CPS ENERGY
Quarterly STEP Report to the
CITY OF SAN ANTONIO

3rd QUARTER
FOR CPS ENERGY FISCAL YEAR 2016

Prepared November 2015

Executive Summary

Ordinance 2009-05-21-0399 authorizes the funding of the CPS Energy conservation and sustainability STEP (Save for Tomorrow Energy Plan) program. The STEP Program is a demand management program designed to encourage customers to improve the energy efficiency of their homes, buildings and processes, thereby saving electricity and reducing system demand. The goal of the program is to avoid 771 megawatts (MW) of demand growth between 2009 and 2020. The 771 MW is equivalent to the capacity of a large power plant. To put this into perspective, the CPS Energy Spruce 1 power plant has a generation capacity of 575 MW, and the newest Spruce 2 has a generation capacity of 750 MW of electricity.

In the short term, all customers will enjoy the benefits of a reduction in overall system fuel costs. Those participating proactively in the programs by installing high-efficiency air conditioning/heating units, installing Smart Thermostat programmable thermostats and home efficiency updates will lower their energy use and monthly bills. In the long term, customers will benefit from a delay in the need for additional generation capacity and the rate increases to support the additional capacity. In addition, approximately 52 contracting firms have participated in our commercial and industrial rebate programs, 678 contracting firms have participated in our residential rebate programs, and 26 contracting firms have participated in our solar rebate programs. This work benefits our local economy.

For the purpose of accountability and transparency, specific procedures have been outlined and noted in the City Ordinance that supports STEP. The quarterly reports are part of the accountability procedures used to assist City staff in evaluating the program in terms of savings and total costs, which are estimated at $849 million over the 11 year period. The annual cost ranges from $12.3 million to $90 million, approximately $8 million of which is currently recovered in the base rates, and the remaining amount is recovered through an adjustment in the fuel surcharge.

Since inception in CPS Energy FY2009, CPS Energy has quantified a cumulative demand reduction of approximately 352 MW or 352,486 kilowatts (kW)*.

Program Expectations

The use of demand side management energy programs such as STEP enables customers who participate directly in the program to lower their utility bills almost immediately. Those customers who do not directly participate still benefit in the short run because lower kilowatt per hour system usage will reduce overall system fuel costs and produce fuel savings to all customers. All customers benefit in the long term as CPS Energy will be able to postpone the need for building additional generation capacity and raising utility rates to finance the construction of new generation.

*Reduction is through FY2015. Reduction for FY2016 will be included after Measurement & Verification (M&V) results are available (approx. May 2016).

For FY2016 the goal is to reduce demand by 140 MW (140,416 kilowatts).

Another program expectation exhibited in the City Ordinance is the STEP Funding Accountability Procedures CPS Energy must follow. The procedures are listed below:

- All funds collected for STEP programs, either from base rates or through the fuel adjustment, must be accounted for separately.
- CPS Energy shall provide an annual report, prepared by an independent third party consultant, to the City which quantifies the kilowatt savings from STEP expenditures by customer class and other measures deemed necessary by the City.
- Based on the report provided and the amount of STEP expenditures determined to be eligible for recovery through the fuel adjustment, CPS Energy will calculate the annual kilowatt per hour charge. The report will be reviewed and approved by City staff before implementation of the kilowatt per hour charge.
- City staff will monitor the recovery through the fuel adjustment on a monthly basis. Annually, the amount of under or over recovery, if any, will be determined and the fuel adjustment will be adjusted accordingly to ensure that only the amount of eligible STEP expenditures are recovered.
- CPS Energy must maintain documentation of all STEP expenditures, by customer class and other measures deemed necessary by the City.
- CPS Energy shall provide quarterly reports to the City staff which show year to date STEP expenditures by program and customer class, funds accumulated and estimated kilowatt savings, and other measures deemed necessary by the City.
- Examples of detailed quarterly report information include but are not limited to the following: number of kilowatts saved by customer class and program type; the number of participants and contractors; geographic area and council district program activity; and, total costs/expenditures by program type.
- CPS Energy shall provide an annual report to the City which shows the incentive payments made as a result of the Commercial Demand Response program for the prior 12 months and other measures deemed necessary by the City.
- A quarterly report detailing information shall be made available to the public with sufficient protection regarding confidential information as deemed necessary by the City.

Funding Recovery

The total cost of the STEP Program during the 2009 to 2020 time period is estimated at $849 million with an annual cost ranging from $12.3 million to $90 million, of which approximately $8 million annually is to be recovered in base rates. The remaining annual amount would be recovered through an adjustment in the fuel surcharge. The cost recovery would begin in the following fiscal year and be subject to third party review and verification of incremental kilowatt reduction. Customers could offset the additional costs of these fuel surcharges by implementing some of the STEP energy efficiency measures.

The CPS Energy fiscal year runs from February 1st through January 31st, and the fiscal year is denoted by the year in which the fiscal year ends. For example, CPS Energy FY 2016 would be the period from February 1, 2015 through January 31, 2016.

Following is a synopsis of STEP recovery to date and the recoverable amounts for the recovery that started in July of 2015 for fiscal year ending in 2015 (FY2015):

Table 1:

Fiscal Year	Recoverable Amounts	Actual Recovery	Cumulative Over/(Under)
2009	$3,489,514	$4,060,315	$570,801
2010	$12,222,745	$13,942,711	$2,290,767
2011	$19,588,918	$19,907,374	$2,609,223
2012	$30,697,067	$27,495,601	$(592,243)
2013	$50,534,910	$51,158,184	$31,031
2014	$55,407,519	$54,838,828	$(537,660)
2015	$58,977,341	TBD(Jul15-Jun16)	TBD

For the calculations of the adjustments to the fuel surcharge listed below, a majority of the Over Recovery was taken into account, and the remaining amounts will be taken into account when the FY 2016 fuel surcharge adjustment is calculated.

FY	Incremental STEP Cost	Recovery Period	Residential Impact per 1000 kWh STEP
2009	$3.5M	Jul09-Jul10*	$0.21
2010	$11.7M	Aug10-Jul11*	$0.77
2011	$17.4M	Aug11-Jul12*	$1.09
2012	$28.2M	Aug12-Jun13	$1.74
2013	$50.8M	Jul13-Jun14	$2.78
2014	$55.0M	Jul14-Jun15	$3.00
2015	$58.4M	Jul15-Jun16	$3.10

*Note: Recovery Period for FY 2009, originally Jul09-Jun10, was extended thru Jul10 for Annual Report compilation & both CPS Energy and City staff evaluation.
Recovery Period for FY 2010, originally Aug10-Jun11, was extended thru Jul11 for Annual Report compilation & both CPS Energy and City staff evaluation.
Recovery Period for FY 2011, originally Aug11-Jun12, was extended thru Jul12 for Annual Report compilation & both CPS Energy and City staff evaluation.

