

**Shawna Senko**

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**From:** Keating, Beth <BKeating@gunster.com>  
**Sent:** Monday, September 16, 2013 1:53 PM  
**To:** Filings@psc.state.fl.us  
**Cc:** Kelley Corbari; Shevie Brown  
**Subject:** Docket No. 130167-EG  
**Attachments:** AGDF\_s Responses to Staff Second Data Requests.PDF

Attached for electronic filing, please find the Responses of the AGDF to Commission Staff's Second Data Requests in the referenced docket.

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b. Docket No. 130167-EG – Petition for approval of natural gas energy conservation programs for commercial customers, by Associated Gas Distributors of Florida.

c. On behalf of: AGDF

d. There are a total of pages: 10

e. Description: Responses to Second Data Requests



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September 16, 2013

**ELECTRONIC FILING - FILINGS@PSC.STATE.FL.US**

Ms. Ann Cole, Clerk  
Florida Public Service Commission  
2540 Shumard Oak Boulevard  
Tallahassee, FL 32399-0850

Re: Docket No. 130167- EG-- **Petition for approval of natural gas energy conservation programs for commercial customers, by Associated Gas Distributors of Florida.**

Dear Ms. Cole:

Attached for electronic filing, please find the Associated Gas Distributors of Florida's Responses to Commission Staff's Second Set Data Requests in this docket, regarding the proposed conservation programs for commercial customers.

As always, thank you for your assistance with this filing. If you have any questions whatsoever, please do not hesitate to contact me.

Sincerely,

Beth Keating and Lila Jaber  
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*Attorneys for the AGDF*

**RE: Docket No. 130167-EG- Petition for approval of natural gas energy conservation programs for commercial customers, by Associated Gas Distributors of Florida.**

AGDF's Responses to Commission Staff's Second Set of Data Requests

AGDF's responses to the PSC Staff's Second Data Request, issued September 5, 2013, are as follows:

1. Please complete the following tables for each company and provide the responses in Excel format.
  - a. Please complete the tables for both company as a whole (including the sum of all programs) and for each individual program.
  - b. Please provide the projected number of annual rebates by program (retention, retrofit, or new construction), the total annual natural gas consumption projected for the gas appliances in therms, and the total annual electricity generation avoided in kWh.

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The projected participation rates for each appliance within these tables were derived by allocating on a percentage basis, the total number of participants to specific appliances via the following allocation schedule:

**Retention**

Tankless: 19%  
 Tank: 44%  
 Fryer: 9%  
 Dryer: 11%  
 Range/Oven: 17%

**Retrofit**

Tankless: 45%  
 Tank: 7%  
 Fryer: 12%  
 Dryer: 19%  
 Range/Oven: 17%

**New Construction:**

Tankless: 15%  
 Tank: 26%  
 Fryer: 12%  
 Dryer: 23%  
 Range/Oven: 24%

The allocation schedule above is reflective of 2 year averaged participation rates for similar appliances from residential programs and reflect how the Program Types impact consumer behavior. Since no data on Residential Fryer participation rates exists, estimates of 9%, 12%, and 12% were used for Retention, Replacement & New Construction respectively to project anticipated Commercial participation rates.

Once the projected participation rates for each appliance were calculated, we then needed to illustrate annual Gas Therm Consumption and the avoided kWh electric generation. To do so, we used the appliance consumption and kWh numbers from the FSEC Built Model. These numbers are listed below, and can also be found on Tab Titled Equipotent Summary Line C79-C84 within the Model.

