC	(53,578)	1024	(27,445)
Douglas County PUD #1	(461)	1024	(236)
ENMAX Energy Marketing, Inc.	(2,690)	1024	(1,378)
Eugene Water & Electric	(38,663)	1024	(19,805)
Fortis Energy Marketing & Trading	(131,275)	1024	(67,244)
Franklin County PUD #1	(690)	1024	(353)
Grant County PUD #2	(13,801)	1024	(7,069)
Grays Harbor PUD #1	(937)	1024	(480)
Highland Energy LLC	(14,406)	1024	(7,379)
Hinson Power Company	(10,318)	1024	(5,285)
Iberdrola Renewables (PPM Energy)	(97,329)	1024	(49,855)
Idaho Power Company	(22,104)	1024	(11,322)
Integrus Energy Services, Inc	(3,600)	1024	(1,844)
J. Aron & Company	(20,700)	1024	(10,603)
JP Morgan Ventures Energy	(98,388)	1024	(50,398)
Lehman Bros Commodity Services	(5,520)	1024	(2,828)
Louis Dreyfus Energy	(1,113)	1024	(570)
Merrill Lynch Commodities	(5,200)	1024	(2,664)
Modesto Irrigation District	(180)	1024	(92)
Morgan Stanley CG	(491,984)	1024	(252,011)
N. California Power Agency	(260)	1024	(133)
NorthPoint Energy Solutions, Inc.	(5,792)	1024	(2,967)
Northwestern Energy	(13,384)	1024	(6,856)
Okanogan PUD	(455)	1024	(233)
Pacific Northwest Generatin Coop.	(11,857)	1024	(6,074)
Pacific Summit Energy LLC	(80,207)	1024	(41,085)
Pacificorp	(122,205)	1024	(62,598)
PG&E Energy Trading	(800)	1024	(410)
Portland General Electric	(37,229)	1024	(19,070)
Powerex Corp.	(317,422)	1024	(162,595)
Public Service of Colorado	(15,435)	1024	(7,906)
Rainbow Energy Marketing	(74,196)	1024	(38,006)
Redding, City of	(1,257)	1024	(644)
Sacramento Municipal	(2,305)	1024	(1,181)
San Diego Gas & Electric	(30,998)	1024	(15,878)
Seattle City Light Marketing	(51,896)	1024	(26,583)
Sempra Energy Trading	(38,348)	1024	(19,643)
Shell Energy (Coral Pwr)	(158,471)	1024	(81,174)

Sierra Pacific Power	(17,217)	1024	(8,819)
Silicon Valley Pwr - Santa Clara	(166)	1024	(85)
Snohomish County PUD #1	(22,679)	1024	(11,617)
Southern Cal - Edison	(4,250)	1024	(2,177)
SUEZ Energy Marketing (Tractebel)	(15,700)	1024	(8,042)
Synergy Power Marketing	(2,578)	1024	(1,321)
Tacoma Power	(3,208)	1024	(1,643)
Talen Energy (PPL Energy Plus)	(22,392)	1024	(11,470)
The Energy Authority	(11,297)	1024	(5,787)
TransAlta Energy Marketing	(200,683)	1024	(102,797)
TransCanada Energy Marketing	(14,678)	1024	(7,519)
Turlock Irrigation District	(2,835)	1024	(1,452)
UBS AG	(1,600)	1024	(820)
Western Area Power Association	(275)	1024	(141)
	5,441,422		2,787,287

Known Resources Serving WA Customers

2009

Resource	WA MWh	lbs CO ₂ /MWh	Short Tons CO ₂
Electron	90,894	-	-
Lower Baker	344,847	-	-
Snoqualmie Falls #1	62,769	-	-
Snoqualmie Falls #2	151,915	-	-
Upper Baker	337,354	-	-
Colstrip 1 & 2	2,310,597	2,654	3,066,301
Colstrip 3 & 4	2,140,507	2,551	2,730,520
Encogen	384,510	1,108	213,081
Goldendale	1,368,799	888	607,905
Mint Farm	1,426,828	914	651,926
Sumas	539,532	1,080	291,289
Crystal Mountain	419	1,824	383
Freddie #1	454,203	938	213,104
Fredonia	64,045	1,569	50,257
Fredonia 3 & 4	89,229	1,397	62,317
Fredrickson 1 & 2	18,586	1,770	16,449
Hopkins Ridge (W184)	381,219	-	-
Whitehorn 2&3	16,995	1,739	14,777
Wild Horse (W183)	565,275	-	-
BC Hydro (Point Roberts)	22,271	819	9,122
BPA	7,014	-	-
BPA Firm - WNP#3 Exchange	393,717	819	161,268
Chelan PUD - Rock Island Syst #2	1,263,318	-	-
Chelan PUD - Rocky Reach	2,007,333	-	-
Douglas PUD - Wells Project	959,848	-	-
Farm Power Rexville LLC	1,523	-	-
Grant PUD - Priest Rapids	234,580	-	-
Grant PUD - Priest Rapids Project	82,584	-	-
Grant PUD - Wanapum	313,799	-	-
Klondike Wind Power III	132,569	-	-
NWestern Energy(MPC) Firm Contract	591,921	2	717
Qualco Energy	3,036	-	-
Snohomish PUD Conservation	89,728	819	36,753
VanderHaak Dairy Digester	2,346	-	-
WASCO Hydro	39,992	-	-
Koma Kulshan Associates	36,065	-	-
March Point Cogen. - 1 & 2	995,858	711	354,048
Nooksack	23,210	-	-
Port Townsend Paper Co.	1,817	999	907
Puyallup Energy Recovery Company	344	-	-
Spokane MSW	133,987	1,701	113,963
Sygitowicz Creek	1,018	-	-
Tenaska	866,455	885	383,621

Twin Falls Hydro	69,082	-	-
Weeks Falls	12,348	-	-
	<u>19,034,284</u>		<u>8,978,707</u>


Unknown Resources For WA Customers

2009

WA Dept. of Commerce Fuel Mix Report =

1,119

lbs CO₂ per MWh

For Year	2009	
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Resource	WA MWh	Fuel Mix lbs CO ₂ /MWh	Short Tons CO ₂
Avista Corp. WWP Division	165,618	1119	92,646
Barclays Bank Plc	16,746	1119	9,368
Black Hills Power	3,800	1119	2,126
Book Outs - EITF 03-11	(3,599,695)	1119	(2,013,658)
BP Energy Co.	37,192	1119	20,805
BPA	334,870	1119	187,325
Burbank, City of	175	1119	98
Cargill Power Markets	380,859	1119	213,051
Chelan County PUD #1	29,209	1119	16,339
Citigroup Energy Inc	338,327	1119	189,259
Clatskanie PUD	50,919	1119	28,484
Conoco, Inc.	73,722	1119	41,240
Constellation Power Source, Inc.	562,741	1119	314,796
CP Energy Marketing (Epcor)	28,908	1119	16,171
Credit Suisse Energy, LLC	445,000	1119	248,932
DB Energy Trading LLC	147,600	1119	82,567
Douglas County PUD #1	187,749	1119	105,026
Eagle Energy Partners	106,240	1119	59,430
EDF Trading NA LLC	31,850	1119	17,817
Endure Energy LLC	30,600	1119	17,118
ENMAX Energy Marketing, Inc.	2,456	1119	1,374
Eugene Water & Electric	89,317	1119	49,964
Fortis Energy Marketing & Trading	133,941	1119	74,926
Grant County PUD #2	53,441	1119	29,895
Hinson Power Company	800	1119	448
Iberdrola Renewables (PPM Energy)	882,331	1119	493,573
Idaho Falls Power	37,654	1119	21,064
Idaho Power Company	92,731	1119	51,873
Integrus Energy Services, Inc	1,800	1119	1,007
J. Aron & Company	14,000	1119	7,832
JP Morgan Ventures Energy	143,436	1119	80,238
Los Angeles Dept. Water & Power	50	1119	28
Merrill Lynch Commodities	400	1119	224
Modesto Irrigation District	90	1119	50
Morgan Stanley CG	992,212	1119	555,040
N. California Power Agency	323	1119	181
Noble Americas Energy Solutions	3,400	1119	1,902
NorthPoint Energy Solutions, Inc.	6,592	1119	3,688
Northwestern Energy	7,969	1119	4,458
Occidental Power Services	31,600	1119	17,677
Okanogan PUD	3,810	1119	2,131
Pacific Northwest Generatin Coop.	216,587	1119	121,158
Pacific Summit Energy LLC	68,094	1119	38,092
Pacificcorp	185,612	1119	103,831
Portland General Electric	208,659	1119	116,723
Powerex Corp.	316,076	1119	176,812
Public Service of Colorado	3,600	1119	2,014
Rainbow Energy Marketing	222,154	1119	124,272
Redding, City of	496	1119	277
Sacramento Municipal	6,590	1119	3,686
Seattle City Light Marketing	211,502	1119	118,314
Sempra Energy Trading	2,267,825	1119	1,268,614
Shell Energy (Coral Pwr)	485,252	1119	271,448
Sierra Pacific Power	25	1119	14
Snohomish County PUD #1	57,116	1119	31,951
Southern Cal - Edison	7,805	1119	4,366
Tacoma Power	75,813	1119	42,410
Talen Energy (PPL Energy Plus)	407,444	1119	227,923
Tenaska	2,895	1119	1,619
The Energy Authority	122,625	1119	68,596
TransAlta Energy Marketing	278,480	1119	155,781
TransCanada Energy Marketing	7,326	1119	4,098
TransCanada Energy Sales Ltd	9,898	1119	5,537
Turlock Irrigation District	850	1119	475
Western Area Power Association	360	1119	201
Black Creek Hydro	6,088	1119	3,406
BPA	76,504	1119	42,796
Deviation	(23,318)	1119	(13,044)
Morgan Stanley CG	20,000	1119	11,188
Pacific Gas & Elec - Exchange	413,000	1119	231,031

Powerex Corp.	38,000	1119	21,257
TransAlta Energy Marketing	1,533,600	1119	857,891
Black Creek Hydro	(4,172)	1119	(2,334)
BPA	(81,545)	1119	(45,616)
Deviation	(43,829)	1119	(24,518)
Morgan Stanley CG	(17,200)	1119	(9,622)
Pacific Gas & Elec - Exchange	(413,000)	1119	(231,031)
Powerex Corp.	(68,795)	1119	(38,484)
TransAlta Energy Marketing	(1,533,600)	1119	(857,891)
Avista Corp. WWP Division	(39,571)	1119	(22,136)
Barclays Bank Plc	(33,513)	1119	(18,747)
Black Hills Power	(1,600)	1119	(895)
Book Outs - EITF 03-11	3,599,695	1119	2,013,658
BP Energy Co.	(152,945)	1119	(85,557)
BPA	(254,156)	1119	(142,174)
British Columbia Transmission Corp	(35)	1119	(20)
Cargill Power Markets	(240,421)	1119	(134,491)
Chelan County PUD #1	(3,890)	1119	(2,176)
Citigroup Energy Inc	(635,716)	1119	(355,618)
Clatskanie PUD	(15,633)	1119	(8,745)
Conoco, Inc.	(111,736)	1119	(62,505)
Constellation Power Source, Inc.	(61,701)	1119	(34,515)
CP Energy Marketing (Epcor)	(605)	1119	(338)
Credit Suisse Energy, LLC	(8,444)	1119	(4,724)
DB Energy Trading LLC	(182,400)	1119	(102,034)
Douglas County PUD #1	(450)	1119	(252)
Eagle Energy Partners	(10,242)	1119	(5,729)
ENMAX Energy Marketing, Inc.	(6,394)	1119	(3,577)
Eugene Water & Electric	(19,889)	1119	(11,126)
Fortis Energy Marketing & Trading	(110,920)	1119	(62,048)
Grant County PUD #2	(22,571)	1119	(12,626)
Hinson Power Company	(3,950)	1119	(2,210)
Iberdrola Renewables (PPM Energy)	(485,458)	1119	(271,564)
Idaho Power Company	(31,952)	1119	(17,874)
Integrus Energy Services, Inc	(4,800)	1119	(2,685)
J. Aron & Company	(43,800)	1119	(24,502)
JP Morgan Ventures Energy	(162,587)	1119	(90,951)
Los Angeles Dept. Water & Power	(400)	1119	(224)
Modesto Irrigation District	(2,329)	1119	(1,303)
Morgan Stanley CG	(660,584)	1119	(369,529)
N. California Power Agency	(558)	1119	(312)
Natur Ener USA	(9)	1119	(5)
NorthPoint Energy Solutions, Inc.	(40,364)	1119	(22,579)
Northwestern Energy	(22,137)	1119	(12,383)
Occidental Power Services	(33,200)	1119	(18,572)
Okanogan PUD	(180)	1119	(101)
Pacific Northwest Generatin Coop.	(15,026)	1119	(8,405)
Pacific Summit Energy LLC	(141,740)	1119	(79,289)
Pacificorp	(175,631)	1119	(98,247)
PG&E Energy Trading	(1,400)	1119	(783)
Portland General Electric	(88,446)	1119	(49,476)
Powerex Corp.	(547,840)	1119	(306,460)
Public Service of Colorado	(6,800)	1119	(3,804)
Rainbow Energy Marketing	(57,994)	1119	(32,442)
Redding, City of	(441)	1119	(247)
Sacramento Municipal	(11,919)	1119	(6,667)
San Diego Gas & Electric	(1,032)	1119	(577)
Seattle City Light Marketing	(33,841)	1119	(18,931)
Sempra Energy Trading	(272,319)	1119	(152,334)
Shell Energy (Coral Pwr)	(446,690)	1119	(249,877)
Sierra Pacific Power	(3,532)	1119	(1,976)
Silicon Valley Pwr - Santa Clara	(35)	1119	(20)
Snohomish County PUD #1	(10,967)	1119	(6,135)
Southern Cal - Edison	(502,250)	1119	(280,957)
Tacoma Power	(2,294)	1119	(1,283)
Talen Energy (PPL Energy Plus)	(71,305)	1119	(39,888)
The Energy Authority	(14,698)	1119	(8,222)
TransAlta Energy Marketing	(297,158)	1119	(166,229)
TransCanada Energy Marketing	(4,687)	1119	(2,622)
TransCanada Energy Sales Ltd	(10,850)	1119	(6,069)
Turlock Irrigation District	(3,013)	1119	(1,685)
Western Area Power Association	(80)	1119	(45)

	4,408,167		2,465,915

Known Resources Serving WA Customers

2010

Resource	WA MWh	lbs CO ₂ /MWh	Short Tons CO ₂
Electron	88,025	-	-
Lower Baker	366,338	-	-
Snoqualmie Falls #1	13,051	-	-
Snoqualmie Falls #2	101,677	-	-
Upper Baker	360,505	-	-
Colstrip 1 & 2	2,293,375	2,459	2,820,139
Colstrip 3 & 4	2,904,730	2,254	3,273,215
Encogen	197,772	1,048	103,636
Freddie #1	418,446	852	178,267
Goldendale	1,541,236	802	618,132
Mint Farm	1,441,302	853	614,819
Sumas	410,626	1,004	206,118
Crystal Mountain	114	2,093	119
Fredonia	11,885	1,779	10,571
Fredonia 3 & 4	62,288	1,251	38,956
Fredrickson 1 & 2	10,272	2,013	10,337
Hopkins Ridge (W184)	381,271	-	-
Whitehorn 2&3	8,367	1,870	7,824
Wild Horse (W183)	609,655	-	-
BC Hydro (Point Roberts)	20,921	843	8,814
Book Outs - EITF 03-11	(753,803)	-	-
BPA	7,000	-	-
BPA Firm - WNP#3 Exchange	406,710	843	171,343
Chelan PUD - Rock Island Syst #2	1,213,235	-	-
Chelan PUD - Rocky Reach	1,914,094	-	-
Credit Suisse Energy, LLC	107,950	843	45,478
Douglas PUD - Wells Project	871,104	-	-
Farm Power Lynden LLC	204	-	-
Farm Power Rexville LLC	4,874	-	-
Grant PUD - Priest Rapids Project	331,731	-	-
Klondike Wind Power III	120,632	-	-
NWestern Energy(MPC) Firm Contract	788,313	2	850
Powerex Corp.	179,999	843	75,832
Qualco Energy	3,520	-	-
Sempra Energy Trading	547,795	843	230,780
Shell Energy (Coral Pwr)	330,050	843	139,047
Snohomish PUD Conservation	14,464	843	6,094
VanderHaak Dairy Digester	2,552	-	-
WASCO Hydro	40,782	-	-
Hutchinson Creek	1,107	-	-
Koma Kulshan Associates	42,708	-	-
March Point Cogen. - 1 & 2	1,081,243	713	385,211
Nooksack	25,922	-	-

Port Townsend Paper Co.	2,886	1,034	1,492
Spokane MSW	141,480	4,609	326,048
Sygitowicz Creek	1,228	-	-
Tenaska	652,723	885	288,992
Twin Falls Hydro	73,498	-	-
Weeks Falls	13,234	-	-
	<u>19,409,091</u>		<u>9,562,115</u>

Unknown Resources For WA Customers

2010

WA Dept. of Commerce Fuel Mix Report =

1,192

lbs CO₂ per MWh

For Year	2010	
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Resource	WA MWh	Fuel Mix lbs CO ₂ /MWh	Short Tons CO ₂
Avista Corp. WWP Division	165,695	1192	98,730
Barclays Bank Plc	138,700	1192	82,646
Black Hills Power	1,224	1192	729
BNP Paribas Energy Trading	15,600	1192	9,295
Book Outs - EITF 03-11	(3,094,185)	1192	(1,843,695)
BP Energy Co.	78,616	1192	46,844
BPA	206,160	1192	122,842
Burbank, City of	59,686	1192	35,564
Cargill Power Markets	183,821	1192	109,531
Chelan County PUD #1	15,633	1192	9,315
Citigroup Energy Inc	775,756	1192	462,241
Clatskanie PUD	25,594	1192	15,250
Conoco, Inc.	82,208	1192	48,984
Constellation Power Source, Inc.	95,234	1192	56,746
CP Energy Marketing (Epcor)	10,876	1192	6,481
DB Energy Trading LLC	117,600	1192	70,073
Douglas County PUD #1	184,451	1192	109,907
Eagle Energy Partners	31	1192	18
EDF Trading NA LLC	320,131	1192	190,753
Endure Energy LLC	17,600	1192	10,487
ENMAX Energy Marketing, Inc.	430	1192	256
Eugene Water & Electric	63,929	1192	38,093
Fortis Energy Marketing & Trading	4,000	1192	2,383
Grant County PUD #2	20,495	1192	12,212
Iberdrola Renewables (PPM Energy)	682,132	1192	406,454
Idaho Power Company	17,382	1192	10,357
J. Aron & Company	32,200	1192	19,187
JP Morgan Ventures Energy	136,924	1192	81,587
Merrill Lynch Commodities	55,600	1192	33,130
Modesto Irrigation District	45	1192	27
Morgan Stanley CG	1,135,590	1192	676,651
NextEra Energy Power Marketing	20,186	1192	12,028
Noble Americas Energy Solutions	24,200	1192	14,420
NorthPoint Energy Solutions, Inc.	4,037	1192	2,405
Northwestern Energy	2,854	1192	1,701
Occidental Power Services	30,400	1192	18,114
Okanogan PUD	2,374	1192	1,415
Pacific Northwest Generatin Coop.	87,811	1192	52,323
Pacific Summit Energy LLC	46,767	1192	27,866
Pacificcorp	80,243	1192	47,813
Portland General Electric	292,936	1192	174,548
Powerex Corp.	300,036	1192	178,779
Public Service of Colorado	6,500	1192	3,873
Rainbow Energy Marketing	98,150	1192	58,483
Redding, City of	173	1192	103
Sacramento Municipal	5,475	1192	3,262
San Diego Gas & Electric	684	1192	408
Seattle City Light Marketing	249,821	1192	148,858
Sempra Energy Trading	995,085	1192	592,930
Shell Energy (Coral Pwr)	355,579	1192	211,875
Sierra Pacific Power	1,600	1192	953
Snohomish County PUD #1	45,702	1192	27,232
Southern Cal - Edison	13,647	1192	8,132
Tacoma Power	47,836	1192	28,503
Talen Energy (PPL Energy Plus)	147,357	1192	87,804
Tenaska	1,038	1192	619
The Energy Authority	78,028	1192	46,494
TransAlta Energy Marketing	1,107,783	1192	660,082
TransCanada Energy Sales Ltd	8,791	1192	5,238
Turlock Irrigation District	52,383	1192	31,213
Western Area Power Association	20	1192	12
Black Creek Hydro	11,424	1192	6,807
BPA	65,580	1192	39,076
Pacific Gas & Elec - Exchange	412,908	1192	246,035
TransAlta Energy Marketing	1,533,400	1192	913,689
Black Creek Hydro	(10,438)	1192	(6,220)
BPA	(57,475)	1192	(34,247)
Deviation	20,831	1192	12,413
Pacific Gas & Elec - Exchange	(413,000)	1192	(246,089)
TransAlta Energy Marketing	(1,536,249)	1192	(915,387)

Avista Corp. WWP Division	(27,014)	1192	(16,097)
Barclays Bank Plc	(40,109)	1192	(23,899)
Black Hills Power	(2,465)	1192	(1,469)
BNP Paribas Energy Trading	(29,925)	1192	(17,831)
Book Outs - EITF 03-11	3,847,988	1192	2,292,855
BP Energy Co.	(259,544)	1192	(154,651)
BPA	(159,865)	1192	(95,257)
British Columbia Transmission Corp	(49)	1192	(29)
Burbank, City of	(530)	1192	(316)
Cargill Power Markets	(261,663)	1192	(155,914)
Chelan County PUD #1	(5,161)	1192	(3,075)
Citigroup Energy Inc	(767,741)	1192	(457,465)
Clatskanie PUD	(10,025)	1192	(5,973)
Conoco, Inc.	(111,624)	1192	(66,512)
Constellation Power Source, Inc.	(42,662)	1192	(25,421)
CP Energy Marketing (Epcor)	(54,095)	1192	(32,233)
DB Energy Trading LLC	(150,800)	1192	(89,855)
Douglas County PUD #1	(1,065)	1192	(635)
Eagle Energy Partners	(831)	1192	(495)
EDF Trading NA LLC	(58,348)	1192	(34,767)
Endure Energy LLC	(1,200)	1192	(715)
ENMAX Energy Marketing, Inc.	(1,808)	1192	(1,077)
Eugene Water & Electric	(14,553)	1192	(8,672)
Fortis Energy Marketing & Trading	(12,000)	1192	(7,150)
Grant County PUD #2	(45,909)	1192	(27,355)
Iberdrola Renewables (PPM Energy)	(442,218)	1192	(263,499)
Idaho Power Company	(60,759)	1192	(36,204)
J. Aron & Company	(800)	1192	(477)
JP Morgan Ventures Energy	(92,601)	1192	(55,177)
Merrill Lynch Commodities	(75,385)	1192	(44,919)
Modesto Irrigation District	(10)	1192	(6)
Morgan Stanley CG	(454,431)	1192	(270,776)
N. California Power Agency	(356)	1192	(212)
Natur Ener USA	(2)	1192	(1)
NextEra Energy Power Marketing	(294)	1192	(175)
NorthPoint Energy Solutions, Inc.	(10,173)	1192	(6,062)
Northwestern Energy	(48,784)	1192	(29,068)
Okanogan PUD	(175)	1192	(104)
Pacific Northwest Generatin Coop.	(4,755)	1192	(2,833)
Pacific Summit Energy LLC	(111,596)	1192	(66,495)
Pacificorp	(167,918)	1192	(100,055)
Portland General Electric	(68,889)	1192	(41,048)
Powerex Corp.	(330,673)	1192	(197,034)
Public Service of Colorado	(4,400)	1192	(2,622)
Rainbow Energy Marketing	(46,883)	1192	(27,936)
Redding, City of	(463)	1192	(276)
Sacramento Municipal	(4,178)	1192	(2,489)
San Diego Gas & Electric	(10,399)	1192	(6,196)
Seattle City Light Marketing	(24,056)	1192	(14,334)
Sempra Energy Trading	(112,120)	1192	(66,808)
Shell Energy (Coral Pwr)	(449,454)	1192	(267,811)
Sierra Pacific Power	(2,937)	1192	(1,750)
Snohomish County PUD #1	(6,352)	1192	(3,785)
Southern Cal - Edison	(1,236,986)	1192	(737,068)
Tacoma Power	(2,132)	1192	(1,270)
Talen Energy (PPL Energy Plus)	(176,278)	1192	(105,037)
The Energy Authority	(8,119)	1192	(4,838)
TransAlta Energy Marketing	(318,081)	1192	(189,531)
TransCanada Energy Sales Ltd	(9,650)	1192	(5,750)
Turlock Irrigation District	(5,147)	1192	(3,067)
	3,185,183		1,897,917

Known Resources Serving WA Customers

2011

Resource	WA MWh	lbs CO ₂ /MWh	Short Tons CO ₂
Electron	50,341	-	-
Lower Baker	332,792	-	-
Snoqualmie Falls #1	(290)	-	-
Snoqualmie Falls #2	(175)	-	-
Upper Baker	301,309	-	-
Colstrip 1 & 2	1,897,910	2,327	2,208,276
Colstrip 3 & 4	2,312,673	2,380	2,751,525
Encogen	88,888	1,095	48,657
Freddie #1	135,218	868	58,692
Goldendale	609,013	795	242,000
Mint Farm	702,081	871	305,693
Sumas	178,397	1,016	90,630
Crystal Mountain	273	1,835	251
Fredonia	27,940	1,632	22,806
Fredonia 3 & 4	48,850	1,232	30,081
Fredrickson 1 & 2	9,976	12,617	62,931
Hopkins Ridge (W184)	433,219	-	-
Whitehorn 2&3	22,501	1,901	21,384
Wild Horse (W183)	730,659	-	-
3 Bar G Wind Turbine #3 LLC	105	-	-
Barclays Bank Plc	109,875	845	46,438
BC Hydro (Point Roberts)	22,074	845	9,329
Black Creek Hydro Inc	9,716	-	-
Book Outs - EITF 03-11	(509,390)	-	-
BPA	7,000	-	-
BPA Firm - WNP#3 Exchange	413,808	845	174,892
Chelan PUD - RI & RR	129,926	-	-
Chelan PUD - Rock Island Syst #2	1,647,786	-	-
Chelan PUD - Rocky Reach	2,517,798	-	-
Douglas PUD - Wells Project	1,061,183	-	-
Farm Power Lynden LLC	3,412	-	-
Farm Power Rexville LLC	4,904	-	-
Grant PUD - Priest Rapids Project	253,731	-	-
Island Community Solar LLC	15	-	-
JP Morgan Ventures Energy	385,873	845	163,086
Klondike Wind Power III	132,950	-	-
Knudsen Wind Turbine #1	86	-	-
Powerex Corp.	180,000	845	76,075
Qualco Energy	3,315	-	-
Sempra Energy Trading	161,925	845	68,436
Shell Energy (Coral Pwr)	437,989	845	185,112
Skookumchuck Hydro	5,017	-	-
Smith Creek Hydro	170	-	-

Van Dyk - S Holsteins	750	-	-
VanderHaak Dairy Digester	3,919	-	-
WASCO Hydro	38,437	-	-
Hutchinson Creek	1,180	-	-
Koma Kulshan Associates	41,095	-	-
March Point Cogen. - 1 & 2	769,775	712	274,126
Nooksack	24,529	-	-
Port Townsend Paper Co.	2,962	1,037	1,536
Spokane MSW	143,386	4,486	321,649
Sygitowicz Creek	1,154	-	-
Tenaska	81,307	776	31,534
Twin Falls Hydro	90,260	-	-
Weeks Falls	15,834	-	-
	<u>16,075,429</u>		<u>7,195,140</u>