As noted in table 1 above, a new STEP recovery factor was implemented in July 2015, with recovery going through June 2016. This recovery factor was based on the CPS Energy FY2015 STEP expenditures of $67,727,810. Removing the base rate recovery, the recoverable amount for FY2015 was $58,977,341.

Residential Programs

HVAC Program – offers incentives for the purchase of eligible high efficiency central air conditioners, heat pumps and room air conditioners.

Home Efficiency Program – targets a wide range of energy efficiency measures that save cooling and heating energy in existing homes.

Air Flow Program – offers incentives for repair and/or replacement of duct work to improve the overall efficiency of heating and cooling system.

Smart Thermostat Program – a residential air-conditioner demand response control program. CPS Energy will install a free Honeywell programmable thermostat in participating customers' homes when they enroll in the program. CPS Energy uses the thermostat to cycle off the compressor of participating air conditioners during periods of peak demand throughout the summer (May – September).

Nest Thermostat Program – CPS Energy has teamed up with Nest to offer customers the Nest Learning Thermostat that actually learns their temperature preferences to program itself and automatically adjust to an energy efficient temperature when they're away.

Home Manager – Is an innovative home energy management system, designed by Consert, Inc. Load control devices are placed on a participant's air conditioner, water heater and pool pump where applicable. A gateway, which is the brain of the Home Manager system, uses a wireless network to relay information between a CPS Energy data center and the system devices installed in the home.

ThinkEco Window AC Program – a load reduction program which allows residents better control of their window air conditioner energy use. As part of the program, participants receive a free smartAC kit that communicates with their window unit(s) to turn it on/off based on desired room temperature.

Solar Photovoltaic & Water Heaters – offers incentives for the installation of both solar photovoltaic systems and solar water heaters.

New Residential Construction – offers incentives to developers to build at least 15% more energy efficient than current CoSA building codes.

Refrigerator Recycling – offers incentives to homeowners to recycle old/extra refrigerators and freezers to remove inefficient appliances from use.

Lighting Program – CPS Energy is beginning the transition from CFL to the more efficient LED as the cost of light emitting diodes and related technology become financially feasible as an energy efficiency measure. CPS Energy entered a partnership with HEB that substantially reduced the cost of 200,000 LED bulbs to CPS Energy customers for a successful one week program.

Weatherization - Is an assistance program designed to help families in need reduce their monthly utility bills. Eligible participants, whether they are homeowners or renters, may receive free weatherization upgrades designed to increase the energy efficiency of their homes.

Commercial Programs

Lighting Program – offers incentives to customers who install efficient lighting in their facilities. Incentives are offered for both retrofit and new construction projects.

HVAC Program – offers incentives for the installation of high efficiency unitary AC equipment, heat pump and chillers.

Solar Photovoltaic & Water Heaters – offers incentives for the installation of both solar photovoltaic systems and solar water heaters.

New Commercial Construction – offers incentives to developers to build at least 15% more energy efficient than current CoSA building codes.

Commercial Custom – provides a comprehensive platform for cost–effective efficiency measures not addressed by the other commercial rebate offerings.

CPS Energy FY 2016 3rd Quarter STEP Report

Attachment A illustrates the kW reduction and dollars expended for the various commercial and residential efficiency and demand response programs. The data are presented for the 3rd Quarter only. Since the fiscal year for CPS Energy runs from February 1 to January 31, the 3rd Quarter covers August 1, 2015 through October 31, 2015.

Attachment B shows the 3rd Quarter rebate dollars broken down by City Council District. The table shows the numerical data, and the charts are a graphical representation of the numerical data. The Weatherization dollars included only represent the cost of the measures installed. This attachment does not include Smart Thermostat, Home Manager or Demand Response installations, as these are demand response programs and not energy efficiency per se, nor does it include New Home Construction installations as these rebates are provided directly to home builders and not to individual customer accounts.

Attachment C shows the 3rd Quarter number of rebates broken down by City Council District. The table shows the numerical values, and the charts are a graphical representation of the numerical data. This attachment does not include Smart Thermostat, Home Manager or Demand Response installations, as these are demand response programs and not energy efficiency per se, nor does it include New Home Construction installations as these rebates are provided directly to home builders and not to individual customer accounts.

Attachment D shows the cumulative rebate dollars broken down by City Council District. The table shows the numerical data, and the charts are a graphical representation of the numerical data. The Weatherization dollars included only represent the cost of the measures installed. This attachment does not include Smart Thermostat, Home Manager or Demand Response installations, as these are demand response programs and not energy efficiency per se, nor does it include New Home Construction installations as these rebates are provided directly to home builders and not to individual customer accounts.

Attachment E shows the cumulative number of rebates broken down by City Council District. The table shows the numerical values, and the charts are a graphical representation of the numerical data. This attachment does not include Smart Thermostat, Home Manager or Demand Response installations, as these are demand response programs and not energy efficiency per se, nor does it include New Home Construction installations as these rebates are provided directly to home builders and not to individual customer accounts.

Attachment F illustrates the cumulative rebate locations overlaid on a map of Bexar County and the City Council Districts. As with Attachments B – E, Smart Thermostat and Home Manager installations are not included in the data, as these are demand response and not an energy rebate program.

Attachment G illustrates the cumulative rebate locations overlaid on the various census tract income segments.

