



Corrections to the CY 2012 Wisconsin Focus on Energy Evaluation Report

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**Public Service Commission of Wisconsin
610 North Whitney Way
P.O. Box 7854
Madison, WI 53707-7854**

The Cadmus Group, Inc.

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In response to several questions about the 2012 Evaluation Report from stakeholders, the Evaluation Team¹ has conducted a thorough review of the tables and figures in the report. This document presents updates and corrections to the CY 2012 Evaluation Report as a result of that review. The review compared the data in the published report against the most recent program tracking database outputs (SPECTRUM and other tracking databases). In some cases, the data available in the most recent extracts is more current than was available at the time the Evaluation Report was published.

The changes in this memo represent the entirety of corrections and clarifications that need to be made to the report. None of the changes presented in this document have been found to have any impact on the overall cost-effectiveness analysis results.

VOLUME 1 – CORRECTIONS AND CLARIFICATIONS

Table 9 - Participation for Large Energy Users updated to 192 from 217.

Table 9. CY 2012 Total Participation By Program¹

Segment	Program	Participation
Residential	Multifamily Energy Savings	333
Residential	Appliance Recycling ²	12,295
Residential	Home Heating Assistance	199
Residential	Residential Lighting and Appliance	926,000
Residential	Home Performance with ENERGY STAR	2,790
Residential	Assisted Home Performance	45
Residential	New Homes	1,628
Residential	Residential Rewards	14,608
Residential	Express Energy Efficiency	9,855
Residential	Residential Legacy	43,506
Residential Subtotal		1,011,259
Nonresidential	Business Incentive	2,634
Nonresidential	Large Energy Users	192
Nonresidential	Chain Stores & Franchises	223
Nonresidential	Small Business	1,059
Nonresidential	Retrocommissioning	0
Nonresidential	The Renewable Energy Competitive Incentive ³	0
Nonresidential	Nonresidential Legacy	2,296
Nonresidential Subtotal		6,404

¹ Includes legacy programs and carryover participation.

² From JACO's database.

³ Legacy renewable measures applied to other Programs. No projects were completed in CY 2012 by the Renewable Energy Competitive Incentive Program.

Regarding the reported participation by program, the Evaluation Team believes it is important for readers of the Evaluation Report to understand the approach used to calculate Residential Lighting and

¹ Cadmus; Nexant, Inc.; TecMarket Works; and St. Norbert College Strategic Research Institute



Appliance participation. To calculate the number of individuals who purchased bulbs in each calendar year, the Evaluation Team relied upon data obtained from customers who used coupons for purchases of compact fluorescent lamps or other bulbs through the Program.² As noted in the CY 2012 Evaluation Report, these coupons represent a small percentage of the overall bulb sales recorded in the upstream lighting programs. At this time, the data from the coupons are the best data available on unit purchases by customer. Since customers do not interact directly with upstream programs, there are no other Program records available for participating customers.

The Evaluation Team used the most current averages, obtained from CY 2012 participants using coupons, to calculate the number of participants in the CY 2012 Program. This approach, while consistent with the approach used in CY 2011 and earlier evaluations, lends itself to variability in calculating participants. Every year, the number of bulbs purchased per participant in each segment (residential, commercial, agricultural, etc.) fluctuates. In turn, the variability in segment participation rates reduces the transparency of the Program’s exact influence on bulb sales and participation.

As a result, the Evaluation Team has put together the following table, Table 9-Addendum (not included in the CY 2012 Evaluation Report). The purpose of this table is to provide additional context around the growth in participation in the Focus on Energy programs by presenting the total bulbs purchased in upstream lighting programs in 2011 and 2012. This additional context will be included in future Evaluation Reports for Focus on Energy.

Table 9-Addendum. Bulbs Purchased in Upstream Lighting Programs from CY 2011 to CY 2012¹

Program	2011 Bulbs	2012 Bulbs
Energy Star Lighting ²	1,032,576	168,662
Residential Lighting and Appliance ³	N/A	4,054,198
Lighting Program Subtotal	1,032,576	4,222,860

¹ Includes legacy programs and carryover participation

² Program changed names in CY 2012 to Residential Lighting and Appliance.

³ Program was launched in CY 2012

² Coupon use for lighting purchases is described on page 85 of Volume II of the CY 2012 Evaluation Report available online at:
http://focusonenergy.com/sites/default/files/FOC_XC_CY%2012%20Report%20Volume%20II%20Final_05-3-2013.pdf.