Unknown Resources For WA Customers

2011

WA Dept. of Commerce Fuel Mix Report =

905

lbs CO₂ per MWh

For Year	2011	
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Resource	WA MWh	Fuel Mix lbs CO ₂ /MWh	Short Tons CO ₂
Avista Corp. WWP Division	117,376	905	53,093
Barclays Bank Plc	27,750	905	12,552
Black Hills Power	3,515	905	1,590
BNP Paribas Energy Trading	119,000	905	53,827
Book Outs - EITF 03-11	(3,113,284)	905	(1,408,231)
BP Energy Co.	345,552	905	156,303
BPA	382,105	905	172,837
British Columbia Transmission Corp	9	905	4
Burbank, City of	2,000	905	905
Cargill Power Markets	318,865	905	144,232
Chelan County PUD #1	8,620	905	3,899
Citigroup Energy Inc	1,028,188	905	465,080
Clark Public Utilities	8,570	905	3,876
Clatskanie PUD	15,878	905	7,182
Constellation Power Source, Inc.	298,689	905	135,106
CP Energy Marketing (Epcor)	5,848	905	2,645
DB Energy Trading LLC	197,398	905	89,289
Douglas County PUD #1	277,494	905	125,519
EDF Trading NA LLC	585,729	905	264,943
Eugene Water & Electric	63,900	905	28,904
Exelon Generation Co LLC	10,000	905	4,523
Grant County PUD #2	57,335	905	25,934
Hinson Power Company	20,800	905	9,408
Iberdrola Renewables (PPM Energy)	587,403	905	265,700
Idaho Power Company	73,320	905	33,165
J. Aron & Company	400	905	181
JP Morgan Ventures Energy	1,148,676	905	519,580
Merrill Lynch Commodities	350,800	905	158,677
Morgan Stanley CG	1,335,550	905	604,109
NextEra Energy Power Marketing	30,168	905	13,646
Noble Americas Energy Solutions	10,800	905	4,885
Noble Americas Gas & Power	3,200	905	1,447
NorthPoint Energy Solutions, Inc.	430	905	195
Northwestern Energy	6,224	905	2,815
Okanogan PUD	4,945	905	2,237
Pacific Northwest Generatin Coop.	337,472	905	152,649
Pacific Summit Energy LLC	1,952	905	883
Pacificcorp	78,506	905	35,511
PG&E Energy Trading	104,400	905	47,223
Portland General Electric	41,895	905	18,950
Powerex Corp.	168,076	905	76,026
Public Service of Colorado	800	905	362
Rainbow Energy Marketing	48,216	905	21,810
Sacramento Municipal	5,763	905	2,607
San Diego Gas & Electric	556	905	251
Seattle City Light Marketing	251,794	905	113,894
Sempra Energy Trading	77,538	905	35,073
Shell Energy (Coral Pwr)	484,678	905	219,234
Sierra Pacific Power	125	905	57
Snohomish County PUD #1	43,003	905	19,452
Southern Cal - Edison	14,057	905	6,358
Tacoma Power	108,837	905	49,230
Talen Energy (PPL Energy Plus)	122,522	905	55,420
Tenaska	202	905	91
Tenaska Power Services Co.	400	905	181
The Energy Authority	55,496	905	25,102
TransAlta Energy Marketing	2,238,117	905	1,012,367
Turlock Irrigation District	37,399	905	16,917
Western Area Power Association	1,669	905	755
Black Creek Hydro	3,049	905	1,379
BPA	45,405	905	20,538
Pacific Gas & Elec - Exchange	413,092	905	186,854
Black Creek Hydro	(6,556)	905	(2,965)
BPA	(46,691)	905	(21,120)
Deviation	34,040	905	15,397
Pacific Gas & Elec - Exchange	(413,000)	905	(186,812)
Avista Corp. WWP Division	(30,733)	905	(13,901)
Barclays Bank Plc	(29,465)	905	(13,328)
Black Hills Power	(2,654)	905	(1,200)
BNP Paribas Energy Trading	(20,616)	905	(9,325)

Book Outs - EITF 03-11	3,622,674	905	1,638,643
BP Energy Co.	(148,410)	905	(67,130)
BPA	(84,760)	905	(38,339)
British Columbia Transmission Corp	(1)	905	(0)
Burbank, City of	(800)	905	(362)
Cargill Power Markets	(141,861)	905	(64,168)
Chelan County PUD #1	(1,600)	905	(724)
Citigroup Energy Inc	(167,241)	905	(75,648)
Clark Public Utilities	(6,320)	905	(2,859)
Clatskanie PUD	(8,952)	905	(4,049)
Conoco, Inc.	(40)	905	(18)
Constellation Power Source, Inc.	(50,578)	905	(22,878)
CP Energy Marketing (Epcor)	(9,659)	905	(4,369)
DB Energy Trading LLC	(73,077)	905	(33,055)
Douglas County PUD #1	(1,531)	905	(693)
EDF Trading NA LLC	(95,429)	905	(43,165)
ENMAX Energy Marketing, Inc.	567	905	256
Eugene Water & Electric	(33,425)	905	(15,119)
Exelon Generation Co LLC	(15,200)	905	(6,875)
Grant County PUD #2	(27,856)	905	(12,600)
Iberdrola Renewables (PPM Energy)	(428,020)	905	(193,606)
Idaho Power Company	(24,625)	905	(11,139)
J. Aron & Company	(21,600)	905	(9,770)
JP Morgan Ventures Energy	(47,261)	905	(21,378)
Los Angeles Dept. Water & Power	(1,150)	905	(520)
Merrill Lynch Commodities	(18,800)	905	(8,504)
Morgan Stanley CG	(586,129)	905	(265,124)
N. California Power Agency	(482)	905	(218)
Natur Ener USA	(30)	905	(14)
NextEra Energy Power Marketing	(9,250)	905	(4,184)
Noble Americas Energy Solutions	(800)	905	(362)
Noble Americas Gas & Power	(3,388)	905	(1,532)
NorthPoint Energy Solutions, Inc.	(7,683)	905	(3,475)
Northwestern Energy	(56,370)	905	(25,498)
Okanogan PUD	(855)	905	(387)
Pacific Northwest Generatin Coop.	(1,655)	905	(749)
Pacific Summit Energy LLC	(57,339)	905	(25,936)
Pacificorp	(246,935)	905	(111,696)
PG&E Energy Trading	(790,398)	905	(357,521)
Portland General Electric	(251,716)	905	(113,859)
Powerex Corp.	(294,366)	905	(133,150)
Public Service of Colorado	(1,600)	905	(724)
Rainbow Energy Marketing	(69,776)	905	(31,562)
Redding, City of	(69)	905	(31)
Sacramento Municipal	(28,531)	905	(12,905)
San Diego Gas & Electric	(22,412)	905	(10,138)
Seattle City Light Marketing	(23,444)	905	(10,604)
Shell Energy (Coral Pwr)	(457,267)	905	(206,835)
Sierra Pacific Power	(14,123)	905	(6,388)
Snohomish County PUD #1	(9,938)	905	(4,495)
Southern Cal - Edison	(526,126)	905	(237,982)
Tacoma Power	(19,779)	905	(8,947)
Talen Energy (PPL Energy Plus)	(185,885)	905	(84,081)
Tenaska Power Services Co.	(3,600)	905	(1,628)
The Energy Authority	(19,100)	905	(8,639)
TransAlta Energy Marketing	(212,919)	905	(96,310)
TransCanada Energy Sales Ltd	(14,806)	905	(6,697)
Turlock Irrigation District	(24,869)	905	(11,249)
Western Area Power Association	(1,265)	905	(572)
	6,774,738		3,064,415

Known Resources Serving WA Customers

2012

Resource	WA MWh	lbs CO ₂ /MWh	Short Tons CO ₂
Electron	49,583	-	-
Lower Baker	349,273	-	-
Snoqualmie Falls #1	(1,203)	-	-
Snoqualmie Falls #2	(636)	-	-
Upper Baker	349,723	-	-
Colstrip 1 & 2	1,424,335	2,350	1,673,470
Colstrip 3 & 4	2,385,189	2,394	2,854,790
Encogen	108,457	1,049	56,908
Ferndale Co-Generation	1,607	19,631	15,774
Freddie #1	175,177	1,749	153,218
Goldendale	909,497	789	358,642
Mint Farm	1,098,069	870	477,773
Sumas	223,750	1,050	117,437
Crystal Mountain	298	72,577	10,823
Fredonia	17,193	14,671	126,117
Fredonia 3 & 4	25,360	1,267	16,064
Fredrickson 1 & 2	31,650	2,995	47,389
Hopkins Ridge (W184)	430,640	-	-
Lower Snake River	714,783	-	-
Whitehorn 2&3	29,278	5,720	83,735
Wild Horse (W183)	677,390	-	-
3 Bar G Wind Turbine #3 LLC	190	-	-
Barclays Bank Plc	217,875	666	72,526
BC Hydro (Point Roberts)	21,417	666	7,129
Black Creek Hydro Inc	11,481	-	-
Book Outs - EITF 03-11	(449,210)	-	-
BPA	6,832	-	-
BPA Firm - WNP#3 Exchange	400,153	666	133,202
CC Solar 1 and CC Solar 2	3	-	-
Chelan PUD - RI & RR	2,300,840	-	-
Chelan PUD - Rock Island Syst #2	716,417	-	-
Chelan PUD - Rocky Reach	(80,276)	-	-
Douglas PUD - Wells Project	979,910	-	-
Edaleen Dairy LLC	1,391	-	-
Farm Power Lynden LLC	4,188	-	-
Farm Power Rexville LLC	5,803	-	-
Grant PUD - Priest Rapids Project	75,568	-	-
Island Community Solar LLC	58	-	-
JP Morgan Ventures Energy	549,589	666	182,946
Klamath Falls (Iberdrola)	500	802	200
Klondike Wind Power III	124,794	-	-
Knudsen Wind Turbine #1	135	-	-
Powerex Corp.	120,000	666	39,945

Qualco Energy	3,402	-	-
Rainier Bio Gas	58	-	-
Shell Energy (Coral Pwr)	439,124	666	146,174
Skookumchuck Hydro	6,422	-	-
Smith Creek Hydro	215	-	-
Swauk Wind	29	-	-
Van Dyk - S Holsteins	2,762	-	-
VanderHaak Dairy Digester	3,538	-	-
WASCO Hydro	38,227	-	-
Bio Energy Washington (BEW)	2,787	-	-
Hutchinson Creek	1,244	-	-
Koma Kulshan Associates	42,519	-	-
Lake Washington -- Finn Hill	96	-	-
Nooksack	25,295	-	-
Port Townsend Paper Co.	1,475	989	729
Sygitowicz Creek	1,478	-	-
Twin Falls Hydro	95,827	-	-
Weeks Falls	17,114	-	-
	<u>14,688,684</u>		<u>6,574,991</u>

Unknown Resources For WA Customers

2012

WA Dept. of Commerce Fuel Mix Report =

903

lbs CO₂ per MWh

For Year	2012	
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Resource	WA MWh	Fuel Mix lbs CO ₂ /MWh	Short Tons CO ₂
Deferral Offsets	(52)	903	(24)
Deferral Offsets	(102)	903	(46)
Avista Corp. WWP Division	126,962	903	57,332
Barclays Bank Plc	22,000	903	9,934
Black Hills Power	1,600	903	723
Book Outs - EITF 03-11	(2,428,057)	903	(1,096,430)
BP Energy Co.	1,236,010	903	558,141
BPA	384,113	903	173,453
Brookfield Energy Marketing	1,200	903	542
Calpine Energy Services	467,588	903	211,147
Cargill Power Markets	252,059	903	113,821
Chelan County PUD #1	124,383	903	56,167
Citigroup Energy Inc	1,014,046	903	457,909
Clark Public Utilities	26,743	903	12,076
Clatskanie PUD	11,019	903	4,976
Constellation Power Source, Inc.	65,386	903	29,526
CP Energy Marketing (Epcor)	1,133	903	512
DB Energy Trading LLC	502,043	903	226,706
Douglas County PUD #1	336,342	903	151,881
EDF Trading NA LLC	222,630	903	100,532
ENMAX Energy Marketing, Inc.	75	903	34
Eugene Water & Electric	42,962	903	19,400
Grant County PUD #2	36,506	903	16,485
Iberdrola Renewables (PPM Energy)	561,582	903	253,592
Idaho Falls Power	25	903	11
Idaho Power Company	10,082	903	4,553
J. Aron & Company	2,400	903	1,084
JP Morgan Ventures Energy	1,278,611	903	577,378
Merrill Lynch Commodities	269,356	903	121,632
Morgan Stanley CG	1,078,306	903	486,927
Natur Ener USA	448	903	202
NextEra Energy Power Marketing	113,935	903	51,449
Noble Americas Energy Solutions	800	903	361
Noble Americas Gas & Power	800	903	361
NorthPoint Energy Solutions, Inc.	4	903	2
Northwestern Energy	3,418	903	1,543
Okanogan PUD	1,487	903	671
Pacific Summit Energy LLC	1,179	903	532
Pacificcorp	76,562	903	34,573
PG&E Energy Trading	70,000	903	31,610
Portland General Electric	24,419	903	11,027
Powerex Corp.	231,003	903	104,313
Rainbow Energy Marketing	23,628	903	10,670
Sacramento Municipal	3,654	903	1,650
San Diego Gas & Electric	451	903	204
Seattle City Light Marketing	246,052	903	111,109
Shell Energy (Coral Pwr)	182,238	903	82,293
Snohomish County PUD #1	176,041	903	79,494
Southern Cal - Edison	62,658	903	28,294
Tacoma Power	200,033	903	90,328
Talen Energy (PPL Energy Plus)	109,330	903	49,370
Tenaska Power Services Co.	32,812	903	14,817
The Energy Authority	457,673	903	206,670
TransAlta Energy Marketing	1,404,952	903	634,430
TransCanada Energy Marketing	200	903	90
TransCanada Energy Sales Ltd	(200)	903	(90)
Tri-State Generation and Transmissi	124	903	56
Turlock Irrigation District	3,343	903	1,510
BPA	35,599	903	16,075
Pacific Gas & Elec - Exchange	413,000	903	186,497
BPA	(35,375)	903	(15,974)
Deviation	42,717	903	19,289
Pacific Gas & Elec - Exchange	(412,995)	903	(186,495)
Avista Corp. WWP Division	(37,126)	903	(16,765)
Barclays Bank Plc	(2,400)	903	(1,084)
Black Hills Power	(18,302)	903	(8,265)
Book Outs - EITF 03-11	2,877,267	903	1,299,278
BP Energy Co.	(97,731)	903	(44,132)
BPA	(147,151)	903	(66,448)
British Columbia Transmission Corp	(57)	903	(26)

Brookfield Energy Marketing	(2,000)	903	(903)
Calpine Energy Services	(142,467)	903	(64,333)
Cargill Power Markets	(311,820)	903	(140,808)
Chelan County PUD #1	(6,435)	903	(2,906)
Citigroup Energy Inc	(93,176)	903	(42,075)
Clark Public Utilities	(13,840)	903	(6,250)
Clatskanie PUD	(5,387)	903	(2,433)
Constellation Power Source, Inc.	(22,185)	903	(10,018)
CP Energy Marketing (Epcor)	(1,299)	903	(587)
DB Energy Trading LLC	(242,964)	903	(109,714)
Douglas County PUD #1	(1,410)	903	(637)
EDF Trading NA LLC	(34,355)	903	(15,514)
ENMAX Energy Marketing, Inc.	(225)	903	(102)
Eugene Water & Electric	(17,869)	903	(8,069)
Exelon Generation Co LLC	(2,800)	903	(1,264)
Fortis BC	(56,236)	903	(25,394)
Grant County PUD #2	(11,925)	903	(5,385)
Iberdrola Renewables (PPM Energy)	(541,878)	903	(244,694)
Idaho Power Company	(25,835)	903	(11,666)
J. Aron & Company	(2,800)	903	(1,264)
JP Morgan Ventures Energy	(52,134)	903	(23,542)
Morgan Stanley CG	(310,918)	903	(140,400)
Natur Ener USA	(6)	903	(3)
NextEra Energy Power Marketing	(2,739)	903	(1,237)
Noble Americas Energy Solutions	(2,800)	903	(1,264)
Noble Americas Gas & Power	(7,600)	903	(3,432)
NorthPoint Energy Solutions, Inc.	(8,404)	903	(3,795)
Northwestern Energy	(84,493)	903	(38,154)
Okanogan PUD	(470)	903	(212)
Pacific Summit Energy LLC	(430)	903	(194)
Pacificcorp	(116,892)	903	(52,785)
PG&E Energy Trading	(216,530)	903	(97,778)
Portland General Electric	(72,993)	903	(32,961)
Powerex Corp.	(406,530)	903	(183,575)
Rainbow Energy Marketing	(58,846)	903	(26,573)
Sacramento Municipal	(10,011)	903	(4,521)
San Diego Gas & Electric	(29,918)	903	(13,510)
Seattle City Light Marketing	(46,589)	903	(21,038)
Shell Energy (Coral Pwr)	(299,293)	903	(135,151)
Sierra Pacific Power	(1,542)	903	(696)
Snohomish County PUD #1	(9,531)	903	(4,304)
Southern Cal - Edison	(20,000)	903	(9,031)
Tacoma Power	(19,628)	903	(8,863)
Talen Energy (PPL Energy Plus)	(67,867)	903	(30,646)
Tenaska Power Services Co.	(36,412)	903	(16,442)
The Energy Authority	(34,934)	903	(15,775)
TransAlta Energy Marketing	(443,951)	903	(200,474)
TransCanada Energy Sales Ltd	(49,555)	903	(22,377)
Tri-State Generation and Transmissi	(12,499)	903	(5,644)
Turlock Irrigation District	(3,606)	903	(1,628)
Western Area Power Association	(407)	903	(184)
	7,727,006		3,489,259

Known Resources Serving WA Customers

2013

Resource	WA MWh	lbs CO ₂ /MWh	Short Tons CO ₂
Electron	57,768	-	-
Lower Baker	350,428	-	-
Snoqualmie Falls #1	(173)	-	-
Snoqualmie Falls #2	76,307	-	-
Upper Baker	353,240	-	-
Colstrip 1 & 2	2,322,485	2,417	2,806,950
Colstrip 3 & 4	2,023,723	2,311	2,338,102
Encogen	268,267	1,090	146,207
Ferndale Co-Generation	869,394	1,001	435,310
Freddie #1	416,397	1,735	361,260
Goldendale	1,469,094	817	599,992
Mint Farm	1,614,348	864	697,586
Sumas	536,585	1,027	275,548
Crystal Mountain	49	2,629	64
Fredonia	112,471	1,470	82,689
Fredonia 3 & 4	12,944	1,252	8,104
Fredrickson 1 & 2	27,905	2,728	38,062
Hopkins Ridge (W184)	406,600	-	-
Lower Snake River	816,895	-	-
Whitehorn 2&3	27,796	2,273	31,594
Wild Horse (W183)	659,105	-	-
3 Bar G Wind Turbine #3 LLC	203	-	-
Barclays Bank Plc	216,075	1,132	122,312
BC Hydro (Point Roberts)	21,366	1,132	12,095
Bio Energy Washington (BEW)	1	-	-
Black Creek Hydro Inc	12,819	-	-
Book Outs - EITF 03-11	(204,155)	-	-
BPA	7,000	-	-
BPA Firm - WNP#3 Exchange	374,969	1,132	212,256
CC Solar 1 and CC Solar 2	28	-	-
Chelan PUD - RI & RR	2,436,603	-	-
Chelan PUD - Rock Island Syst #2	(43,063)	-	-
Chelan PUD - Rocky Reach	(78,804)	-	-
Douglas PUD - Wells Project	1,064,303	-	-
Edaleen Dairy LLC	3,925	-	-
Farm Power Lynden LLC	4,129	-	-
Farm Power Rexville LLC	5,448	-	-
Grant PUD - Priest Rapids Project	72,986	-	-
Island Community Solar LLC	59	-	-
JP Morgan Ventures Energy	161,925	1,132	91,660
Klamath Falls (Iberdrola)	8,450	807	3,411
Klondike Wind Power III	134,050	-	-
Knudsen Wind Turbine #1	128	-	-

Qualco Energy	3,381	-	-
Rainier Bio Gas	5,795	-	-
Shell Energy (Coral Pwr)	107,950	1,132	61,106
Skookumchuck Hydro	6,742	-	-
Smith Creek Hydro	147	-	-
Swauk Wind	10,572	-	-
Van Dyk - S Holsteins	2,315	-	-
VanderHaak Dairy Digester	2,970	-	-
Bio Energy Washington (BEW)	27	-	-
BIO FUEL WA	1,565	-	-
Hutchinson Creek	815	-	-
Koma Kulshan Associates	40,136	-	-
Lake Washington -- Finn Hill	288	-	-
Nooksack	23,772	-	-
Sygitowicz Creek	1,170	-	-
Twin Falls Hydro	83,479	-	-
Weeks Falls	14,707	-	-
	<u>16,925,901</u>		<u>8,324,309</u>


Unknown Resources For WA Customers

2013

WA Dept. of Commerce Fuel Mix Report =

1,132

lbs CO₂ per MWh

For Year	2013	
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Resource	WA MWh	Fuel Mix lbs CO ₂ /MWh	Short Tons CO ₂
Avista Corp. WWP Division	231,202	1132	130,875
Black Hills Power	4,600	1132	2,604
Book Outs - EITF 03-11	(3,157,200)	1132	(1,787,173)
BP Energy Co.	1,103,049	1132	624,395
BPA	417,735	1132	236,464
Brookfield Energy Marketing	800	1132	453
Burbank, City of	200	1132	113
California ISO	34,629	1132	19,602
Calpine Energy Services	82,375	1132	46,629
Cargill Power Markets	475,057	1132	268,912
Chelan County PUD #1	15,616	1132	8,840
Citigroup Energy Inc	209,900	1132	118,817
Clark Public Utilities	16,000	1132	9,057
Clatskanie PUD	2,268	1132	1,284
Constellation Power Source, Inc.	12,317	1132	6,972
CP Energy Marketing (Epcor)	5,815	1132	3,292
DB Energy Trading LLC	433,233	1132	245,237
Douglas County PUD #1	305,577	1132	172,976
EDF Trading NA LLC	163,552	1132	92,581
Eugene Water & Electric	14,487	1132	8,201
Exelon Generation Co LLC	60,279	1132	34,122
Grant County PUD #2	27,401	1132	15,511
Iberdrola Renewables (PPM Energy)	862,192	1132	488,055
Idaho Power Company	8,565	1132	4,848
J. Aron & Company	16,200	1132	9,170
JP Morgan Ventures Energy	1,017,850	1132	576,167
Morgan Stanley CG	2,038,800	1132	1,154,088
Natur Ener USA	2	1132	1
NextEra Energy Power Marketing	38,830	1132	21,980
Noble Americas Energy Solutions	8,800	1132	4,981
Noble Americas Gas & Power	400	1132	226
Northwestern Energy	26,622	1132	15,070
Okanogan PUD	26,282	1132	14,877
Pacificcorp	82,864	1132	46,906
Portland General Electric	43,399	1132	24,567
Powerex Corp.	176,702	1132	100,024
Rainbow Energy Marketing	20,918	1132	11,841
Sacramento Municipal	1,700	1132	962
San Diego Gas & Electric	76	1132	43
Seattle City Light Marketing	144,546	1132	81,822
Shell Energy (Coral Pwr)	611,302	1132	346,035
Snohomish County PUD #1	49,476	1132	28,007
Southern Cal - Edison	49,519	1132	28,031
Tacoma Power	104,948	1132	59,407
Talen Energy (PPL Energy Plus)	172,219	1132	97,487
Tenaska Power Services Co.	5,800	1132	3,283
The Energy Authority	97,683	1132	55,295
TransAlta Energy Marketing	1,129,071	1132	639,125
TransCanada Energy Sales Ltd	681	1132	385
Turlock Irrigation District	60,816	1132	34,426
Vitol Inc.	262,136	1132	148,385
Pacific Gas & Elec - Exchange	413,000	1132	233,784
Deviation	47,849	1132	27,085
Pacific Gas & Elec - Exchange	(413,000)	1132	(233,784)
Avista Corp. WWP Division	(45,139)	1132	(25,551)
Barclays Bank Plc	(35)	1132	(20)
Black Hills Power	(1,762)	1132	(997)
Book Outs - EITF 03-11	3,361,355	1132	1,902,737
BP Energy Co.	(297,433)	1132	(168,366)
BPA	(165,628)	1132	(93,756)
British Columbia Transmission Corp	(65)	1132	(37)
Brookfield Energy Marketing	(800)	1132	(453)
Burbank, City of	(2,200)	1132	(1,245)
California ISO	(8,579)	1132	(4,856)
Calpine Energy Services	(390,795)	1132	(221,214)
Cargill Power Markets	(158,112)	1132	(89,501)
Chelan County PUD #1	(25,371)	1132	(14,362)
Citigroup Energy Inc	(60,746)	1132	(34,386)
Clark Public Utilities	(18,922)	1132	(10,711)
Clatskanie PUD	(5,659)	1132	(3,203)

Constellation Power Source, Inc.	(1)	1132	(1)
CP Energy Marketing (Epcor)	(1,115)	1132	(631)
DB Energy Trading LLC	8	1132	5
Douglas County PUD #1	(3,025)	1132	(1,712)
EDF Trading NA LLC	(40,695)	1132	(23,036)
Eugene Water & Electric	(35,479)	1132	(20,083)
Exelon Generation Co LLC	(34,998)	1132	(19,811)
Fortis BC	(144,215)	1132	(81,635)
Grant County PUD #2	(26,969)	1132	(15,266)
Iberdrola Renewables (PPM Energy)	(646,518)	1132	(365,970)
Idaho Power Company	(27,009)	1132	(15,289)
J. Aron & Company	(52,425)	1132	(29,676)
JP Morgan Ventures Energy	(54,818)	1132	(31,030)
Morgan Stanley CG	(389,258)	1132	(220,344)
Natur Ener USA	(9)	1132	(5)
NextEra Energy Power Marketing	(1,181)	1132	(669)
Noble Americas Energy Solutions	(5,999)	1132	(3,396)
Noble Americas Gas & Power	(6,600)	1132	(3,736)
NorthPoint Energy Solutions, Inc.	(23,745)	1132	(13,441)
Northwestern Energy	(83,310)	1132	(47,159)
Okanogan PUD	(2,675)	1132	(1,514)
Pacificorp	(277,031)	1132	(156,817)
Portland General Electric	(192,170)	1132	(108,780)
Powerex Corp.	(403,044)	1132	(228,148)
Rainbow Energy Marketing	(35,434)	1132	(20,058)
Sacramento Municipal	(7,107)	1132	(4,023)
San Diego Gas & Electric	(975)	1132	(552)
Seattle City Light Marketing	(23,533)	1132	(13,321)
Shell Energy (Coral Pwr)	(279,421)	1132	(158,170)
Sierra Pacific Power	(2,095)	1132	(1,186)
Snohomish County PUD #1	(30,000)	1132	(16,982)
Southern Cal - Edison	(175)	1132	(99)
Tacoma Power	(36,049)	1132	(20,406)
Talen Energy (PPL Energy Plus)	(64,235)	1132	(36,361)
Tenaska Power Services Co.	(870)	1132	(492)
The Energy Authority	(43,118)	1132	(24,407)
TransAlta Energy Marketing	(391,631)	1132	(221,688)
TransCanada Energy Marketing	(3,692)	1132	(2,090)
TransCanada Energy Sales Ltd	(27,429)	1132	(15,527)
Turlock Irrigation District	(3,960)	1132	(2,242)
Vitol Inc.	(466,011)	1132	(263,791)
	5,877,233		3,326,881

Known Resources Serving WA Customers

2014

Resource	WA MWh	lbs CO ₂ /MWh	Short Tons CO ₂
Electron	42,364	-	-
Lower Baker	429,609	-	-
Snoqualmie Falls #1	40,375	-	-
Snoqualmie Falls #2	147,767	-	-
Upper Baker	340,085	-	-
Colstrip 1 & 2	2,114,046	2,408	2,545,659
Colstrip 3 & 4	2,395,521	2,342	2,804,661
Encogen	218,069	1,067	116,340
Ferndale Co-Generation	722,557	1,016	366,904
Freddie #1	346,743	1,725	299,122
Goldendale	1,029,457	829	426,497
Mint Farm	1,284,786	872	560,102
Sumas	446,065	1,033	230,368
Crystal Mountain	358	1,823	326
Fredonia	56,805	1,772	50,330
Fredonia 3 & 4	11,338	1,329	7,536
Fredrickson 1 & 2	14,347	3,747	26,882
Hopkins Ridge (W184)	442,303	-	-
Lower Snake River	883,475	-	-
Whitehorn 2&3	24,458	2,654	32,453
Wild Horse (W183)	649,976	-	-
3 Bar G Wind Turbine #3 LLC	144	-	-
Barclays Bank Plc	216,079	696	75,226
BC Hydro (Point Roberts)	20,697	696	7,205
Bio Energy Washington (BEW)	14	-	-
Black Creek Hydro Inc	14,183	-	-
Book Outs - EITF 03-11	(10,172)	-	-
BPA	7,000	-	-
BPA Firm - WNP#3 Exchange	360,022	696	125,338
CC Solar 1 and CC Solar 2	28	-	-
Chelan PUD - RI & RR	2,323,845	-	-
Chelan PUD - Rock Island Syst #2	(38,431)	-	-
Chelan PUD - Rocky Reach	(81,380)	-	-
Douglas PUD - Wells Project	1,048,857	-	-
Edaleen Dairy LLC	3,734	-	-
Farm Power Lynden LLC	4,947	-	-
Farm Power Rexville LLC	5,242	-	-
Grant PUD - Priest Rapids Project	50,317	-	-
Island Community Solar LLC	60	-	-
Klamath Falls (Iberdrola)	1,200	814	488
Klondike Wind Power III	129,205	-	-
Knudsen Wind Turbine #1	152	-	-
Qualco Energy	290	-	-

Rainier Bio Gas	5,028	-	-
Skookumchuck Hydro	6,471	-	-
Smith Creek Hydro	174	-	-
Swauk Wind	11,216	-	-
Transalta Centralia Generation LLC	133,020	2,369	157,594
Van Dyk - S Holsteins	2,189	-	-
VanderHaak Dairy Digester	3,511	-	-
BIO FUEL WA	36,677	-	-
Electron Hydro, LLC	8,568	-	-
Hutchinson Creek	233	-	-
Koma Kulshan Associates	48,523	-	-
Lake Washington -- Finn Hill	271	-	-
Nooksack	25,212	-	-
Sygitowicz Creek	1,168	-	-
Twin Falls Hydro	92,558	-	-
Weeks Falls	16,407	-	-
	<u>16,087,761</u>		<u>7,833,030</u>

