



Customer Energy Solutions

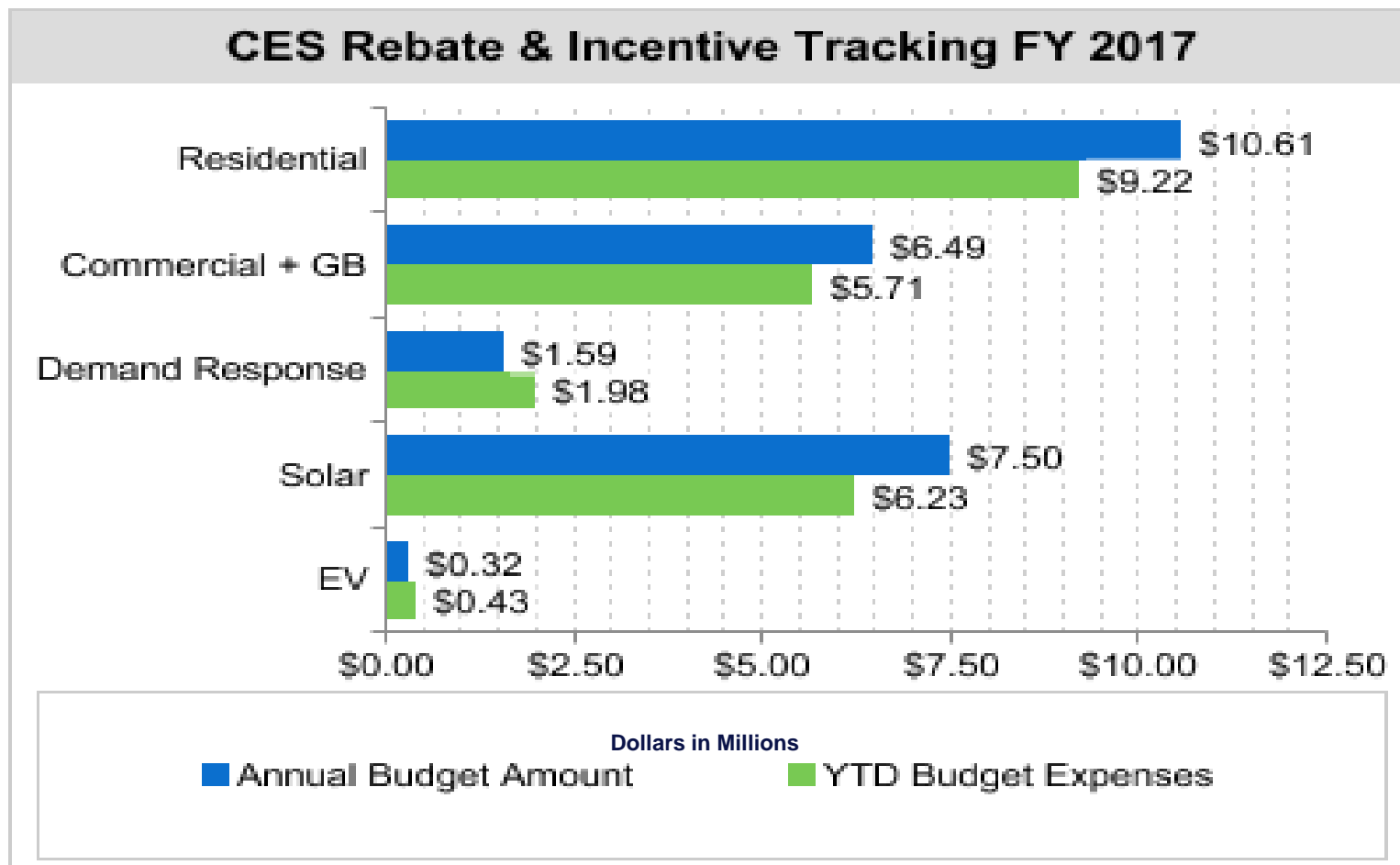
Program Update

as of September 30, 2017





CES Rebate & Incentive Tracking FY 2017 Oct-Sep

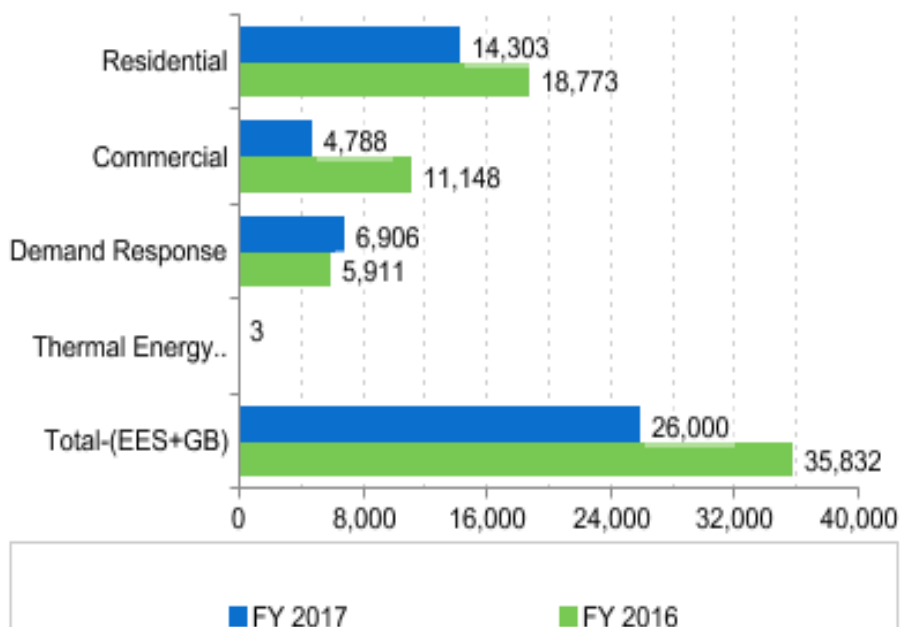


Source:
RMC Report as of 10/10/17
eCombs as of 10/11/17 Based on unaudited numbers



