

Appendix C

June 1, 2017

**Summary Energy and Emissions Intensity Reports for
2007 – 2016 Utilizing Netting of Sales and Purchases by
Counterparty by Year**

Avista Corporation

Summary Energy and Emissions Intensity Report

Utility :	Avista	
Reporting for year :	2007	MWh per Capita
Population Served :	497,400	10.97

Energy Intensity Metrics

	MWh at Meter	MWh Proportion	Customer Count	MWh per Customer
Residential Customers	2,474,267	45.4%	205,042	12.1
Commercial Customers	2,145,532	39.3%	22,456	95.5
Industrial Customers	835,191	15.3%		
Total Load Served	5,454,990			

Emissions Intensity Metrics

	Busbar MWh	Percent of Total Load	Short Tons CO ₂	
Known Resources Serving WA	5,961,138	99.0%	1,767,901	
Unknown Resources Serving WA	59,595	1.0%	357,181	% of 1990 CO₂
	2007 Tons CO ₂		2,125,082	187.7%

Multiplied Busbar MWh and Short Tons CO₂ by 65% to adjust from system to Washington only

1990 Short Tons CO₂ **1,131,957**

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

Summary Energy and Emissions Intensity Report

Utility :	Avista	
Reporting for year :	2008	MWh per Capita
Population Served :	503,547	10.80

Energy Intensity Metrics

	MWh at Meter	MWh Proportion	Customer Count	MWh per Customer
Residential Customers	2,478,662	45.6%	207,576	11.9
Commercial Customers	2,143,168	39.4%	22,719	94.3
Industrial Customers	816,842	15.0%		
Total Load Served	5,438,672			

Emissions Intensity Metrics

	Busbar MWh	Percent of Total Load	Short Tons CO ₂	
Known Resources Serving WA	6,016,153	100.1%	1,701,300	
Unknown Resources Serving WA	(6,099)	-0.1%	272,834	% of 1990 CO₂
	2008 Tons CO ₂		1,974,135	174.4%

Multiplied Busbar MWh and Short Tons CO₂ for Known and Unknown Resources

by 65% to show Washington share only.

1990 Short Tons CO₂

1,131,957

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

Summary Energy and Emissions Intensity Report

Utility :	Avista	
Reporting for year :	2009	MWh per Capita
Population Served :	507,649	10.71

Energy Intensity Metrics

	MWh at Meter	MWh Proportion	Customer Count	MWh per Customer
Residential Customers	2,549,035	46.9%	209,267	12.2
Commercial Customers	2,149,572	39.5%	22,791	94.3
Industrial Customers	739,881	13.6%		
Total Load Served	5,438,488			

Emissions Intensity Metrics

	Busbar MWh	Percent of Total Load	Short Tons CO ₂	
Known Resources Serving WA	5,698,668	95.1%	1,416,630	
Unknown Resources Serving WA	296,051	4.9%	574,843	% of 1990 CO₂
	2009 Tons CO ₂		1,991,473	175.9%

Multiplied Busbar MWh and Short Tons CO₂ by 65% to adjust from system to Washington only

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

Summary Energy and Emissions Intensity Report

Utility :	Avista	
Reporting for year :	2010	MWh per Capita
Population Served :	509,398	10.75

Energy Intensity Metrics

	MWh at Meter	MWh Proportion	Customer Count	MWh per Customer
Residential Customers	2,467,044	45.1%	209,988	11.7
Commercial Customers	2,122,874	38.8%	22,915	92.6
Industrial Customers	884,608	16.2%		
Total Load Served	5,474,526			

Emissions Intensity Metrics

	Busbar MWh	Percent of Total Load	Short Tons CO ₂	
Known Resources Serving WA	6,863,791	113.2%	2,115,236	
Unknown Resources Serving WA	(799,756)	-13.2%	(708,796)	% of 1990 CO₂
	2010 Tons CO ₂		1,406,440	124.2%

Multiplied Busbar MWh and Short Tons CO₂ by 65% to adjust from system to Washington only

1990 Short Tons CO₂ **1,131,957**

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

Summary Energy and Emissions Intensity Report

Utility :	Avista	
Reporting for year :	2011	MWh per Capita
Population Served :	511,666	10.93

Energy Intensity Metrics

	MWh at Meter	MWh Proportion	Customer Count	MWh per Customer
Residential Customers	2,537,453	45.4%	210,923	12.0
Commercial Customers	2,132,349	38.1%	22,985	92.8
Industrial Customers	921,261	16.5%		
Total Load Served	5,591,063			

Emissions Intensity Metrics

	Busbar MWh	Percent of Total Load	Short Tons CO ₂	
Known Resources Serving WA	6,461,160	106.5%	1,500,750	
Unknown Resources Serving WA	(395,029)	-6.5%	68,977	% of 1990 CO₂
	2011 Tons CO ₂		1,569,727	138.7%

Multiplied Busbar MWh and Short Tons CO₂ by 65% to adjust from system to Washington only

1990 Short Tons CO₂ **1,131,957**

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

Summary Energy and Emissions Intensity Report

Utility :	Avista	
Reporting for year :	2012	MWh per Capita
Population Served :	514,677	10.68

Energy Intensity Metrics

	MWh at Meter	MWh Proportion	Customer Count	MWh per Customer
Residential Customers	2,454,617	44.7%	212,164	11.6
Commercial Customers	2,129,945	38.8%	23,142	92.0
Industrial Customers	912,061	16.6%		
Total Load Served	5,496,623			

Emissions Intensity Metrics

	Busbar MWh	Percent of Total Load	Short Tons CO ₂	
Known Resources Serving WA	6,624,567	110.6%	1,754,670	
Unknown Resources Serving WA	(635,051)	-10.6%	54,815	% of 1990 CO₂
	2012 Tons CO ₂		1,809,486	159.9%

Multiplied Busbar MWh and Short Tons CO₂ for Known and Unknown Resources by 65% to show

Washington share.