Unknown Resources For WA Customers

2014

WA Dept. of Commerce Fuel Mix Report =

1,024

lbs CO₂ per MWh

For Year	2014	
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Resource	WA MWh	Fuel Mix lbs CO ₂ /MWh	Short Tons CO ₂
Avista Corp. WWP Division	321,265	1024	164,419
Black Hills Power	875	1024	448
Book Outs - EITF 03-11	(2,005,870)	1024	(1,026,577)
BP Energy Co.	1,096,755	1024	561,305
BPA	169,672	1024	86,836
Burbank, City of	200	1024	102
California ISO	65,176	1024	33,356
Calpine Energy Services	47,482	1024	24,301
Cargill Power Markets	609,585	1024	311,977
Chelan County PUD #1	4,821	1024	2,467
Citigroup Energy Inc	145,653	1024	74,543
City of Idaho Falls	10	1024	5
Clark Public Utilities	5,396	1024	2,762
Clatskanie PUD	2,270	1024	1,162
Constellation Power Source, Inc.	20	1024	10
CP Energy Marketing (Epcor)	825	1024	422
Douglas County PUD #1	277,023	1024	141,777
EDF Trading NA LLC	611,857	1024	313,140
ENMAX Energy Marketing, Inc.	100	1024	51
Eugene Water & Electric	12,875	1024	6,589
Exelon Generation Co LLC	187,630	1024	96,027
Grant County PUD #2	12,652	1024	6,475
Iberdrola Renewables (PPM Energy)	716,696	1024	366,795
Idaho Power Company	12,466	1024	6,380
J. Aron & Company	20,400	1024	10,440
JP Morgan Ventures Energy	156,705	1024	80,200
Morgan Stanley CG	1,790,503	1024	916,356
Natur Ener USA	1	1024	1
NextEra Energy Power Marketing	56,233	1024	28,779
Noble Americas Energy Solutions	4,000	1024	2,047
Noble Americas Gas & Power	4,000	1024	2,047
NorthPoint Energy Solutions, Inc.	871	1024	446
Northwestern Energy	1,948	1024	997
Okanogan PUD	7,707	1024	3,944
Pacificorp	71,357	1024	36,520
Portland General Electric	183,483	1024	93,904
Powerex Corp.	100,896	1024	51,637
Rainbow Energy Marketing	5,071	1024	2,595
Sacramento Municipal	2,075	1024	1,062
Seattle City Light Marketing	69,998	1024	35,824
Shell Energy (Coral Pwr)	365,203	1024	186,906
Snohomish County PUD #1	20,464	1024	10,473
Southern Cal - Edison	47,417	1024	24,267
Tacoma Power	151,109	1024	77,336
Talen Energy (PPL Energy Plus)	235,629	1024	120,592
Tenaska Power Services Co.	4,534	1024	2,320
The Energy Authority	51,948	1024	26,586
TransAlta Energy Marketing	1,300,789	1024	665,726
TransCanada Energy Sales Ltd	2,410	1024	1,233
Turlock Irrigation District	81,172	1024	41,543
Vitol Inc.	452,905	1024	231,791
Avista Nichols Pump	22,326	1024	11,426
Pacific Gas & Elec - Exchange	413,000	1024	211,368
Deviation	76,074	1024	38,934
Exelon Generation Co LLC	(25)	1024	(13)
Pacific Gas & Elec - Exchange	(413,000)	1024	(211,368)
Avista Corp. WWP Division	(60,183)	1024	(30,801)
Black Hills Power	(390)	1024	(200)
Book Outs - EITF 03-11	2,016,042	1024	1,031,783
BP Energy Co.	(51,111)	1024	(26,158)
BPA	(159,211)	1024	(81,482)
British Columbia Transmission Corp	(49)	1024	(25)
Brookfield Energy Marketing	(800)	1024	(409)
Burbank, City of	(2,400)	1024	(1,228)
Calpine Energy Services	(117,424)	1024	(60,096)
Cargill Power Markets	(190,421)	1024	(97,455)
Chelan County PUD #1	(16,609)	1024	(8,500)
Citigroup Energy Inc	(26,800)	1024	(13,716)
Clark Public Utilities	(9,222)	1024	(4,720)
Clatskanie PUD	(4,124)	1024	(2,111)

Conoco, Inc.	(1,200)	1024	(614)
Constellation Power Source, Inc.	(119)	1024	(61)
CP Energy Marketing (Epcor)	(947)	1024	(485)
Douglas County PUD #1	(1,819)	1024	(931)
EDF Trading NA LLC	(136,984)	1024	(70,107)
Eugene Water & Electric	(38,757)	1024	(19,835)
Exelon Generation Co LLC	(16,580)	1024	(8,485)
Fortis BC	(27,508)	1024	(14,078)
Grant County PUD #2	(27,899)	1024	(14,278)
Iberdrola Renewables (PPM Energy)	(536,036)	1024	(274,336)
Idaho Power Company	(15,235)	1024	(7,797)
J. Aron & Company	(2,600)	1024	(1,331)
JP Morgan Ventures Energy	(5,071)	1024	(2,595)
Morgan Stanley CG	(332,554)	1024	(170,197)
Natur Ener USA	(24)	1024	(12)
Nevada Power Company	(159)	1024	(81)
NextEra Energy Power Marketing	(159)	1024	(81)
Noble Americas Gas & Power	(400)	1024	(205)
NorthPoint Energy Solutions, Inc.	(3,481)	1024	(1,782)
Northwestern Energy	(68,236)	1024	(34,922)
Okanogan PUD	(1,855)	1024	(949)
Pacificorp	(109,675)	1024	(56,130)
Portland General Electric	(123,272)	1024	(63,089)
Powerex Corp.	(401,453)	1024	(205,458)
Rainbow Energy Marketing	(21,430)	1024	(10,968)
Sacramento Municipal	(4,593)	1024	(2,351)
Seattle City Light Marketing	(20,865)	1024	(10,678)
Shell Energy (Coral Pwr)	(210,325)	1024	(107,642)
Snohomish County PUD #1	(12,377)	1024	(6,334)
Tacoma Power	(14,402)	1024	(7,371)
Talen Energy (PPL Energy Plus)	(52,930)	1024	(27,089)
Tenaska Power Services Co.	(512)	1024	(262)
The Energy Authority	(36,276)	1024	(18,566)
TransAlta Energy Marketing	(302,261)	1024	(154,693)
TransCanada Energy Sales Ltd	(20,682)	1024	(10,585)
Turlock Irrigation District	(311)	1024	(159)
Vitol Inc.	(221,200)	1024	(113,207)
	6,189,748		3,167,831

Known Resources Serving WA Customers

2015

Resource	WA MWh	lbs CO ₂ /MWh	Short Tons CO ₂
Lower Baker	308,611	-	-
Snoqualmie Falls #1	17,891	-	-
Snoqualmie Falls #2	100,980	-	-
Upper Baker	278,750	-	-
Colstrip 1 & 2	1,756,858	2,595	2,279,098
Colstrip 3 & 4	2,738,174	2,359	3,229,428
Crystal Mountain	294	1,823	268
Encogen	297,658	1,059	157,600
Ferndale Co-Generation	868,467	1,029	446,779
Freddie #1	623,181	875	272,686
Fredonia	113,691	1,577	89,625
Fredonia 3 & 4	47,604	1,200	28,566
Fredrickson 1 & 2	39,935	2,385	47,632
Goldendale	1,498,666	811	607,527
Hopkins Ridge (W184)	364,779	-	-
Lower Snake River	741,768	-	-
Mint Farm	1,701,036	888	755,178
Sumas	601,053	1,036	311,307
Whitehorn 2&3	38,733	1,953	37,815
Wild Horse (W183)	608,886	-	-
3 Bar G Wind Turbine #3 LLC	138	-	-
Barclays Bank Plc	106,200	696	36,972
BC Hydro (Point Roberts)	19,584	696	6,818
Bio Energy Washington (BEW)	2	-	-
Black Creek Hydro Inc	6,366	-	-
Book Outs - EITF 03-11	(2,253)	-	-
BPA	7,000	-	-
BPA Firm - WNP#3 Exchange	343,584	696	119,615
CC Solar 1 and CC Solar 2	23	-	-
Chelan PUD - RI & RR	2,299,343	-	-
Chelan PUD - Rock Island Syst #2	(39,940)	-	-
Chelan PUD - Rocky Reach	(82,401)	-	-
Douglas PUD - Wells Project	1,094,705	-	-
Edaleen Dairy LLC	4,697	-	-
Farm Power Lynden LLC	4,858	-	-
Farm Power Rexville LLC	4,485	-	-
Grant PUD - Priest Rapids Project	53,743	-	-
Island Community Solar LLC	62	-	-
Klamath Falls (Iberdrola)	400	806	161
Klondike Wind Power III	119,141	-	-
Knudsen Wind Turbine #1	130	-	-
Rainier Bio Gas	4,950	-	-
Skookumchuck Hydro	4,961	-	-

Smith Creek Hydro	163	-	-
Swauk Wind	11,369	-	-
Transalta Centralia Generation LLC	1,135,396	2,407	1,366,285
Van Dyk - S Holsteins	1,619	-	-
VanderHaak Dairy Digester	3,455	-	-
BIO FUEL WA	32,657	-	-
Electron Hydro, LLC	62,833	-	-
Emerald City Renewables	1,087	-	-
Hutchinson Creek	744	-	-
Koma Kulshan Associates	36,094	-	-
Lake Washington -- Finn Hill	279	-	-
Nooksack	22,257	-	-
Sygitowicz Creek	739	-	-
Twin Falls Hydro	52,604	-	-
Weeks Falls	8,527	-	-

18,066,615

9,793,361


Unknown Resources For WA Customers

2015

WA Dept. of Commerce Fuel Mix Report =

1,046

lbs CO₂ per MWh

For Year	2015	
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Resource	WA MWh	Fuel Mix lbs CO ₂ /MWh	Short Tons CO ₂
Avista Corp. WWP Division	127,355	1046	66,594
Barclays Bank Plc	-30	1046	(16)
Black Hills Power	1,200	1046	627
Book Outs - EITF 03-11	-5,721,875	1046	(2,991,955)
BP Energy Co.	340,839	1046	178,224
BPA	141,462	1046	73,970
British Columbia Transmission Corp	67	1046	35
California ISO	12,114	1046	6,334
Calpine Energy Services	350,294	1046	183,168
Cargill Power Markets	779,739	1046	407,724
Chelan County PUD #1	857	1046	448
Citigroup Energy Inc	507,518	1046	265,380
Clark Public Utilities	5,045	1046	2,638
Clatskanie PUD	2,021	1046	1,057
Conoco, Inc.	2,000	1046	1,046
Constellation Power Source, Inc.	7	1046	4
Douglas County PUD #1	271,759	1046	142,102
EDF Trading NA LLC	2,085,606	1046	1,090,558
ENMAX Energy Marketing, Inc.	990	1046	518
Eugene Water & Electric	10,905	1046	5,702
Exelon Generation Co LLC	183,085	1046	95,735
Grant County PUD #2	14,148	1046	7,398
Iberdrola Renewables (PPM Energy)	677,785	1046	354,412
Idaho Power Company	14,768	1046	7,722
J. Aron & Company	10,400	1046	5,438
JP Morgan Ventures Energy	67,092	1046	35,082
Morgan Stanley CG	1,304,649	1046	682,198
NextEra Energy Power Marketing	113,998	1046	59,609
Noble Americas Energy Solutions	800	1046	418
NorthPoint Energy Solutions, Inc.	300	1046	157
Northwestern Energy	10,619	1046	5,553
Okanogan PUD	15,430	1046	8,068
Pacificcorp	26,590	1046	13,904
Portland General Electric	109,691	1046	57,357
Powerex Corp.	144,388	1046	75,500
Public Service of Colorado	800	1046	418
Rainbow Energy Marketing	12,393	1046	6,480
Sacramento Municipal	5,966	1046	3,120
Seattle City Light Marketing	96,380	1046	50,397
Shell Energy (Coral Pwr)	309,247	1046	161,705
Snohomish County PUD #1	18,557	1046	9,703
Southern Cal - Edison	42,837	1046	22,399
Tacoma Power	38,385	1046	20,071
Talen Energy (PPL Energy Plus)	242,781	1046	126,950
Tenaska Power Services Co.	297	1046	155
The Energy Authority	57,242	1046	29,932
TransAlta Energy Marketing	1,275,174	1046	666,785
TransCanada Energy Sales Ltd	15,993	1046	8,363
Turlock Irrigation District	24,277	1046	12,694
Vitol Inc.	1,563,318	1046	817,455
Western Area Power Association	3	1046	2
Avista Nichols Pump	22,743	1046	11,892
Pacific Gas & Elec - Exchange	413,000	1046	215,957
Interchange-out deviation	52,887	1046	27,654
Pacific Gas & Elec - Exchange	-413,000	1046	(215,957)
Avista Corp. WWP Division	-59,334	1046	(31,026)
Black Hills Power	-30	1046	(16)
Book Outs - EITF 03-11	5,724,128	1046	2,993,133
BP Energy Co.	-303,763	1046	(158,837)
BPA	-284,002	1046	(148,504)
British Columbia Transmission Corp	-28	1046	(15)
Calpine Energy Services	-117,995	1046	(61,699)
Cargill Power Markets	-176,345	1046	(92,210)
Chelan County PUD #1	-4,207	1046	(2,200)
Citigroup Energy Inc	-327,954	1046	(171,486)
Clark Public Utilities	-6,032	1046	(3,154)
Clatskanie PUD	-3,692	1046	(1,931)
Conoco, Inc.	-5,200	1046	(2,719)
Constellation Power Source, Inc.	-89	1046	(47)
CP Energy Marketing (Epcor)	-902	1046	(472)

Douglas County PUD #1	-2,350	1046	(1,229)
EDF Trading NA LLC	-1,158,465	1046	(605,759)
ENMAX Energy Marketing, Inc.	-346	1046	(181)
Eugene Water & Electric	-22,601	1046	(11,818)
Exelon Generation Co LLC	-154,413	1046	(80,742)
Fortis BC	-13,980	1046	(7,310)
Grant County PUD #2	-34,904	1046	(18,251)
Iberdrola Renewables (PPM Energy)	-465,716	1046	(243,522)
Idaho Power Company	-28,166	1046	(14,728)
J. Aron & Company	-10,000	1046	(5,229)
JP Morgan Ventures Energy	-64,335	1046	(33,641)
Morgan Stanley CG	-799,848	1046	(418,239)
Natur Ener USA	-61	1046	(32)
Nevada Power Company	-1,267	1046	(663)
NextEra Energy Power Marketing	-1,748	1046	(914)
NorthPoint Energy Solutions, Inc.	-50	1046	(26)
Northwestern Energy	-27,585	1046	(14,424)
Okanogan PUD	-1,425	1046	(745)
Pacificorp	-270,353	1046	(141,367)
Portland General Electric	-154,103	1046	(80,580)
Powerex Corp.	-165,730	1046	(86,660)
Public Service of Colorado	-600	1046	(314)
Rainbow Energy Marketing	-5,067	1046	(2,650)
Sacramento Municipal	-15,711	1046	(8,215)
Seattle City Light Marketing	-34,982	1046	(18,292)
Shell Energy (Coral Pwr)	-349,844	1046	(182,933)
Snohomish County PUD #1	-7,576	1046	(3,961)
Southern Cal - Edison	-200	1046	(105)
Tacoma Power	-15,061	1046	(7,875)
Talen Energy (PPL Energy Plus)	-70,877	1046	(37,061)
Tenaska Power Services Co.	-828	1046	(433)
The Energy Authority	-41,339	1046	(21,616)
TransAlta Energy Marketing	-637,562	1046	(333,380)
TransCanada Energy Sales Ltd	-7,621	1046	(3,985)
Turlock Irrigation District	-208	1046	(109)
Vitol Inc.	-1,812,075	1046	(947,530)
Western Area Power Association	-2	1046	(1)
Transalta Contract - Source "Other" and Bookouts	515,781	1046	269,701
	3,964,233		2,072,888

Known Resources Serving WA Customers

2016

Resource	WA MWh	lbs CO ₂ /MWh	Short Tons CO ₂
Lower Baker	358,833	-	-
Snoqualmie Falls #1	53,046	-	-
Snoqualmie Falls #2	152,538	-	-
Upper Baker	369,105	-	-
Colstrip 1 & 2	1,958,039	2,337	2,287,854
Colstrip 3 & 4	2,571,140	2,172	2,791,697
Encogen	212,390	1,075	114,206
Ferndale Co-Generation	741,137	1,052	389,978
Freddie #1	417,525	869	181,361
Goldendale	1,028,475	825	424,267
Mint Farm	1,057,947	902	477,308
Sumas	394,996	1,074	212,059
Crystal Mountain	196	1,732	170
Fredonia	108,951	1,751	95,409
Fredonia 3 & 4	136,863	1,240	84,871
Fredrickson 1 & 2	19,942	3,346	33,361
Hopkins Ridge (W184)	417,242	-	-
Lower Snake River	873,260	-	-
Whitehorn 2&3	33,783	2,930	49,497
Wild Horse (W183)	672,200	-	-
3 Bar G Wind Turbine #3 LLC	148	-	-
BC Hydro (Point Roberts)	19,758	1,002	9,898
Bio Energy Washington (BEW)	5	-	-
Black Creek Hydro Inc	12,263	-	-
BPA	7,084	-	-
BPA Firm - WNP#3 Exchange	398,392	1,002	199,566
CC Solar 1 and CC Solar 2	29	-	-
Chelan PUD - RI & RR	2,313,083	-	-
Chelan PUD - Rock Island Syst #2	(39,689)	-	-
Chelan PUD - Rocky Reach	(82,394)	-	-
Douglas PUD - Wells Project	1,120,584	-	-
Edaleen Dairy LLC	4,645	-	-
Farm Power Lynden LLC	4,514	-	-
Farm Power Rexville LLC	5,138	-	-
Grant PUD - Priest Rapids Project	60,243	-	-
Island Community Solar LLC	59	-	-
Klamath Falls (Iberdrola)	200	807	81
Klondike Wind Power III	126,694	-	-
Knudsen Wind Turbine #1	129	-	-
Rainier Bio Gas	4,372	-	-
Skookumchuck Hydro	4,450	-	-
Smith Creek Hydro	193	-	-
Swauk Wind	11,178	-	-

Unknown Resources For WA Customers

2016

WA Dept. of Commerce Fuel Mix Report =

1,002 lbs CO₂ per MWh

For Year	2016	
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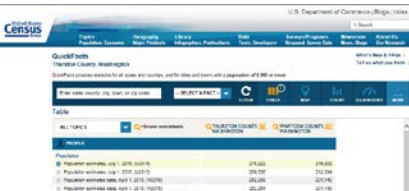
Resource	WA MWh	Fuel Mix	Short
		lbs CO ₂ /MWh	Tons CO ₂
Avista Corp. WWP Division	72,218	1002	36,176
Black Hills Power	201	1002	101
Book Outs - EITF 03-11	-6,081,614	1002	(3,046,455)
BP Energy Co.	688,626	1002	344,952
BPA	374,896	1002	187,796
BPA - NWPP Reserve Sharing Energy	233	1002	117
British Columbia Transmission Corp	16	1002	8
California ISO	33,095	1002	16,578
Calpine Energy Services	169,176	1002	84,745
Cargill Power Markets	812,939	1002	407,224
Chelan County PUD #1	62,409	1002	31,262
Citigroup Energy Inc	1,224,171	1002	613,222
Clark Public Utilities	8,332	1002	4,174
Clatskanie PUD	4,432	1002	2,220
Conoco, Inc.	6,600	1002	3,306
CP Energy Marketing (Epcor)	500	1002	250
Douglas County PUD #1	281,095	1002	140,809
EDF Trading NA LLC	483,150	1002	242,024
Eugene Water & Electric	15,232	1002	7,630
Exelon Generation Co LLC	160,970	1002	80,634
Grant County PUD #2	20	1002	10
GRIDFORCE ENERGY MANAGEMENT, LLC.	5	1002	3
Iberdrola Renewables (PPM Energy)	724,215	1002	362,780
Idaho Power Company	14,367	1002	7,197
Morgan Stanley CG	1,046,909	1002	524,427
NextEra Energy Power Marketing	41,481	1002	20,779
Noble Americas Gas & Power	1,600	1002	801
NorthPoint Energy Solutions, Inc.	336	1002	168
Northwestern Energy	12,081	1002	6,052
Okanogan PUD	14,335	1002	7,181
Pacificorp	73,911	1002	37,024
Portland General Electric	308,093	1002	154,333
Powerex Corp.	118,836	1002	59,528
Public Service of Colorado	158,000	1002	79,147
Rainbow Energy Marketing	956	1002	479
Sacramento Municipal	153	1002	77
Seattle City Light Marketing	92,909	1002	46,541
Shell Energy (Coral Pwr)	450,861	1002	225,849
Snohomish County PUD #1	27,590	1002	13,821
Southern Cal - Edison	100	1002	50
Tacoma Power	78,082	1002	39,114
Talen Energy (PPL Energy Plus)	232,943	1002	116,688
Tenaska Power Services Co.	975	1002	488
The Energy Authority	979,776	1002	490,798
TransAlta Energy Marketing	757,605	1002	379,506
TransCanada Energy Sales Ltd	2,609	1002	1,307
Turlock Irrigation District	18,671	1002	9,353
Vitol Inc.	2,531,701	1002	1,268,202
CAISO EESC Load Undistributed Costs	-39,391	1002	(19,732)
CAISO PRSC Undistributed Costs	26,884	1002	13,467
Colstrip - Energy Imbalance Market	-22,441	1002	(11,241)
Encogen	2,522	1002	1,263
Ferndale Co-Generation	17,368	1002	8,700
Freddie #1	-2,196	1002	(1,100)
Fredonia - Energy Imbalance Market	5,396	1002	2,703
Fredrickson 1 & 2	1,505	1002	754
Goldendale	37,286	1002	18,678
Lower Baker	753	1002	377
MID-C for Energy Imbalance Market	59,160	1002	29,635
Mint Farm	5,699	1002	2,855
Snoqualmie-Energy Imbalance Market	3,163	1002	1,585
Sumas	8,890	1002	4,453
Upper Baker	18,963	1002	9,499
Whitehorn 2&3	1,384	1002	693
Wild Horse (W183)	-15,815	1002	(7,922)
Avista Nichols Pump	21,796	1002	10,918
Cargill Power Markets	200	1002	100
Pacific Gas & Elec - Exchange	413,000	1002	206,884
Deviation	18,142	1002	9,088
Pacific Gas & Elec - Exchange	-413,000	1002	(206,884)
Portland General Electric	-100	1002	(50)
TransAlta Energy Marketing	-200	1002	(100)
Avista Corp. WWP Division	46,050	1002	23,068
BPA - CA Wind Integration	1,953	1002	978
BPA - PTP Transactions	39,252	1002	19,662
BPA - Spin Reserv Requirement	5,037,220	1002	2,523,288
BPA IS - Hourly Non-Firm	194	1002	97
EDF Trading NA LLC	-191,676	1002	(96,016)

Need to update emission factor, currently using 5-year average (5.9.2017)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
	King County, Washington	King County, Washington	King County, Washington	King County, Washington	King County, Washington	King County, Washington	King County, Washington	King County, Washington	King County, Washington	King County, Washington	King County, Washington	King County, Washington	King County, Washington	King County, Washington	King County, Washington	King County, Washington	King County, Washington	King County, Washington	King County, Washington
1	People																		
2	Population																		
3	Population estimates, July 1, 2015, (V2015)	43269	26031	2417125	30466	80993	84394	121846	232284	26936	387920								
4	Population estimates, July 1, 2014, (V2014)	42727	25483	2079907	30228	79275	83128	120885	208381	265891	3912670								
5	Population estimates base, April 1, 2010, (V2015)	40009	25133	1931256	29872	78056	79529	116901	201140	252264	3697210								
6	Population estimates base, April 1, 2010, (V2014)	40009	25133	1931256	29872	78056	79529	116901	201140	252264	3697210								
7	Population, percent change - April 1, 2010 (estimates based to July 1, 2015, (V2015))	5.8	3.6	9.6	2	2.7	6.1	4.2	5.5	6.8									
8	Population, percent change - April 1, 2010 (estimates based to July 1, 2014, (V2014))	5.9	1.2	7.7	1.2	1	4.6	3.0	3.6	5.4									
9	Population, Census, April 1, 2010	40935	25133	1931349	29877	78056	79529	116901	201140	252264									
10	Age and Sex																		
11	Persons under 5 years, percent, July 1, 2014, (V2014)	5	5.7	6.2	3.3	5.5	6.9	6.1	5.5	6.1									
12	Persons under 5 years, percent, April 1, 2010	5	5.9	6.3	3.6	5.8	7.3	6.5	5.6	6.1									
13	Persons under 18 years, percent, July 1, 2014, (V2014)	18.1	20.9	21	13.4	18.9	24	23.5	20.2	22.1									
14	Persons under 18 years, percent, April 1, 2010	18.3	20.2	21.4	14.9	20.8	24.9	23.7	21.0	22.0									
15	Persons 65 years and over, percent, July 1, 2014, (V2014)	14.6	16.1	12.7	31.8	22.1	32.7	18.7	18.4	15.2									
16	Persons 65 years and over, percent, April 1, 2010	12.7	13.3	10.9	26.3	18.4	31	16.1	13.2	13.0									
17	Female persons, percent, July 1, 2014, (V2014)	49.7	49.1	50	50.7	50.1	50.3	50.4	50.4	50.9									
18	Female persons, percent, April 1, 2010	49.2	49.4	50.7	50.9	50.3	50.4	50.4	50.3	51.3									
19	Race and Hispanic Origin																		
20	White alone, percent, July 1, 2014, (V2014) (a)	61.9	61.1	70.1	61.1	66.3	76.1	68.8	67.3	62.9									
21	White alone, percent, April 1, 2010 (a)	60.7	62.6	68.7	73.8	65.1	74.2	64.8	65.4	61.9									
22	Black or African American alone, percent, July 1, 2014, (V2014) (a)	1.2	2.9	6.7	1	2.9	7.4	0.9	1.2	3.4									
23	Black or African American alone, percent, April 1, 2010 (a)	0.9	2.6	6.2	0.8	2.2	6.8	0.7	1.0	2.7									
24	American Indian and Alaska Native alone, percent, July 1, 2014, (V2014) (a)	1.3	1.8	1.1	2.2	1.1	1.7	2.7	3.2	1.7									
25	American Indian and Alaska Native alone, percent, April 1, 2010 (a)	1	1.6	0.8	2.3	0.8	3.4	2.2	2.8	1.4									
26	Asian alone, percent, July 1, 2014, (V2014) (a)	2.3	5.4	16.4	1.8	4.8	6.4	2.2	4.3	5.2									
27	Asian alone, percent, April 1, 2010 (a)	2	4.9	14.6	1.6	4.4	6.4	1.8	3.5	5.2									
28	Native Hawaiian and Other Pacific Islander alone, percent, July 1, 2014, (V2014) (a)	0.2	1	0.3	0.2	0.5	1.1	0.3	0.3	1.0									
29	Native Hawaiian and Other Pacific Islander alone, percent, April 1, 2010 (a)	0.1	0.9	0.8	0.2	0.5	1.1	0.2	0.3	0.8									
30	Two or More Races, percent, July 1, 2014, (V2014)	3.2	3.6	4.9	3.4	4.5	6.7	3.0	3.2	5.2									
31	Two or More Races, percent, April 1, 2010	3	3.4	3.4	3.4	4.1	6.1	3.2	3.1	5.3									
32	Hispanic or Latino, percent, July 1, 2014, (V2014) (b)	8.8	7.2	9.6	3.7	7.1	10.2	12.8	8.9	8.4									
33	Hispanic or Latino, percent, April 1, 2010 (b)	7.6	7.6	6.2	8.9	2.8	5.3	9.2	10.9	7.8									
34	White alone, not Hispanic or Latino, percent, July 1, 2014, (V2014)	64.2	77.7	62.4	68.4	60.6	68.4	75.4	70.5	76.3									
35	White alone, not Hispanic or Latino, percent, April 1, 2010	66.1	79.1	64.8	69.1	70.3	76.7	81.6	78.9										
36	Population Characteristics																		
37	Persons per household, 2010-2014	3099	3544	11785	4330	12644	8904	11377	14487	2925	Persons per household factor								
38	Foreign born persons, percent, 2010-2014	6.1	6.5	21	3.5	7.1	9.8	9.4	11.1	7.9	2.49								
39	Housing																		
40	Housing units, July 1, 2014, (V2014)	25553	19927	88047	17947	45685	13272	51870	62466	111807									
41	Housing units, April 1, 2010	24900	19780	85120	17567	45034	12529	51473	60665	108100									
42	Owner-occupied housing unit rate, 2010-2014	57.3	66.9	57.5	74.7	68.5	61.2	67.1	62.6	64.9									
43	Median value of owner-occupied housing units, 2010-2014	246000	259000	176200	282400	287900	218800	254900	273000	241300									
44	Median selected monthly owner costs - with a mortgage, 2010-2014	1325	1738	2225	1469	1721	1785	1672	1628	1717									
45	Median selected monthly owner costs - without a mortgage, 2010-2014	466	514	696	453	595	546	575	477	494									
46	Median gross rent, 2010-2014	809	1043	1161	870	1076	1021	963	910	1053									
47	Building permits, 2014	283	498	14703	121	423	3777	274	1007	1001									
48	Families and Marital Status																		
49	Households, 2010-2014	16,753	97,993	808,729	13,535	32,820	301,364	45,309	79,837	101,530	89,202.02	245,962.43	197,929.99	28,600.25	77,927	79,601	116,444.1	199,992.1	255,855.60
50	Persons per household, 2010-2014	2.94	2.51	2.44	2.15	2.35	2.64	2.57	2.50	2.50	2.45	2.49	2.48	2.48	2.48	2.48	2.48	2.48	2.48
51	Living in same house 1 year ago, percent of persons age 1 year+, 2010-2014	71.3	80.8	81.3	83.8	83.2	82.4	83.1	83.0	81.4	simple overall weighted avg	simple overall weighted avg	simple overall weighted avg	simple overall weighted avg	simple overall weighted avg	simple overall weighted avg	simple overall weighted avg	simple overall weighted avg	simple overall weighted avg
52	Language other than English spoken at home, percent of persons age 5 years+, 2010-2014	8.9	8.5	26.4	4.1	8.5	14.8	14.7	12.3	11.1									
53	Education																		
54	High school graduate or higher, percent of persons age 25 years+, 2010-2014	90.9	91.1	92.1	94.4	94.9	90.5	88.2	91.0	93.6									
55	Bachelor's degree or higher, percent of persons age 25 years+, 2010-2014	34	30	47.1	37.3	31.7	24.2	24.5	32.4	32.0									
56	Health																		
57	With a disability, under age 65 years, percent, 2010-2014	9.1	11.4	6.4	13.3	9.4	9.8	9.5	9.4	8.4									
58	Persons without health insurance, under age 65 years, percent	19.3	13.6	13.7	17.9	14.3	14.8	18.6	18.7	13.9									
59	Economy																		
60	In civilian labor force, total, percent of population age 16 years+, 2010-2014	60.8	57.4	69.4	47.8	54.3	62.5	58.9	63.3	62.1									
61	In civilian labor force, female, percent of population age 16 years+, 2010-2014	57.2	54.9	63.4	46.1	52.4	58.7	53.8	58.2	59.5									
62	Total accommodation and food services sales, 2013 (\$1,000)	101409	435891	623768	44968	0	1367981	291510	49249	416185									
63	Total health care and social assistance receipts/revenue, 2012 (\$1,000)	114895	1272843	17718220	127340	229306	5369200	700349	1026198	1584793									
64	Total manufacturers shipments, 2012 (\$1,000)	0	328148	0	0	1257146	4461036	11528427	14931890	910527									
65	Total merchant wholesaler sales, 2012 (\$1,000)	398883	407880	42092462	0	57397	7705621	793543	0	1252014									
66	Total retail sales, 2012 (\$1,000)	515984	2674865	61598157	209884	454279	10114997	19991689	3103904	3350812									
67	Total retail sales excl. capex, 2012	13765	30487	30487	7026	5265	13441	38910	52120	12864									
68	Transportation																		
69	Mean travel time to work (minutes), workers age 16 years+, 2010-2014	22.1	29.9	27.4	22.7	27.7	29	25.0	20.8	24.6									
70	Income and Poverty																		
71	Median household income (in 2014 dollars), 2010-2014	45406	62473	73035	47202	59107	59711	54917	53025	62286									
72	Per capita income in past 12 months (in 2014 dollars), 2010-2014	22754	21001	40564	28607	21663	28311	27598	26671	29900									
73	Persons in poverty, percent	18.6	11.2	11.3	14.1	10.3	13.1	15.7	15.7	15.3									
74	Businesses																		
75	Total employer establishments, 2013	1149	2538	64171	1028	1897	16384	3351	6218	6840									
76	Total employment, 2013	10225	55644	1051249	6365	11378	227238	81170	69793	64870									
77	Total annual payroll, 2013	281816	3044682	75311720	217236	309852	943476	158537	280487	249898									
78	Total employment, percent change, 2012-2013	4.6	0.8	3.1	0.														