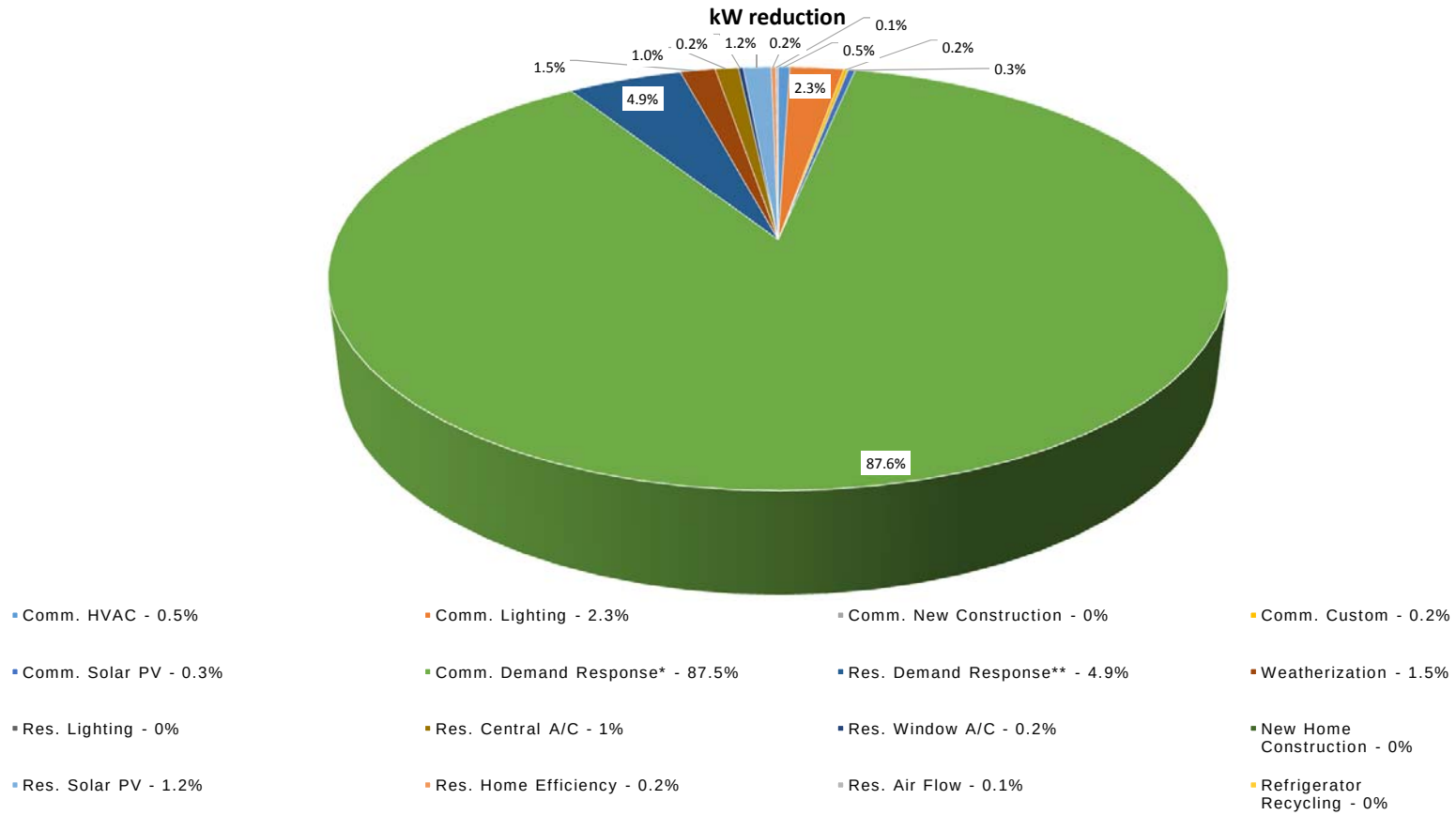
Attachment - A

3rd Quarter
Energy Efficiency & Demand Response Summary
Aug 1, 2015 - Oct 31, 2015

	Comm. HVAC	Comm. Lighting	Comm. New Construction	Comm. Custom	Comm. Solar PV	Comm. Demand Response*	Res. Demand Response**	Weatherization	Res. Lighting	Res. Central A/C	Res. Window A/C	New Home Construction	Res. Solar PV	Res. Home Efficiency	Res. Air Flow	Refrigerator Recycling	**Total**
kW reduction	611.13	2,794.17	0.00	238.90	383.86	106,977.00	6,004.94	1,889.31	0.00	1,264.50	234.70	22.00	1,442.80	265.19	92.64	17.43	**122,239**
Rebate Dollars	$538,395	$2,194,259	$0	$177,409	$461,727	$525,166	$2,754,840	$4,501,594	$0	$1,111,568	$132,450	$19,500	$2,286,776	$263,897	$221,685	$11,665	**$15,200,931**

*Includes C&I, Emergency and Auto Demand Response Programs

**Includes Home Manager, Smart Thermostat, Nest, and ThinkEco Programs



RESULTS HAVE NOT BEEN AUDITED. FINANCIAL INFORMATION CONTAINED WITHIN THE STEP QUARTERLY REPORT SOLELY REFLECTS THE DIRECT PROGRAM EXPENDITURES ALLOCATED IN ACCORDANCE WITH CPS ENERGY CUSTOMER DEMAND. THIS FINANCIAL INFORMATION IS ONLY A PORTION OF THE TOTAL STEP EXPENDITURES. ACTUAL STEP EXPENDITURES, CONFIRMED BY AN INDEPENDENT THIRD-PARTY, ARE STATED WITHIN THE ANNUAL STEP MEASUREMENT AND VERIFICATION (M&V) REPORT. THE INFORMATION AND DATA PROVIDED ON THE REPORT ARE PROVIDED FOR REFERENCE PURPOSES ONLY AND ARE PROVIDED TO THE USER OF THIS REPORT "AS IS" WITHOUT ANY WARRANTIES OF ANY TYPE, EXPRESS OR IMPLIED.