Participation & MW Savings FY 2017 Oct-Sep

Overall Participation



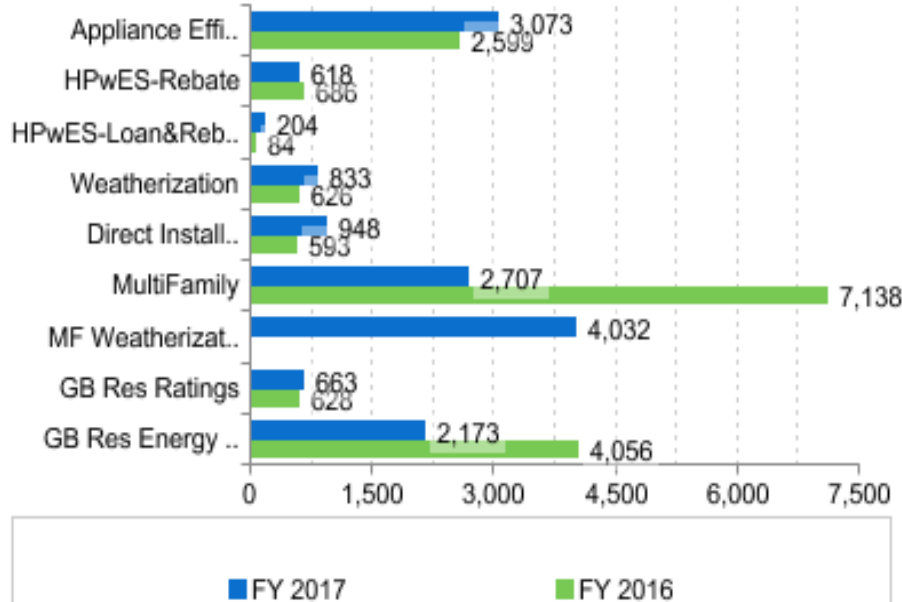
Total MW Savings FY 2017



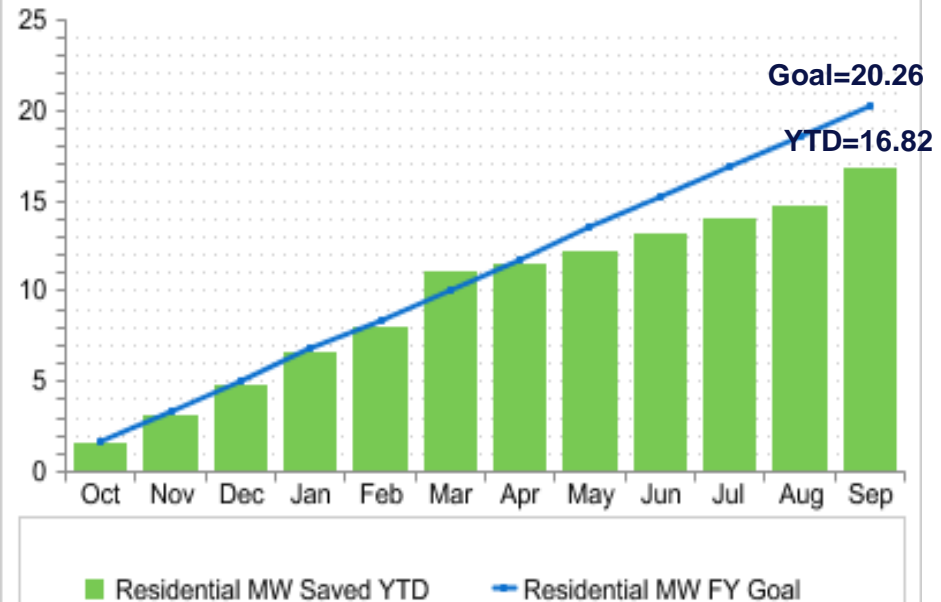


Participation & MW Savings FY 2017 Oct-Sep

Residential Participation



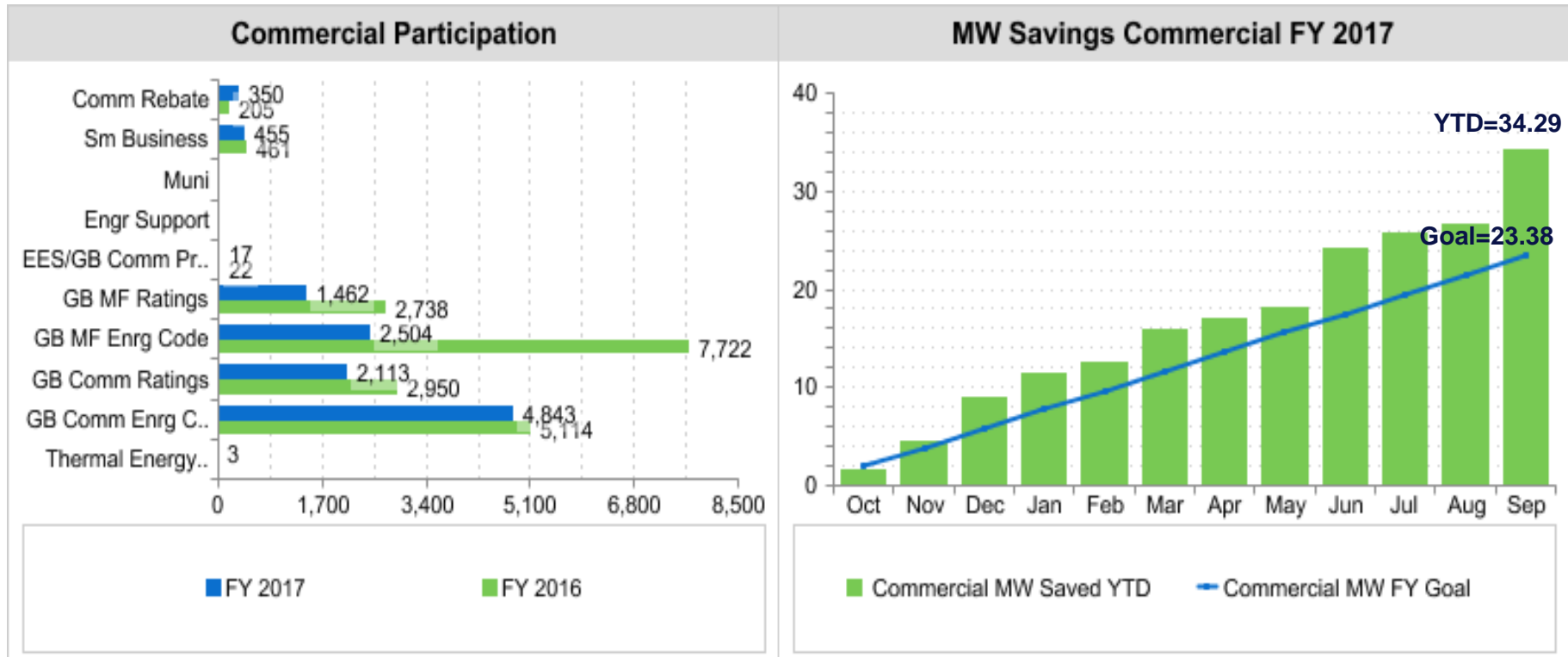
MW Savings Residential FY 2017



Residential -Strategic Partnership between Utilities and
Retailers (SPUR)- FY 2017=266,044