People Skagit Cou Pierce County, Washin Island Cou King Cou, Kitsap Cou Kittitas Cou Thurston Co Whitman County, Wad https://www.census.gov/quickfacts/table/P5045216/53057,53053,53029,53033,53035,53037

Population	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Population estimates, July 1, 2016, (V2016)	123681	861312	82636	2149970	264811	44866	275222	216800			
Population estimates, July 1, 2015, (V2015)	121846	849354	80553	2117125	2602131	43109	269536	212284			
Population estimates base, April 1, 2010, (V2016)	116901	795219	78506	1931281	251137	40906	252258	201140			
Population estimates base, April 1, 2010, (V2015)	116901	795229	78506	1931256	251133	40909	252264	201140			
Population, percent change - April 1, 2010 (estimates base) to July 1, 2016	6.8	8.3	5.8	11.3	5.4	9.7	8.1	7.8			
Population, percent change - April 1, 2010 (estimates base) to July 1, 2015	4.2	6.1	2.7	9.6	3.6	5.8	6.8	5.5			
Population, percent change - April 1, 2010 (estimates base) to July 1, 2016	116901	795225	78506	1931249	251133	40915	252264	201140			
Age and Sex											
Persons under 5 years, percent, July 1, 2015, (V2015)	6.1	6.8	5.5	6.1	5.7	4.8	5.9	5.1			
Persons under 5 years, percent, April 1, 2010	6.5	7.0	5.8	6.2	5.9	5.0	6.1	5.6			
Persons under 18 years, percent, July 1, 2015, (V2015)	22.3	23.8	18.6	20.7	20.7	17.8	21.8	19.8			
Persons under 18 years, percent, April 1, 2010	23.7	24.9	20.8	21.4	22.5	18.3	23.0	21.0			
Persons 65 years and over, percent, July 1, 2015, (V2015)	18.3	18.1	23.2	12.4	16.5	15.1	15.9	16.0			
Persons 65 years and over, percent, April 1, 2010	11.0	11.0	18.4	10.9	13.3	12.7	13.0	13.2			
Female persons, percent, July 1, 2015, (V2015)	50.4	50.2	50.0	50.0	49.0	49.7	50.9	50.4			
Female persons, percent, April 1, 2010	50.4	50.6	50.5	50.2	49.4	49.2	51.3	50.5			
Race and Hispanic Origin											
White alone, percent, July 1, 2015, (V2015) (a)	90.7	75.8	85.8	69.5	83.0	91.8	82.4	87.0			
White alone, percent, April 1, 2010 (a)	83.4	74.2	86.1	68.7	82.6	89.3	82.4	85.8			
Black or African American alone, percent, July 1, 2015, (V2015) (a)	1.0	7.4	3.1	6.8	3.0	1.2	3.5	1.2			
Black or African American alone, percent, April 1, 2010 (a)	0.7	6.8	2.2	6.2	2.6	0.9	2.7	1.0			
American Indian and Alaska Native alone, percent, July 1, 2015, (V2015) (a)	2.8	1.7	1.1	1.1	1.8	1.2	1.7	3.2			
American Indian and Alaska Native alone, percent, April 1, 2010 (a)	2.2	1.4	0.8	0.8	1.6	1.0	1.4	2.8			
Asian alone, percent, July 1, 2015, (V2015) (a)	2.3	6.7	4.9	16.9	5.4	2.4	6.0	4.4			
Asian alone, percent, April 1, 2010 (a)	1.8	6.0	4.4	14.6	4.9	2.0	5.2	3.5			
Native Hawaiian and Other Pacific Islander alone, percent, July 1, 2015, (V2015) (a)	0.3	1.6	0.5	0.9	1.0	0.2	1.1	0.3			
Native Hawaiian and Other Pacific Islander alone, percent, April 1, 2010 (a)	0.2	1.1	0.5	0.8	0.9	0.1	0.8	0.2			
Two or More Races, percent, July 1, 2015, (V2015)	3.0	6.8	4.6	5.0	5.7	3.2	5.3	3.8			
Two or More Races, percent, April 1, 2010	3.2	6.8	4.5	5.0	5.8	3.0	5.3	3.8			
Hispanic or Latino, percent, July 1, 2015, (V2015) (b)	17.9	30.5	7.8	9.5	7.5	8.9	9.2	9.2			
Hispanic or Latino, percent, April 1, 2010 (b)	16.9	9.2	5.5	8.9	6.2	7.6	7.1	7.8			
White alone, not Hispanic or Latino, percent, July 1, 2015, (V2015)	75.2	67.8	80.0	61.7	77.1	84.1	75.7	79.5			
White alone, not Hispanic or Latino, percent, April 1, 2010	76.7	70.1	81.1	64.8	78.1	85.1	76.9	81.9			
Population Characteristics											
Veterans, 2011-2015	10736	88396	12612	115229	34009	3019	29109	15846			
Foreign born persons, percent, 2011-2015	9.9	9.7	7.0	21.2	6.4	6.1	7.9	11.0			
Housing											
Housing units, July 1, 2015, (V2015)	52324	336357	40650	891167	109690	22775	112553	93247			
Housing units, April 1, 2010	51473	325375	40234	851261	107367	21900	108182	90665			
Owner-occupied housing unit rate, 2011-2015	66.8	61.0	67.8	57.4	67.2	57.6	64.6	63.1			
Median value of owner-occupied housing units, 2011-2015	236000	236000	384300	258700	242900	239400	234700	234700			
Median selected monthly owner costs with a mortgage, 2011-2015	1621	1735	1688	2196	1689	1476	1666	1612			
Median selected monthly owner costs without a mortgage, 2011-2015	521	547	497	689	511	458	500	478			
Median gross rent, 2011-2015	954	1029	1076	1204	1042	798	1054	925			
Building permits, 2015	438	2897	281	1837	918	295	1020	1144			
Families and Living Arrangements											
Households, 2011-2015	45841	303586	33125	819651	97739	16953	102631	79767			
Persons per household, 2011-2015	2.56	2.65	2.33	2.45	2.54	2.34	2.52	2.53			
Living in same house 1 year ago, percent of persons age 1 years+, 2011-2015	83.0	82.5	82.7	81.2	81.1	70.8	81.0	82.5			
Language other than English spoken at home, percent of persons age 5 and over, 2011-2015	15.3	14.9	8.6	26.4	7.8	9.1	11.4	12.4			
Education											
High school graduate or higher, percent of persons age 25 years+, 2011-2015	88.3	90.9	94.5	92.3	94.5	90.8	93.4	91.2			
Bachelor's degree or higher, percent of persons age 25 years+, 2011-2015	24.8	24.7	31.7	47.9	30.3	33.6	33.4	32.5			
Health											
With a disability, under age 65 years, percent, 2011-2015	9.9	10.1	10.0	6.4	11.7	9.6	8.6	9.3			
Persons without health insurance, under age 65 years, percent, 2011-2015	9.8	7.3	6.2	6.5	5.8	8.9	6.6	9.1			
Economy											
In civilian labor force, total, percent of population age 16 years+, 2011-2015	59.0	62.3	52.9	69.3	56.4	60.6	61.7	62.9			
In civilian labor force, female, percent of population age 16 years+, 2011-2015	53.9	58.2	51.4	63.3	54.0	56.2	58.2	57.9			
Total accommodation and food services sales, 2012 (\$1,000) (c)	291530	1362881	0	6232768	429881	1014909	419185	493489			
Total health care and social assistance receipts/revenue, 2012 (\$1,000) (c)	700349	5362960	228308	17719220	1272843	114895	1584793	1036198			
Total manufacturers shipments, 2012 (\$1,000) (c)	11529427	4461036	123716	0	338168	0	910527	1493180			
Total merchant wholesaler sales, 2012 (\$1,000) (c)	793543	7705621	57537	42092462	407880	398681	1253014	0			
Total retail sales, 2012 (\$1,000) (c)	1993168	10114397	456279	61598157	2674165	515984	3330812	3103604			
Total retail sales per capita, 2012 (c)	16910	12461	5763	30685	10487	12382	12894	15120			
Transportation											
Mean travel time to work (minutes), workers age 16 years+, 2011-2015	24.7	29.8	28.6	28.1	29.9	21.3	24.6	20.4			
Income and Poverty											
Median household income in 2015 (dollars), 2011-2015	54129	59953	58815	75302	62941	46458	61677	53145			
Per capita income in past 12 months (in 2015 dollars), 2011-2015	27794	28824	31836	41664	32063	24014	29741	27223			
Persons in poverty, percent	14.9	12.4	8.4	9.8	9.9	20.0	12.7	14.4			
Businesses											
Total employer establishments, 2015	3417	17012	1706	68891	5676	1139	6039	6401			
Total employment, 2015	39772	244825	12224	1137377	57374	11086	68684	37451			
Total annual payroll, 2015 (\$1,000)	1724239	10815084	438854	83213348	2188302	369769	2708536	3052038			
Total employment, percent change, 2014-2015	0.4	1.5	5.2	3.4	2.6	5.5	3.5	2.5			
Total nonemployer establishments, 2014	7548	40709	5747	159920	14142	2519	14338	14710			
All firms, 2012	9505	50503	7083	201404	18206	3128	18842	18054			
Men-owned firms, 2012	4460	23389	2966	100912	7934	1248	8970	8805			
Women-owned firms, 2012	2889	18469	2788	71005	6698	1029	6797	5810			
Minority-owned firms, 2012	1028	8316	520	45508	1947	153	2758	1802			
Nonminority-owned firms, 2012	8009	38961	6138	145716	15307	2832	15115	15440			
Veteran-owned firms, 2012	845	5147	905	15016	2015	232	2288	1751			
Nonveteran-owned firms, 2012	7902	42005	5639	175951	54716	2626	15225	15060			
Geography											
Population per square mile, 2010	67.5	476.3	376.6	912.9	635.9	17.8	349.4	95.5			
Land area in square miles, 2010	1731.20	1869.51	208.45	2115.57	384.94	2297.27	721.96	2165.86			
FIPS code	"53057"	"53053"	"53029"	"53021"	"53035"	"53037"	"53067"	"53073"			



Persons per household
2.50
weighted
average

This geographic level of poverty and health estimates are not comparable to other geographic levels of these estimates

Some estimates presented here come from sample data, and thus have sampling errors that may render some apparent differences between geographies statistically indistinguishable. Click the Quick Info icon to the left of each row in TABLE view to learn about sampling error. The vintage year (e.g., V2015) refers to the final year of the series (2010 thru 2015). Different vintage years of estimates are not comparable.

- (a) Includes persons reporting only one race
- (b) Hispanics may be of any race, so also are included in applicable race categories
- (c) Economic Census - Puerto Rico data are not comparable to U.S. Economic Census data
- (d) Suppressed to avoid disclosure of confidential information
- F: Fewer than 25 firms
- FN: Footnote on this item in place of data
- NA: Not available
- S: Suppressed; does not meet publication standards
- X: Not applicable
- Z: Value greater than zero but less than half unit of measure shown

QuickFacts data are derived from: Population Estimates, American Community Survey, Census of Population and Housing, Current Population Survey, Small Area Health Insurance Estimates, Small Area Income and Poverty Estimates, State and County Housing Unit Estimates, County Business Patterns, Nonemployer Statistics, Economic Census, Survey of Business Owners, Building Permits

Sort Order	Year	Facility / Firm	MWh	lbs CO2/MWh	Short Tons CO2
295	2006	Electron	67270.35	0	0
296	2006	Lower Baker	334144.54	0	0
299	2006	Snoqualmie Falls #1	47557.4	0	0
300	2006	Snoqualmie Falls #2	161751.4	0	0
302	2006	Upper Baker	338552.67	0	0
305	2006	Colstrip 1 & 2	2180745	2483.237884	2707654.3
306	2006	Colstrip 3 & 4	2619283	2451.102573	3210065.65
307	2006	Encogen	259963.15	1062.514745	138107.34
309	2006	Crystal Mountain	1060.42	1719.184172	911.52864
311	2006	Freddie #1	393030	765.3845359	150409.5421
312	2006	Fredonia	42874.4	1279.483182	27428.53688
314	2006	Fredrickson 1 & 2	12684.3	1724.889743	10939.50949
315	2006	Hopkins Ridge (W184)	361586.578	0	0
318	2006	Whitehorn 2&3	13578	1596.430585	10838.16724
319	2006	Wild Horse (W183)	11241.772	0	0
321	2006	BC Hydro (Point Roberts)	22242.52	845.2820745	9400.601724
322	2006	BPA	7077	0	0
323	2006	BPA Firm - WNP#3 Exchange	362075	845.2820745	153027.7536
325	2006	Chelan PUD - Rock Island Syst #2	1294355	0	0
326	2006	Chelan PUD - Rocky Reach	2365522	0	0
327	2006	Douglas PUD - Wells Project	1133871	0	0
328	2006	Grant PUD - Priest Rapids	443113	0	0
329	2006	Grant PUD - Wanapum	455505	0	0
330	2006	NWWestern Energy(MPC) Firm Contract	723917	2.465702263	892.4818924
331	2006	Snohomish PUD Conservation	89664	845.2820745	37895.68596
332	2006	VanderHaak Dairy Digester	1823.28	0	0
333	2006	WASCO Hydro	36732	0	0
335	2006	Hutchinson Creek	2171.36	0	0
336	2006	Koma Kulshan Associates	33468	0	0
338	2006	March Point Cogen. - 1 & 2	983695.89	726.8007385	357475.4496
339	2006	Nooksack	17652.95	0	0
340	2006	Port Townsend Paper Co.	1847.064	1056.353323	975.5760969
341	2006	Puyallup Energy Recovery Company	4828.61	0	0
342	2006	Spokane MSW	141325	4573.681677	323187.7815
343	2006	Sumas Cogeneration	579513.65	927.4948112	268747.9517
344	2006	Sygitowicz Creek	585.6	0	0
345	2006	Tenaska	844472.04	861.3853473	363707.9207
346	2006	Twin Falls Hydro	67233	0	0
347	2006	Weeks Falls	12691	0	0
617	2007	Electron	88728.5	0	0
618	2007	Lower Baker	436208.3	0	0
620	2007	Snoqualmie Falls #1	52146.4	0	0
621	2007	Snoqualmie Falls #2	176100.2	0	0
623	2007	Upper Baker	401050.43	0	0
627	2007	Colstrip 1 & 2	2366043	2509.632581	2968949.3
628	2007	Colstrip 3 & 4	2776869	2420.54085	3360762.425
629	2007	Encogen	182970	1127.54362	103153.3281
630	2007	Goldendale	636737.2	783.9498906	249585.0292
632	2007	Crystal Mountain	313.42	1963.396403	307.6838503
634	2007	Freddie #1	440914	391.9427074	86406.51343
635	2007	Fredonia	7927.5	1599.732807	6340.940915
636	2007	Fredonia 3 & 4	19646.9	1159.442659	11389.72699
637	2007	Fredrickson 1 & 2	8908	1324.521539	5899.418934
639	2007	Hopkins Ridge (W184)	402465.2	0	0
642	2007	Whitehorn 2&3	13208	1471.344038	9716.756025
643	2007	Wild Horse (W183)	612858.346	0	0
645	2007	BC Hydro (Point Roberts)	22373.44	858.7896	9607.038794
646	2007	BPA	6923	0	0
647	2007	BPA Firm - WNP#3 Exchange	339510	858.7896	145783.8285
649	2007	Chelan PUD - Rock Island Syst #2	1279176	0	0

650	2007 Chelan PUD - Rocky Reach	2478149	0	0
651	2007 Douglas PUD - Wells Project	1143974	0	0
652	2007 Grant PUD - Priest Rapids	437351	0	0
653	2007 Grant PUD - Wanapum	471766	0	0
654	2007 Klondike Wind Power III	8570	0	0
655	2007 NWestern Energy(MPC) Firm Contract	744477	2.461528303	916.2756034
656	2007 Snohomish PUD Conservation	89728	858.7896	38528.73661
657	2007 VanderHaak Dairy Digester	2091.6	0	0
658	2007 WASCO Hydro	43893	0	0
660	2007 Hutchinson Creek	1860.32	0	0
661	2007 Koma Kulshan Associates	43644	0	0
663	2007 March Point Cogen. - 1 & 2	1025307.58	716.4671625	367299.6062
664	2007 Nooksack	22963.77	0	0
665	2007 Port Townsend Paper Co.	2611.32	1070.767948	1398.05888
666	2007 Puyallup Energy Recovery Company	2756.55	0	0
667	2007 Spokane MSW	141747	4476.201431	317244.0621
668	2007 Sumas Cogeneration	228957.17	848.7317222	97161.6066
669	2007 Sygitowicz Creek	458.4	0	0
670	2007 Tenaska	729134	885.2920309	322748.2598
671	2007 Twin Falls Hydro	73012	0	0
672	2007 Weeks Falls	13389.6	0	0
954	2008 Electron	96154.205	0	0
955	2008 Lower Baker	321027.4	0	0
956	2008 Snoqualmie Falls #1	59492	0	0
957	2008 Snoqualmie Falls #2	181143.4	0	0
959	2008 Upper Baker	317108.09	0	0
963	2008 Colstrip 1 & 2	2124142	2267.459071	2408202.523
964	2008 Colstrip 3 & 4	2943303	2142.852231	3153531.7
965	2008 Encogen	98884	906.7478493	44831.42716
966	2008 Goldendale	1368284	686.3778073	469579.8858
967	2008 Sumas	218930.3	797.7681017	87327.80492
970	2008 Crystal Mountain	360.91	1689.205757	304.8256249
972	2008 Freddie #1	545866.187	350.348156	95621.60602
973	2008 Fredonia	7453.4	1941.052013	7233.718535
974	2008 Fredonia 3 & 4	9931.3	1159.05247	5755.448895
975	2008 Fredrickson 1 & 2	15741.2	2256.042867	17756.41099
977	2008 Hopkins Ridge (W184)	425322.08	0	0
981	2008 Whitehorn 2&3	4135	1771.636384	3662.858224
982	2008 Wild Horse (W183)	682096.784	0	0
984	2008 BC Hydro (Point Roberts)	22695.39	845.2820745	9592.00317
985	2008 BPA	7063	0	0
986	2008 BPA Firm - WNP#3 Exchange	374999	845.2820745	158489.9663
988	2008 Chelan PUD - Rock Island Syst #2	1327464	0	0
989	2008 Chelan PUD - Rocky Reach	2144307	0	0
990	2008 Douglas PUD - Wells Project	1045492	0	0
991	2008 Grant PUD - Priest Rapids	464474	0	0
992	2008 Grant PUD - Wanapum	456458	0	0
993	2008 Klondike Wind Power III	148311	0	0
994	2008 NWestern Energy(MPC) Firm Contract	795395	2.016330894	801.8897556
995	2008 Snohomish PUD Conservation	89984	845.2820745	38030.93109
996	2008 VanderHaak Dairy Digester	2232	0	0
997	2008 WASCO Hydro	41552	0	0
999	2008 Hutchinson Creek	2058.24	0	0
1000	2008 Koma Kulshan Associates	36091.56	0	0
1002	2008 March Point Cogen. - 1 & 2	1022961.27	712.186378	364269.5409
1003	2008 Nooksack	19741.44	0	0
1004	2008 Port Townsend Paper Co.	2366.18	2523.951246	2986.06148
1005	2008 Puyallup Energy Recovery Company	1746.732	0	0
1006	2008 Spokane MSW	128135	4609.472505	295317.3797
1008	2008 Sygitowicz Creek	651.84	0	0
1009	2008 Tenaska	491579.42	873.9412932	214805.777

1010	2008 Twin Falls Hydro	73323	0	0
1011	2008 Weeks Falls	11993.8	0	0
1267	2009 Electron	90893.71	0	0
1268	2009 Lower Baker	344847.472	0	0
1269	2009 Snoqualmie Falls #1	62769	0	0
1270	2009 Snoqualmie Falls #2	151915.2	0	0
1272	2009 Upper Baker	337353.652	0	0
1274	2009 Colstrip 1 & 2	2310597	2654.120545	3066301.485
1275	2009 Colstrip 3 & 4	2140507	2551.28305	2730519.614
1276	2009 Encogen	384510	1108.323814	213080.7949
1278	2009 Goldendale	1368799	888.2315461	607905.2261
1279	2009 Mint Farm	1426827.5	913.8124217	651926.3465
1280	2009 Sumas	539532.2	1079.782293	291288.658
1283	2009 Crystal Mountain	419.45	1824.319399	382.605386
1285	2009 Freddie #1	454203	938.3644633	213103.9772
1286	2009 Fredonia	64044.5	1569.444414	50257.14138
1287	2009 Fredonia 3 & 4	89229	1396.776986	62316.50684
1288	2009 Fredrickson 1 & 2	18586.1	1769.998404	16448.68367
1290	2009 Hopkins Ridge (W184)	381219.264	0	0
1295	2009 Whitehorn 2&3	16995.3	1739.006396	14777.4677
1296	2009 Wild Horse (W183)	565274.874	0	0
1298	2009 BC Hydro (Point Roberts)	22270.57	819.2079	9122.113441
1299	2009 BPA	7014	0	0
1300	2009 BPA Firm - WNP#3 Exchange	393717	819.2079	161268.0384
1302	2009 Chelan PUD - Rock Island Syst #2	1263318	0	0
1303	2009 Chelan PUD - Rocky Reach	2007333	0	0
1304	2009 Douglas PUD - Wells Project	959848	0	0
1305	2009 Farm Power Rexville LLC	1523.01	0	0
1306	2009 Grant PUD - Priest Rapids	234580	0	0
1307	2009 Grant PUD - Priest Rapids Project	82584	0	0
1308	2009 Grant PUD - Wanapum	313799	0	0
1309	2009 Klondike Wind Power III	132569	0	0
1310	2009 NWestern Energy(MPC) Firm Contract	591921	2.421151105	716.5650915
1311	2009 Qualco Energy	3036	0	0
1312	2009 Snohomish PUD Conservation	89728	819.2079	36752.94323
1313	2009 VanderHaak Dairy Digester	2345.92	0	0
1314	2009 WASCO Hydro	39992	0	0
1316	2009 Koma Kulshan Associates	36065.16	0	0
1318	2009 March Point Cogen. - 1 & 2	995857.89	711.040621	354047.7063
1319	2009 Nooksack	23209.796	0	0
1320	2009 Port Townsend Paper Co.	1816.917	998.843086	907.4074916
1321	2009 Puyallup Energy Recovery Company	343.577	0	0
1322	2009 Spokane MSW	133987	1701.106388	113963.0708
1323	2009 Sygitowicz Creek	1018.08	0	0
1324	2009 Tenaska	866454.6	885.4954882	383620.8195
1325	2009 Twin Falls Hydro	69081.6	0	0
1326	2009 Weeks Falls	12348	0	0
1571	2010 Electron	88025.31	0	0
1572	2010 Lower Baker	366338.204	0	0
1573	2010 Snoqualmie Falls #1	13051.4	0	0
1574	2010 Snoqualmie Falls #2	101676.9	0	0
1576	2010 Upper Baker	360504.884	0	0
1578	2010 Colstrip 1 & 2	2293375	2459.379142	2820139.319
1579	2010 Colstrip 3 & 4	2904730	2253.714062	3273215.424
1580	2010 Encogen	197771.9	1048.039982	103636.4293
1581	2010 Freddie #1	418445.701	852.0439068	178267.0549
1582	2010 Goldendale	1541236	802.1247829	618131.7959
1583	2010 Mint Farm	1441302.4	853.1431213	614818.6142
1584	2010 Sumas	410625.5	1003.923843	206118.3649
1587	2010 Crystal Mountain	113.77	2093.354282	119.0804584
1590	2010 Fredonia	11884.6	1778.949592	10571.05216

1591	2010 Fredonia 3 & 4	62288.3	1250.837973	38956.28547
1592	2010 Fredrickson 1 & 2	10272.1	2012.636307	10337.0007
1594	2010 Hopkins Ridge (W184)	381270.988	0	0
1599	2010 Whitehorn 2&3	8366.7	1870.354418	7824.347155
1600	2010 Wild Horse (W183)	609654.955	0	0
1602	2010 BC Hydro (Point Roberts)	20921	842.5793	8813.800768
1603	2010 Book Outs - EITF 03-11	-753803	0	0
1604	2010 BPA	7000	0	0
1605	2010 BPA Firm - WNP#3 Exchange	406710	842.5793	171342.7136
1607	2010 Chelan PUD - Rock Island Syst #2	1213235	0	0
1608	2010 Chelan PUD - Rocky Reach	1914094	0	0
1609	2010 Credit Suisse Energy, LLC	107950	842.5793	45478.21772
1610	2010 Douglas PUD - Wells Project	871104	0	0
1611	2010 Farm Power Lynden LLC	204.023	0	0
1612	2010 Farm Power Rexville LLC	4873.87	0	0
1614	2010 Grant PUD - Priest Rapids Project	331731	0	0
1616	2010 Klondike Wind Power III	120632	0	0
1617	2010 NWestern Energy(MPC) Firm Contract	788313	2.156772578	850.1059307
1618	2010 Powerex Corp.	179999	842.5793	75831.71571
1619	2010 Qualco Energy	3520	0	0
1620	2010 Sempra Energy Trading	547795	842.5793	230780.3638
1621	2010 Shell Energy (Coral Pwr)	330050	842.5793	139046.649
1622	2010 Snohomish PUD Conservation	14464	842.5793	6093.533498
1623	2010 VanderHaak Dairy Digester	2551.8	0	0
1624	2010 WASCO Hydro	40782	0	0
1626	2010 Hutchinson Creek	1106.72	0	0
1627	2010 Koma Kulshan Associates	42708.48	0	0
1629	2010 March Point Cogen. - 1 & 2	1081243.416	712.532797	385210.6977
1630	2010 Nooksack	25921.554	0	0
1631	2010 Port Townsend Paper Co.	2886.24	1034.196753	1492.470018
1632	2010 Spokane MSW	141480	4609.10775	326048.2822
1633	2010 Sygitowicz Creek	1227.84	0	0
1634	2010 Tenaska	652723.44	885.4957138	288991.9042
1635	2010 Twin Falls Hydro	73497.6	0	0
1636	2010 Weeks Falls	13234.2	0	0
1882	2011 Electron	50340.805	0	0
1883	2011 Lower Baker	332792.353	0	0
1884	2011 Snoqualmie Falls #1	-290.36	0	0
1885	2011 Snoqualmie Falls #2	-174.56	0	0
1887	2011 Upper Baker	301309.366	0	0
1889	2011 Colstrip 1 & 2	1897910	2327.060586	2208275.778
1890	2011 Colstrip 3 & 4	2312673	2379.519196	2751524.899
1891	2011 Encogen	88887.6	1094.793628	48656.78904
1892	2011 Freddie #1	135217.964	868.1092041	58691.97955
1893	2011 Goldendale	609012.735	794.7303016	242000.4373
1894	2011 Mint Farm	702080.6	870.8206822	305693.1535
1895	2011 Sumas	178397.424	1016.040466	90629.5009
1898	2011 Crystal Mountain	273.13	1834.746098	250.5621008
1901	2011 Fredonia	27939.9	1632.494875	22805.87177
1902	2011 Fredonia 3 & 4	48850.4	1231.573102	30081.41934
1903	2011 Fredrickson 1 & 2	9975.6	12617.05712	62931.3575
1905	2011 Hopkins Ridge (W184)	433218.608	0	0
1909	2011 Whitehorn 2&3	22501	1900.704284	21383.87355
1910	2011 Wild Horse (W183)	730658.806	0	0
1912	2011 3 Bar G Wind Turbine #3 LLC	105.014	0	0
1913	2011 Barclays Bank Plc	109875	845.2820745	46437.68397
1914	2011 BC Hydro (Point Roberts)	22073.61	845.2820745	9329.213426
1915	2011 Black Creek Hydro Inc	9716.46	0	0
1916	2011 Book Outs - EITF 03-11	-509390	0	0
1917	2011 BPA	7000	0	0
1918	2011 BPA Firm - WNP#3 Exchange	413808	845.2820745	174892.2423