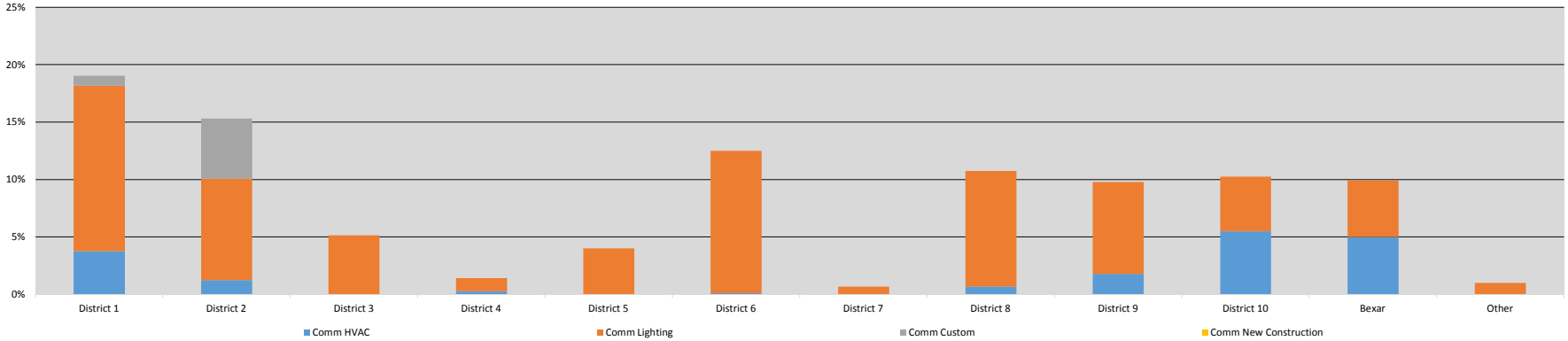
Attachment - B

3rd Quarter
Aug 1, 2015 - Oct 31, 2015
Rebates $ by Council District

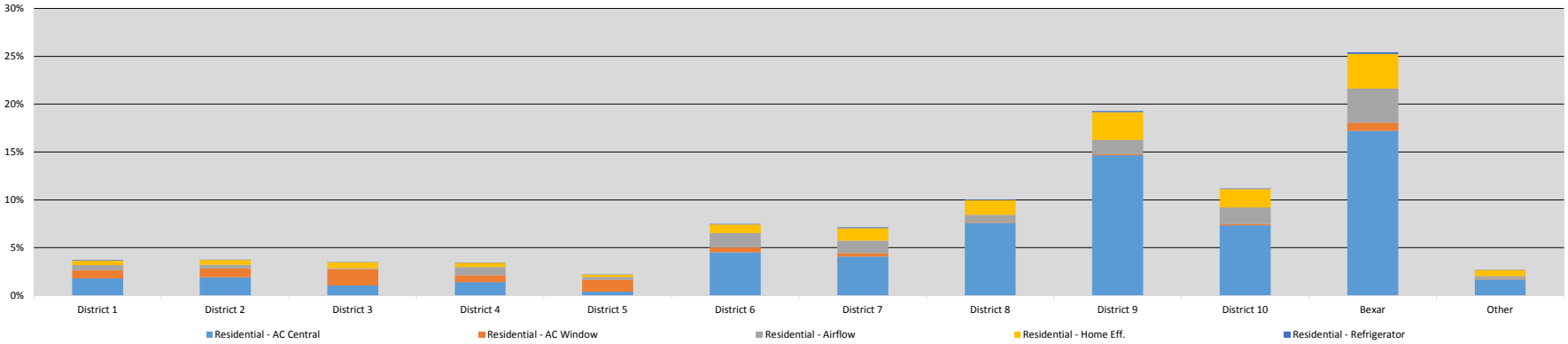
Rebate Dollars ($)	District 1	District 2	District 3	District 4	District 5	District 6	District 7	District 8	District 9	District 10	Bexar	Other	Total
Comm. HVAC	$ 109,665	$ 37,065	$ -	$ 8,550	$ -	$ 3,825	$ -	$ 20,383	$ 52,308	$ 160,500	$ 146,100		$ 538,395
Comm. Lighting	$ 419,562	$ 256,399	$ 150,442	$ 33,304	$ 117,151	$ 360,008	$ 20,389	$ 292,956	$ 232,690	$ 138,115	$ 143,515	$ 29,729	$ 2,194,259
Comm. Custom	$ 25,255	$ 152,154	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 177,409
Comm. New Construction	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Comm. Solar PV	$ 80,000	$ 80,000	$ 160,000	$ -	$ -	$ -	$ -	$ 141,727	$ -	$ -	$ -	$ -	$ 461,727
Commercial Total	**$ 634,482**	**$ 525,618**	**$ 310,442**	**$ 41,854**	**$ 117,151**	**$ 363,832**	**$ 20,389**	**$ 455,066**	**$ 284,998**	**$ 298,615**	**$ 289,615**	**$ 29,729**	**$ 3,371,791**
Res. AC Central	$ 31,743	$ 33,565	$ 18,770	$ 24,665	$ 6,988	$ 78,873	$ 71,253	$ 132,465	$ 255,395	$ 128,238	$ 299,975	$ 29,640	$ 1,111,568
Res. AC Window	$ 14,800	$ 15,950	$ 29,950	$ 12,750	$ 21,700	$ 8,850	$ 6,050	$ 2,000	$ 2,100	$ 2,600	$ 14,700	$ 1,000	$ 132,450
Res. Airflow	$ 9,370	$ 6,500	$ 1,225	$ 14,665	$ 5,433	$ 26,500	$ 22,635	$ 12,600	$ 26,025	$ 29,715	$ 62,283	$ 4,735	$ 221,685
Res. Home Efficiency	$ 8,267	$ 9,264	$ 10,996	$ 7,942	$ 4,110	$ 15,520	$ 22,685	$ 26,795	$ 50,517	$ 33,610	$ 62,694	$ 11,496	$ 263,897
Refrigerator Recycling	$ 625	$ 330	$ 430	$ 395	$ 165	$ 660	$ 1,760	$ 1,030	$ 1,890	$ 765	$ 3,420	$ 195	$ 11,665
Res. Solar PV	$ 22,169	$ 61,211	$ 56,553	$ 51,443	$ 23,734	$ 155,701	$ 119,561	$ 159,164	$ 194,051	$ 33,643	$ 1,233,334	$ 176,212	$ 2,286,776
Weatherization*	$ 676,581	$ 607,337	$ 845,059	$ 353,774	$ 936,829	$ 311,324	$ 386,635	$ 35,949	$ 15,580	$ 96,673	$ 224,226	$ 11,627	$ 4,501,594
Residential Total	**$ 763,555**	**$ 734,157**	**$ 962,983**	**$ 465,634**	**$ 998,958**	**$ 597,427**	**$ 630,579**	**$ 370,003**	**$ 545,558**	**$ 325,244**	**$ 1,900,632**	**$ 234,905**	**$ 8,529,634**
Total	**$ 1,398,037**	**$ 1,259,774**	**$ 1,273,425**	**$ 507,488**	**$ 1,116,109**	**$ 961,260**	**$ 650,968**	**$ 825,069**	**$ 830,556**	**$ 623,858**	**$ 2,190,247**	**$ 264,634**	**$ 11,901,425**

*Weatherization dollars include only the installation cost of weatherization measures in the home