FY 2016=219,530



Participation & MW Savings FY 2017 Oct-Sep



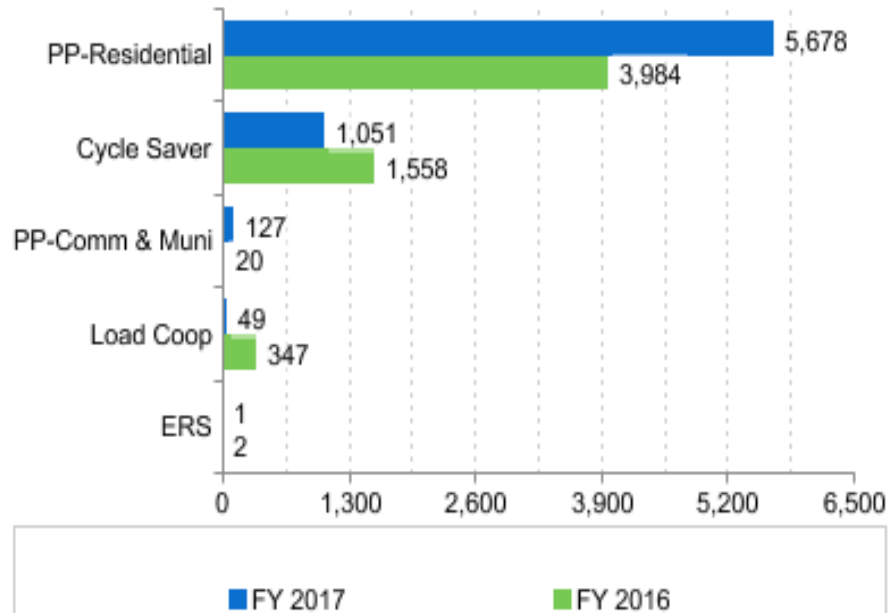
GB(Green Building) Commercial Ratings and GB Energy Code participation is in "1000's square feet"
GB MF(Multi Family) Energy Code participation is in number of dwelling units

Commercial + Thermal Energy Storage
Commercial Goal=23.18
Thermal Energy Storage Goal=0.20
Total Goal=23.38