1919	2011 Chelan PUD - RI & RR	129926	0	0
1921	2011 Chelan PUD - Rock Island Syst #2	1647786	0	0
1922	2011 Chelan PUD - Rocky Reach	2517798	0	0
1923	2011 Douglas PUD - Wells Project	1061183	0	0
1924	2011 Farm Power Lynden LLC	3412.36	0	0
1925	2011 Farm Power Rexville LLC	4903.569	0	0
1926	2011 Grant PUD - Priest Rapids Project	253731	0	0
1927	2011 Island Community Solar LLC	15.23	0	0
1928	2011 JP Morgan Ventures Energy	385873	845.2820745	163085.765
1929	2011 Klondike Wind Power III	132950	0	0
1930	2011 Knudsen Wind Turbine #1	85.938	0	0
1931	2011 Powerex Corp.	180000	845.2820745	76075.3867
1932	2011 Qualco Energy	3315	0	0
1933	2011 Sempra Energy Trading	161925	845.2820745	68436.14995
1934	2011 Shell Energy (Coral Pwr)	437989	845.2820745	185112.1253
1935	2011 Skookumchuck Hydro	5017.4	0	0
1936	2011 Smith Creek Hydro	169.594	0	0
1937	2011 Van Dyk - S Holsteins	749.882	0	0
1938	2011 VanderHaak Dairy Digester	3919	0	0
1939	2011 WASCO Hydro	38437	0	0
1941	2011 Hutchinson Creek	1180.2	0	0
1942	2011 Koma Kulshan Associates	41094.68	0	0
1944	2011 March Point Cogen. - 1 & 2	769775.106	712.2246012	274126.3839
1945	2011 Nooksack	24528.506	0	0
1946	2011 Port Townsend Paper Co.	2962.03	1037.003863	1535.818277
1947	2011 Spokane MSW	143386	4486.48132	321649.3052
1948	2011 Sygitowicz Creek	1153.68	0	0
1949	2011 Tenaska	81307.08	775.6870797	31534.42572
1950	2011 Twin Falls Hydro	90259.6	0	0
1951	2011 Weeks Falls	15834	0	0
2209	2012 Electron	49582.501	0	0
2210	2012 Lower Baker	349273.416	0	0
2211	2012 Snoqualmie Falls #1	-1203.37	0	0
2212	2012 Snoqualmie Falls #2	-636.02	0	0
2214	2012 Upper Baker	349723.137	0	0
2217	2012 Colstrip 1 & 2	1424335.012	2349.825736	1673469.534
2218	2012 Colstrip 3 & 4	2385189	2393.764501	2854790.379
2220	2012 Encogen	108457.07	1049.412207	56908.0866
2221	2012 Ferndale Co-Generation	1607.07	19630.89739	15774.11313
2222	2012 Freddie #1	175177.486	1749.287077	153217.8562
2223	2012 Goldendale	909496.565	788.6611973	358642.3249
2224	2012 Mint Farm	1098069.371	870.2047093	477772.5689
2225	2012 Sumas	223749.874	1049.718162	117437.1533
2228	2012 Crystal Mountain	298.26	72576.73036	10823.3678
2233	2012 Fredonia	17192.718	14670.9394	126116.6619
2234	2012 Fredonia 3 & 4	25360	1266.869995	16063.91154
2235	2012 Fredrickson 1 & 2	31650.31	2994.538781	47389.04037
2237	2012 Hopkins Ridge (W184)	430639.962	0	0
2238	2012 Lower Snake River	714783.177	0	0
2245	2012 Whitehorn 2&3	29277.7	5720.020083	83734.51599
2246	2012 Wild Horse (W183)	677389.93	0	0
2248	2012 3 Bar G Wind Turbine #3 LLC	190.138	0	0
2249	2012 Barclays Bank Plc	217875	665.754349	72525.61439
2250	2012 BC Hydro (Point Roberts)	21416.769	665.754349	7129.153551
2251	2012 Black Creek Hydro Inc	11481.12	0	0
2252	2012 Book Outs - EITF 03-11	-449210	0	0
2253	2012 BPA	6832	0	0
2254	2012 BPA Firm - WNP#3 Exchange	400153	665.754349	133201.8
2255	2012 CC Solar 1 and CC Solar 2	3.48	0	0
2256	2012 Chelan PUD - RI & RR	2300840	0	0
2258	2012 Chelan PUD - Rock Island Syst #2	716417	0	0

2259	2012 Chelan PUD - Rocky Reach	-80276	0	0
2260	2012 Douglas PUD - Wells Project	979910	0	0
2261	2012 Edaleen Dairy LLC	1390.963	0	0
2262	2012 Farm Power Lynden LLC	4187.861	0	0
2263	2012 Farm Power Rexville LLC	5803.073	0	0
2264	2012 Grant PUD - Priest Rapids Project	75568	0	0
2265	2012 Island Community Solar LLC	57.93	0	0
2266	2012 JP Morgan Ventures Energy	549589	665.754349	182945.6334
2267	2012 Klamath Falls (Iberdrola)	500	801.8798594	200.4699649
2268	2012 Klondike Wind Power III	124794	0	0
2269	2012 Knudsen Wind Turbine #1	134.729	0	0
2270	2012 Powerex Corp.	120000	665.754349	39945.26094
2271	2012 Qualco Energy	3402	0	0
2272	2012 Rainier Bio Gas	58.277	0	0
2273	2012 Shell Energy (Coral Pwr)	439124	665.754349	146174.3564
2274	2012 Skookumchuck Hydro	6421.8	0	0
2275	2012 Smith Creek Hydro	215.179	0	0
2276	2012 Swauk Wind	29.4	0	0
2278	2012 Van Dyk - S Holsteins	2762.123	0	0
2279	2012 VanderHaak Dairy Digester	3538.12	0	0
2280	2012 WASCO Hydro	38227	0	0
2282	2012 Bio Energy Washington (BEW)	2787.312	0	0
2283	2012 Hutchinson Creek	1243.96	0	0
2284	2012 Koma Kulshan Associates	42519.24	0	0
2285	2012 Lake Washington -- Finn Hill	95.68	0	0
2288	2012 Nooksack	25294.784	0	0
2289	2012 Port Townsend Paper Co.	1475.007	988.6579965	729.1387327
2290	2012 Sygitowicz Creek	1478.24	0	0
2292	2012 Twin Falls Hydro	95827.2	0	0
2293	2012 Weeks Falls	17113.6	0	0
2527	2013 Electron	57768.31	0	0
2528	2013 Lower Baker	350427.556	0	0
2529	2013 Snoqualmie Falls #1	-173.11	0	0
2530	2013 Snoqualmie Falls #2	76306.593	0	0
2532	2013 Upper Baker	353239.953	0	0
2535	2013 Colstrip 1 & 2	2322485	2417.195147	2806949.736
2536	2013 Colstrip 3 & 4	2023723	2310.694121	2338102.419
2537	2013 Encogen	268267.325	1090.011949	146207.2948
2538	2013 Ferndale Co-Generation	869393.886	1001.411235	435310.4027
2539	2013 Freddie #1	416396.539	1735.174895	361260.4105
2540	2013 Goldendale	1469093.627	816.8195475	599992.1958
2541	2013 Mint Farm	1614347.759	864.2324486	697585.8584
2542	2013 Sumas	536584.62	1027.042417	275547.5825
2545	2013 Crystal Mountain	48.722	2629.097627	64.04744728
2549	2013 Fredonia	112470.95	1470.413407	82689.39641
2550	2013 Fredonia 3 & 4	12943.957	1252.129526	8103.755372
2551	2013 Fredrickson 1 & 2	27905.3	2727.968702	38062.39251
2553	2013 Hopkins Ridge (W184)	406599.78	0	0
2554	2013 Lower Snake River	816895.07	0	0
2561	2013 Whitehorn 2&3	27795.7	2273.29851	31593.9617
2562	2013 Wild Horse (W183)	659105.342	0	0
2564	2013 3 Bar G Wind Turbine #3 LLC	202.654	0	0
2565	2013 Barclays Bank Plc	216075	1132.125053	122311.9604
2566	2013 BC Hydro (Point Roberts)	21366.07	1132.125053	12094.53157
2567	2013 Bio Energy Washington (BEW)	0.894	0	0
2568	2013 Black Creek Hydro Inc	12819.279	0	0
2569	2013 Book Outs - EITF 03-11	-204155	0	0
2570	2013 BPA	7000	0	0
2571	2013 BPA Firm - WNP#3 Exchange	374969	1132.125053	212255.8996
2572	2013 CC Solar 1 and CC Solar 2	28.17	0	0
2573	2013 Chelan PUD - RI & RR	2436603	0	0

2574	2013 Chelan PUD - Rock Island Syst #2	-43063	0	0
2575	2013 Chelan PUD - Rocky Reach	-78804	0	0
2576	2013 Douglas PUD - Wells Project	1064303	0	0
2577	2013 Edaleen Dairy LLC	3924.854	0	0
2578	2013 Farm Power Lynden LLC	4128.73	0	0
2579	2013 Farm Power Rexville LLC	5448.142	0	0
2580	2013 Grant PUD - Priest Rapids Project	72986	0	0
2581	2013 Island Community Solar LLC	59.14	0	0
2582	2013 JP Morgan Ventures Energy	161925	1132.125053	91659.67463
2583	2013 Klamath Falls (Iberdrola)	8450	807.418888	3411.344802
2584	2013 Klondike Wind Power III	134050	0	0
2585	2013 Knudsen Wind Turbine #1	127.961	0	0
2586	2013 Qualco Energy	3381	0	0
2587	2013 Rainier Bio Gas	5794.989	0	0
2588	2013 Shell Energy (Coral Pwr)	107950	1132.125053	61106.44975
2589	2013 Skookumchuck Hydro	6742.462	0	0
2590	2013 Smith Creek Hydro	147.297	0	0
2591	2013 Swauk Wind	10571.721	0	0
2592	2013 Van Dyk - S Holsteins	2314.859	0	0
2593	2013 VanderHaak Dairy Digester	2969.871	0	0
2596	2013 Bio Energy Washington (BEW)	27.051	0	0
2597	2013 BIO FUEL WA	1564.512	0	0
2598	2013 Hutchinson Creek	814.8	0	0
2599	2013 Koma Kulshan Associates	40135.912	0	0
2600	2013 Lake Washington -- Finn Hill	288.08	0	0
2601	2013 Nooksack	23771.707	0	0
2602	2013 Sygitowicz Creek	1170.082	0	0
2603	2013 Twin Falls Hydro	83478.722	0	0
2604	2013 Weeks Falls	14706.681	0	0
2801	2014 Electron	42364.24	0	0
2802	2014 Lower Baker	429609.103	0	0
2803	2014 Snoqualmie Falls #1	40375.218	0	0
2804	2014 Snoqualmie Falls #2	147766.713	0	0
2806	2014 Upper Baker	340085.381	0	0
2809	2014 Colstrip 1 & 2	2114046	2408.328395	2545658.505
2810	2014 Colstrip 3 & 4	2395521	2341.587117	2804660.556
2811	2014 Encogen	218068.829	1067.000358	116339.7593
2812	2014 Ferndale Co-Generation	722557.118	1015.571421	366904.1794
2813	2014 Freddie #1	346742.947	1725.324511	299122.0527
2814	2014 Goldendale	1029457.112	828.5867304	426497.2513
2815	2014 Mint Farm	1284786.434	871.8990187	560102.0155
2816	2014 Sumas	446064.98	1032.888667	230367.7314
2819	2014 Crystal Mountain	357.8	1822.931919	326.1225203
2823	2014 Fredonia	56804.9	1772.047023	50330.47697
2824	2014 Fredonia 3 & 4	11337.6	1329.409839	7536.158498
2825	2014 Fredrickson 1 & 2	14347.32	3747.279205	26881.70694
2827	2014 Hopkins Ridge (W184)	442302.622	0	0
2828	2014 Lower Snake River	883474.771	0	0
2835	2014 Whitehorn 2&3	24458.1	2653.728792	32452.58208
2836	2014 Wild Horse (W183)	649976.241	0	0
2838	2014 3 Bar G Wind Turbine #3 LLC	143.748	0	0
2839	2014 Barclays Bank Plc	216079	696.278019	75225.52903
2840	2014 BC Hydro (Point Roberts)	20696.929	696.278019	7205.408362
2841	2014 Bio Energy Washington (BEW)	13.751	0	0
2842	2014 Black Creek Hydro Inc	14182.659	0	0
2843	2014 Book Outs - EITF 03-11	-10172	0	0
2844	2014 BPA	7000	0	0
2845	2014 BPA Firm - WNP#3 Exchange	360022	696.278019	125337.7025
2846	2014 CC Solar 1 and CC Solar 2	28.02	0	0
2847	2014 Chelan PUD - RI & RR	2323845	0	0
2848	2014 Chelan PUD - Rock Island Syst #2	-38431	0	0

2849	2014 Chelan PUD - Rocky Reach	-81380	0	0
2850	2014 Douglas PUD - Wells Project	1048857	0	0
2851	2014 Edaleen Dairy LLC	3733.995	0	0
2852	2014 Farm Power Lynden LLC	4946.95	0	0
2853	2014 Farm Power Rexville LLC	5241.931	0	0
2854	2014 Grant PUD - Priest Rapids Project	50317	0	0
2855	2014 Island Community Solar LLC	59.67	0	0
2856	2014 Klamath Falls (Iberdrola)	1200	814.1182408	488.4709445
2857	2014 Klondike Wind Power III	129205	0	0
2858	2014 Knudsen Wind Turbine #1	151.547	0	0
2859	2014 Qualco Energy	290	0	0
2860	2014 Rainier Bio Gas	5027.634	0	0
2861	2014 Skookumchuck Hydro	6471.095	0	0
2862	2014 Smith Creek Hydro	174.334	0	0
2863	2014 Swauk Wind	11215.539	0	0
2864	2014 Transalta Centralia Generation LLC	133020	2369.480152	157594.1249
2865	2014 Van Dyk - S Holsteins	2188.82	0	0
2866	2014 VanderHaak Dairy Digester	3510.782	0	0
2868	2014 BIO FUEL WA	36676.847	0	0
2870	2014 Electron Hydro, LLC	8568.067	0	0
2871	2014 Hutchinson Creek	233.12	0	0
2872	2014 Koma Kulshan Associates	48522.929	0	0
2873	2014 Lake Washington -- Finn Hill	271.08	0	0
2874	2014 Nooksack	25212.422	0	0
2875	2014 Sygitowicz Creek	1168.214	0	0
2876	2014 Twin Falls Hydro	92557.659	0	0
2877	2014 Weeks Falls	16407.221	0	0
3062	2015 Lower Baker	308611.2	0	0
3063	2015 Snoqualmie Falls #1	17890.858	0	0
3064	2015 Snoqualmie Falls #2	100979.7	0	0
3065	2015 Upper Baker	278749.55	0	0
3066	2015 Colstrip 1 & 2	1756858	2594.516062	2279098.15
3067	2015 Colstrip 3 & 4	2738174	2358.818797	3229428.15
3068	2015 Crystal Mountain	293.68	1822.913728	267.6766518
3069	2015 Encogen	297657.6	1058.933486	157599.8
3070	2015 Ferndale Co-Generation	868466.832	1028.892028	446779.3
3071	2015 Freddie #1	623181.113	875.1429525	272686.2796
3072	2015 Fredonia	113691.1	1576.637719	89624.8383
3073	2015 Fredonia 3 & 4	47603.8	1200.139485	28565.6
3074	2015 Fredrickson 1 & 2	39935.4	2385.44986	47631.94717
3075	2015 Goldendale	1498666	810.7573002	607527.2
3076	2015 Hopkins Ridge (W184)	364779.478	0	0
3077	2015 Lower Snake River	741767.96	0	0
3078	2015 Mint Farm	1701035.9	887.9033064	755177.7
3079	2015 Sumas	601052.9	1035.872882	311307.2
3080	2015 Whitehorn 2&3	38733.3	1952.606278	37815.44237
3081	2015 Wild Horse (W183)	608885.75	0	0
3082	2015 3 Bar G Wind Turbine #3 LLC	138.036	0	0
3083	2015 Barclays Bank Plc	106200	696.278019	36972.36281
3084	2015 BC Hydro (Point Roberts)	19583.703	696.278019	6817.850965
3085	2015 Bio Energy Washington (BEW)	1.859	0	0
3086	2015 Black Creek Hydro Inc	6365.997	0	0
3087	2015 Book Outs - EITF 03-11	-2253	0	0
3088	2015 BPA	7000	0	0
3089	2015 BPA Firm - WNP#3 Exchange	343584	696.278019	119614.9934
3090	2015 CC Solar 1 and CC Solar 2	22.84	0	0
3091	2015 Chelan PUD - RI & RR	2299343	0	0
3092	2015 Chelan PUD - Rock Island Syst #2	-39940	0	0
3093	2015 Chelan PUD - Rocky Reach	-82401	0	0
3094	2015 Douglas PUD - Wells Project	1094705	0	0
3095	2015 Edaleen Dairy LLC	4697.428	0	0

3096	2015 Farm Power Lynden LLC	4857.809	0	0
3097	2015 Farm Power Rexville LLC	4485.2	0	0
3098	2015 Grant PUD - Priest Rapids Project	53743	0	0
3099	2015 Island Community Solar LLC	61.71	0	0
3100	2015 Klamath Falls (Iberdrola)	400	806.2825291	161.2565058
3101	2015 Klondike Wind Power III	119141	0	0
3102	2015 Knudsen Wind Turbine #1	129.628	0	0
3103	2015 Rainier Bio Gas	4950.266	0	0
3104	2015 Skookumchuck Hydro	4961.196	0	0
3105	2015 Smith Creek Hydro	162.849	0	0
3106	2015 Swauk Wind	11368.796	0	0
3107	2015 Transalta Centralia Generation LLC	1651177	2406.710741	1986952.711
3108	2015 Van Dyk - S Holsteins	1619.28	0	0
3109	2015 VanderHaak Dairy Digester	3455.446	0	0
3110	2015 BIO FUEL WA	32656.923	0	0
3111	2015 Electron Hydro, LLC	62833.254	0	0
3112	2015 Emerald City Renewables	1087.094	0	0
3113	2015 Hutchinson Creek	744.32	0	0
3114	2015 Koma Kulshan Associates	36094.142	0	0
3115	2015 Lake Washington -- Finn Hill	278.68	0	0
3116	2015 Nooksack	22257.174	0	0
3117	2015 Sygitowicz Creek	738.619	0	0
3118	2015 Twin Falls Hydro	52604.395	0	0
3119	2015 Weeks Falls	8526.616	0	0

Sort Order	Year	Facility / Firm	MWh	lbs CO2/MWh	Short Tons CO2
349	2006	Arizona Public Service	2,000	845	845
350	2006	ATCO Power Canada	820	845	347
351	2006	Avista Corp. WWP Division	102,667	845	43,391
352	2006	Avista Energy	713,907	845	301,726
353	2006	Barclays Bank Plc	7,600	845	3,212
354	2006	Bear Energy LP	48	845	20
355	2006	Benton County PUD	22,518	845	9,517
356	2006	Black Hills Power	12,360	845	5,224
357	2006	Book Outs - EITF 03-11	(2,421,278)	845	(1,023,331)
358	2006	BP Energy Co.	181,121	845	76,549
359	2006	BPA	739,012	845	312,337
360	2006	Burbank, City of	4,195	845	1,773
361	2006	Cargill Power Markets	48,374	845	20,445
362	2006	Chelan County PUD #1	40,907	845	17,289
363	2006	Cincinnati Gas & Electric Co	7,400	845	3,128
364	2006	Cinergy Services	21,330	845	9,015
365	2006	Citigroup Energy Inc	117,050	845	49,470
366	2006	Clatskanie PUD	9,785	845	4,136
367	2006	Conoco, Inc.	17,475	845	7,386
368	2006	Constellation Power Source, Inc.	320,060	845	135,270
369	2006	DB Energy Trading LLC	27,200	845	11,496
370	2006	Douglas County PUD #1	292,497	845	123,621
371	2006	ENMAX Energy Marketing, Inc.	175	845	74
372	2006	Epcor Merchant & Capital	63,703	845	26,924
373	2006	Eugene Water & Electric	63,650	845	26,901
374	2006	Fortis Energy Marketing & Trading	16,400	845	6,931
375	2006	Franklin County PUD #1	15,035	845	6,354
376	2006	Grant County PUD #2	89,108	845	37,661
377	2006	Grays Harbor PUD #1	21,400	845	9,045
378	2006	Iberdrola Renewables (PPM Energy)	400,182	845	169,133
379	2006	Idaho Falls Power	84,230	845	35,599
380	2006	Idaho Power Company	99,558	845	42,077
381	2006	J. Aron & Company	20,000	845	8,453
382	2006	JP Morgan Ventures Energy	10,000	845	4,226
383	2006	King County	40	845	17
384	2006	Klamath Falls, City of	31,207	845	13,189
385	2006	Lehman Bros Commodity Services	7,800	845	3,297
386	2006	Los Angeles Dept. Water & Power	1,275	845	539
387	2006	Macquarie Energy LLC	83,200	845	35,164
388	2006	Merrill Lynch Commodities	24,400	845	10,312
389	2006	Modesto Irrigation District	852	845	360
390	2006	Morgan Stanley CG	276,663	845	116,929
391	2006	N. California Power Agency	1,315	845	556
392	2006	New Mexico, Public Service Company	3,200	845	1,352
393	2006	Noble Americas Energy Solutions	29,225	845	12,352
394	2006	NorthPoint Energy Solutions, Inc.	1,342	845	567
395	2006	Northwestern Energy	9,629	845	4,070
396	2006	Occidental Power Services	1,064	845	450
397	2006	Okanogan PUD	3,761	845	1,590
398	2006	Pacific Northwest Generatin Coop.	181,909	845	76,882
399	2006	Pacificorp	352,506	845	148,984
400	2006	PG&E Energy Trading	24,945	845	10,543

401	2006 Pinnacle West Capital Corp	889,475	845	375,929
402	2006 Portland General Electric	500,872	845	211,689
403	2006 Powerex Corp.	504,275	845	213,127
404	2006 PP&L Montana, LLC.	41,793	845	17,663
405	2006 Public Service of Colorado	19,800	845	8,368
406	2006 Rainbow Energy Marketing	121,336	845	51,282
407	2006 Redding, City of	2,903	845	1,227
408	2006 Sacramento Municipal	5,025	845	2,124
409	2006 San Diego Gas & Electric	6,904	845	2,918
410	2006 Seattle City Light Marketing	172,078	845	72,727
411	2006 Sempra Energy Trading	1,226,010	845	518,162
412	2006 Shell Energy (Coral Pwr)	730,645	845	308,801
413	2006 Sierra Pacific Power	26,329	845	11,128
414	2006 Silicon Valley Pwr - Santa Clara	448	845	189
415	2006 Snohomish County PUD #1	80,505	845	34,025
416	2006 Southern Cal - Edison	29,334	845	12,398
417	2006 SUEZ Energy Marketing (Tractebel)	116,640	845	49,297
418	2006 Sumas Cogeneration	21,788	845	9,208
419	2006 Tacoma Power	107,444	845	45,410
420	2006 Tenaska	1,537	845	650
421	2006 TransAlta Energy Marketing	1,162,941	845	491,507
422	2006 TransCanada Power Corp.	3,828	845	1,618
423	2006 Turlock Irrigation District	13,371	845	5,651
424	2006 UBS AG	100,496	845	42,474
425	2006 Western Area Power Association	473	845	200
426	2006 Wild Horse Test Power	144,854	845	61,221
427	2006 Williams Power Company	425	845	180
429	2006 Avista Energy	305,656	845	129,183
430	2006 Black Creek Hydro	2,816	845	1,190
431	2006 BPA	102,038	845	43,125
432	2006 Cargill Power Markets	30,396	845	12,847
433	2006 Deviation	(24,938)	845	(10,540)
434	2006 Douglas County PUD #1	75	845	32
435	2006 Pacific Gas & Elec - Exchange	412,904	845	174,510
436	2006 Powerex - Exchange	610,192	845	257,892
437	2006 Seattle City Light Marketing	78,400	845	33,135
438	2006 Tacoma Power	24,876	845	10,514
439	2006 Tacoma, City of	210	845	89
440	2006 TransAlta Energy Marketing	895,958	845	378,669
442	2006 Avista Energy	(309,216)	845	(130,687)
443	2006 Black Creek Hydro	(3,057)	845	(1,292)
444	2006 BPA	(103,655)	845	(43,809)
445	2006 Cargill Power Markets	(31,096)	845	(13,142)
446	2006 Douglas County PUD #1	(75)	845	(32)
447	2006 Pacific Gas & Elec - Exchange	(413,000)	845	(174,551)
448	2006 Powerex - Exchange	(610,192)	845	(257,892)
449	2006 Seattle City Light Marketing	(78,400)	845	(33,135)
450	2006 Storage/Interchange - Out	(21)	845	(9)
451	2006 Tacoma Power	(25,065)	845	(10,593)
452	2006 TransAlta Energy Marketing	(895,958)	845	(378,669)
504	2006 Arizona Public Service	(3,400)	845	(1,437)
505	2006 Avista Corp. WWP Division	(41,478)	845	(17,530)
506	2006 Avista Energy	(307,922)	845	(130,140)

507	2006 Barclays Bank Plc	(6,000)	845	(2,536)
508	2006 Bear Energy LP	(3,298)	845	(1,394)
509	2006 Benton County PUD	(4,433)	845	(1,874)
510	2006 Black Hills Power	(650)	845	(275)
511	2006 Book Outs - EITF 03-11	2,421,278	845	1,023,331
512	2006 BP Energy Co.	(95,783)	845	(40,482)
513	2006 BPA	(141,345)	845	(59,738)
514	2006 British Columbia Transmission Corp	(23)	845	(10)
515	2006 Burbank, City of	(3,121)	845	(1,319)
516	2006 Cargill Power Markets	(84,873)	845	(35,871)
517	2006 Chelan County PUD #1	(1,200)	845	(507)
518	2006 Cincinnati Gas & Electric Co	(13,200)	845	(5,579)
519	2006 Cinergy Services	(24,697)	845	(10,438)
520	2006 Citigroup Energy Inc	(88,920)	845	(37,581)
521	2006 Clatskanie PUD	(4,691)	845	(1,983)
522	2006 Conoco, Inc.	(44,413)	845	(18,771)
523	2006 Constellation Power Source, Inc.	(80,970)	845	(34,221)
524	2006 DB Energy Trading LLC	(30,000)	845	(12,679)
525	2006 Douglas County PUD #1	(980)	845	(414)
526	2006 ENMAX Energy Marketing, Inc.	(6,322)	845	(2,672)
527	2006 Epcor Merchant & Capital	(21,189)	845	(8,955)
528	2006 Eugene Water & Electric	(16,203)	845	(6,848)
529	2006 Fortis Energy Marketing & Trading	(45,575)	845	(19,262)
530	2006 Franklin County PUD #1	(1,725)	845	(729)
531	2006 Grant County PUD #2	(16,830)	845	(7,113)
532	2006 Grays Harbor PUD #1	(4,477)	845	(1,892)
533	2006 Hinson Power Company	(3,200)	845	(1,352)
534	2006 Iberdrola Renewables (PPM Energy)	(183,683)	845	(77,632)
535	2006 Idaho Power Company	(77,637)	845	(32,813)
536	2006 J. Aron & Company	(13,600)	845	(5,748)
537	2006 JP Morgan Ventures Energy	(20,000)	845	(8,453)
538	2006 Klamath Falls, City of	(9,281)	845	(3,923)
539	2006 Lehman Bros Commodity Services	(49,275)	845	(20,826)
540	2006 Los Angeles Dept. Water & Power	(3,215)	845	(1,359)
541	2006 Macquarie Energy LLC	(77,000)	845	(32,543)
542	2006 Merrill Lynch Commodities	(40,881)	845	(17,278)
543	2006 Modesto Irrigation District	(8,394)	845	(3,548)
544	2006 Morgan Stanley CG	(252,602)	845	(106,760)
545	2006 N. California Power Agency	(3,417)	845	(1,444)
546	2006 Noble Americas Energy Solutions	(2,072)	845	(876)
547	2006 NorthPoint Energy Solutions, Inc.	(17,324)	845	(7,322)
548	2006 Northwestern Energy	(25,569)	845	(10,807)
549	2006 Occidental Power Services	(5,300)	845	(2,240)
550	2006 Okanogan PUD	(260)	845	(110)
551	2006 Pacific Northwest Generatin Coop.	(7,665)	845	(3,240)
552	2006 Pacificorp	(299,493)	845	(126,578)
553	2006 PG&E Energy Trading	(10,225)	845	(4,322)
554	2006 Pinnacle West Capital Corp	(11,000)	845	(4,649)
555	2006 Portland General Electric	(84,922)	845	(35,892)
556	2006 Powerex Corp.	(546,974)	845	(231,174)
557	2006 PP&L Montana, LLC.	(54,840)	845	(23,178)
558	2006 Public Service of Colorado	(12,930)	845	(5,465)
559	2006 Rainbow Energy Marketing	(182,633)	845	(77,188)