Commercial Rebates ($) by Council District w/o Solar



Residential Rebates ($) by Council District w/o Solar & Weatherization

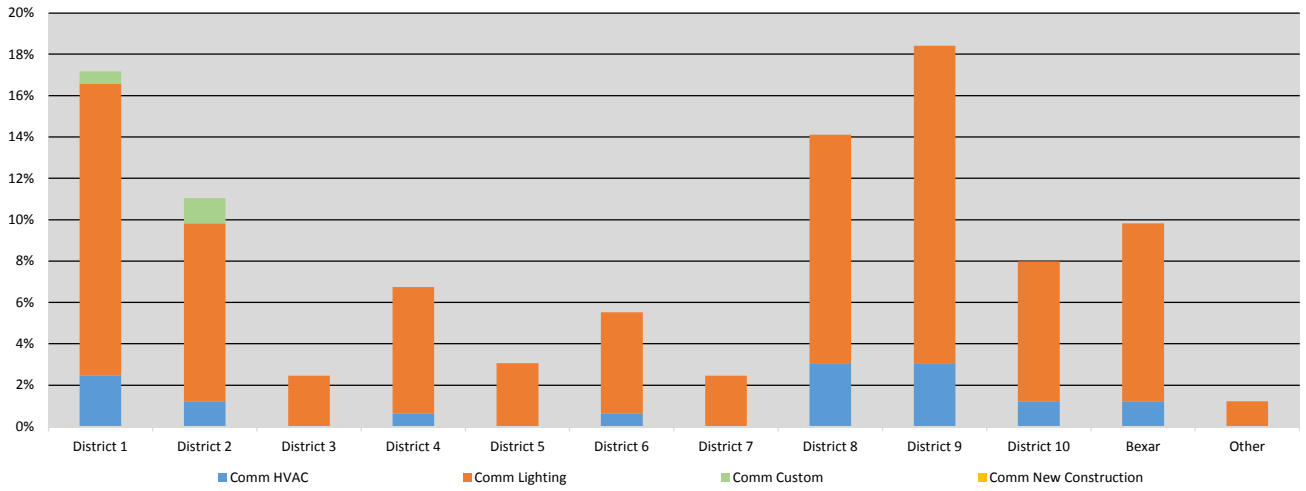


Attachment - C

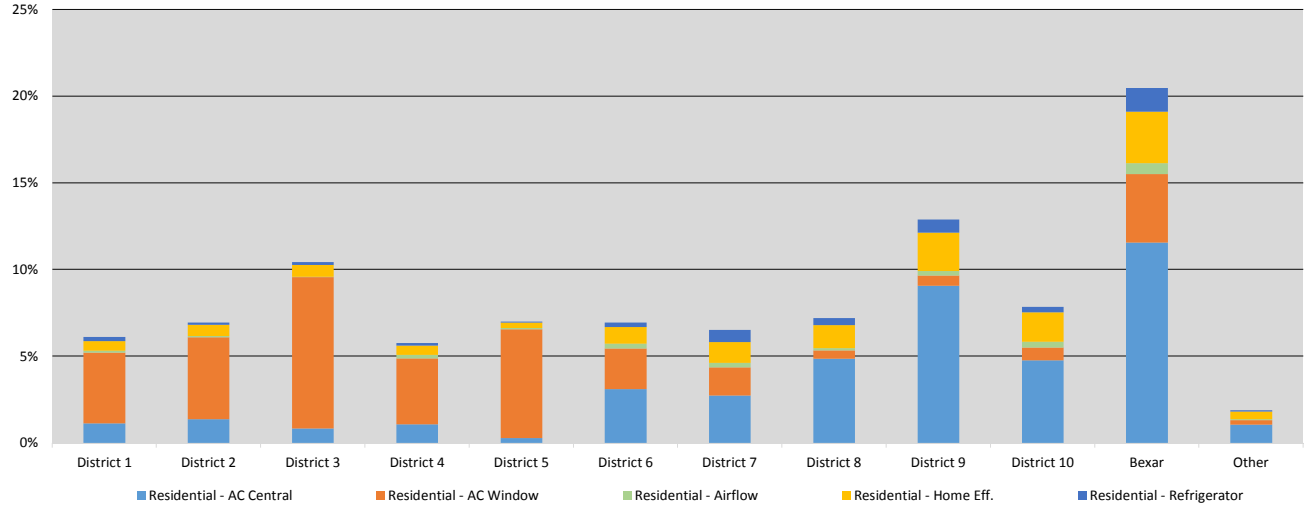
3rd Quarter
Rebates by Council District Summary
Aug 1, 2015 - Oct 31, 2015

	District 1	District 2	District 3	District 4	District 5	District 6	District 7	District 8	District 9	District 10	Bexar	Other Counties	Total
Comm. HVAC	4	2	0	1	0	1	0	5	5	2	2	0	22
Comm. Lighting	23	14	4	10	5	8	4	18	25	11	14	2	138
Comm. Custom	1	2	0	0	0	0	0	0	0	0	0	0	3
Comm. New Construction	0	0	0	0	0	0	0	0	0	0	0	0	0
Comm. Solar PV	1	1	2	0	0	0	0	7	0	0	0	0	11
Commercial Total	**29**	**19**	**6**	**11**	**5**	**9**	**4**	**30**	**30**	**13**	**16**	**2**	**174**
Res. AC Central	55	66	40	52	14	150	132	235	438	230	558	51	2,021
Res. AC Window	197	228	422	184	303	113	79	23	28	36	191	13	1,817
Res. Airflow	5	4	1	9	3	14	12	6	13	16	30	2	115
Res. Home Efficiency	27	31	33	26	15	46	58	64	107	82	144	22	655
Refrigerator Recycling	11	6	8	7	3	12	34	20	36	15	66	3	221
Res. Solar PV	2	7	3	4	2	16	10	13	18	6	128	13	222
Weatherization	137	141	175	113	190	99	91	11	7	33	86	3	1,086
Residential Total	**434**	**483**	**682**	**395**	**530**	**450**	**416**	**372**	**647**	**418**	**1,203**	**107**	**6,137**
Total	**463**	**502**	**688**	**406**	**535**	**459**	**420**	**402**	**677**	**431**	**1,219**	**109**	**6,311**