Large Commercial Hospitality	Gas	
	Therms	KWH
Water Heating - Tank	4,681	90,885
Water Heating - Tankless	3,496	87,921
Cooking - Deep Fryer	1,376	17,396
Cooking - Oven/Range	1,367	28,915
Pool Heating	4,062	33,985
Desiccant Dehumidifier	2,118	14,867
Clothes Drying	642	9,052

Joseph R. Eysie

FLORIDA CITY GAS

TANK WATER HEATER			
TYPE	# of Rebates	Annual Therms	Annual kWh Avoided
Retention	69.52	325,423	6,318,325
Retrofit	3.85	18,022	349,907
New Construction	31.46	147,264	2,859,242
TANKLESS WATER HEATER			
TYPE	# of Rebates	Annual Therms	Annual kWh Avoided
Retention	30.02	104,950	2,639,388
Retrofit	24.75	86,526	2,176,045
New Construction	18.15	63,452	1,595,766
FRYER			
TYPE	# of Rebates	Annual Therms	Annual kWh Avoided
Retention	14.22	19,566.72	247,371.12
Retrofit	6.6	9,081.60	114,813.60
New Construction	14.52	19,979.52	252,589.92
RANGE/OVEN			
TYPE	# of Rebates	Annual Therms	Annual kWh Avoided
Retention	26.86	36,718	776,657
Retrofit	9.35	12,781	270,355
New Construction	29.04	39,698	839,692
DRYER			
TYPE	# of Rebates	Annual Therms	Annual kWh Avoided
Retention	17.38	11,158	157,324
Retrofit	10.45	6,709	94,593
New Construction	27.83	17,867	251,917
ALL APPLIANCES COMBINED			
TYPE	# of Rebates	Annual Therms	Annual kWh Avoided
Retention	158	497,815	10,139,065
Retrofit	55	133,120	3,005,714
New Construction	121	288,261	5,799,207

Multipliers	
Therms	Avoided kWh
4,681	90,885
4,681	90,885
4,681	90,885

3,496	87,921
3,496	87,921
3,496	87,921

1,376	17,396
1,376	17,396
1,376	17,396

1367	28915
1367	28915
1367	28915

642	9052
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TECO-PEOPLES

TANK WATER HEATER			
TYPE	# of Rebates	Annual Therms	Annual kWh Avoided
Retention	216.04	1,011,283	19,634,795
Retrofit	12.04	56,359	1,094,255
New Construction	97.76	457,615	8,884,918
TANKLESS WATER HEATER			
TYPE	# of Rebates	Annual Therms	Annual kWh Avoided
Retention	93.29	326,142	8,202,150
Retrofit	77.4	270,590	6,805,085
New Construction	56.4	197,174	4,958,744
FRYER			
TYPE	# of Rebates	Annual Therms	Annual kWh Avoided
Retention	44.19	60,805	768,729
Retrofit	20.64	28,401	359,053
New Construction	45.12	62,085	784,908
RANGE/OVEN			
TYPE	# of Rebates	Annual Therms	Annual kWh Avoided
Retention	83.47	114,103	2,413,535
Retrofit	29.24	39,971	845,475
New Construction	90.24	123,358	2,609,290
DRYER			
TYPE	# of Rebates	Annual Therms	Annual kWh Avoided
Retention	54.01	34,674	488,899
Retrofit	32.68	20,981	295,819
New Construction	86.48	55,520	782,817
ALL APPLIANCES COMBINED			
TYPE	# of Rebates	Annual Therms	Annual kWh Avoided
Retention	491	1,547,008	31,508,108
Retrofit	172	416,302	9,399,688
New Construction	376	895,752	18,020,676