560	2006 Redding, City of	(2,030)	845	(858)
561	2006 Sacramento Municipal	(9,398)	845	(3,972)
562	2006 San Diego Gas & Electric	(11,112)	845	(4,696)
563	2006 Seattle City Light Marketing	(43,046)	845	(18,193)
564	2006 Sempra Energy Trading	(186,355)	845	(78,761)
565	2006 Shell Energy (Coral Pwr)	(215,517)	845	(91,086)
566	2006 Sierra Pacific Power	(23,099)	845	(9,763)
567	2006 Silicon Valley Pwr - Santa Clara	(16,202)	845	(6,848)
568	2006 Snohomish County PUD #1	(29,170)	845	(12,328)
569	2006 Southern Cal - Edison	(18,966)	845	(8,016)
570	2006 SUEZ Energy Marketing (Tractebel)	(115,860)	845	(48,967)
571	2006 Tacoma Power	(9,162)	845	(3,872)
572	2006 TransAlta Energy Marketing	(618,699)	845	(261,488)
573	2006 TransCanada Power Corp.	(15,432)	845	(6,522)
574	2006 Turlock Irrigation District	(2,765)	845	(1,169)
575	2006 UBS AG	(74,264)	845	(31,387)
576	2006 Western Area Power Association	(515)	845	(218)
577	2006 Williams Power Company	(425)	845	(180)
674	2007 ATCO Power Canada	343	859	147
675	2007 Avista Corp. WWP Division	78,344	859	33,640
676	2007 Avista Energy	213,884	859	91,841
677	2007 Barclays Bank Plc	61,000	859	26,193
678	2007 Bear Energy LP	160,006	859	68,706
679	2007 Benton County PUD	23,621	859	10,143
680	2007 Black Hills Power	4,400	859	1,889
681	2007 Book Outs - EITF 03-11	(2,169,507)	859	(931,575)
682	2007 BP Energy Co.	32,332	859	13,883
683	2007 BPA	246,829	859	105,987
684	2007 British Columbia Transmission Corp	85	859	36
685	2007 Burbank, City of	1,105	859	474
686	2007 Cargill Power Markets	87,029	859	37,370
687	2007 Chelan County PUD #1	57,329	859	24,617
688	2007 Citigroup Energy Inc	186,496	859	80,080
689	2007 Clatskanie PUD	17,582	859	7,550
690	2007 Conoco, Inc.	46,240	859	19,855
691	2007 Constellation Power Source, Inc.	927,668	859	398,336
692	2007 CP Energy Marketing (Epcor)	79,114	859	33,971
693	2007 Credit Suisse Energy, LLC	153,200	859	65,783
694	2007 DB Energy Trading LLC	25,400	859	10,907
695	2007 Douglas County PUD #1	299,493	859	128,601
696	2007 ENMAX Energy Marketing, Inc.	1,711	859	735
698	2007 Eugene Water & Electric	94,235	859	40,464
699	2007 Fortis Energy Marketing & Trading	93,400	859	40,105
700	2007 Franklin County PUD #1	18,589	859	7,982
701	2007 Grant County PUD #2	56,689	859	24,342
702	2007 Grays Harbor PUD #1	32,287	859	13,864
703	2007 Highland Energy LLC	950	859	408
704	2007 Hinson Power Company	1,600	859	687
705	2007 Iberdrola Renewables (PPM Energy)	297,538	859	127,761
706	2007 Idaho Falls Power	42,710	859	18,339
707	2007 Idaho Power Company	60,463	859	25,962
708	2007 J. Aron & Company	22,050	859	9,468
709	2007 JP Morgan Ventures Energy	79,600	859	34,180

710	2007 Klamath Falls, City of	139,856	859	60,053
711	2007 Lehman Bros Commodity Services	67,050	859	28,791
712	2007 Los Angeles Dept. Water & Power	1,425	859	612
713	2007 Merrill Lynch Commodities	16,400	859	7,042
714	2007 Modesto Irrigation District	2,538	859	1,090
715	2007 Morgan Stanley CG	744,517	859	319,692
716	2007 N. California Power Agency	521	859	224
717	2007 Noble Americas Energy Solutions	2,096	859	900
718	2007 NorthPoint Energy Solutions, Inc.	6,276	859	2,695
719	2007 Northwestern Energy	12,808	859	5,500
720	2007 Occidental Power Services	10,803	859	4,639
721	2007 Okanogan PUD	4,694	859	2,016
722	2007 Pacific Northwest Generatin Coop.	170,767	859	73,326
723	2007 Pacific Summit Energy LLC	5,580	859	2,396
724	2007 Pacificorp	207,443	859	89,075
725	2007 PG&E Energy Trading	7,857	859	3,374
726	2007 Pinnacle West Marketing & Trading	21,000	859	9,017
727	2007 Portland General Electric	315,978	859	135,679
728	2007 Powerex Corp.	287,187	859	123,317
729	2007 PP&L Montana, LLC.	61,832	859	26,550
730	2007 Public Service of Colorado	18,791	859	8,069
731	2007 Rainbow Energy Marketing	181,241	859	77,824
732	2007 Redding, City of	1,171	859	503
733	2007 Sacramento Municipal	4,925	859	2,115
734	2007 San Diego Gas & Electric	3,300	859	1,417
735	2007 Seattle City Light Marketing	132,332	859	56,823
736	2007 Sempra Energy Trading	934,094	859	401,095
737	2007 Shell Energy (Coral Pwr)	700,864	859	300,947
738	2007 Sierra Pacific Industries	13,296	859	5,709
739	2007 Sierra Pacific Power	16,272	859	6,987
740	2007 Silicon Valley Pwr - Santa Clara	80	859	34
741	2007 Snohomish County PUD #1	72,772	859	31,248
742	2007 Southern Cal - Edison	10,850	859	4,659
743	2007 SUEZ Energy Marketing (Tractebel)	106,896	859	45,901
744	2007 Tacoma Power	81,554	859	35,019
745	2007 Talen Energy (PPL Energy Plus)	11,082	859	4,759
746	2007 Tenaska	658	859	283
747	2007 The Energy Authority	13,880	859	5,960
748	2007 TransAlta Energy Marketing	1,681,755	859	722,137
749	2007 TransCanada Energy Marketing	9,169	859	3,937
750	2007 TransCanada Power Corp.	5,615	859	2,411
751	2007 Turlock Irrigation District	8,922	859	3,831
752	2007 UBS AG	20,016	859	8,595
753	2007 Western Area Power Association	171	859	73
754	2007 Williams Power Company	90	859	39
756	2007 Avista Energy	31,945	859	13,717
757	2007 Black Creek Hydro	2,245	859	964
758	2007 BPA	82,864	859	35,581
759	2007 Cargill Power Markets	28,800	859	12,367
760	2007 Deviation	24,866	859	10,677
761	2007 Douglas County PUD #1	122	859	52
762	2007 Pacific Gas & Elec - Exchange	412,900	859	177,297
763	2007 Powerex - Exchange	483,866	859	207,770

764	2007 Shell Energy (Coral Pwr)	28,832	859	12,380
765	2007 Tacoma Power	30,800	859	13,225
766	2007 TransAlta Energy Marketing	602,125	859	258,549
768	2007 Avista Energy	(32,120)	859	(13,792)
769	2007 Black Creek Hydro	(2,959)	859	(1,271)
770	2007 BPA	(83,521)	859	(35,863)
771	2007 Cargill Power Markets	(28,800)	859	(12,367)
772	2007 Citigroup Energy Inc	(50,000)	859	(21,470)
773	2007 Douglas County PUD #1	(122)	859	(52)
774	2007 Pacific Gas & Elec - Exchange	(413,001)	859	(177,340)
775	2007 Powerex - Exchange	(483,866)	859	(207,770)
776	2007 Shell Energy (Coral Pwr)	(28,832)	859	(12,380)
777	2007 Tacoma Power	(30,800)	859	(13,225)
778	2007 TransAlta Energy Marketing	(552,125)	859	(237,080)
834	2007 Avista Corp. WWP Division	(24,864)	859	(10,676)
835	2007 Avista Energy	(123,747)	859	(53,136)
836	2007 Barclays Bank Plc	(78,600)	859	(33,750)
837	2007 Bear Energy LP	(63,113)	859	(27,100)
838	2007 Benton County PUD	(5,756)	859	(2,472)
839	2007 Black Hills Power	(4,759)	859	(2,043)
840	2007 Book Outs - EITF 03-11	2,169,507	859	931,575
841	2007 BP Energy Co.	(29,896)	859	(12,837)
842	2007 BPA	(166,938)	859	(71,682)
843	2007 British Columbia Transmission Corp	(144)	859	(62)
844	2007 Burbank, City of	(990)	859	(425)
845	2007 Cargill Power Markets	(103,403)	859	(44,401)
846	2007 Chelan County PUD #1	(1,500)	859	(644)
847	2007 Citigroup Energy Inc	(177,691)	859	(76,300)
848	2007 Clatskanie PUD	(8,512)	859	(3,655)
849	2007 Conoco, Inc.	(27,645)	859	(11,871)
850	2007 Constellation Power Source, Inc.	(35,515)	859	(15,250)
851	2007 CP Energy Marketing (Epcor)	(46,075)	859	(19,784)
852	2007 Credit Suisse Energy, LLC	(32,236)	859	(13,842)
853	2007 DB Energy Trading LLC	(5,600)	859	(2,405)
854	2007 Douglas County PUD #1	(220)	859	(94)
855	2007 ENMAX Energy Marketing, Inc.	(4,053)	859	(1,740)
857	2007 Eugene Water & Electric	(20,381)	859	(8,751)
858	2007 Fortis Energy Marketing & Trading	(82,563)	859	(35,452)
859	2007 Franklin County PUD #1	(1,984)	859	(852)
860	2007 Grant County PUD #2	(10,136)	859	(4,352)
861	2007 Grays Harbor PUD #1	(4,011)	859	(1,722)
862	2007 Highland Energy LLC	(50)	859	(21)
863	2007 Hinson Power Company	(4,843)	859	(2,080)
864	2007 Iberdrola Renewables (PPM Energy)	(168,650)	859	(72,417)
866	2007 Idaho Power Company	(47,675)	859	(20,471)
867	2007 J. Aron & Company	(35,775)	859	(15,362)
868	2007 JP Morgan Ventures Energy	(30,400)	859	(13,054)
869	2007 Klamath Falls, City of	(1,172)	859	(503)
870	2007 Lehman Bros Commodity Services	(42,162)	859	(18,104)
871	2007 Los Angeles Dept. Water & Power	(4,310)	859	(1,851)
872	2007 Merrill Lynch Commodities	(20,775)	859	(8,921)
873	2007 Modesto Irrigation District	(5,467)	859	(2,348)
874	2007 Morgan Stanley CG	(308,680)	859	(132,546)

875	2007 N. California Power Agency	(789)	859	(339)
876	2007 Noble Americas Energy Solutions	(5,000)	859	(2,147)
877	2007 NorthPoint Energy Solutions, Inc.	(12,286)	859	(5,276)
878	2007 Northwestern Energy	(19,257)	859	(8,269)
879	2007 Occidental Power Services	(1,275)	859	(547)
880	2007 Pacific Northwest Generatin Coop.	(15,299)	859	(6,569)
881	2007 Pacific Summit Energy LLC	(5,250)	859	(2,254)
882	2007 Pacificorp	(137,660)	859	(59,110)
883	2007 PG&E Energy Trading	(2,250)	859	(966)
885	2007 Pinnacle West Marketing & Trading	(1,034)	859	(444)
886	2007 Portland General Electric	(98,543)	859	(42,314)
887	2007 Powerex Corp.	(337,035)	859	(144,721)
888	2007 PP&L Montana, LLC.	(29,839)	859	(12,813)
889	2007 Public Service of Colorado	(1,668)	859	(716)
890	2007 Rainbow Energy Marketing	(174,730)	859	(75,028)
891	2007 Redding, City of	(702)	859	(301)
892	2007 Sacramento Municipal	(2,980)	859	(1,280)
893	2007 San Diego Gas & Electric	(1,200)	859	(515)
894	2007 Seattle City Light Marketing	(45,037)	859	(19,339)
895	2007 Sempra Energy Trading	(137,302)	859	(58,957)
896	2007 Shell Energy (Coral Pwr)	(155,921)	859	(66,952)
897	2007 Sierra Pacific Power	(15,870)	859	(6,814)
898	2007 Silicon Valley Pwr - Santa Clara	(1,548)	859	(665)
899	2007 Snohomish County PUD #1	(25,283)	859	(10,856)
900	2007 Southern Cal - Edison	(5,734)	859	(2,462)
901	2007 SUEZ Energy Marketing (Tractebel)	(83,511)	859	(35,859)
902	2007 Tacoma Power	(6,646)	859	(2,854)
903	2007 Talen Energy (PPL Energy Plus)	(1,217)	859	(523)
904	2007 The Energy Authority	(511)	859	(219)
905	2007 TransAlta Energy Marketing	(1,339,719)	859	(575,268)
906	2007 TransCanada Energy Marketing	(3,855)	859	(1,655)
907	2007 TransCanada Power Corp.	(2,083)	859	(894)
908	2007 Turlock Irrigation District	(1,311)	859	(563)
909	2007 UBS AG	(18,330)	859	(7,871)
910	2007 Western Area Power Association	(410)	859	(176)
911	2007 Williams Power Company	(1,186)	859	(509)
1013	2008 Avista Corp. WWP Division	228,885	845	96,736
1014	2008 Barclays Bank Plc	54,188	845	22,902
1015	2008 Bear Energy LP	82,433	845	34,840
1016	2008 Benton County PUD	5,473	845	2,313
1017	2008 Black Hills Power	4,193	845	1,772
1018	2008 Book Outs - EITF 03-11	(1,458,513)	845	(616,427)
1019	2008 BP Energy Co.	8,471	845	3,580
1020	2008 BPA	287,771	845	121,624
1021	2008 Burbank, City of	1,205	845	509
1022	2008 Cargill Power Markets	156,466	845	66,129
1023	2008 Chelan County PUD #1	60,076	845	25,391
1024	2008 Citigroup Energy Inc	176,981	845	74,799
1025	2008 Clatskanie PUD	29,829	845	12,607
1026	2008 Conoco, Inc.	260,284	845	110,007
1027	2008 Constellation Power Source, Inc.	447,128	845	188,975
1028	2008 CP Energy Marketing (Epcor)	30,330	845	12,819
1029	2008 Credit Suisse Energy, LLC	28,450	845	12,024

1030	2008 DB Energy Trading LLC	43,073	845	18,204
1031	2008 Douglas County PUD #1	239,272	845	101,126
1032	2008 ENMAX Energy Marketing, Inc.	868	845	367
1033	2008 Eugene Water & Electric	123,300	845	52,112
1034	2008 Fortis Energy Marketing & Trading	145,965	845	61,691
1035	2008 Franklin County PUD #1	4,960	845	2,096
1036	2008 Grant County PUD #2	40,063	845	16,932
1037	2008 Grays Harbor PUD #1	10,385	845	4,389
1038	2008 Highland Energy LLC	14,297	845	6,042
1039	2008 Hinson Power Company	2,000	845	845
1040	2008 Iberdrola Renewables (PPM Energy)	448,401	845	189,513
1041	2008 Idaho Power Company	55,219	845	23,338
1042	2008 Integrys Energy Services, Inc	2,400	845	1,014
1043	2008 J. Aron & Company	36,400	845	15,384
1044	2008 JP Morgan Ventures Energy	96,579	845	40,818
1045	2008 Lehman Bros Commodity Services	14,444	845	6,105
1046	2008 Los Angeles Dept. Water & Power	480	845	203
1047	2008 Louis Dreyfus Energy	285	845	120
1048	2008 Modesto Irrigation District	430	845	182
1049	2008 Morgan Stanley CG	1,248,783	845	527,787
1050	2008 N. California Power Agency	439	845	186
1051	2008 NorthPoint Energy Solutions, Inc.	8,475	845	3,582
1052	2008 Northwestern Energy	27,923	845	11,801
1053	2008 Occidental Power Services	200	845	85
1054	2008 Okanogan PUD	3,660	845	1,547
1055	2008 Pacific Northwest Generatin Coop.	156,918	845	66,320
1056	2008 Pacific Summit Energy LLC	82,391	845	34,822
1057	2008 Pacificorp	290,962	845	122,972
1058	2008 PG&E Energy Trading	506	845	214
1059	2008 Portland General Electric	106,316	845	44,934
1060	2008 Powerex Corp.	352,187	845	148,849
1061	2008 Public Service of Colorado	9,806	845	4,144
1062	2008 Rainbow Energy Marketing	82,452	845	34,848
1063	2008 Redding, City of	1,284	845	543
1064	2008 Sacramento Municipal	2,095	845	885
1065	2008 San Diego Gas & Electric	1,032	845	436
1066	2008 Seattle City Light Marketing	113,723	845	48,064
1067	2008 Sempra Energy Trading	894,356	845	377,992
1068	2008 Shell Energy (Coral Pwr)	940,286	845	397,403
1069	2008 Sierra Pacific Power	7,828	845	3,308
1070	2008 Silicon Valley Pwr - Santa Clara	1,820	845	769
1071	2008 Snohomish County PUD #1	76,572	845	32,362
1072	2008 Southern Cal - Edison	6,100	845	2,578
1073	2008 SUEZ Energy Marketing (Tractebel)	24,295	845	10,268
1074	2008 Tacoma Power	100,697	845	42,559
1075	2008 Talen Energy (PPL Energy Plus)	103,775	845	43,860
1076	2008 Tenaska	114,114	845	48,229
1077	2008 The Energy Authority	54,630	845	23,089
1078	2008 TransAlta Energy Marketing	583,432	845	246,582
1079	2008 TransCanada Energy Marketing	11,288	845	4,771
1080	2008 TransCanada Power Corp.	5,120	845	2,164
1081	2008 Turlock Irrigation District	6,176	845	2,610
1082	2008 UBS AG	32,800	845	13,863

1083	2008 Western Area Power Association	796	845	336
1085	2008 Black Creek Hydro	4,649	845	1,965
1086	2008 BPA	97,704	845	41,294
1087	2008 Constellation Power Source, Inc.	70,000	845	29,585
1088	2008 Deviation	(28,008)	845	(11,837)
1089	2008 Pacific Gas & Elec - Exchange	413,116	845	174,600
1090	2008 Powerex - Exchange	25,607	845	10,823
1091	2008 Seattle City Light Marketing	18,800	845	7,946
1092	2008 TransAlta Energy Marketing	1,099,250	845	464,588
1094	2008 Black Creek Hydro	(4,708)	845	(1,990)
1095	2008 BPA	(99,125)	845	(41,894)
1096	2008 Constellation Power Source, Inc.	(70,000)	845	(29,585)
1097	2008 Pacific Gas & Elec - Exchange	(413,016)	845	(174,558)
1098	2008 Powerex - Exchange	(25,607)	845	(10,823)
1099	2008 Seattle City Light Marketing	(18,800)	845	(7,946)
1100	2008 TransAlta Energy Marketing	(1,099,250)	845	(464,588)
1154	2008 Arizona Public Service	(15)	845	(6)
1155	2008 Avista Corp. WWP Division	(41,915)	845	(17,715)
1156	2008 Barclays Bank Plc	(32,027)	845	(13,536)
1157	2008 Bear Energy LP	(43,931)	845	(18,567)
1158	2008 Benton County PUD	(1,335)	845	(564)
1159	2008 Black Hills Power	(2,123)	845	(897)
1160	2008 Book Outs - EITF 03-11	1,458,513	845	616,427
1161	2008 BP Energy Co.	(28,512)	845	(12,050)
1162	2008 BPA	(138,425)	845	(58,504)
1163	2008 British Columbia Transmission Corp	(23)	845	(10)
1164	2008 Burbank, City of	(1,085)	845	(459)
1165	2008 Cargill Power Markets	(177,806)	845	(75,148)
1166	2008 Chelan County PUD #1	(7,327)	845	(3,097)
1167	2008 Citigroup Energy Inc	(232,727)	845	(98,360)
1168	2008 Clatskanie PUD	(17,042)	845	(7,203)
1169	2008 Conoco, Inc.	(8,142)	845	(3,441)
1170	2008 Constellation Power Source, Inc.	(86,673)	845	(36,632)
1171	2008 CP Energy Marketing (Epcor)	(7,691)	845	(3,251)
1172	2008 Credit Suisse Energy, LLC	(1,600)	845	(676)
1173	2008 DB Energy Trading LLC	(53,578)	845	(22,644)
1174	2008 Douglas County PUD #1	(461)	845	(195)
1175	2008 ENMAX Energy Marketing, Inc.	(2,690)	845	(1,137)
1176	2008 Eugene Water & Electric	(38,663)	845	(16,341)
1177	2008 Fortis Energy Marketing & Trading	(131,275)	845	(55,482)
1178	2008 Franklin County PUD #1	(690)	845	(292)
1179	2008 Grant County PUD #2	(13,801)	845	(5,833)
1180	2008 Grays Harbor PUD #1	(937)	845	(396)
1181	2008 Highland Energy LLC	(14,406)	845	(6,089)
1182	2008 Hinson Power Company	(10,318)	845	(4,361)
1183	2008 Iberdrola Renewables (PPM Energy)	(97,329)	845	(41,135)
1184	2008 Idaho Power Company	(22,104)	845	(9,342)
1185	2008 Integrys Energy Services, Inc	(3,600)	845	(1,522)
1186	2008 J. Aron & Company	(20,700)	845	(8,749)
1187	2008 JP Morgan Ventures Energy	(98,388)	845	(41,583)
1188	2008 Lehman Bros Commodity Services	(5,520)	845	(2,333)
1189	2008 Louis Dreyfus Energy	(1,113)	845	(470)
1190	2008 Merrill Lynch Commodities	(5,200)	845	(2,198)

1191	2008 Modesto Irrigation District	(180)	845	(76)
1192	2008 Morgan Stanley CG	(491,984)	845	(207,933)
1193	2008 N. California Power Agency	(260)	845	(110)
1194	2008 NorthPoint Energy Solutions, Inc.	(5,792)	845	(2,448)
1195	2008 Northwestern Energy	(13,384)	845	(5,657)
1196	2008 Okanogan PUD	(455)	845	(192)
1197	2008 Pacific Northwest Generatin Coop.	(11,857)	845	(5,011)
1198	2008 Pacific Summit Energy LLC	(80,207)	845	(33,899)
1199	2008 Pacificorp	(122,205)	845	(51,649)
1200	2008 PG&E Energy Trading	(800)	845	(338)
1201	2008 Portland General Electric	(37,229)	845	(15,735)
1202	2008 Powerex Corp.	(317,422)	845	(134,156)
1203	2008 Public Service of Colorado	(15,435)	845	(6,523)
1204	2008 Rainbow Energy Marketing	(74,196)	845	(31,358)
1205	2008 Redding, City of	(1,257)	845	(531)
1206	2008 Sacramento Municipal	(2,305)	845	(974)
1207	2008 San Diego Gas & Electric	(30,998)	845	(13,101)
1208	2008 Seattle City Light Marketing	(51,896)	845	(21,933)
1209	2008 Sempra Energy Trading	(38,348)	845	(16,207)
1210	2008 Shell Energy (Coral Pwr)	(158,471)	845	(66,976)
1211	2008 Sierra Pacific Power	(17,217)	845	(7,277)
1212	2008 Silicon Valley Pwr - Santa Clara	(166)	845	(70)
1213	2008 Snohomish County PUD #1	(22,679)	845	(9,585)
1214	2008 Southern Cal - Edison	(4,250)	845	(1,796)
1215	2008 SUEZ Energy Marketing (Tractebel)	(15,700)	845	(6,635)
1216	2008 Synergy Power Marketing	(2,578)	845	(1,090)
1217	2008 Tacoma Power	(3,208)	845	(1,356)
1218	2008 Talen Energy (PPL Energy Plus)	(22,392)	845	(9,464)
1219	2008 The Energy Authority	(11,297)	845	(4,775)
1220	2008 TransAlta Energy Marketing	(200,683)	845	(84,817)
1221	2008 TransCanada Energy Marketing	(14,678)	845	(6,204)
1222	2008 Turlock Irrigation District	(2,835)	845	(1,198)
1223	2008 UBS AG	(1,600)	845	(676)
1224	2008 Western Area Power Association	(275)	845	(116)
1328	2009 Avista Corp. WWP Division	165,618	819	67,838
1329	2009 Barclays Bank Plc	16,746	819	6,859
1330	2009 Black Hills Power	3,800	819	1,556
1331	2009 Book Outs - EITF 03-11	(3,599,695)	819	(1,474,449)
1332	2009 BP Energy Co.	37,192	819	15,234
1333	2009 BPA	334,870	819	137,164
1334	2009 Burbank, City of	175	819	72
1335	2009 Cargill Power Markets	380,859	819	156,001
1336	2009 Chelan County PUD #1	29,209	819	11,964
1337	2009 Citigroup Energy Inc	338,327	819	138,580
1338	2009 Clatskanie PUD	50,919	819	20,857
1339	2009 Conoco, Inc.	73,722	819	30,197
1340	2009 Constellation Power Source, Inc.	562,741	819	230,501
1341	2009 CP Energy Marketing (Epcor)	28,908	819	11,841
1342	2009 Credit Suisse Energy, LLC	445,000	819	182,274
1343	2009 DB Energy Trading LLC	147,600	819	60,458
1344	2009 Douglas County PUD #1	187,749	819	76,903
1345	2009 Eagle Energy Partners	106,240	819	43,516
1346	2009 EDF Trading NA LLC	31,850	819	13,046

1347	2009 Endure Energy LLC	30,600	819	12,534
1348	2009 ENMAX Energy Marketing, Inc.	2,456	819	1,006
1349	2009 Eugene Water & Electric	89,317	819	36,585
1350	2009 Fortis Energy Marketing & Trading	133,941	819	54,863
1351	2009 Grant County PUD #2	53,441	819	21,890
1352	2009 Hinson Power Company	800	819	328
1353	2009 Iberdrola Renewables (PPM Energy)	882,331	819	361,406
1354	2009 Idaho Falls Power	37,654	819	15,423
1355	2009 Idaho Power Company	92,731	819	37,983
1356	2009 Integrys Energy Services, Inc	1,800	819	737
1357	2009 J. Aron & Company	14,000	819	5,734
1358	2009 JP Morgan Ventures Energy	143,436	819	58,752
1359	2009 Los Angeles Dept. Water & Power	50	819	20
1360	2009 Merrill Lynch Commodities	400	819	164
1361	2009 Modesto Irrigation District	90	819	37
1362	2009 Morgan Stanley CG	992,212	819	406,414
1363	2009 N. California Power Agency	323	819	132
1365	2009 Noble Americas Energy Solutions	3,400	819	1,393
1366	2009 NorthPoint Energy Solutions, Inc.	6,592	819	2,700
1367	2009 Northwestern Energy	7,969	819	3,264
1368	2009 Occidental Power Services	31,600	819	12,943
1369	2009 Okanogan PUD	3,810	819	1,561
1370	2009 Pacific Northwest Generatin Coop.	216,587	819	88,715
1371	2009 Pacific Summit Energy LLC	68,094	819	27,892
1372	2009 Pacificorp	185,612	819	76,027
1373	2009 Portland General Electric	208,659	819	85,468
1374	2009 Powerex Corp.	316,076	819	129,466
1375	2009 Public Service of Colorado	3,600	819	1,475
1376	2009 Rainbow Energy Marketing	222,154	819	90,995
1377	2009 Redding, City of	496	819	203
1378	2009 Sacramento Municipal	6,590	819	2,699
1379	2009 Seattle City Light Marketing	211,502	819	86,632
1380	2009 Semptra Energy Trading	2,267,825	819	928,910
1381	2009 Shell Energy (Coral Pwr)	485,252	819	198,761
1382	2009 Sierra Pacific Power	25	819	10
1383	2009 Snohomish County PUD #1	57,116	819	23,395
1384	2009 Southern Cal - Edison	7,805	819	3,197
1385	2009 Tacoma Power	75,813	819	31,053
1386	2009 Talen Energy (PPL Energy Plus)	407,444	819	166,891
1387	2009 Tenaska	2,895	819	1,186
1388	2009 The Energy Authority	122,625	819	50,228
1389	2009 TransAlta Energy Marketing	278,480	819	114,067
1390	2009 TransCanada Energy Marketing	7,326	819	3,001
1391	2009 TransCanada Energy Sales Ltd	9,898	819	4,054
1392	2009 Turlock Irrigation District	850	819	348
1393	2009 Western Area Power Association	360	819	147
1396	2009 Black Creek Hydro	6,088	819	2,494
1397	2009 BPA	76,504	819	31,336
1398	2009 Deviation	(23,318)	819	(9,551)
1399	2009 Morgan Stanley CG	20,000	819	8,192
1400	2009 Pacific Gas & Elec - Exchange	413,000	819	169,166
1401	2009 Powerex Corp.	38,000	819	15,565
1402	2009 TransAlta Energy Marketing	1,533,600	819	628,169