It is also describe on page 8 of the CY 2011 Evaluation Report available online at:
http://focusonenergy.com/sites/default/files/Evaluation_Report_2011.pdf.

Appendix G, page 85, of the CY 2011 Evaluation Report presents analysis of coupon data and their use in the evaluation.

Figures 3 through 6 – These figures are updated in order to be consistent with the savings tables in the report.

Figure 3. CY 2012 Verified Gross Electric Energy Impacts By Program, Residential Segment

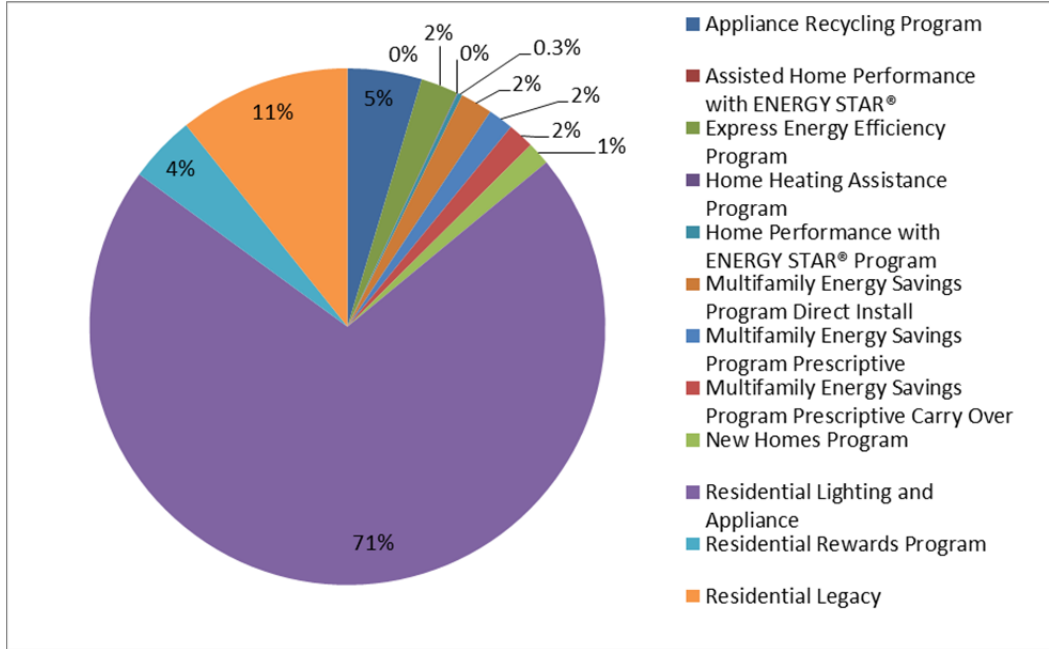


Figure 4. CY 2012 Verified Gross Gas Energy Impacts By Program, Residential Segment