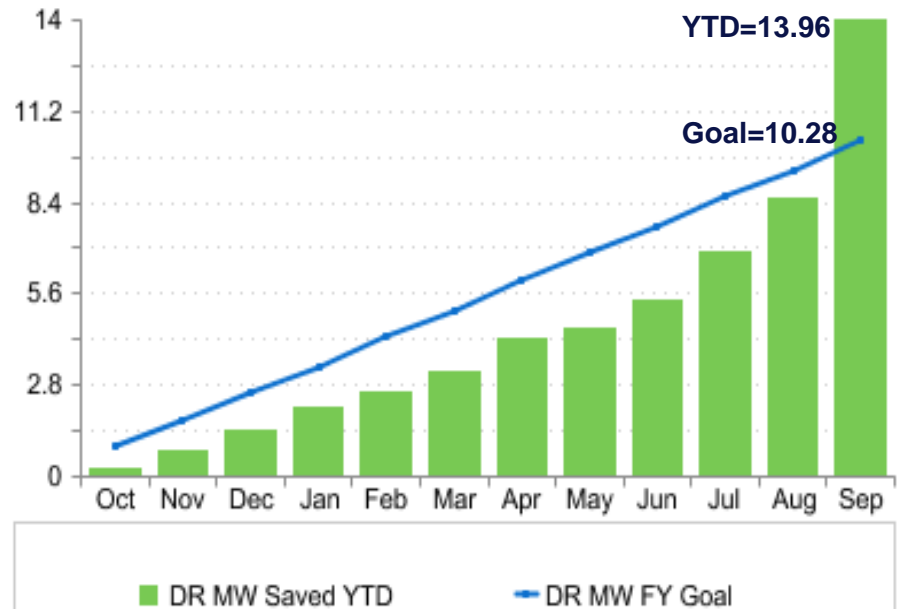


Participation & MW Savings FY 2017 Oct-Sep

Demand Response Participation



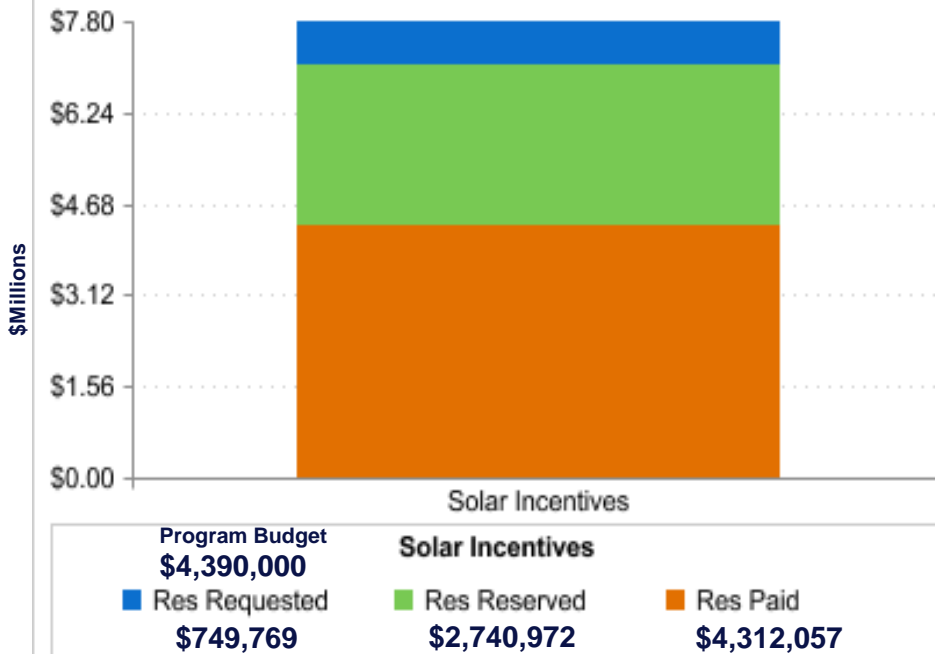
MW Savings Demand Response FY 2017





Solar Rebates & MW Tracking FY 2017 Oct-Sep

Solar Residential



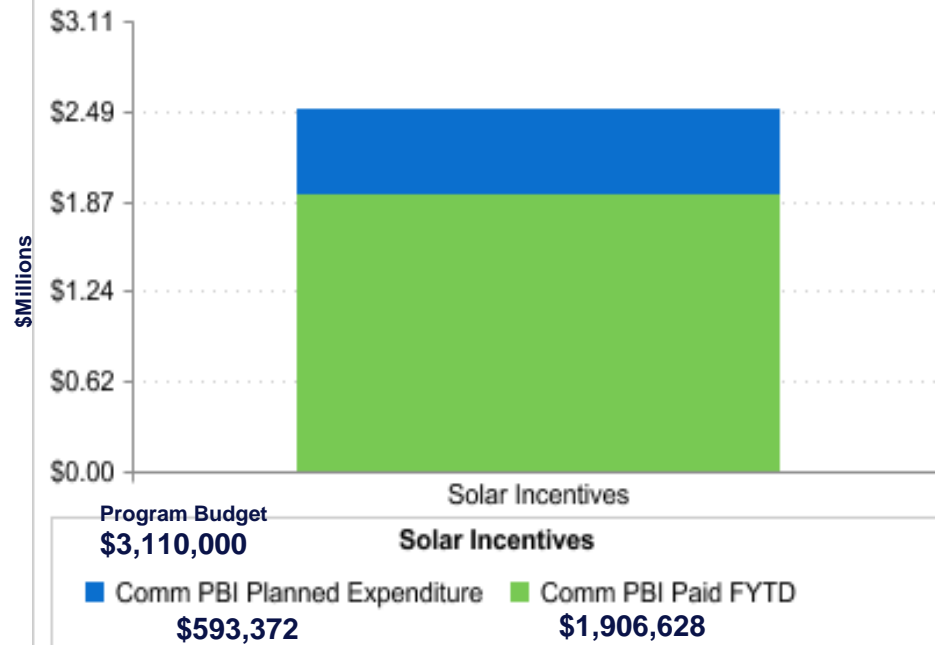