1404	2009 Black Creek Hydro	(4,172)	819	(1,709)
1405	2009 BPA	(81,545)	819	(33,401)
1406	2009 Deviation	(43,829)	819	(17,952)
1407	2009 Morgan Stanley CG	(17,200)	819	(7,045)
1408	2009 Pacific Gas & Elec - Exchange	(413,000)	819	(169,166)
1409	2009 Powerex Corp.	(68,795)	819	(28,179)
1410	2009 TransAlta Energy Marketing	(1,533,600)	819	(628,169)
1461	2009 Avista Corp. WWP Division	(39,571)	819	(16,208)
1462	2009 Barclays Bank Plc	(33,513)	819	(13,727)
1463	2009 Black Hills Power	(1,600)	819	(655)
1464	2009 Book Outs - EITF 03-11	3,599,695	819	1,474,449
1465	2009 BP Energy Co.	(152,945)	819	(62,647)
1466	2009 BPA	(254,156)	819	(104,103)
1467	2009 British Columbia Transmission Corp	(35)	819	(14)
1468	2009 Cargill Power Markets	(240,421)	819	(98,477)
1469	2009 Chelan County PUD #1	(3,890)	819	(1,593)
1470	2009 Citigroup Energy Inc	(635,716)	819	(260,392)
1471	2009 Clatskanie PUD	(15,633)	819	(6,403)
1472	2009 Conoco, Inc.	(111,736)	819	(45,768)
1473	2009 Constellation Power Source, Inc.	(61,701)	819	(25,273)
1474	2009 CP Energy Marketing (Epcor)	(605)	819	(248)
1475	2009 Credit Suisse Energy, LLC	(8,444)	819	(3,459)
1476	2009 DB Energy Trading LLC	(182,400)	819	(74,712)
1477	2009 Douglas County PUD #1	(450)	819	(184)
1478	2009 Eagle Energy Partners	(10,242)	819	(4,195)
1479	2009 ENMAX Energy Marketing, Inc.	(6,394)	819	(2,619)
1480	2009 Eugene Water & Electric	(19,889)	819	(8,147)
1481	2009 Fortis Energy Marketing & Trading	(110,920)	819	(45,433)
1482	2009 Grant County PUD #2	(22,571)	819	(9,245)
1483	2009 Hinson Power Company	(3,950)	819	(1,618)
1484	2009 Iberdrola Renewables (PPM Energy)	(485,458)	819	(198,846)
1485	2009 Idaho Power Company	(31,952)	819	(13,088)
1486	2009 Integrys Energy Services, Inc	(4,800)	819	(1,966)
1487	2009 J. Aron & Company	(43,800)	819	(17,941)
1488	2009 JP Morgan Ventures Energy	(162,587)	819	(66,596)
1489	2009 Los Angeles Dept. Water & Power	(400)	819	(164)
1490	2009 Modesto Irrigation District	(2,329)	819	(954)
1491	2009 Morgan Stanley CG	(660,584)	819	(270,578)
1492	2009 N. California Power Agency	(558)	819	(229)
1493	2009 Natur Ener USA	(9)	819	(4)
1494	2009 NorthPoint Energy Solutions, Inc.	(40,364)	819	(16,533)
1495	2009 Northwestern Energy	(22,137)	819	(9,067)
1496	2009 Occidental Power Services	(33,200)	819	(13,599)
1497	2009 Okanogan PUD	(180)	819	(74)
1498	2009 Pacific Northwest Generatin Coop.	(15,026)	819	(6,155)
1499	2009 Pacific Summit Energy LLC	(141,740)	819	(58,057)
1500	2009 Pacificorp	(175,631)	819	(71,939)
1501	2009 PG&E Energy Trading	(1,400)	819	(573)
1502	2009 Portland General Electric	(88,446)	819	(36,228)
1503	2009 Powerex Corp.	(547,840)	819	(224,397)
1504	2009 Public Service of Colorado	(6,800)	819	(2,785)
1505	2009 Rainbow Energy Marketing	(57,994)	819	(23,755)
1506	2009 Redding, City of	(441)	819	(181)

1507	2009 Sacramento Municipal	(11,919)	819	(4,882)
1508	2009 San Diego Gas & Electric	(1,032)	819	(423)
1509	2009 Seattle City Light Marketing	(33,841)	819	(13,861)
1510	2009 Sempra Energy Trading	(272,319)	819	(111,543)
1511	2009 Shell Energy (Coral Pwr)	(446,690)	819	(182,966)
1512	2009 Sierra Pacific Power	(3,532)	819	(1,447)
1513	2009 Silicon Valley Pwr - Santa Clara	(35)	819	(14)
1514	2009 Snohomish County PUD #1	(10,967)	819	(4,492)
1515	2009 Southern Cal - Edison	(502,250)	819	(205,724)
1516	2009 Tacoma Power	(2,294)	819	(940)
1517	2009 Talen Energy (PPL Energy Plus)	(71,305)	819	(29,207)
1518	2009 The Energy Authority	(14,698)	819	(6,020)
1519	2009 TransAlta Energy Marketing	(297,158)	819	(121,717)
1520	2009 TransCanada Energy Marketing	(4,687)	819	(1,920)
1521	2009 TransCanada Energy Sales Ltd	(10,850)	819	(4,444)
1522	2009 Turlock Irrigation District	(3,013)	819	(1,234)
1523	2009 Western Area Power Association	(80)	819	(33)
1638	2010 Avista Corp. WWP Division	165,695	843	69,805
1640	2010 Barclays Bank Plc	138,700	843	58,433
1641	2010 Black Hills Power	1,224	843	516
1642	2010 BNP Paribas Energy Trading	15,600	843	6,572
1643	2010 Book Outs - EITF 03-11	(3,094,185)	843	(1,303,548)
1644	2010 BP Energy Co.	78,616	843	33,120
1645	2010 BPA	206,160	843	86,853
1648	2010 Burbank, City of	59,686	843	25,145
1649	2010 Cargill Power Markets	183,821	843	77,442
1650	2010 Chelan County PUD #1	15,633	843	6,586
1652	2010 Citigroup Energy Inc	775,756	843	326,818
1653	2010 Clatskanie PUD	25,594	843	10,782
1654	2010 Conoco, Inc.	82,208	843	34,633
1656	2010 Constellation Power Source, Inc.	95,234	843	40,121
1657	2010 CP Energy Marketing (Epcor)	10,876	843	4,582
1658	2010 DB Energy Trading LLC	117,600	843	49,544
1660	2010 Douglas County PUD #1	184,451	843	77,707
1661	2010 Eagle Energy Partners	31	843	13
1662	2010 EDF Trading NA LLC	320,131	843	134,868
1663	2010 Endure Energy LLC	17,600	843	7,415
1664	2010 ENMAX Energy Marketing, Inc.	430	843	181
1665	2010 Eugene Water & Electric	63,929	843	26,933
1666	2010 Fortis Energy Marketing & Trading	4,000	843	1,685
1667	2010 Grant County PUD #2	20,495	843	8,634
1668	2010 Iberdrola Renewables (PPM Energy)	682,132	843	287,375
1669	2010 Idaho Power Company	17,382	843	7,323
1670	2010 J. Aron & Company	32,200	843	13,566
1672	2010 JP Morgan Ventures Energy	136,924	843	57,685
1674	2010 Merrill Lynch Commodities	55,600	843	23,424
1675	2010 Modesto Irrigation District	45	843	19
1676	2010 Morgan Stanley CG	1,135,590	843	478,412
1678	2010 NextEra Energy Power Marketing	20,186	843	8,504
1679	2010 Noble Americas Energy Solutions	24,200	843	10,195
1680	2010 NorthPoint Energy Solutions, Inc.	4,037	843	1,701
1681	2010 Northwestern Energy	2,854	843	1,202
1682	2010 Occidental Power Services	30,400	843	12,807

1683	2010 Okanogan PUD	2,374	843	1,000
1684	2010 Pacific Northwest Generatin Coop.	87,811	843	36,994
1685	2010 Pacific Summit Energy LLC	46,767	843	19,702
1686	2010 Pacificorp	80,243	843	33,806
1687	2010 Portland General Electric	292,936	843	123,411
1688	2010 Powerex Corp.	300,036	843	126,402
1689	2010 Public Service of Colorado	6,500	843	2,738
1690	2010 Rainbow Energy Marketing	98,150	843	41,350
1691	2010 Redding, City of	173	843	73
1693	2010 Sacramento Municipal	5,475	843	2,307
1694	2010 San Diego Gas & Electric	684	843	288
1695	2010 Seattle City Light Marketing	249,821	843	105,247
1696	2010 Sempra Energy Trading	995,085	843	419,219
1697	2010 Shell Energy (Coral Pwr)	355,579	843	149,802
1699	2010 Sierra Pacific Power	1,600	843	674
1700	2010 Snohomish County PUD #1	45,702	843	19,254
1701	2010 Southern Cal - Edison	13,647	843	5,749
1702	2010 Tacoma Power	47,836	843	20,153
1703	2010 Talen Energy (PPL Energy Plus)	147,357	843	62,080
1704	2010 Tenaska	1,038	843	437
1705	2010 The Energy Authority	78,028	843	32,872
1706	2010 TransAlta Energy Marketing	1,107,783	843	466,698
1707	2010 TransCanada Energy Sales Ltd	8,791	843	3,704
1708	2010 Turlock Irrigation District	52,383	843	22,068
1709	2010 Western Area Power Association	20	843	8
1711	2010 Black Creek Hydro	11,424	843	4,813
1712	2010 BPA	65,580	843	27,628
1713	2010 Pacific Gas & Elec - Exchange	412,908	843	173,954
1714	2010 TransAlta Energy Marketing	1,533,400	843	646,006
1716	2010 Black Creek Hydro	(10,438)	843	(4,397)
1717	2010 BPA	(57,475)	843	(24,214)
1718	2010 Deviation	20,831	843	8,776
1719	2010 Pacific Gas & Elec - Exchange	(413,000)	843	(173,993)
1720	2010 TransAlta Energy Marketing	(1,536,249)	843	(647,206)
1775	2010 Avista Corp. WWP Division	(27,014)	843	(11,381)
1776	2010 Barclays Bank Plc	(40,109)	843	(16,898)
1777	2010 Black Hills Power	(2,465)	843	(1,038)
1778	2010 BNP Paribas Energy Trading	(29,925)	843	(12,607)
1779	2010 Book Outs - EITF 03-11	3,847,988	843	1,621,118
1780	2010 BP Energy Co.	(259,544)	843	(109,343)
1781	2010 BPA	(159,865)	843	(67,349)
1782	2010 British Columbia Transmission Corp	(49)	843	(21)
1783	2010 Burbank, City of	(530)	843	(223)
1785	2010 Cargill Power Markets	(261,663)	843	(110,236)
1786	2010 Chelan County PUD #1	(5,161)	843	(2,174)
1787	2010 Citigroup Energy Inc	(767,741)	843	(323,441)
1788	2010 Clatskanie PUD	(10,025)	843	(4,223)
1789	2010 Conoco, Inc.	(111,624)	843	(47,026)
1790	2010 Constellation Power Source, Inc.	(42,662)	843	(17,973)
1791	2010 CP Energy Marketing (Epcor)	(54,095)	843	(22,790)
1792	2010 DB Energy Trading LLC	(150,800)	843	(63,530)
1793	2010 Douglas County PUD #1	(1,065)	843	(449)
1794	2010 Eagle Energy Partners	(831)	843	(350)

1795	2010 EDF Trading NA LLC	(58,348)	843	(24,581)
1796	2010 Endure Energy LLC	(1,200)	843	(506)
1797	2010 ENMAX Energy Marketing, Inc.	(1,808)	843	(762)
1798	2010 Eugene Water & Electric	(14,553)	843	(6,131)
1799	2010 Fortis Energy Marketing & Trading	(12,000)	843	(5,055)
1800	2010 Grant County PUD #2	(45,909)	843	(19,341)
1801	2010 Iberdrola Renewables (PPM Energy)	(442,218)	843	(186,302)
1802	2010 Idaho Power Company	(60,759)	843	(25,597)
1803	2010 J. Aron & Company	(800)	843	(337)
1804	2010 JP Morgan Ventures Energy	(92,601)	843	(39,012)
1805	2010 Merrill Lynch Commodities	(75,385)	843	(31,759)
1806	2010 Modesto Irrigation District	(10)	843	(4)
1807	2010 Morgan Stanley CG	(454,431)	843	(191,447)
1808	2010 N. California Power Agency	(356)	843	(150)
1809	2010 Natur Ener USA	(2)	843	(1)
1810	2010 NextEra Energy Power Marketing	(294)	843	(124)
1811	2010 NorthPoint Energy Solutions, Inc.	(10,173)	843	(4,286)
1812	2010 Northwestern Energy	(48,784)	843	(20,552)
1813	2010 Okanogan PUD	(175)	843	(74)
1814	2010 Pacific Northwest Generatin Coop.	(4,755)	843	(2,003)
1815	2010 Pacific Summit Energy LLC	(111,596)	843	(47,014)
1816	2010 Pacificorp	(167,918)	843	(70,742)
1817	2010 Portland General Electric	(68,889)	843	(29,022)
1818	2010 Powerex Corp.	(330,673)	843	(139,309)
1819	2010 Public Service of Colorado	(4,400)	843	(1,854)
1820	2010 Rainbow Energy Marketing	(46,883)	843	(19,751)
1821	2010 Redding, City of	(463)	843	(195)
1822	2010 Sacramento Municipal	(4,178)	843	(1,760)
1823	2010 San Diego Gas & Electric	(10,399)	843	(4,381)
1824	2010 Seattle City Light Marketing	(24,056)	843	(10,135)
1825	2010 Sempra Energy Trading	(112,120)	843	(47,235)
1826	2010 Shell Energy (Coral Pwr)	(449,454)	843	(189,350)
1827	2010 Sierra Pacific Power	(2,937)	843	(1,237)
1828	2010 Snohomish County PUD #1	(6,352)	843	(2,676)
1829	2010 Southern Cal - Edison	(1,236,986)	843	(521,129)
1830	2010 Tacoma Power	(2,132)	843	(898)
1831	2010 Talen Energy (PPL Energy Plus)	(176,278)	843	(74,264)
1832	2010 The Energy Authority	(8,119)	843	(3,420)
1833	2010 TransAlta Energy Marketing	(318,081)	843	(134,004)
1834	2010 TransCanada Energy Sales Ltd	(9,650)	843	(4,065)
1835	2010 Turlock Irrigation District	(5,147)	843	(2,168)
1953	2011 Avista Corp. WWP Division	117,376	845	49,608
1955	2011 Barclays Bank Plc	27,750	845	11,728
1956	2011 Black Hills Power	3,515	845	1,486
1957	2011 BNP Paribas Energy Trading	119,000	845	50,294
1958	2011 Book Outs - EITF 03-11	(3,113,284)	845	(1,315,802)
1959	2011 BP Energy Co.	345,552	845	146,044
1960	2011 BPA	382,105	845	161,493
1961	2011 British Columbia Transmission Corp	9	845	4
1963	2011 Burbank, City of	2,000	845	845
1964	2011 Cargill Power Markets	318,865	845	134,765
1965	2011 Chelan County PUD #1	8,620	845	3,643
1967	2011 Citigroup Energy Inc	1,028,188	845	434,554

1968	2011 Clark Public Utilities	8,570	845	3,622
1969	2011 Clatskanie PUD	15,878	845	6,711
1971	2011 Constellation Power Source, Inc.	298,689	845	126,238
1972	2011 CP Energy Marketing (Epcor)	5,848	845	2,472
1973	2011 DB Energy Trading LLC	197,398	845	83,428
1975	2011 Douglas County PUD #1	277,494	845	117,280
1977	2011 EDF Trading NA LLC	585,729	845	247,553
1978	2011 Eugene Water & Electric	63,900	845	27,007
1979	2011 Exelon Generation Co LLC	10,000	845	4,226
1980	2011 Grant County PUD #2	57,335	845	24,232
1981	2011 Hinson Power Company	20,800	845	8,791
1982	2011 Iberdrola Renewables (PPM Energy)	587,403	845	248,261
1983	2011 Idaho Power Company	73,320	845	30,988
1984	2011 J. Aron & Company	400	845	169
1987	2011 JP Morgan Ventures Energy	1,148,676	845	485,478
1990	2011 Merrill Lynch Commodities	350,800	845	148,262
1991	2011 Morgan Stanley CG	1,335,550	845	564,458
1993	2011 NextEra Energy Power Marketing	30,168	845	12,750
1994	2011 Noble Americas Energy Solutions	10,800	845	4,565
1995	2011 Noble Americas Gas & Power	3,200	845	1,352
1997	2011 NorthPoint Energy Solutions, Inc.	430	845	182
1998	2011 Northwestern Energy	6,224	845	2,631
1999	2011 Okanogan PUD	4,945	845	2,090
2000	2011 Pacific Northwest Generatin Coop.	337,472	845	142,630
2001	2011 Pacific Summit Energy LLC	1,952	845	825
2002	2011 Pacificorp	78,506	845	33,180
2003	2011 PG&E Energy Trading	104,400	845	44,124
2004	2011 Portland General Electric	41,895	845	17,707
2005	2011 Powerex Corp.	168,076	845	71,036
2006	2011 Public Service of Colorado	800	845	338
2007	2011 Rainbow Energy Marketing	48,216	845	20,378
2009	2011 Sacramento Municipal	5,763	845	2,436
2010	2011 San Diego Gas & Electric	556	845	235
2011	2011 Seattle City Light Marketing	251,794	845	106,418
2012	2011 Sempra Energy Trading	77,538	845	32,771
2013	2011 Shell Energy (Coral Pwr)	484,678	845	204,845
2015	2011 Sierra Pacific Power	125	845	53
2016	2011 Snohomish County PUD #1	43,003	845	18,175
2017	2011 Southern Cal - Edison	14,057	845	5,941
2018	2011 Tacoma Power	108,837	845	45,999
2019	2011 Talen Energy (PPL Energy Plus)	122,522	845	51,783
2020	2011 Tenaska	202	845	85
2021	2011 Tenaska Power Services Co.	400	845	169
2022	2011 The Energy Authority	55,496	845	23,455
2023	2011 TransAlta Energy Marketing	2,238,117	845	945,920
2024	2011 Turlock Irrigation District	37,399	845	15,806
2025	2011 Western Area Power Association	1,669	845	705
2027	2011 Black Creek Hydro	3,049	845	1,289
2028	2011 BPA	45,405	845	19,190
2029	2011 Pacific Gas & Elec - Exchange	413,092	845	174,590
2031	2011 Black Creek Hydro	(6,556)	845	(2,771)
2032	2011 BPA	(46,691)	845	(19,734)
2033	2011 Deviation	34,040	845	14,387

2034	2011 Pacific Gas & Elec - Exchange	(413,000)	845	(174,551)
2091	2011 Avista Corp. WWP Division	(30,733)	845	(12,989)
2092	2011 Barclays Bank Plc	(29,465)	845	(12,453)
2093	2011 Black Hills Power	(2,654)	845	(1,122)
2094	2011 BNP Paribas Energy Trading	(20,616)	845	(8,713)
2095	2011 Book Outs - EITF 03-11	3,622,674	845	1,531,091
2096	2011 BP Energy Co.	(148,410)	845	(62,724)
2097	2011 BPA	(84,760)	845	(35,823)
2098	2011 British Columbia Transmission Corp	(1)	845	(0)
2099	2011 Burbank, City of	(800)	845	(338)
2100	2011 Cargill Power Markets	(141,861)	845	(59,956)
2101	2011 Chelan County PUD #1	(1,600)	845	(676)
2102	2011 Citigroup Energy Inc	(167,241)	845	(70,683)
2103	2011 Clark Public Utilities	(6,320)	845	(2,671)
2104	2011 Clatskanie PUD	(8,952)	845	(3,783)
2105	2011 Conoco, Inc.	(40)	845	(17)
2106	2011 Constellation Power Source, Inc.	(50,578)	845	(21,376)
2107	2011 CP Energy Marketing (Epcor)	(9,659)	845	(4,082)
2108	2011 DB Energy Trading LLC	(73,077)	845	(30,885)
2109	2011 Douglas County PUD #1	(1,531)	845	(647)
2110	2011 EDF Trading NA LLC	(95,429)	845	(40,332)
2111	2011 ENMAX Energy Marketing, Inc.	567	845	240
2112	2011 Eugene Water & Electric	(33,425)	845	(14,127)
2113	2011 Exelon Generation Co LLC	(15,200)	845	(6,424)
2114	2011 Grant County PUD #2	(27,856)	845	(11,773)
2115	2011 Iberdrola Renewables (PPM Energy)	(428,020)	845	(180,899)
2116	2011 Idaho Power Company	(24,625)	845	(10,408)
2117	2011 J. Aron & Company	(21,600)	845	(9,129)
2118	2011 JP Morgan Ventures Energy	(47,261)	845	(19,974)
2119	2011 Los Angeles Dept. Water & Power	(1,150)	845	(486)
2120	2011 Merrill Lynch Commodities	(18,800)	845	(7,946)
2121	2011 Morgan Stanley CG	(586,129)	845	(247,722)
2122	2011 N. California Power Agency	(482)	845	(204)
2123	2011 Natur Ener USA	(30)	845	(13)
2124	2011 NextEra Energy Power Marketing	(9,250)	845	(3,909)
2125	2011 Noble Americas Energy Solutions	(800)	845	(338)
2126	2011 Noble Americas Gas & Power	(3,388)	845	(1,432)
2127	2011 NorthPoint Energy Solutions, Inc.	(7,683)	845	(3,247)
2128	2011 Northwestern Energy	(56,370)	845	(23,824)
2129	2011 Okanogan PUD	(855)	845	(361)
2130	2011 Pacific Northwest Generatin Coop.	(1,655)	845	(699)
2131	2011 Pacific Summit Energy LLC	(57,339)	845	(24,234)
2132	2011 Pacificorp	(246,935)	845	(104,365)
2133	2011 PG&E Energy Trading	(790,398)	845	(334,055)
2134	2011 Portland General Electric	(251,716)	845	(106,386)
2135	2011 Powerex Corp.	(294,366)	845	(124,411)
2136	2011 Public Service of Colorado	(1,600)	845	(676)
2137	2011 Rainbow Energy Marketing	(69,776)	845	(29,490)
2138	2011 Redding, City of	(69)	845	(29)
2139	2011 Sacramento Municipal	(28,531)	845	(12,058)
2140	2011 San Diego Gas & Electric	(22,412)	845	(9,472)
2141	2011 Seattle City Light Marketing	(23,444)	845	(9,908)
2142	2011 Shell Energy (Coral Pwr)	(457,267)	845	(193,260)

2143	2011 Sierra Pacific Power	(14,123)	845	(5,969)
2144	2011 Snohomish County PUD #1	(9,938)	845	(4,200)
2145	2011 Southern Cal - Edison	(526,126)	845	(222,362)
2146	2011 Tacoma Power	(19,779)	845	(8,359)
2147	2011 Talen Energy (PPL Energy Plus)	(185,885)	845	(78,563)
2148	2011 Tenaska Power Services Co.	(3,600)	845	(1,522)
2149	2011 The Energy Authority	(19,100)	845	(8,072)
2150	2011 TransAlta Energy Marketing	(212,919)	845	(89,988)
2151	2011 TransCanada Energy Sales Ltd	(14,806)	845	(6,258)
2152	2011 Turlock Irrigation District	(24,869)	845	(10,511)
2153	2011 Western Area Power Association	(1,265)	845	(535)
2219	2012 Deferral Offsets	(52)	666	(17)
2229	2012 Deferral Offsets	(102)	666	(34)
2295	2012 Avista Corp. WWP Division	126,962	666	42,263
2297	2012 Barclays Bank Plc	22,000	666	7,323
2298	2012 Black Hills Power	1,600	666	533
2299	2012 Book Outs - EITF 03-11	(2,428,057)	666	(808,245)
2300	2012 BP Energy Co.	1,236,010	666	411,440
2301	2012 BPA	384,113	666	127,862
2303	2012 Brookfield Energy Marketing	1,200	666	399
2305	2012 Calpine Energy Services	467,588	666	155,649
2306	2012 Cargill Power Markets	252,059	666	83,905
2307	2012 Chelan County PUD #1	124,383	666	41,404
2309	2012 Citigroup Energy Inc	1,014,046	666	337,553
2310	2012 Clark Public Utilities	26,743	666	8,902
2311	2012 Clatskanie PUD	11,019	666	3,668
2313	2012 Constellation Power Source, Inc.	65,386	666	21,766
2314	2012 CP Energy Marketing (Epcor)	1,133	666	377
2315	2012 DB Energy Trading LLC	502,043	666	167,119
2317	2012 Douglas County PUD #1	336,342	666	111,961
2319	2012 EDF Trading NA LLC	222,630	666	74,108
2320	2012 ENMAX Energy Marketing, Inc.	75	666	25
2321	2012 Eugene Water & Electric	42,962	666	14,301
2322	2012 Grant County PUD #2	36,506	666	12,152
2323	2012 Iberdrola Renewables (PPM Energy)	561,582	666	186,938
2324	2012 Idaho Falls Power	25	666	8
2325	2012 Idaho Power Company	10,082	666	3,356
2326	2012 J. Aron & Company	2,400	666	799
2329	2012 JP Morgan Ventures Energy	1,278,611	666	425,620
2331	2012 Merrill Lynch Commodities	269,356	666	89,662
2332	2012 Morgan Stanley CG	1,078,306	666	358,943
2334	2012 Natur Ener USA	448	666	149
2335	2012 NextEra Energy Power Marketing	113,935	666	37,926
2336	2012 Noble Americas Energy Solutions	800	666	266
2337	2012 Noble Americas Gas & Power	800	666	266
2339	2012 NorthPoint Energy Solutions, Inc.	4	666	1
2340	2012 Northwestern Energy	3,418	666	1,138
2341	2012 Okanogan PUD	1,487	666	495
2342	2012 Pacific Summit Energy LLC	1,179	666	392
2343	2012 PacifiCorp	76,562	666	25,486
2344	2012 PG&E Energy Trading	70,000	666	23,301
2345	2012 Portland General Electric	24,419	666	8,129
2346	2012 Powerex Corp.	231,003	666	76,896

2347	2012 Rainbow Energy Marketing	23,628	666	7,865
2349	2012 Sacramento Municipal	3,654	666	1,216
2350	2012 San Diego Gas & Electric	451	666	150
2351	2012 Seattle City Light Marketing	246,052	666	81,905
2352	2012 Shell Energy (Coral Pwr)	182,238	666	60,663
2354	2012 Snohomish County PUD #1	176,041	666	58,600
2355	2012 Southern Cal - Edison	62,658	666	20,857
2357	2012 Tacoma Power	200,033	666	66,586
2358	2012 Talen Energy (PPL Energy Plus)	109,330	666	36,393
2360	2012 Tenaska Power Services Co.	32,812	666	10,922
2361	2012 The Energy Authority	457,673	666	152,349
2362	2012 TransAlta Energy Marketing	1,404,952	666	467,676
2363	2012 TransCanada Energy Marketing	200	666	67
2364	2012 TransCanada Energy Sales Ltd	(200)	666	(67)
2365	2012 Tri-State Generation and Transmissi	124	666	41
2366	2012 Turlock Irrigation District	3,343	666	1,113
2368	2012 BPA	35,599	666	11,850
2369	2012 Pacific Gas & Elec - Exchange	413,000	666	137,478
2372	2012 BPA	(35,375)	666	(11,776)
2373	2012 Deviation	42,717	666	14,219
2374	2012 Pacific Gas & Elec - Exchange	(412,995)	666	(137,477)
2431	2012 Avista Corp. WWP Division	(37,126)	666	(12,358)
2432	2012 Barclays Bank Plc	(2,400)	666	(799)
2433	2012 Black Hills Power	(18,302)	666	(6,092)
2434	2012 Book Outs - EITF 03-11	2,877,267	666	957,777
2435	2012 BP Energy Co.	(97,731)	666	(32,532)
2436	2012 BPA	(147,151)	666	(48,983)
2437	2012 British Columbia Transmission Corp	(57)	666	(19)
2438	2012 Brookfield Energy Marketing	(2,000)	666	(666)
2439	2012 Calpine Energy Services	(142,467)	666	(47,424)
2440	2012 Cargill Power Markets	(311,820)	666	(103,798)
2441	2012 Chelan County PUD #1	(6,435)	666	(2,142)
2442	2012 Citigroup Energy Inc	(93,176)	666	(31,016)
2443	2012 Clark Public Utilities	(13,840)	666	(4,607)
2444	2012 Clatskanie PUD	(5,387)	666	(1,793)
2445	2012 Constellation Power Source, Inc.	(22,185)	666	(7,385)
2446	2012 CP Energy Marketing (Epcor)	(1,299)	666	(432)
2447	2012 DB Energy Trading LLC	(242,964)	666	(80,877)
2448	2012 Douglas County PUD #1	(1,410)	666	(469)
2449	2012 EDF Trading NA LLC	(34,355)	666	(11,436)
2450	2012 ENMAX Energy Marketing, Inc.	(225)	666	(75)
2451	2012 Eugene Water & Electric	(17,869)	666	(5,948)
2452	2012 Exelon Generation Co LLC	(2,800)	666	(932)
2453	2012 Fortis BC	(56,236)	666	(18,720)
2454	2012 Grant County PUD #2	(11,925)	666	(3,970)
2455	2012 Iberdrola Renewables (PPM Energy)	(541,878)	666	(180,379)
2456	2012 Idaho Power Company	(25,835)	666	(8,600)
2457	2012 J. Aron & Company	(2,800)	666	(932)
2458	2012 JP Morgan Ventures Energy	(52,134)	666	(17,354)
2459	2012 Morgan Stanley CG	(310,918)	666	(103,498)
2460	2012 Natur Ener USA	(6)	666	(2)
2461	2012 NextEra Energy Power Marketing	(2,739)	666	(912)
2462	2012 Noble Americas Energy Solutions	(2,800)	666	(932)