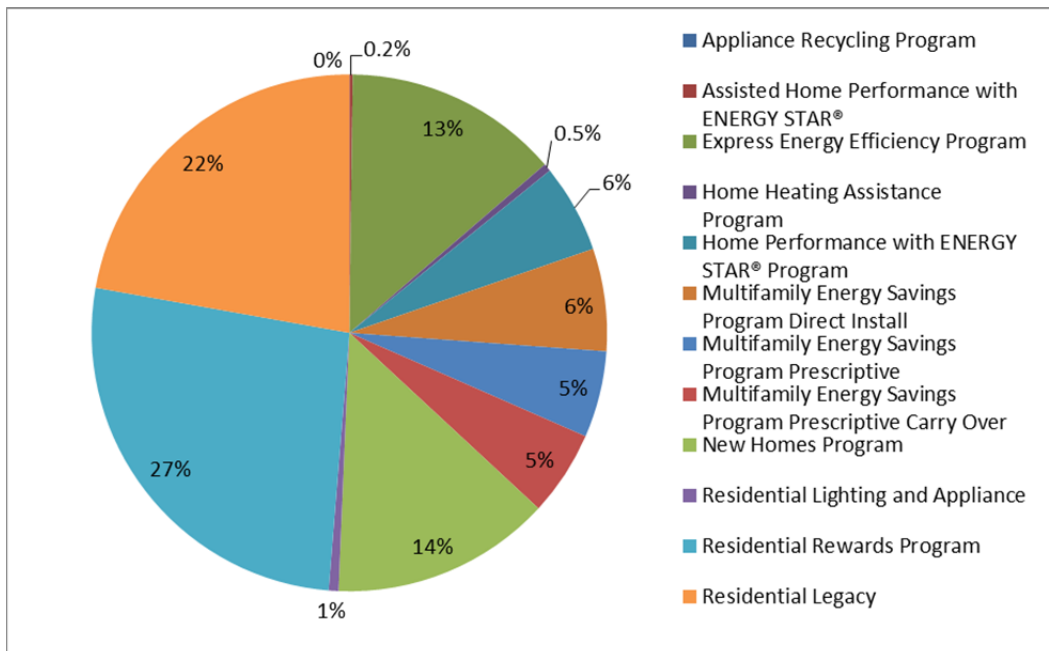




Figure 5. CY 2012 Verified Gross Electric Energy Impacts By Program, Nonresidential Segment

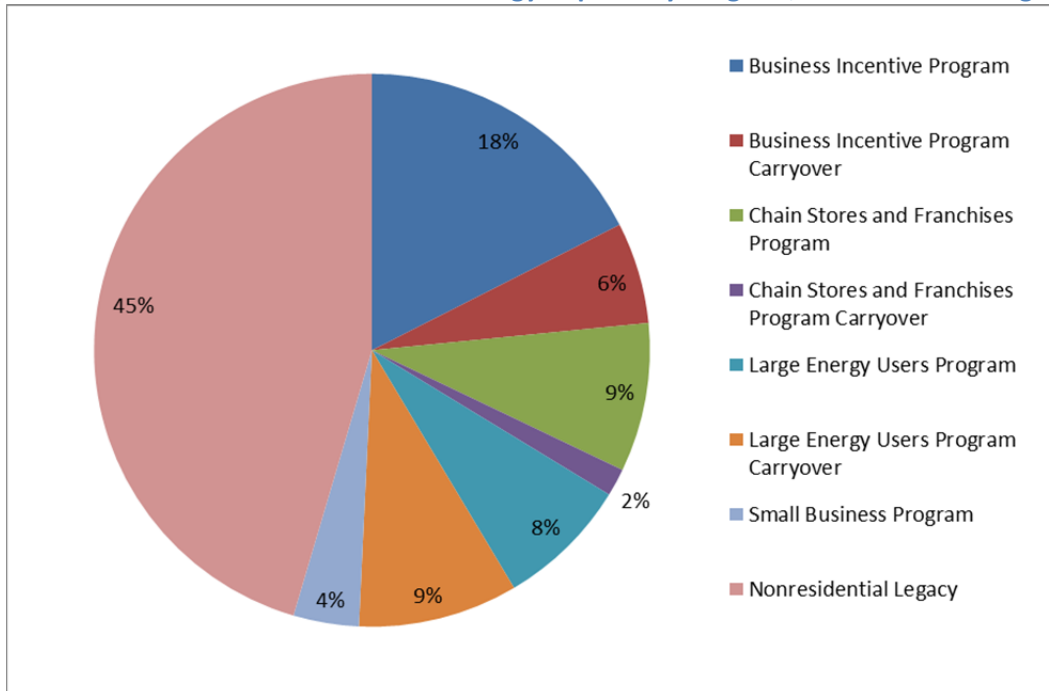
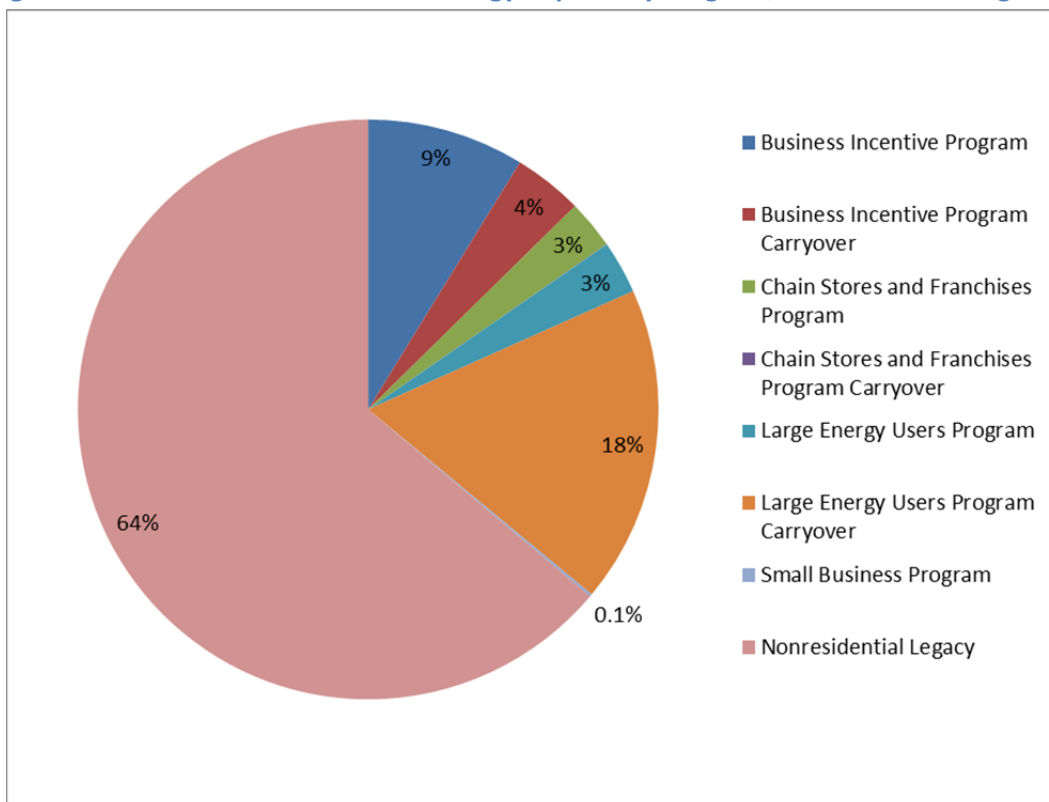