Commercial Rebates per Council District w/o Solar



Residential Rebates per Council District w/o Solar & Weatherization

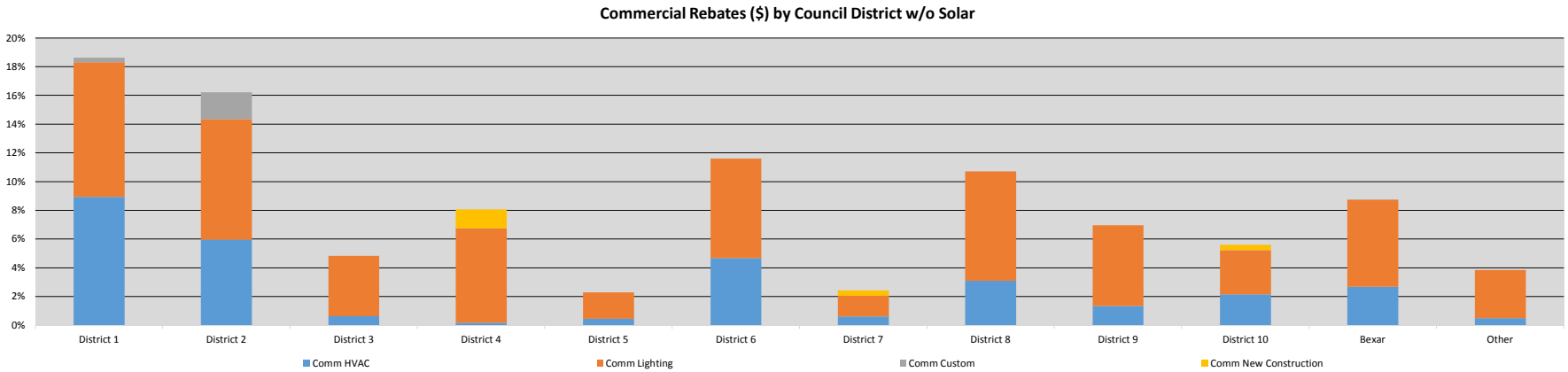


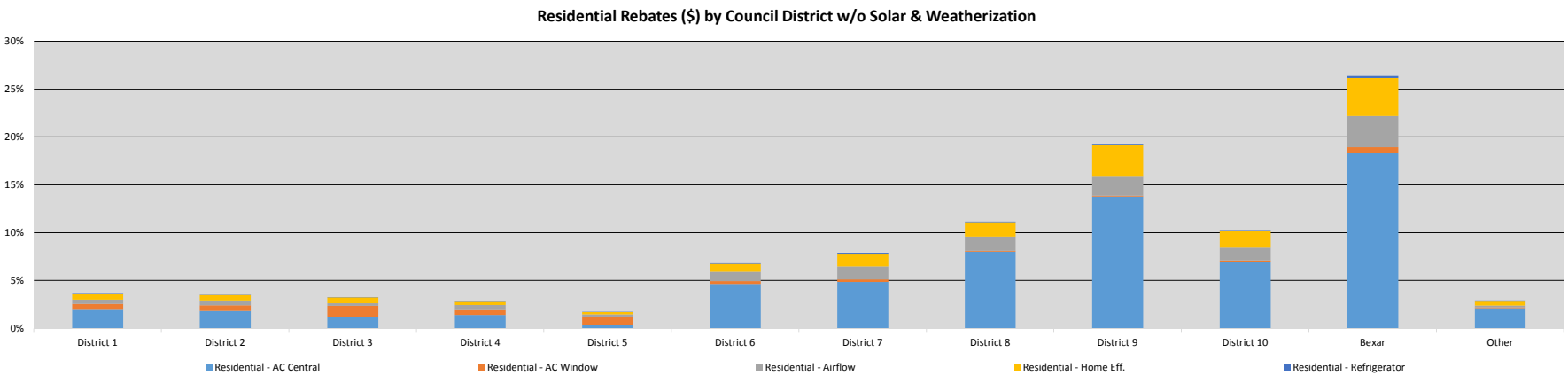
Attachment - D

Cumulative
Feb 1, 2015 - Oct 31, 2015
Rebates $ by Council District

Rebate Dollars ($)	District 1	District 2	District 3	District 4	District 5	District 6	District 7	District 8	District 9	District 10	Bexar	Other	Total
Comm. HVAC	$ 730,633	$ 487,065	$ 52,815	$ 14,576	$ 37,860	$ 383,425	$ 50,048	$ 253,763	$ 110,186	$ 175,627	$ 219,420	$ 40,526	$ 2,555,942
Comm. Lighting	$ 767,290	$ 686,811	$ 342,638	$ 537,787	$ 149,060	$ 565,053	$ 118,130	$ 623,052	$ 459,412	$ 252,450	$ 495,647	$ 273,984	$ 5,271,315
Comm. Custom	$ 25,255	$ 152,154	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 2,056	$ -	$ 179,465
Comm. New Construction	$ -	$ -	$ -	$ 107,818	$ -	$ -	$ 30,743	$ -	$ -	$ 30,743	$ -	$ -	$ 169,304
Comm. Solar PV	$ 182,733	$ 320,000	$ 178,673	$ -	$ -	$ 228,880	$ -	$ 141,727	$ -	$ 154,889	$ 142,490	$ 41,655	$ 1,391,047
Commercial Total	**$ 1,705,911**	**$ 1,646,030**	**$ 574,126**	**$ 660,181**	**$ 186,920**	**$ 1,177,358**	**$ 198,921**	**$ 1,018,542**	**$ 569,598**	**$ 613,708**	**$ 859,613**	**$ 356,165**	**$ 9,567,073**
Res. AC Central	$ 84,165	$ 78,743	$ 51,298	$ 61,143	$ 16,236	$ 201,188	$ 210,608	$ 347,435	$ 595,290	$ 302,648	$ 792,758	$ 92,718	$ 2,834,228
Res. AC Window	$ 26,800	$ 25,650	$ 50,500	$ 21,900	$ 36,800	$ 12,500	$ 11,150	$ 2,850	$ 3,850	$ 4,800	$ 25,900	$ 2,700	$ 225,400
Res. Airflow	$ 19,745	$ 22,125	$ 12,725	$ 23,525	$ 10,558	$ 42,755	$ 58,015	$ 64,881	$ 85,780	$ 57,243	$ 140,224	$ 8,485	$ 546,060
Res. Home Efficiency	$ 26,982	$ 24,591	$ 26,709	$ 17,667	$ 10,356	$ 35,990	$ 58,864	$ 65,010	$ 143,487	$ 77,237	$ 171,494	$ 21,224	$ 679,611
Refrigerator Recycling	$ 2,280	$ 1,390	$ 1,160	$ 1,580	$ 855	$ 1,625	$ 3,810	$ 3,115	$ 5,675	$ 2,745	$ 9,050	$ 425	$ 33,710
Res. Solar PV	$ 104,505	$ 117,041	$ 108,559	$ 105,453	$ 23,734	$ 303,539	$ 296,547	$ 314,095	$ 471,423	$ 187,461	$ 2,831,911	$ 354,518	$ 5,218,787
Weatherization*	$ 1,506,575	$ 1,725,931	$ 1,908,654	$ 1,274,862	$ 2,549,443	$ 852,354	$ 932,984	$ 58,960	$ 67,305	$ 203,021	$ 628,370	$ 17,668	$ 11,726,129
Residential Total	**$ 1,771,053**	**$ 1,995,470**	**$ 2,159,605**	**$ 1,506,131**	**$ 2,647,981**	**$ 1,449,951**	**$ 1,571,978**	**$ 856,345**	**$ 1,372,809**	**$ 835,155**	**$ 4,599,708**	**$ 497,738**	**$ 21,263,924**
Total	**$ 3,476,964**	**$ 3,641,501**	**$ 2,733,731**	**$ 2,166,311**	**$ 2,834,901**	**$ 2,627,309**	**$ 1,770,899**	**$ 1,874,887**	**$ 1,942,407**	**$ 1,448,862**	**$ 5,459,320**	**$ 853,903**	**$ 30,830,997**

*Weatherization dollars include only the installation cost of weatherization measures in the home