2463	2012 Noble Americas Gas & Power	(7,600)	666	(2,530)
2464	2012 NorthPoint Energy Solutions, Inc.	(8,404)	666	(2,797)
2465	2012 Northwestern Energy	(84,493)	666	(28,126)
2466	2012 Okanogan PUD	(470)	666	(156)
2467	2012 Pacific Summit Energy LLC	(430)	666	(143)
2468	2012 Pacificorp	(116,892)	666	(38,911)
2469	2012 PG&E Energy Trading	(216,530)	666	(72,078)
2470	2012 Portland General Electric	(72,993)	666	(24,298)
2471	2012 Powerex Corp.	(406,530)	666	(135,325)
2472	2012 Rainbow Energy Marketing	(58,846)	666	(19,588)
2473	2012 Sacramento Municipal	(10,011)	666	(3,332)
2474	2012 San Diego Gas & Electric	(29,918)	666	(9,959)
2475	2012 Seattle City Light Marketing	(46,589)	666	(15,508)
2476	2012 Shell Energy (Coral Pwr)	(299,293)	666	(99,628)
2477	2012 Sierra Pacific Power	(1,542)	666	(513)
2478	2012 Snohomish County PUD #1	(9,531)	666	(3,173)
2479	2012 Southern Cal - Edison	(20,000)	666	(6,658)
2480	2012 Tacoma Power	(19,628)	666	(6,534)
2481	2012 Talen Energy (PPL Energy Plus)	(67,867)	666	(22,591)
2482	2012 Tenaska Power Services Co.	(36,412)	666	(12,121)
2483	2012 The Energy Authority	(34,934)	666	(11,629)
2484	2012 TransAlta Energy Marketing	(443,951)	666	(147,781)
2486	2012 TransCanada Energy Sales Ltd	(49,555)	666	(16,496)
2487	2012 Tri-State Generation and Transmissi	(12,499)	666	(4,161)
2488	2012 Turlock Irrigation District	(3,606)	666	(1,200)
2489	2012 Western Area Power Association	(407)	666	(135)
2606	2013 Avista Corp. WWP Division	231,202	1,132	130,875
2608	2013 Black Hills Power	4,600	1,132	2,604
2609	2013 Book Outs - EITF 03-11	(3,157,200)	1,132	(1,787,173)
2610	2013 BP Energy Co.	1,103,049	1,132	624,395
2611	2013 BPA	417,735	1,132	236,464
2613	2013 Brookfield Energy Marketing	800	1,132	453
2614	2013 Burbank, City of	200	1,132	113
2615	2013 California ISO	34,629	1,132	19,602
2616	2013 Calpine Energy Services	82,375	1,132	46,629
2617	2013 Cargill Power Markets	475,057	1,132	268,912
2618	2013 Chelan County PUD #1	15,616	1,132	8,840
2620	2013 Citigroup Energy Inc	209,900	1,132	118,817
2621	2013 Clark Public Utilities	16,000	1,132	9,057
2622	2013 Clatskanie PUD	2,268	1,132	1,284
2623	2013 Constellation Power Source, Inc.	12,317	1,132	6,972
2624	2013 CP Energy Marketing (Epcor)	5,815	1,132	3,292
2625	2013 DB Energy Trading LLC	433,233	1,132	245,237
2627	2013 Douglas County PUD #1	305,577	1,132	172,976
2629	2013 EDF Trading NA LLC	163,552	1,132	92,581
2630	2013 Eugene Water & Electric	14,487	1,132	8,201
2632	2013 Exelon Generation Co LLC	60,279	1,132	34,122
2635	2013 Grant County PUD #2	27,401	1,132	15,511
2636	2013 Iberdrola Renewables (PPM Energy)	862,192	1,132	488,055
2637	2013 Idaho Power Company	8,565	1,132	4,848
2638	2013 J. Aron & Company	16,200	1,132	9,170
2641	2013 JP Morgan Ventures Energy	1,017,850	1,132	576,167
2644	2013 Morgan Stanley CG	2,038,800	1,132	1,154,088

2646	2013 Natur Ener USA	2	1,132	1
2647	2013 NextEra Energy Power Marketing	38,830	1,132	21,980
2648	2013 Noble Americas Energy Solutions	8,800	1,132	4,981
2649	2013 Noble Americas Gas & Power	400	1,132	226
2650	2013 Northwestern Energy	26,622	1,132	15,070
2651	2013 Okanogan PUD	26,282	1,132	14,877
2652	2013 Pacificorp	82,864	1,132	46,906
2653	2013 Portland General Electric	43,399	1,132	24,567
2654	2013 Powerex Corp.	176,702	1,132	100,024
2655	2013 Rainbow Energy Marketing	20,918	1,132	11,841
2656	2013 Sacramento Municipal	1,700	1,132	962
2657	2013 San Diego Gas & Electric	76	1,132	43
2658	2013 Seattle City Light Marketing	144,546	1,132	81,822
2660	2013 Shell Energy (Coral Pwr)	611,302	1,132	346,035
2662	2013 Snohomish County PUD #1	49,476	1,132	28,007
2665	2013 Southern Cal - Edison	49,519	1,132	28,031
2666	2013 Tacoma Power	104,948	1,132	59,407
2667	2013 Talen Energy (PPL Energy Plus)	172,219	1,132	97,487
2668	2013 Tenaska Power Services Co.	5,800	1,132	3,283
2669	2013 The Energy Authority	97,683	1,132	55,295
2670	2013 TransAlta Energy Marketing	1,129,071	1,132	639,125
2671	2013 TransCanada Energy Sales Ltd	681	1,132	385
2673	2013 Turlock Irrigation District	60,816	1,132	34,426
2674	2013 Vitol Inc.	262,136	1,132	148,385
2676	2013 Pacific Gas & Elec - Exchange	413,000	1,132	233,784
2678	2013 Deviation	47,849	1,132	27,085
2679	2013 Pacific Gas & Elec - Exchange	(413,000)	1,132	(233,784)
2727	2013 Avista Corp. WWP Division	(45,139)	1,132	(25,551)
2728	2013 Barclays Bank Plc	(35)	1,132	(20)
2729	2013 Black Hills Power	(1,762)	1,132	(997)
2731	2013 Book Outs - EITF 03-11	3,361,355	1,132	1,902,737
2732	2013 BP Energy Co.	(297,433)	1,132	(168,366)
2733	2013 BPA	(165,628)	1,132	(93,756)
2734	2013 British Columbia Transmission Corp	(65)	1,132	(37)
2735	2013 Brookfield Energy Marketing	(800)	1,132	(453)
2736	2013 Burbank, City of	(2,200)	1,132	(1,245)
2737	2013 California ISO	(8,579)	1,132	(4,856)
2738	2013 Calpine Energy Services	(390,795)	1,132	(221,214)
2739	2013 Cargill Power Markets	(158,112)	1,132	(89,501)
2740	2013 Chelan County PUD #1	(25,371)	1,132	(14,362)
2741	2013 Citigroup Energy Inc	(60,746)	1,132	(34,386)
2742	2013 Clark Public Utilities	(18,922)	1,132	(10,711)
2743	2013 Clatskanie PUD	(5,659)	1,132	(3,203)
2744	2013 Constellation Power Source, Inc.	(1)	1,132	(1)
2745	2013 CP Energy Marketing (Epcor)	(1,115)	1,132	(631)
2746	2013 DB Energy Trading LLC	8	1,132	5
2747	2013 Douglas County PUD #1	(3,025)	1,132	(1,712)
2748	2013 EDF Trading NA LLC	(40,695)	1,132	(23,036)
2749	2013 Eugene Water & Electric	(35,479)	1,132	(20,083)
2750	2013 Exelon Generation Co LLC	(34,998)	1,132	(19,811)
2751	2013 Fortis BC	(144,215)	1,132	(81,635)
2753	2013 Grant County PUD #2	(26,969)	1,132	(15,266)
2754	2013 Iberdrola Renewables (PPM Energy)	(646,518)	1,132	(365,970)

2755	2013 Idaho Power Company	(27,009)	1,132	(15,289)
2756	2013 J. Aron & Company	(52,425)	1,132	(29,676)
2757	2013 JP Morgan Ventures Energy	(54,818)	1,132	(31,030)
2758	2013 Morgan Stanley CG	(389,258)	1,132	(220,344)
2759	2013 Natur Ener USA	(9)	1,132	(5)
2760	2013 NextEra Energy Power Marketing	(1,181)	1,132	(669)
2761	2013 Noble Americas Energy Solutions	(5,999)	1,132	(3,396)
2762	2013 Noble Americas Gas & Power	(6,600)	1,132	(3,736)
2763	2013 NorthPoint Energy Solutions, Inc.	(23,745)	1,132	(13,441)
2764	2013 Northwestern Energy	(83,310)	1,132	(47,159)
2765	2013 Okanogan PUD	(2,675)	1,132	(1,514)
2766	2013 Pacificorp	(277,031)	1,132	(156,817)
2767	2013 Portland General Electric	(192,170)	1,132	(108,780)
2768	2013 Powerex Corp.	(403,044)	1,132	(228,148)
2769	2013 Rainbow Energy Marketing	(35,434)	1,132	(20,058)
2770	2013 Sacramento Municipal	(7,107)	1,132	(4,023)
2771	2013 San Diego Gas & Electric	(975)	1,132	(552)
2772	2013 Seattle City Light Marketing	(23,533)	1,132	(13,321)
2773	2013 Shell Energy (Coral Pwr)	(279,421)	1,132	(158,170)
2774	2013 Sierra Pacific Power	(2,095)	1,132	(1,186)
2775	2013 Snohomish County PUD #1	(30,000)	1,132	(16,982)
2776	2013 Southern Cal - Edison	(175)	1,132	(99)
2777	2013 Tacoma Power	(36,049)	1,132	(20,406)
2778	2013 Talen Energy (PPL Energy Plus)	(64,235)	1,132	(36,361)
2779	2013 Tenaska Power Services Co.	(870)	1,132	(492)
2780	2013 The Energy Authority	(43,118)	1,132	(24,407)
2781	2013 TransAlta Energy Marketing	(391,631)	1,132	(221,688)
2782	2013 TransCanada Energy Marketing	(3,692)	1,132	(2,090)
2783	2013 TransCanada Energy Sales Ltd	(27,429)	1,132	(15,527)
2784	2013 Turlock Irrigation District	(3,960)	1,132	(2,242)
2785	2013 Vitol Inc.	(466,011)	1,132	(263,791)
2879	2014 Avista Corp. WWP Division	321,265	696	111,845
2881	2014 Black Hills Power	875	696	305
2882	2014 Book Outs - EITF 03-11	(2,005,870)	696	(698,322)
2883	2014 BP Energy Co.	1,096,755	696	381,823
2884	2014 BPA	169,672	696	59,069
2886	2014 Burbank, City of	200	696	70
2887	2014 California ISO	65,176	696	22,690
2888	2014 Calpine Energy Services	47,482	696	16,530
2889	2014 Cargill Power Markets	609,585	696	212,220
2890	2014 Chelan County PUD #1	4,821	696	1,678
2892	2014 Citigroup Energy Inc	145,653	696	50,707
2893	2014 City of Idaho Falls	10	696	3
2894	2014 Clark Public Utilities	5,396	696	1,879
2895	2014 Clatskanie PUD	2,270	696	790
2896	2014 Constellation Power Source, Inc.	20	696	7
2897	2014 CP Energy Marketing (Epcor)	825	696	287
2899	2014 Douglas County PUD #1	277,023	696	96,443
2901	2014 EDF Trading NA LLC	611,857	696	213,011
2902	2014 ENMAX Energy Marketing, Inc.	100	696	35
2903	2014 Eugene Water & Electric	12,875	696	4,482
2904	2014 Exelon Generation Co LLC	187,630	696	65,321
2905	2014 Grant County PUD #2	12,652	696	4,405

2906	2014 Iberdrola Renewables (PPM Energy)	716,696	696	249,510
2907	2014 Idaho Power Company	12,466	696	4,340
2908	2014 J. Aron & Company	20,400	696	7,102
2910	2014 JP Morgan Ventures Energy	156,705	696	54,555
2913	2014 Morgan Stanley CG	1,790,503	696	623,344
2914	2014 Natur Ener USA	1	696	0
2915	2014 NextEra Energy Power Marketing	56,233	696	19,577
2916	2014 Noble Americas Energy Solutions	4,000	696	1,393
2917	2014 Noble Americas Gas & Power	4,000	696	1,393
2918	2014 NorthPoint Energy Solutions, Inc.	871	696	303
2919	2014 Northwestern Energy	1,948	696	678
2920	2014 Okanogan PUD	7,707	696	2,683
2921	2014 Pacificorp	71,357	696	24,842
2922	2014 Portland General Electric	183,483	696	63,878
2923	2014 Powerex Corp.	100,896	696	35,126
2924	2014 Rainbow Energy Marketing	5,071	696	1,765
2925	2014 Sacramento Municipal	2,075	696	722
2926	2014 Seattle City Light Marketing	69,998	696	24,369
2928	2014 Shell Energy (Coral Pwr)	365,203	696	127,141
2930	2014 Snohomish County PUD #1	20,464	696	7,124
2931	2014 Southern Cal - Edison	47,417	696	16,508
2932	2014 Tacoma Power	151,109	696	52,607
2933	2014 Talen Energy (PPL Energy Plus)	235,629	696	82,032
2934	2014 Tenaska Power Services Co.	4,534	696	1,578
2935	2014 The Energy Authority	51,948	696	18,085
2936	2014 TransAlta Energy Marketing	1,300,789	696	452,855
2937	2014 TransCanada Energy Sales Ltd	2,410	696	839
2938	2014 Turlock Irrigation District	81,172	696	28,259
2939	2014 Vitol Inc.	452,905	696	157,674
2941	2014 Avista Nichols Pump	22,326	696	7,773
2942	2014 Pacific Gas & Elec - Exchange	413,000	696	143,781
2944	2014 Deviation	76,074	696	26,484
2945	2014 Exelon Generation Co LLC	(25)	696	(9)
2946	2014 Pacific Gas & Elec - Exchange	(413,000)	696	(143,781)
2995	2014 Avista Corp. WWP Division	(60,183)	696	(20,952)
2996	2014 Black Hills Power	(390)	696	(136)
2997	2014 Book Outs - EITF 03-11	2,016,042	696	701,863
2998	2014 BP Energy Co.	(51,111)	696	(17,794)
2999	2014 BPA	(159,211)	696	(55,428)
3000	2014 British Columbia Transmission Corp	(49)	696	(17)
3001	2014 Brookfield Energy Marketing	(800)	696	(279)
3002	2014 Burbank, City of	(2,400)	696	(836)
3004	2014 Calpine Energy Services	(117,424)	696	(40,880)
3005	2014 Cargill Power Markets	(190,421)	696	(66,293)
3006	2014 Chelan County PUD #1	(16,609)	696	(5,782)
3007	2014 Citigroup Energy Inc	(26,800)	696	(9,330)
3008	2014 Clark Public Utilities	(9,222)	696	(3,211)
3009	2014 Clatskanie PUD	(4,124)	696	(1,436)
3010	2014 Conoco, Inc.	(1,200)	696	(418)
3011	2014 Constellation Power Source, Inc.	(119)	696	(41)
3012	2014 CP Energy Marketing (Epcor)	(947)	696	(330)
3013	2014 Douglas County PUD #1	(1,819)	696	(633)
3014	2014 EDF Trading NA LLC	(136,984)	696	(47,689)

3016	2014 Eugene Water & Electric	(38,757)	696	(13,493)
3017	2014 Exelon Generation Co LLC	(16,580)	696	(5,772)
3018	2014 Fortis BC	(27,508)	696	(9,577)
3019	2014 Grant County PUD #2	(27,899)	696	(9,713)
3020	2014 Iberdrola Renewables (PPM Energy)	(536,036)	696	(186,615)
3021	2014 Idaho Power Company	(15,235)	696	(5,304)
3022	2014 J. Aron & Company	(2,600)	696	(905)
3023	2014 JP Morgan Ventures Energy	(5,071)	696	(1,765)
3024	2014 Morgan Stanley CG	(332,554)	696	(115,775)
3025	2014 Natur Ener USA	(24)	696	(8)
3026	2014 Nevada Power Company	(159)	696	(55)
3027	2014 NextEra Energy Power Marketing	(159)	696	(55)
3028	2014 Noble Americas Gas & Power	(400)	696	(139)
3029	2014 NorthPoint Energy Solutions, Inc.	(3,481)	696	(1,212)
3030	2014 Northwestern Energy	(68,236)	696	(23,756)
3031	2014 Okanogan PUD	(1,855)	696	(646)
3033	2014 Pacificorp	(109,675)	696	(38,182)
3034	2014 Portland General Electric	(123,272)	696	(42,916)
3035	2014 Powerex Corp.	(401,453)	696	(139,761)
3036	2014 Rainbow Energy Marketing	(21,430)	696	(7,461)
3037	2014 Sacramento Municipal	(4,593)	696	(1,599)
3038	2014 Seattle City Light Marketing	(20,865)	696	(7,264)
3039	2014 Shell Energy (Coral Pwr)	(210,325)	696	(73,222)
3041	2014 Snohomish County PUD #1	(12,377)	696	(4,309)
3042	2014 Tacoma Power	(14,402)	696	(5,014)
3043	2014 Talen Energy (PPL Energy Plus)	(52,930)	696	(18,427)
3044	2014 Tenaska Power Services Co.	(512)	696	(178)
3045	2014 The Energy Authority	(36,276)	696	(12,629)
3046	2014 TransAlta Energy Marketing	(302,261)	696	(105,229)
3047	2014 TransCanada Energy Sales Ltd	(20,682)	696	(7,200)
3048	2014 Turlock Irrigation District	(311)	696	(108)
3049	2014 Vitol Inc.	(221,200)	696	(77,008)
3121	2015 Avista Corp. WWP Division	127,355	696	44,337
3122	2015 Barclays Bank Plc	(30)	696	(10)
3123	2015 Black Hills Power	1,200	696	418
3124	2015 Book Outs - EITF 03-11	(5,721,875)	696	(1,992,008)
3125	2015 BP Energy Co.	340,839	696	118,659
3126	2015 BPA	141,462	696	49,248
3127	2015 British Columbia Transmission Corp	67	696	23
3128	2015 CAISO EESC Load Undistributed Costs	-	696	-
3129	2015 California ISO	12,114	696	4,217
3130	2015 Calpine Energy Services	350,294	696	121,951
3131	2015 Cargill (Financial)	-	696	-
3132	2015 Cargill Power Markets	779,739	696	271,458
3133	2015 Chelan County PUD #1	857	696	298
3134	2015 Citigroup Energy (Financial)	-	696	-
3135	2015 Citigroup Energy Inc	507,518	696	176,687
3136	2015 Clark Public Utilities	5,045	696	1,756
3137	2015 Clatskanie PUD	2,021	696	704
3138	2015 Conoco, Inc.	2,000	696	696
3139	2015 Constellation Power Source, Inc.	7	696	2
3140	2015 Douglas County PUD #1	271,759	696	94,610
3141	2015 EDF Trading (Financial)	-	696	-

3142	2015 EDF Trading NA LLC	2,085,606	696	726,081
3143	2015 ENMAX Energy Marketing, Inc.	990	696	345
3144	2015 Eugene Water & Electric	10,905	696	3,796
3145	2015 Exelon Generation (Financial)	-	696	-
3146	2015 Exelon Generation Co LLC	183,085	696	63,739
3147	2015 Grant County PUD #2	14,148	696	4,925
3148	2015 Iberdrola Renewables (PPM Energy)	677,785	696	235,963
3149	2015 Idaho Power Company	14,768	696	5,141
3150	2015 J. Aron & Company	10,400	696	3,621
3151	2015 JP Morgan Ventures Energy	67,092	696	23,357
3153	2015 Morgan Stanley CG	1,304,649	696	454,199
3154	2015 Morgan Stanley CG (Financial)	-	696	-
3155	2015 NextEra Energy Power Marketing	113,998	696	39,687
3156	2015 Noble Americas Energy Solutions	800	696	279
3157	2015 NorthPoint Energy Solutions, Inc.	300	696	104
3158	2015 Northwestern Energy	10,619	696	3,697
3159	2015 Okanogan PUD	15,430	696	5,372
3160	2015 Pacificorp	26,590	696	9,257
3161	2015 Portland General Electric	109,691	696	38,188
3162	2015 Powerex Corp.	144,388	696	50,267
3163	2015 Public Service of Colorado	800	696	279
3164	2015 Rainbow Energy Marketing	12,393	696	4,314
3165	2015 Sacramento Municipal	5,966	696	2,077
3166	2015 Seattle City Light Marketing	96,380	696	33,554
3167	2015 Shell Energy (Coral Pwr)	309,247	696	107,661
3168	2015 Shell Energy NA (Financial)	-	696	-
3169	2015 Snohomish County PUD #1	18,557	696	6,460
3170	2015 Southern Cal - Edison	42,837	696	14,913
3171	2015 Tacoma Power	38,385	696	13,363
3172	2015 Talen Energy (PPL Energy Plus)	242,781	696	84,522
3173	2015 Tenaska Power Services Co.	297	696	103
3174	2015 The Energy Authority	57,242	696	19,928
3175	2015 TransAlta Energy Marketing	1,275,174	696	443,938
3176	2015 TransCanada Energy Sales Ltd	15,993	696	5,568
3177	2015 Turlock Irrigation District	24,277	696	8,452
3178	2015 Vitol Inc.	1,563,318	696	544,252
3179	2015 Western Area Power Association	3	696	1
3180	2015 Avista Nichols Pump	22,743	696	7,918
3181	2015 Constellation Power Source, Inc.	-	696	-
3182	2015 Pacific Gas & Elec - Exchange	413,000	696	143,781
3183	2015 Interchange-out deviation	52,887	696	18,412
3184	2015 Pacific Gas & Elec - Exchange	(413,000)	696	(143,781)
3185	2015 Avista Corp. WWP Division	(59,334)	696	(20,656)
3186	2015 Black Hills Power	(30)	696	(10)
3187	2015 Book Outs - EITF 03-11	5,724,128	696	1,992,792
3188	2015 BP Energy Co.	(303,763)	696	(105,752)
3189	2015 BPA	(284,002)	696	(98,872)
3190	2015 British Columbia Transmission Corp	(28)	696	(10)
3191	2015 Calpine Energy Services	(117,995)	696	(41,079)
3192	2015 Cargill Power Markets	(176,345)	696	(61,393)
3193	2015 Chelan County PUD #1	(4,207)	696	(1,465)
3194	2015 Citigroup Energy Inc	(327,954)	696	(114,174)
3195	2015 Clark Public Utilities	(6,032)	696	(2,100)

3196	2015 Clatskanie PUD	(3,692)	696	(1,285)
3197	2015 Conoco, Inc.	(5,200)	696	(1,810)
3198	2015 Constellation Power Source, Inc.	(89)	696	(31)
3199	2015 CP Energy Marketing (Epcor)	(902)	696	(314)
3200	2015 Douglas County PUD #1	(2,350)	696	(818)
3201	2015 EDF Trading NA LLC	(1,158,465)	696	(403,307)
3202	2015 ENMAX Energy Marketing, Inc.	(346)	696	(120)
3203	2015 Eugene Water & Electric	(22,601)	696	(7,868)
3204	2015 Exelon Generation Co LLC	(154,413)	696	(53,757)
3205	2015 Fortis BC	(13,980)	696	(4,867)
3206	2015 Grant County PUD #2	(34,904)	696	(12,151)
3207	2015 Iberdrola Renewables (PPM Energy)	(465,716)	696	(162,134)
3208	2015 Idaho Power Company	(28,166)	696	(9,806)
3209	2015 J. Aron & Company	(10,000)	696	(3,481)
3210	2015 JP Morgan Ventures Energy	(64,335)	696	(22,398)
3211	2015 Morgan Stanley CG	(799,848)	696	(278,458)
3212	2015 Natur Ener USA	(61)	696	(21)
3213	2015 Nevada Power Company	(1,267)	696	(441)
3214	2015 NextEra Energy Power Marketing	(1,748)	696	(609)
3215	2015 NorthPoint Energy Solutions, Inc.	(50)	696	(17)
3216	2015 Northwestern Energy	(27,585)	696	(9,603)
3217	2015 Okanogan PUD	(1,425)	696	(496)
3218	2015 Pacificorp	(270,353)	696	(94,120)
3219	2015 Portland General Electric	(154,103)	696	(53,649)
3220	2015 Powerex Corp.	(165,730)	696	(57,697)
3221	2015 Public Service of Colorado	(600)	696	(209)
3222	2015 Rainbow Energy Marketing	(5,067)	696	(1,764)
3223	2015 Sacramento Municipal	(15,711)	696	(5,470)
3224	2015 Seattle City Light Marketing	(34,982)	696	(12,179)
3225	2015 Shell Energy (Coral Pwr)	(349,844)	696	(121,794)
3226	2015 Snohomish County PUD #1	(7,576)	696	(2,638)
3227	2015 Southern Cal - Edison	(200)	696	(70)
3228	2015 Tacoma Power	(15,061)	696	(5,243)
3229	2015 Talen Energy (PPL Energy Plus)	(70,877)	696	(24,675)
3230	2015 Tenaska Power Services Co.	(828)	696	(288)
3231	2015 The Energy Authority	(41,339)	696	(14,392)
3232	2015 TransAlta Energy Marketing	(637,562)	696	(221,960)
3233	2015 TransCanada Energy Sales Ltd	(7,621)	696	(2,653)
3234	2015 Turlock Irrigation District	(208)	696	(72)
3235	2015 Vitol Inc.	(1,812,075)	696	(630,854)
3236	2015 Western Area Power Association	(2)	696	(1)

	A	B	C	D	E	F	G	H	I	J	K
1	Summary Energy and Emissions Intensity Report										
2											
3		Utility :	EXCELLENT UTILITY								
4		Reporting for year :	2015	MWh per Capita							
5		Population Served :	2,080,260	8.68							
6											
7	Energy Intensity Metrics										
8						Customer	MWh per				
9				MWh at Meter	MWh Proportion	Count	Customer				
10		Residential Customers		8,321,011	46.1%	693,420	12.0				
11		Commercial Customers		7,152,138	39.6%	59,601	120.0				
12		Industrial Customers		2,575,602	14.3%						
13		Total Load Served		18,048,751							
14											
15	Emissions Intensity Metrics										
16					Percent of	Short					
17				Busbar MWh	Total Load	Tons CO₂					
18		Known Resources Serving WA		17,864,735	100.0%	3,007,133					
19		Unknown Resources Serving WA		-	0.0%	-	% of 1990 CO₂				
20				2015 Tons CO ₂		3,007,133	102.8%				
21											
22					1990 Short Tons CO ₂	2,925,551	<i>Example number, use correct number from cells below.</i>				
23											
24	See UTC Docket UE-131723, General Order R-581, Page 7, Paragraph 19.										
25							1990				
26							Short Tons CO ₂				
27						Avista	1,131,957				
28						Pacific Power	2,399,078				
29						Puget Sound Energy	6,946,064				

	A	B	C	D
1	Known Resources Serving WA Customers	2015		
2		WA MWh	2015	Short
3	Resource	2015	lbs CO₂/MWh	Tons CO₂
4	RST Contract for 20,000 MWh/year Peaker	41,589	1,729	35,954
5	Chelan PUD Contract	235,800	-	-
6	Colstrip generation plant units 1&2	3,538,910	1,256	2,222,435
7	Columbia River Dam 34	12,188,870	-	-
8	Cascadia Combined Cycle Unit 4	1,254,456	954	598,376
9	Photovoltaic Plant 'A'	519,698	-	-
10	Smokey Point Oil Burner - Old Number 7	85,412	3,521	150,368
11				-
12				-
13				-
14				-
15				-
16				-
17				-
18				-
19				-
20				-
21				-
22				-
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33				-
34				-
35				-
36				-
37				-
38				-
39				-
40				-
41		17,864,735		3,007,133