1990 Short Tons CO₂

1,131,957

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

Adjusted Emissions Intensity Metrics

	Busbar MWh	Percent of Total Load	Short Tons CO ₂	
Known Resources Serving WA	6,624,567	110.6%	1,754,670	
Unknown Resources Serving WA	(635,051)	-10.6%	54,815	% of 1990 CO₂
	0 Tons CO ₂		1,809,486	159.9%

Multiplied Busbar MWh and Short Tons CO₂ for Known and Unknown Resources by 65% to show

Washington share.

1990 Short Tons CO₂

1,131,957

Summary Energy and Emissions Intensity Report

Utility :	Avista	
Reporting for year :	2013	MWh per Capita
Population Served :	518,257	10.95

Energy Intensity Metrics

	MWh at Meter	MWh Proportion	Customer Count	MWh per Customer
Residential Customers	2,561,365	45.1%	213,640	12.0
Commercial Customers	2,156,445	38.0%	23,372	92.3
Industrial Customers	959,264	16.9%		
Total Load Served	5,677,074			

Emissions Intensity Metrics

	Busbar MWh	Percent of Total Load	Short Tons CO ₂	
Known Resources Serving WA	7,104,243	115.3%	1,878,225	
Unknown Resources Serving WA	(941,053)	-15.3%	52,564	% of 1990 CO₂
	2013 Tons CO ₂		1,930,789	170.6%

Multiplied Busbar MWh and Short Tons CO₂ by 65% to adjust from system to Washington only

1990 Short Tons CO₂ **1,131,957**

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

Summary Energy and Emissions Intensity Report

Utility :	Avista	
Reporting for year :	2014	MWh per Capita
Population Served :	523,053	10.84

Energy Intensity Metrics

	MWh at Meter	MWh Proportion	Customer Count	MWh per Customer
Residential Customers	2,500,515	44.1%	215,617	11.6
Commercial Customers	2,166,691	38.2%	24,051	90.1
Industrial Customers	1,002,522	17.7%		
Total Load Served	5,669,728			

Emissions Intensity Metrics

	Busbar MWh	Percent of Total Load	Short Tons CO ₂	
Known Resources Serving WA	7,065,338	114.5%	1,834,766	
Unknown Resources Serving WA	(894,997)	-14.5%	(4,360)	% of 1990 CO₂
	2014 Tons CO ₂		1,830,406	161.7%

Multiplied Busbar MWh and Short Tons CO₂ by 65% to adjust from system to Washington only

1990 Short Tons CO₂ **1,131,957**

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

Summary Energy and Emissions Intensity Report

Utility :	Avista	
Reporting for year :	2015	MWh per Capita
Population Served :	528,665	10.85

Energy Intensity Metrics

	MWh at Meter	MWh Proportion	Customer Count	MWh per Customer
Residential Customers	2,458,224	42.8%	217,387	11.3
Commercial Customers	2,223,888	38.8%	24,191	91.9
Industrial Customers	1,055,963	18.4%		
Total Load Served	5,738,075			

Emissions Intensity Metrics

	Busbar MWh	Percent of Total Load	Short Tons CO ₂	
Known Resources Serving WA	7,285,803	119.5%	2,211,263	
Unknown Resources Serving WA	(1,189,188)	-19.5%	(175,597)	% of 1990 CO₂
	2015 Tons CO ₂		2,035,666	179.8%

Multiplied Busbar MWh and Short Tons CO₂ by 65% to adjust from system to Washington only

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

Summary Energy and Emissions Intensity Report

Utility :	Avista	
Reporting for year :	2016	MWh per Capita
Population Served :	535,707	10.28

Energy Intensity Metrics

	MWh at Meter	MWh Proportion	Customer Count	MWh per Customer
Residential Customers	2,359,388	42.8%	219,569	10.7
Commercial Customers	2,160,405	39.2%	24,507	88.2
Industrial Customers	986,915	17.9%		
Total Load Served	5,506,707			

Emissions Intensity Metrics

	Busbar MWh	Percent of Total Load	Short Tons CO ₂	
Known Resources Serving WA	7,195,859	132.2%	1,942,966	
Unknown Resources Serving WA	(1,753,883)	-32.2%	(250,849)	% of 1990 CO₂
	2016 Tons CO ₂		1,692,117	149.5%

Multiplied Busbar MWh and Short Tons CO₂ by 65% to adjust from system to Washington only

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	1990 Short Tons CO ₂
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