Multipliers	
Therms	Avoided kWh
4,681	90,885
4,681	90,885
4,681	90,885

3,496	87,921
3,496	87,921
3,496	87,921

1,376	17,396
1,376	17,396
1,376	17,396

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1367	28915
1367	28915

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FPUC

TANK WATER HEATER			
TYPE	# of Rebates	Annual Therms	Annual kWh Avoided
Retention	52.8	247,157	4,798,728
Retrofit	2.94	13,762	267,202
New Construction	23.92	111,970	2,173,969
TANKLESS WATER HEATER			
TYPE	# of Rebates	Annual Therms	Annual kWh Avoided
Retention	22.8	79,709	2,004,599
Retrofit	18.9	66,074	1,661,707
New Construction	13.8	48,245	1,213,310
FRYER			
TYPE	# of Rebates	Annual Therms	Annual kWh Avoided
Retention	10.8	14,861	187,877
Retrofit	5.04	6,935	87,676
New Construction	11.04	15,191	192,052
RANGE/OVEN			
TYPE	# of Rebates	Annual Therms	Annual kWh Avoided
Retention	20.4	27,887	589,866
Retrofit	7.14	9,760	206,453
New Construction	22.08	30,183	638,443
DRYER			
TYPE	# of Rebates	Annual Therms	Annual kWh Avoided
Retention	13.2	8,474	119,486
Retrofit	7.98	5,123	72,235
New Construction	21.16	13,585	191,540
ALL APPLIANCES COMBINED			
TYPE	# of Rebates	Annual Therms	Annual kWh Avoided
Retention	120	378,088	7,700,556
Retrofit	42	101,655	2,295,273
New Construction	92	219,173	4,409,314

Multipliers	
Therms	Avoided kWh
4,681	90,885
4,681	90,885
4,681	90,885
3,496	87,921
3,496	87,921
3,496	87,921
1,376	17,396
1,376	17,396
1,376	17,396
1367	28915
1367	28915
1367	28915
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CHPK

TANK WATER HEATER			
TYPE	# of Rebates	Annual Therms	Annual kWh Avoided
Retention	7.04	32,954	639,830
Retrofit	0.42	1,966	38,172
New Construction	3.12	14,605	283,561
TANKLESS WATER HEATER			
TYPE	# of Rebates	Annual Therms	Annual kWh Avoided
Retention	3.04	10,628	267,280
Retrofit	2.7	9,439	237,387
New Construction	1.8	6,293	158,258
FRYER			
TYPE	# of Rebates	Annual Therms	Annual kWh Avoided
Retention	1.44	1,981	25,050
Retrofit	0.72	991	12,525
New Construction	1.44	1,981	25,050
RANGE/OVEN			
TYPE	# of Rebates	Annual Therms	Annual kWh Avoided
Retention	2.72	3,718	78,649
Retrofit	1.02	1,394	29,493
New Construction	2.88	3,937	83,275
DRYER			
TYPE	# of Rebates	Annual Therms	Annual kWh Avoided
Retention	1.76	1,130	15,932
Retrofit	1.14	732	10,319
New Construction	2.76	1,772	24,984
ALL APPLIANCES COMBINED			
TYPE	# of Rebates	Annual Therms	Annual kWh Avoided
Retention	16	50,412	1,026,741
Retrofit	6	14,522	327,896
New Construction	12	28,588	575,128

Multipliers	
Therms	Avoided kWh
4,681	90,885
4,681	90,885
4,681	90,885
3,496	87,921
3,496	87,921
3,496	87,921
1,376	17,396
1,376	17,396
1,376	17,396
1367	28915
1367	28915
1367	28915
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INDIANTOWN

TANK WATER HEATER			
TYPE	# of Rebates	Annual Therms	Annual kWh Avoided
Retention	0.88	4,119	79,979
Retrofit	0.07	328	6,362
New Construction	0.52	2,434	47,260
TANKLESS WATER HEATER			
TYPE	# of Rebates	Annual Therms	Annual kWh Avoided
Retention	0.38	1,328	33,410
Retrofit	0.45	1,573	39,564
New Construction	0.3	1,049	26,376
FRYER			
TYPE	# of Rebates	Annual Therms	Annual kWh Avoided
Retention	0.18	248	3,131
Retrofit	0.12	165	2,088
New Construction	0.24	330	4,175
RANGE/OVEN			
TYPE	# of Rebates	Annual Therms	Annual kWh Avoided
Retention	0.34	465	9,831
Retrofit	0.17	232	4,916
New Construction	0.48	656	13,879
DRYER			
TYPE	# of Rebates	Annual Therms	Annual kWh Avoided
Retention	0.22	141	1,991
Retrofit	0.19	122	1,720
New Construction	0.46	295	4,164
ALL APPLIANCES COMBINED			
TYPE	# of Rebates	Annual Therms	Annual kWh Avoided
Retention	2	6,301	128,343
Retrofit	1	2,420	54,649
New Construction	2	4,765	95,855

