

Appendix B Washington 2014 Natural Gas Impact Memorandum



MEMORANDUM



May 28, 2015

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To: Dan Johnson, Avista

From: Lynn Roy, Nexant

Re: WA 2014 Gas Impact Memorandum

In 2014, Avista offered a suite of nonresidential, residential and low income programs to customers in their Washington service territory. The programs incited Avista's customers to purchase and implement gas savings measures in their homes and businesses through prescriptive rebates, direct installs, and site specific rebates. This memo outlines the unverified, gross gas savings values for the 2014 program year. Net-to-gross values have not been applied to the savings values.

Total 2014 Washington Gas Savings

The following table outlines the total reported and gross unverified gas savings for the 2014 program year in Avista's Washington service territory, by nonresidential sector, residential sector, and low income sector. The reported savings values are from Avista's Saleslogix and Cognos database and from data provided by third-party implementers not already tracked in Avista's databases. The unverified savings are calculated based on the evaluation team's review of the database fields provided for each program and through the application of adjustment factors (based on errors found in the reporting databases) and realization rates (based on the findings from the 2012-2013 evaluation of Avista's programs¹) when deemed necessary. Savings are broken out by sector in the remainder of this memo.

¹ Avista 2012-2013 Washington Gas Impact Evaluation Report, the Cadmus Group, May 15, 2014

Table 1: 2014 Total Reported and Unverified Gross Savings for Washington Gas

Sector	Reported Savings (Therms)	Unverified Savings (Therms)
Nonresidential	254,498	245,031
Residential	365,091	276,422
Low Income	8,310	8,310
Total	627,899	529,763

Nonresidential Savings

Table 2 outlines the reported and unverified gross gas savings for the 2014 nonresidential programs in Avista’s Washington service territory. Realization rates were applied for the Site-Specific (SS) program measure categories and are based on the findings from the 2012-2013 evaluation of Avista’s WA programs². A realization rate of 1.0 was applied to the Prescriptive (PSC) program measure categories because it is understood that the savings values reported by Avista in 2014 have already been adjusted to capture an updated per unit value found in the 2012-2013 evaluation. An adjustment factor was applied to the reported savings to account for any errors found by the evaluation team.

Table 2: 2014 Nonresidential Reported and Unverified Gross Savings for Washington Gas

Program and Measure Category	Reported Savings (Therms)	Realization Rate	Adjustment Factor	Unverified Savings (Therms)
PSC Commercial Water Heater	2	1.00	1.00	2
PSC Commercial HVAC	25,828	1.00	1.00	25,828
PSC Commercial Windows and Insulation	18,106	1.00	1.00	18,106
PSC Food Service Equipment	18,095	1.00	1.00	18,095
PSC Motor Controls HVAC	3,123	1.00	1.00	3,123
SS Appliances	26,174	.95	1.00	24,865
SS HVAC Combined	113,001	.95	1.00	107,351
SS HVAC Heating	21,911	.95	1.00	20,815
SS Industrial Process	7,257	.95	1.00	6,894
SS Shell	21,000	.95	1.00	19,950
Total	254,498	.96	1.00	245,031

² Avista 2012-2013 Washington Gas Impact Evaluation Report, the Cadmus Group, May 15, 2014

Residential Savings

Table 3 outlines the reported and unverified gross gas savings for the 2014 residential measures offered in Avista's Washington service territory. Savings are reported by measure type to align with the data utilized in the cost-effectiveness analysis. A realization rate of 1.0 was applied to all reported values in the residential programs because it is understood that the savings values reported by Avista in 2014 have already been adjusted to capture an updated per unit value found in the 2012-2013 evaluation. An adjustment factor was applied to the reported savings to account for any errors found by the evaluation team.

Table 3: 2014 Residential Reported and Unverified Gross Savings for Washington Gas

Measure Type	Reported Savings (Therms)	Adjustment Factor	Unverified Savings (Therms)
G Window Replc with Natural Gas Heat	166,781	.47	78,112
G Natural Gas Furnace	197,633	1.00	197,633
G Natural Gas Boiler	2,094	1.00	2,094
G 40 Gallon Natural Gas Water Heater	185	1.00	185
G 50 Gallon Natural Gas Water Heater	1,188	1.00	1,188
G Attic Insulation with Natural Gas Heat	14,020	1.00	14,020
G STP WA DIY	328	1.00	328
G Floor Insulation with Natural Gas Heat	2,230	1.00	2,230
G Wall Insulation with Natural Gas Heat	5,415	1.00	5,415
G Tankless Water Heater	2,146	1.00	2,146
G STP WA PD Install	328	1.00	328
G Energy Star Home – Natural Gas Only	812	1.00	812
Manufactured Home Duct Sealing	43,505	1.00	43,505
Manufactured Home Showerhead	7,447	1.00	7,447
E Electric To Natural Gas Water Heater	(14,040)	1.00	(14,040)
E Electric To Natural Gas Furnace	(52,860)	1.00	(52,860)
E Electric To Natural Gas Furnace & Water Heater	(12,121)	1.00	(12,121)
Total	365,091	0.76	276,422

Low Income Savings

Table 4 outlines the reported and unverified gross gas savings for the 2014 Low Income program in Avista's Washington service territory. Savings are reported by measure type to align with the data utilized in the cost-effectiveness analysis. An adjustment factor was applied to the reported savings to account for any errors found by the evaluation team.

Table 4: 2014 Low Income Reported and Unverified Gross Savings for Washington Gas

Measure Type	Reported Savings (Therms)	Adjustment Factor	Unverified Savings (Therms)
G Energy Star Windows	1,338	1.00	1,338
G Energy Star Doors	498	1.00	498
G HE Furnace	1,680	1.00	1,680
G Insulation – Ceiling/Attic	2,787	1.00	2,787
G Insulation – Duct	53	1.00	53
G Insulation – Floor	3,319	1.00	3,319
G Insulation – Wall	1,622	1.00	1,622
G Air Infiltration	2,897	1.00	2,897
G Duct Sealing	750	1.00	750
E To G Furnace Conversion	(4,088)	1.00	(4,088)
E To G H ₂ O Conversion	(2,546)	1.00	(2,546)
Total	8,310	1.00	8,310