Solar MW Tracking Residential FY 2017



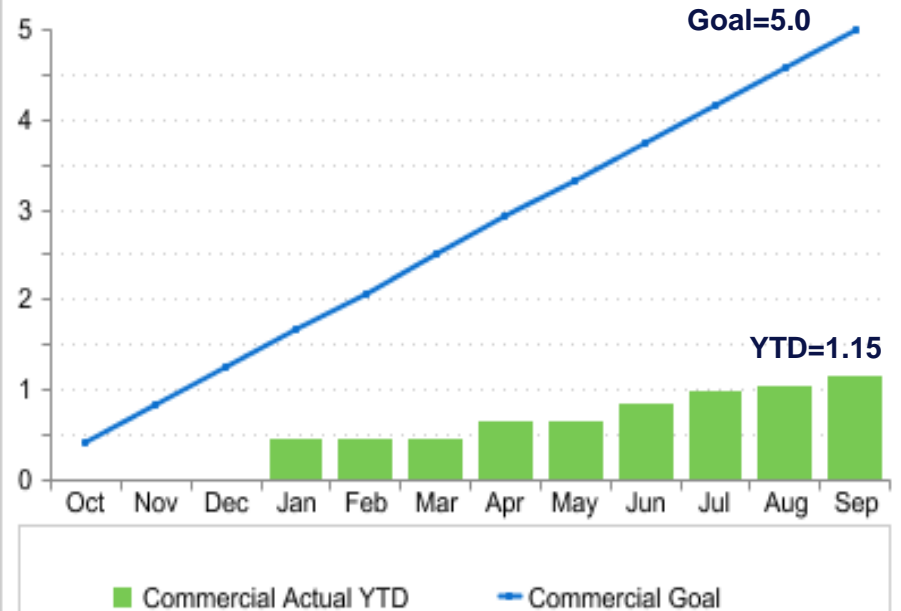


Solar Rebates & MW Tracking FY 2017 Oct-Sep

Solar Commercial

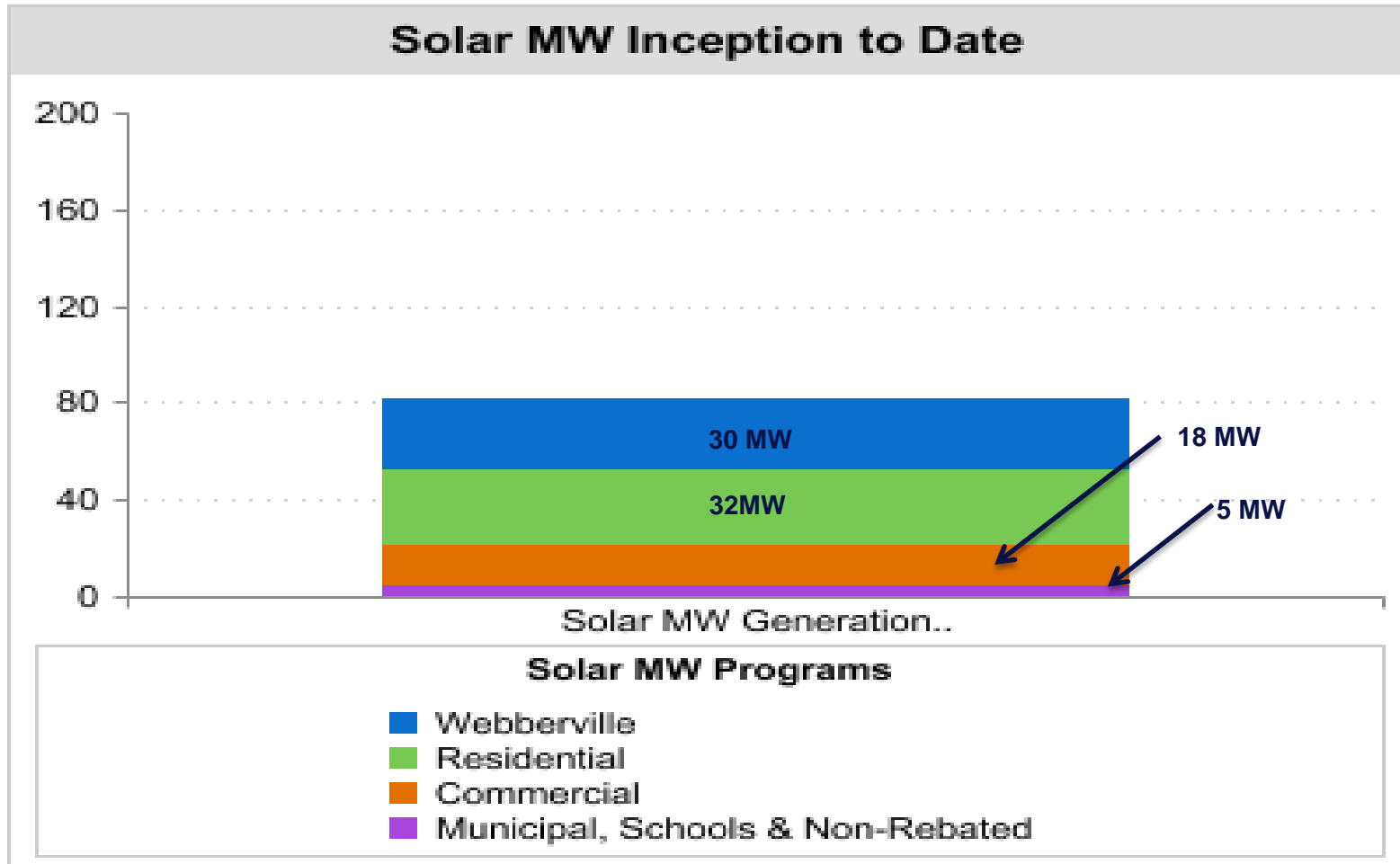


Solar MW Tracking Commercial FY 2017





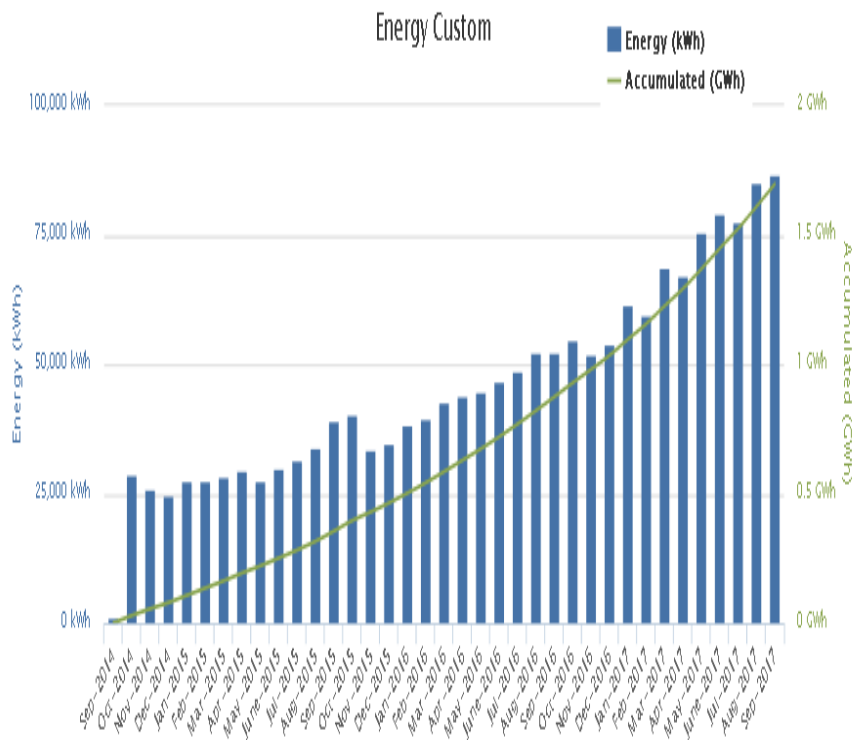
Solar MW Inception to Date as of Sep 2017