Figure 6. CY 2012 Verified Gross Gas Energy Impacts By Program, Nonresidential Segment



Tables 11 and 12 – Updated.

Table 11. Summary Of First-Year Annual Savings By Measure Category, Residential Segment ¹

Measure Category	Verified Gross							
	kWh	kWh %	kW	kW %	Therms	Therms %	Incentive Dollars	Incentive Dollars %
Appliance Recycling	9,380,220	4.7%	1,415	4.9%	-	0.0%	\$402,690	2.5%
Boiler Equipment	(2,152)	(0.0%)	2	0.0%	187,744	4.5%	\$126,557	0.8%
Boilers & Burners	-	0.0%	-	0.0%	244,063	5.9%	\$320,246	2.0%
Bonus	-	0.0%	-	0.0%	-	0.0%	\$69,328	0.4%
Building Shell	3,937,271	2.0%	1,229	4.3%	575,691	14.0%	\$794,792	5.0%
Buydown ²	143,107,396	71.0%	17,549	61.2%	25,756	0.6%	\$5,150,039	32.3%
CFL ³	13,497,139	6.7%	2,348	8.2%	-	0.0%	\$294,290	1.8%
Controls	26,979	0.0%	-	0.0%	155	0.0%	\$682	0.0%
Conversion ⁴	237,507	0.1%	23	0.1%	(8,472)	(0.2%)	\$29,550	0.2%
Conversion – Other ⁵	2,624	0.0%	0	0.0%	-	0.0%	\$250	0.0%
Dishwasher	154,102	0.1%	-	0.0%	8,688	0.2%	\$26,390	0.2%
Domestic Hot Water	3,261,155	1.6%	(0)	0.0%	906,118	22.0%	\$105,341	0.7%
Energy Recovery	182,443	0.1%	14	0.0%	18,094	0.4%	\$13,163	0.1%
Energy Savings	1,636	0.0%	-	0.0%	280	0.0%	\$0	0.0%
Fixtures	428,348	0.2%	17	0.1%	-	0.0%	\$13,875	0.1%
Furnace	2,597,725	1.3%	597	2.1%	64,494	1.6%	\$525,565	3.3%
Hot Water	1,242,389	0.6%	2	0.0%	127,441	3.1%	\$110,516	0.7%
HVAC	8,221,530	4.1%	3,209	11.2%	1,148,048	27.8%	\$3,953,707	24.8%
HVAC Controls	18,332	0.0%	-	0.0%	1,950	0.0%	\$1,152	0.0%
Laundry	215,863	0.1%	-	0.0%	8,461	0.2%	\$22,555	0.1%
LED Holiday Light	25,334	0.0%	3	0.0%	-	0.0%	\$425	0.0%
LED Lighting	199,552	0.1%	28	0.1%	-	0.0%	\$22,435	0.1%
Lighting	9,472,439	4.7%	963	3.4%	-	0.0%	\$287,588	1.8%
Lighting Controls	380,256	0.2%	11	0.0%	-	0.0%	\$12,376	0.1%
Motors & Drives	162,975	0.1%	111	0.4%	-	0.0%	\$23,980	0.2%
New Construction	2,165,756	1.1%	559	1.9%	467,446	11.3%	\$710,250	4.5%