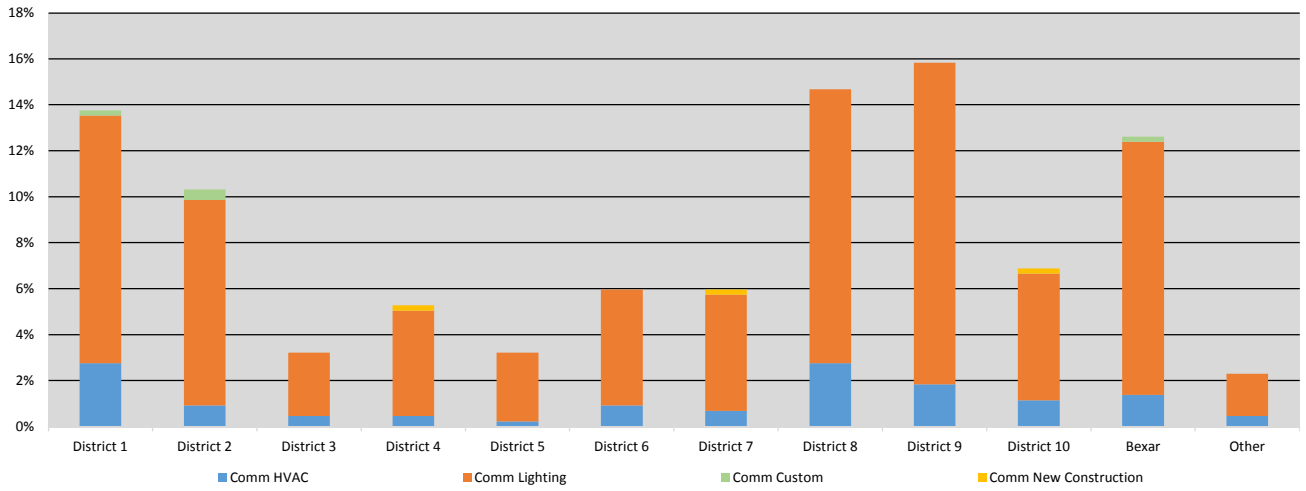


Attachment - E

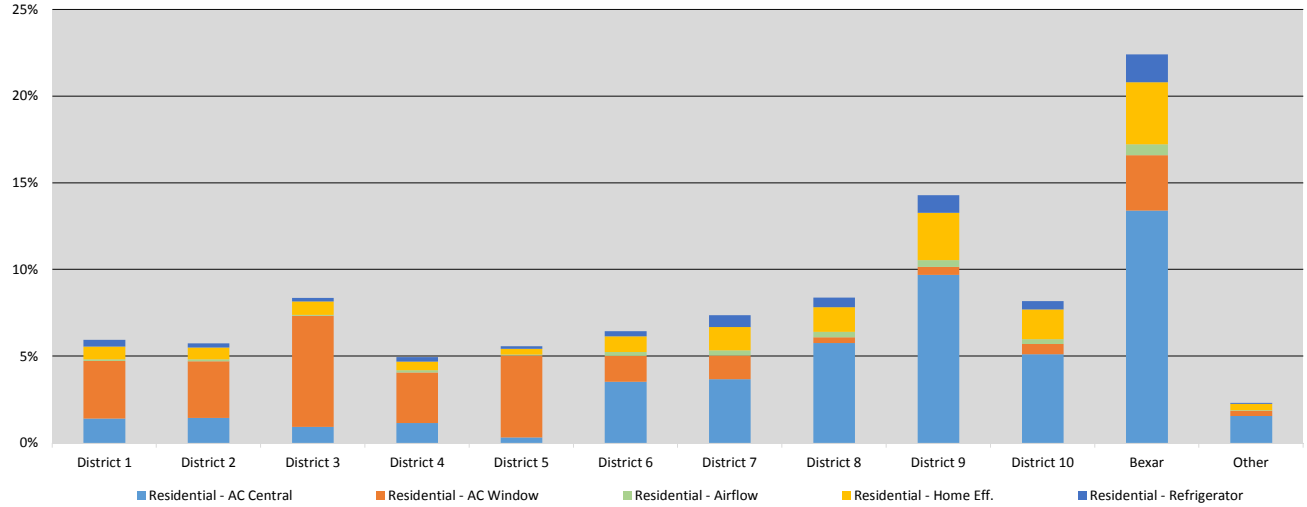
Cumulative
Rebates by Council District Summary
Feb 1, 2015 - Oct 31, 2015

	District 1	District 2	District 3	District 4	District 5	District 6	District 7	District 8	District 9	District 10	Bexar	Other Counties	Total
Comm. HVAC	12	4	2	2	1	4	3	12	8	5	6	2	61
Comm. Lighting	47	39	12	20	13	22	22	52	61	24	48	8	368
Comm. Custom	1	2	0	0	0	0	0	0	0	0	1	0	4
Comm. New Construction	0	0	0	1	0	0	1	0	0	1	0	0	3
Comm. Solar PV	3	4	3	0	0	4	0	7	0	0	9	1	31
Commercial Total	**63**	**49**	**17**	**23**	**14**	**30**	**26**	**71**	**69**	**30**	**64**	**11**	**467**
Res. AC Central	151	155	100	124	34	379	395	618	1,040	549	1,439	167	5,151
Res. AC Window	356	350	686	312	508	160	147	36	50	63	341	32	3,041
Res. Airflow	10	13	7	14	6	24	30	34	41	30	68	4	281
Res. Home Efficiency	80	73	82	54	35	97	146	152	293	185	385	39	1,621
Refrigerator Recycling	42	26	22	28	15	31	72	59	109	51	172	7	634
Res. Solar PV	8	14	7	9	2	33	26	34	44	20	296	29	522
Weatherization	316	431	396	373	542	262	229	20	26	79	261	7	2,942
Residential Total	**963**	**1,062**	**1,300**	**914**	**1,142**	**986**	**1,045**	**953**	**1,603**	**977**	**2,962**	**285**	**14,192**
Total	**1,026**	**1,111**	**1,317**	**937**	**1,156**	**1,016**	**1,071**	**1,024**	**1,672**	**1,007**	**3,026**	**296**	**14,659**

Commercial Rebates per Council District w/o Solar



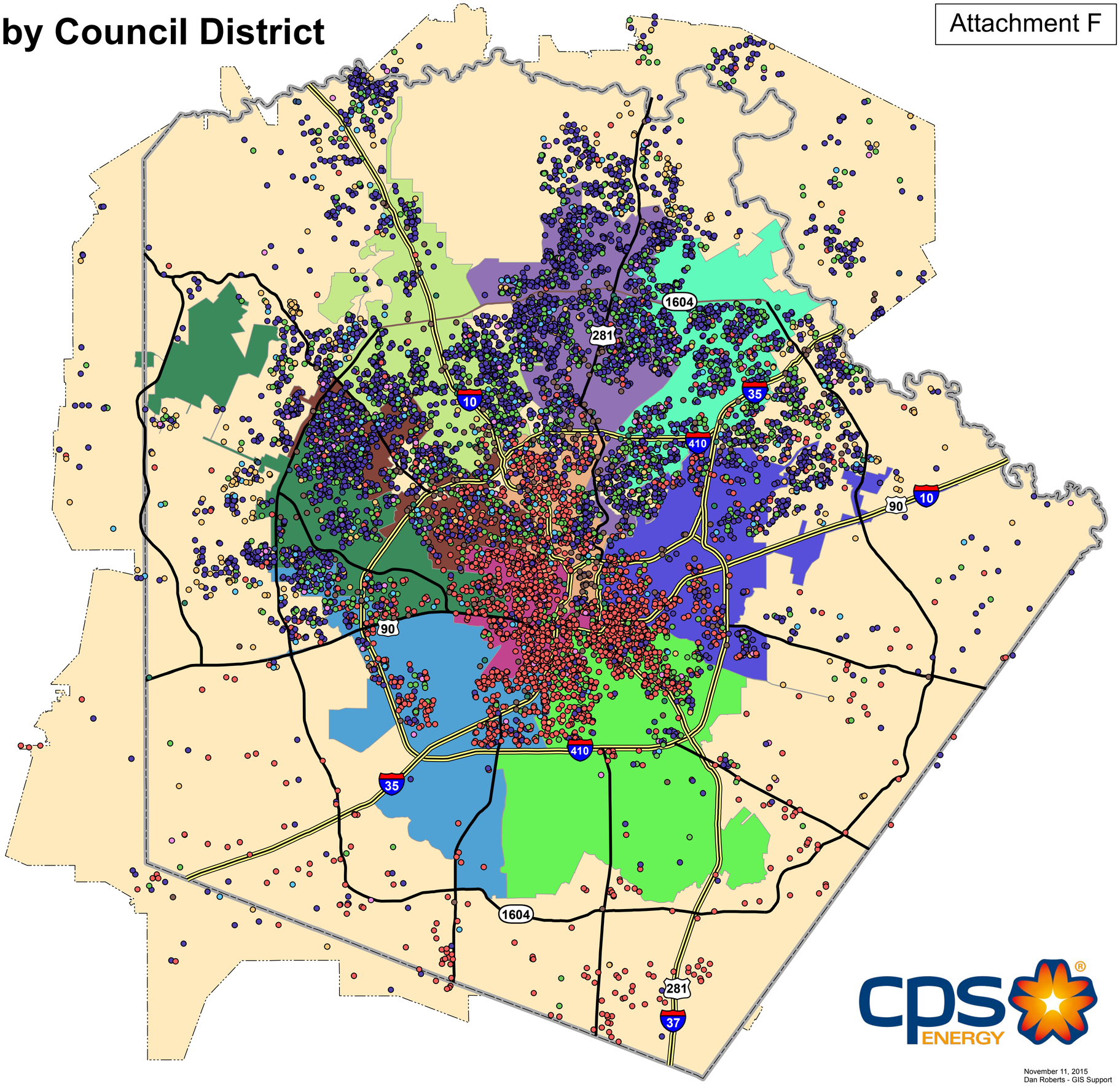
Residential Rebates per Council District w/o Solar & Weatherization