Electric Vehicles Charging & Adoption

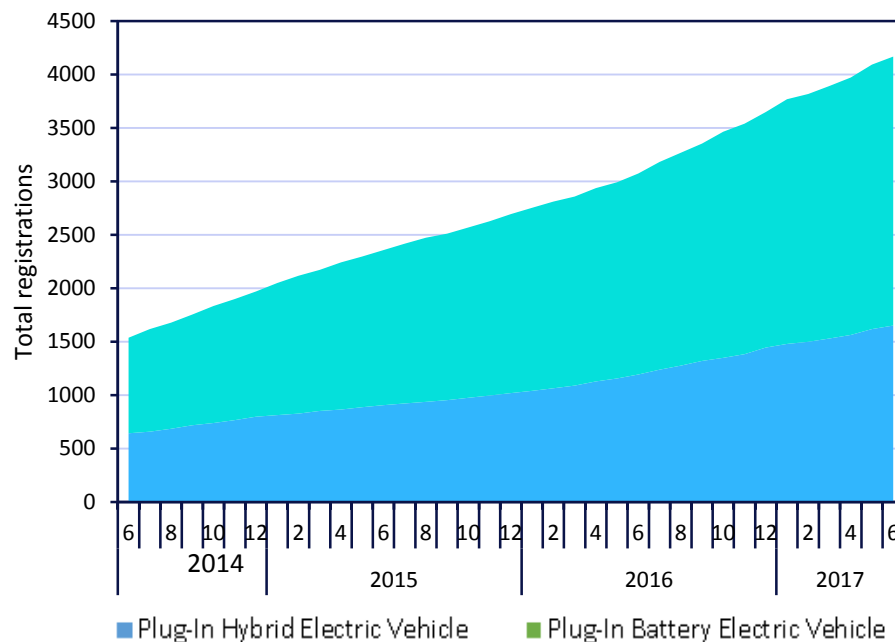
Plug-In Everywhere kWh Charging
(Monthly, 3 Year Rolling)



Public Charging: 2.09 GWh consumed through 279,005 charging sessions since 2012.

Austin Area EV Consumer Adoption
(Monthly, 3 Year Rolling)

Cumulative registrations by type



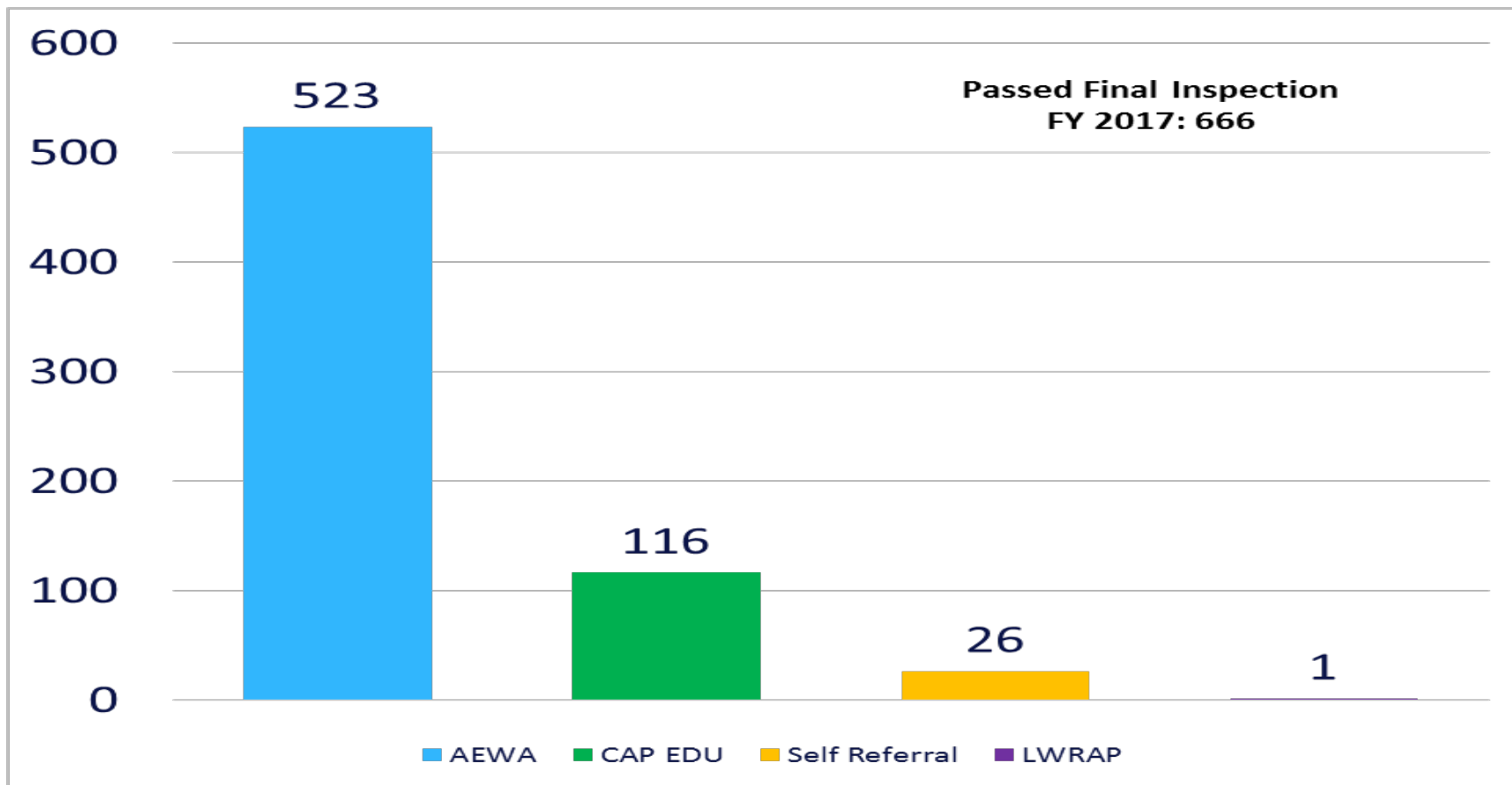
4,168 EVs consume approx. 12.5 GWh/year.