Measure Category	Verified Gross							
	kWh	kWh %	kW	kW %	Therms	Therms %	Incentive Dollars	Incentive Dollars %
Non Energy	-	0.0%	-	0.0%	-	0.0%	\$3,028	0.0%
Other	347,767	0.2%	64	0.2%	227,134	5.5%	\$1,986,708	12.5%
Refrigeration	117,119	0.1%	22	0.1%	-	0.0%	\$26,975	0.2%
Renewable Energy	1,201,398	0.6%	376	1.3%	12,739	0.3%	\$643,904	4.0%
T8/T5 Fluorescent Lighting	127,045	0.1%	13	0.0%	-	0.0%	\$4,771	0.0%
Training & Special	-	0.0%	-	0.0%	-	0.0%	\$22,991	0.1%
Vending & Plug Loads	73,169	0.0%	6	0.0%	1,188	0.0%	\$17,115	0.1%
Whole Building	740,550	0.4%	138	0.5%	109,494	2.7%	\$206,800	1.3%

¹ Includes legacy programs and carryover.

² CFLs and Showerheads in the Residential Lighting and Appliances Program.

³ Legacy program CFLs.

⁴ Legacy Appliance and Plug Load Program.

⁵ Legacy Appliance and Plug Load Program.

Table 12. Summary Of First year Annual Savings By Measure Category, Nonresidential Segment ¹

Measure Category	Verified Gross							
	kWh	kWh %	kW	kW %	Therms	Therms %	Incentive Dollars	Incentive Dollars %
Aeration ²	10,017,713	2.2%	814.21	1.2%	-	0.0%	\$660,103	2.1%
Agriculture	3,102,789	0.7%	3,471	5.3%	36,785	0.2%	\$155,371	0.5%
Boiler	(46,657)	(0.0%)	(2)	(0.0%)	796,462	3.6%	\$287,889	0.9%
Boiler Controls	21,709	0.0%	1	0.0%	237,581	1.1%	\$83,400	0.3%
Boiler Equipment	1,728,478	0.4%	400	0.6%	3,676,906	16.7%	\$284,405	0.9%
Boiler Service	7,151,847	1.6%	1,023	1.6%	2,455,407	11.1%	\$381,892	1.2%
Boilers & Burners	2,714,225	0.6%	66	0.1%	715,188	3.2%	\$418,058	1.3%
Bonus	-	0.0%	-	0.0%	-	0.0%	\$376,663	1.2%
Building Shell	1,882,880	0.4%	1,097	1.7%	578,776	2.6%	\$420,971	1.3%
CFL	1,512,704	0.3%	307	0.5%	-	-	\$22,666	0.1%
Compressed Air, Vacuum Pumps	13,326,856	3.0%	2,865	4.4%	205,797	0.9%	\$667,352	2.1%
Compressor Equipment	8,347,302	1.9%	1,038	1.6%	-	-	\$554,358	1.7%
Compressor Service	10,353,287	2.3%	1,385	2.1%	-	-	\$405,591	1.3%
Controls	1,832	0.0%	9	0.0%	-	-	\$1,386	0.0%
Conversion	9,190	0.0%	2	0.0%	(378)	(0.0%)	\$566	0.0%
Design	-	-	-	-	-	-	\$14,461	0.0%
Dishwasher	159,230	0.0%	17	0.0%	3,038	0.0%	\$9,450	0.0%
Domestic Hot Water	4,944,696	1.1%	997	1.5%	440,610	2.0%	\$16,548	0.1%
Energy Recovery	2,433,562	0.5%	279	0.4%	1,667,388	7.6%	\$74,114	0.2%
Food Service	1,350,614	0.3%	170	0.3%	110,338	0.5%	\$165,807	0.5%
Greenhouse	-	-	-	-	2,434	0.0%	\$1,300	0.0%
High Intensity Discharge (HID)	1,150,446	0.3%	205	0.3%	-	-	\$55,367	0.2%
Hot Water	1,119,941	0.2%	187	0.3%	92,326	0.4%	\$99,674	0.3%
HVAC	32,444,941	7.2%	7,798	11.9%	4,075,708	18.5%	\$4,279,837	13.3%
HVAC Controls	-	-	14	0.0%	616	0.0%	\$2,012	0.0%
Industrial - Custom	52,578	0.0%	-	-	37,444	0.2%	\$13,934	0.0%
Industrial Ovens and Furnaces	-	-	-	-	22,502	0.1%	\$11,800	0.0%
IT	8,213,774	1.8%	566	0.9%	4,511	0.0%	\$414,470	1.3%
Laundry	483,768	0.1%	65	0.1%	101,234	0.5%	\$61,068	0.2%
LED Lighting	7,643,892	1.7%	892	1.4%	-	-	\$390,071	1.2%