Rebate Locations by Council District

3rd Quarter 2016

Attachment F



STEP Customers

- Res Central AC
- Res Home Efficiency
- Res Window Units
- Res Ref Recycling
- Res Solar PV
- Res Air Flow
- Comm Lighting
- Comm HVAC
- Comm Solar PV
- Res SWH
- DowntownNetworkBoundary
- Bexar County Boundary
- CPS Energy Service Area

City Council Districts

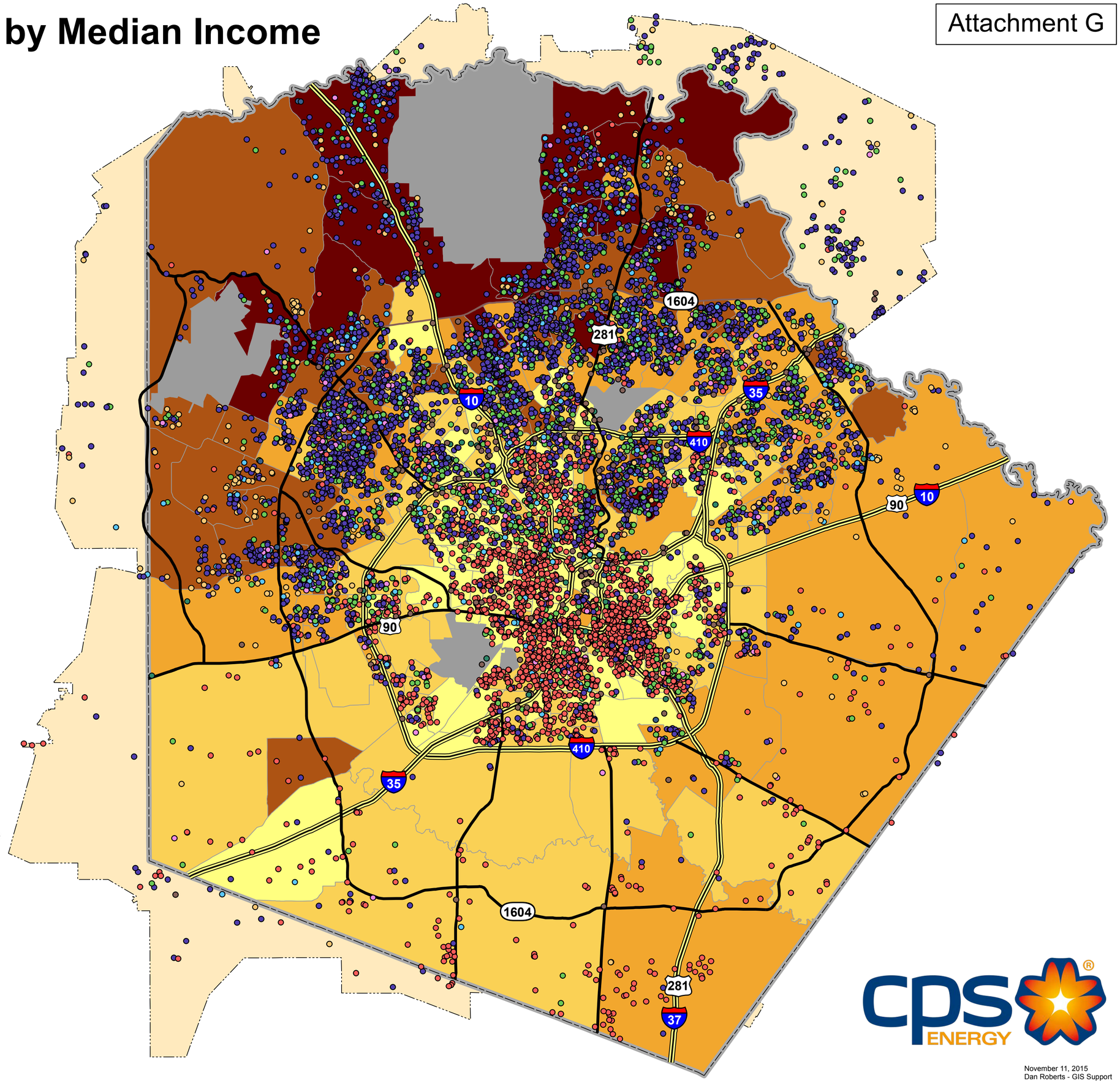
- DowntownNetworkBoundary
- 01
- 02
- 03
- 04
- 05
- 06
- 07
- 08
- 09
- 10

November 11, 2015
Dan Roberts - GIS Support

Rebate Locations by Median Income

3rd Quarter 2016

Attachment G



STEP Customers

- Res Central AC
- Res Home Efficiency
- Res Window Units
- Res Ref Recycling
- Res Solar PV
- Res Air Flow
- Comm Lighting
- Comm HVAC
- Comm Solar PV
- Res SWH

Bexar County Boundary

CPS Energy Service Area

Bexar County Median Income

Source: ACS Census 2011 5yr

- 10,000 - 30,000
- 30,000 - 50,000
- 50,000 - 70,000
- 70,000 - 100,000
- 100,000 - 200,000+
- No Data

November 11, 2015
Dan Roberts - GIS Support