**Data provided from EPRI for Travis and Williamson County.*





Weatherization FY 2017 Oct-Sep

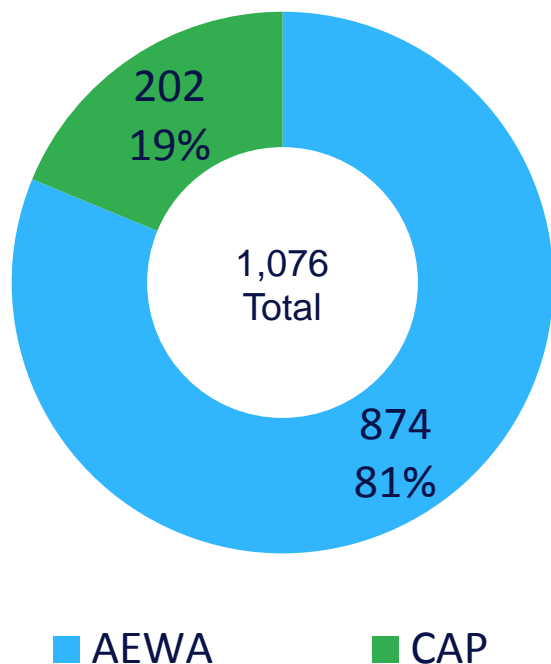


Self Referral = a customer who filled out an application for weatherization and is not a CAP customer
For the CES Dashboard Report, Total Jobs Completed is defined as all homes that have been weatherized, inspected, and invoiced.



Weatherization FY 2017 Oct-Sep

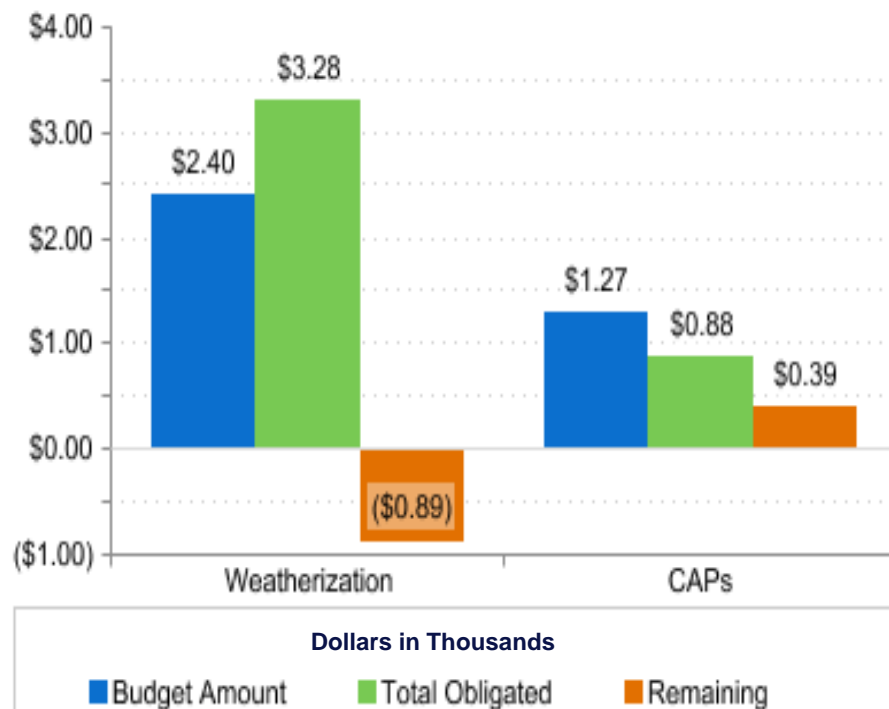
Homes in Current Weatherization Process



AEWA=Austin Energy Weatherization
CAP=Customer Assistance Program

Applicants assessed by the Austin Energy Weatherization Team may be referred to other home repair resources for assistance before weatherization may be completed. Updated on 8/08/17

Weatherization/CAPs Budgets FY 2017



Source: eCombs: 10/11/17 & Encumbrances as of 10/11/17
 Total Obligated=Spent + Encumbrance
 Weatherization Spent=\$2,469,081 | Encumbrance=\$812,106
 CAPs Spent=\$563,352 | Encumbrance=\$316,763