Measure Category	Verified Gross							
	kWh	kWh %	kW	kW %	Therms	Therms %	Incentive Dollars	Incentive Dollars %
Lighting	103,110,130	23.0%	17,146	26.2%	-	-	\$4,413,998	13.8%
Lighting Controls	5,485,216	1.2%	567	0.9%	-	-	\$261,723	0.8%
Motors & Drives	43,580,275	9.7%	4,692	7.2%	(107)	(0.0%)	\$1,833,622	5.7%
New Construction	652,078	0.1%	150	0.2%	92,955	0.4%	\$114,132	0.4%
Non Energy	-	-	-	-	-	-	\$67,029	0.2%
Other	(3,891,138)	(0.9%)	(3,969)	(6.1%)	(1,457)	0.0%	\$2,508,580	7.8%
Pools	944,681	0.2%	142	0.2%	46,393	0.2%	\$54,583	0.2%
Process	52,212,484	11.6%	4,994	7.6%	6,463,963	29.3%	\$2,755,667	8.6%
Refrigeration	28,391,953	6.3%	3,503	5.3%	39,266	0.2%	\$1,156,940	3.6%
Refrigeration Controls	3,549,325	0.8%	85	0.1%	-	-	\$84,545	0.3%
Renewable Energy	34,108,257	7.6%	4,744	7.2%	28,548	0.1%	\$4,474,319	13.9%
Scheduling	107,779	0.0%	6	0.0%	-	-	\$3,450	0.0%
T8/T5 Fluorescent Lighting	56,809,960	12.7%	9,179	14.0%	-	-	\$3,212,087	10.0%
Training & Special	-	-	-	-	-	-	\$488,763	1.5%
Vending & Plug Loads	529,542	0.1%	-	-	-	-	\$8,105	0.0%
Waste Water Treatment	50,222	0.0%	8.42	0.0%	-	0.0%	\$4,099	0.0%
Whole Building	2,611,564	0.6%	607	0.9%	113,708	0.5%	\$329,099	1.0%

¹ Includes legacy programs and carryover.

² Wastewater treatment aeration.

VOLUME 2 – CORRECTIONS AND CLARIFICATIONS

Tables 45 and 46 - Participants previously reflected verified units updated to verified program participation quantity.

Table 45. Appliance Recycling Program Spillover Savings¹

Appliance	Spillover % Estimate	Units	Per-Unit Energy Savings (MWh/Year)	Appliance Spillover (MWh/Year)
Refrigerator	2.8%	9,699	0.675	181
Freezer	3.1%	3,724	0.761	89
Total	3.0%	13,423		271

¹ From JACO’s database.

Tables 45 and 46 - Total program gross savings in Table 46 updated to 9,379 from 9,420.

Table 46. Total Net Savings and Final Net-to-Gross Ratio¹

Appliance	Units	Total Program Gross Savings	Freerider and SMI	Induced Consumption	Appliance Spillover	Total Program Net Savings	Net-to-Gross
Refrigerator	9,699	6,544	3,220	184	181	3,363	51%
Freezer	3,724	2,835	1,437	19	89	1,467	52%
Total	13,423	9,379	4,657	203	270	4,830	52%

¹ From JACO’s database.

APPENDIX G – CORRECTIONS AND CLARIFICATIONS

Tables 5 and 6 – Updated

These are identical to Volume I, Tables 11 and 12. Please refer to the corrections and clarifications presented above.