Multipliers	
Therms	Avoided kWh
4,681	90,885
4,681	90,885
4,681	90,885
3,496	87,921
3,496	87,921
3,496	87,921
1,376	17,396
1,376	17,396
1,376	17,396
1367	28915
1367	28915
1367	28915
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ST JOE

TANK WATER HEATER			
TYPE	# of Rebates	Annual Therms	Annual kWh Avoided
Retention	2.64	12,358	239,936
Retrofit	0.14	655	12,724
New Construction	1.3	6,085	118,151
TANKLESS WATER HEATER			
TYPE	# of Rebates	Annual Therms	Annual kWh Avoided
Retention	1.14	3,985	100,230
Retrofit	0.9	3,146	79,129
New Construction	0.75	2,622	65,941
FRYER			
TYPE	# of Rebates	Annual Therms	Annual kWh Avoided
Retention	0.54	743	9,394
Retrofit	0.24	330	4,175
New Construction	0.6	826	10,438
RANGE/OVEN			
TYPE	# of Rebates	Annual Therms	Annual kWh Avoided
Retention	1.02	1,394	29,493
Retrofit	0.34	465	9,831
New Construction	1.2	1,640	34,698
DRYER			
TYPE	# of Rebates	Annual Therms	Annual kWh Avoided
Retention	0.66	424	5,974
Retrofit	0.38	244	3,440
New Construction	1.15	738	10,410
ALL APPLIANCES COMBINED			
TYPE	# of Rebates	Annual Therms	Annual kWh Avoided
Retention	6	18,904	385,028
Retrofit	2	4,841	109,299
New Construction	5	11,912	239,637

Multipliers	
Therms	Avoided kWh
4,681	90,885
4,681	90,885
4,681	90,885

3,496	87,921
3,496	87,921
3,496	87,921

1,376	17,396
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SEBRING

TANK WATER HEATER			
TYPE	# of Rebates	Annual Therms	Annual kWh Avoided
Retention	1.76	8,239	159,958
Retrofit	0.14	655	12,724
New Construction	0.78	3,651	70,890
TANKLESS WATER HEATER			
TYPE	# of Rebates	Annual Therms	Annual kWh Avoided
Retention	0.76	2,657	66,820
Retrofit	0.9	3,146	79,129
New Construction	0.45	1,573	39,564
FRYER			
TYPE	# of Rebates	Annual Therms	Annual kWh Avoided
Retention	0.36	495	6,263
Retrofit	0.24	330	4,175
New Construction	0.36	495	6,263
RANGE/OVEN			
TYPE	# of Rebates	Annual Therms	Annual kWh Avoided
Retention	0.68	930	19,662
Retrofit	0.34	465	9,831
New Construction	0.72	984	20,819
DRYER			
TYPE	# of Rebates	Annual Therms	Annual kWh Avoided
Retention	0.44	282	3,983
Retrofit	0.38	244	3,440
New Construction	0.69	443	6,246
ALL APPLIANCES COMBINED			
TYPE	# of Rebates	Annual Therms	Annual kWh Avoided
Retention	4	12,603	256,685
Retrofit	2	4,841	109,299
New Construction	3	7,147	143,782

Multipliers	
Therms	Avoided kWh
4,681	90,885
4,681	90,885
4,681	90,885

3,496	87,921
3,496	87,921
3,496	87,921

1,376	17,396
1,376	17,396
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