CES RMC SAVINGS REPORT

FY2017 Report

As of 08/31/2017

Residential	MW Goal	MW To Date	Percentage	Participant Type	Participants To Date	MWh To Date	Rebate Budget	Spent to Date
EES- Appliance Efficiency Program	2.30	2.18	95%	Customers	3,073	6,048	\$ 1,200,000	\$ 1,637,445
EES- Home Performance ES - Rebate	2.50	1.11	44%	Customers	618	1,221	\$ 2,200,000	\$ 1,885,136
EES- Home Performance ES - Rebate and Loan	0.50	0.37	73%	Customers	204	403	\$ 140,000	\$ 144,928
EES- Weatherization Assistance & CAP WX	0.72	0.79	110%	Customers	833	910	\$ 3,666,608	\$ 3,032,433
EES-Direct Install Program		0.01		Houses	948	128	++	\$ -
EES- Strategic Partnership Between Utilities and Retailers	1.00	1.88	188%	Products	266,044	8,691	\$ 900,000	\$ 673,098
EES- Multifamily	1.00	0.51	51%	Apt Units	2,707	1,932	\$ 2,500,000	\$ 1,846,200
EES- Multifamily Weatherization Assistance Program	3.00	2.93	98%	Apt Units	4,032	4,662	++	
GB- Residential Ratings	0.54	0.50	93%	Customers	663	825	\$ -	\$ -
GB- Residential Energy Code	8.70	6.52	75%	Customers	2,173	8,107	\$ -	\$ -
Residential TOTAL	20.26	16.82	83%		14,303	32,926	\$ 10,606,608	\$ 9,219,240

Commercial	MW Goal	MW To Date	Percentage	Participant Type	Participants To Date	MWh To Date	Rebate Budget	Spent to Date
EES- Commercial Rebate	10.05	11.32	113%	Customers	350	40,354	\$ 4,000,000	\$ 3,868,908
EES- Small Business	3.40	3.95	116%	Customers	455	13,142	\$ 2,160,000	\$ 1,795,550
EES- Municipal				Customers			\$ -	\$ -
EES- Engineering Support				Projects			\$ -	\$ -
EES/GB Commercial Projects	1.74	2.37	136%	Customers	17	9,931	\$ -	\$ -
GB- Multifamily Ratings	0.44	1.04	235%	Dwellings	1,462	2,622	\$ -	\$ -
GB- Multifamily Energy Code	2.65	0.93	35%	Dwellings	2,504	669	\$ -	\$ -
GB- Commercial Ratings	0.85	1.95	230%	1,000 sf	2,113	8,515	\$ 306,000	\$ 43,775
GB- Commercial Energy Code	4.05	7.54	186%	1,000 sf	4,843	21,256	\$ -	\$ -
Commercial TOTAL	23.18	29.10	126%		4,788	96,489	\$ 6,466,000	\$ 5,708,232

Demand Response (DR) - Annual Incremental	MW Goal	MW To Date	Percentage	Participant Type	Participants To Date	MWh To Date	Rebate Budget	Spent to Date
DR- Power Partner (Residential)	4.50	8.06	179%	Devices	5,678	72	\$ 850,000	\$ 1,460,003
DR- Cycle Saver	1.50	1.29	86%	Devices	1,051	6	\$ -	\$ -
DR- Power Partner (Comm & Muni)	1.48	0.18	12%	Devices	127	0.29	\$ 340,000	\$ 52,909
DR- Load Coop	2.80	4.08	146%	Customers	49		\$ 400,000	\$ 471,140
DR- ERS (AE only)		0.35		Customers	1		\$ -	\$ -
Demand Response (DR) TOTAL	10.28	13.96	136%		6,906	79	\$ 1,590,000	\$ 1,984,052

Thermal Energy Storage		MW To Date		Participant Type	Projects To Date		Rebate Budget	Spent To Date
Domain Loop				Projects			\$ -	\$ -
Central Loop		5.19		Projects	3		\$ -	\$ -
Commercial	0.20			Projects			\$ 28,000	\$ -
Thermal Energy Storage TOTAL	0.20	5.19	2595%		3		\$ 28,000	\$ -

CES	MW Goal	MW To Date	Percentage	Participant Type	Participants To Date	MWh To Date	Rebate Budget	Spent to Date
Grand TOTAL	53.92	65.07	121%		26,000	129,495	\$ 18,690,608	\$ 16,911,524

Data is unaudited and rounded to 2 decimal points.
Program data is provided by individual Programs.
Budget data source is eCOMBS.



CES RMC SAVINGS REPORT

FY2017 Report

As of 08/31/2017

Solar Energy	MW Goal	MW To Date	Percentage	Participant Type	Participants To Date	MWh To Date	Incentive Budget	Spent to Date
Residential	5.00	5.46	109%	Customers	945	9,204	\$ 4,390,000	\$ 4,319,924
Commercial	5.00	1.15	23%	Customers	23	1,904	\$ 3,110,000	\$ 1,910,160
Solar Water Heating				Customers			\$ -	\$ -
Solar Energy TOTAL	10.00	6.60	66%		968	11,108	\$ 7,500,000	\$ 6,230,084

Low Income	UPDATE
Energy Efficiency Programs	Weatherization Single Family: WAP partnered with Family Eldercare to deliver 972 bags with 5 LEDs each to low income customers in FY17. With invoices still being processed, WAP estimates over 800 homes will be completed for FY17.
Green Building	In September, 33 of the 82 Single Family homes receiving an AE Green Building rating are in SMART housing developments in the AE service area. A Multifamily SMART housing development with a total of 35 units received a 2-star rating.

Low Income Program	Budget	Encumbrance as of 10/11/17	Spent To Date
EES Weatherization Assistance	\$ 2,395,491	\$ 813,106	\$ 2,469,081
CAP Weatherization	\$ 1,271,117	\$ 316,763	\$ 563,352

EES - LOAD COOP PROGRAM	No. of Applicants ²	Participants /Locations	Program Capacity ³	Maximum Event Performance ⁴
No. of Events			MW	MW
15	47	301	28.14	15.46
² Applicants and locations modified as a result of non performance and failure to activate contracts by end of fiscal year.				
³ Program Capacity is the sum of all participants' best 2016 Load Coop performance or expected maximum drop based on audit information. Includes T&D&SR.				
⁴ Best performance for any one event including 20% T&D&SR multiplier.				

DR Capacity Program	Devices/ Participants	Program Capacity (MW)
Cycle Saver		*
Free Thermostat		**
Power Partner Thermostat	13,848	19.6
Emergency Response System (AE only)		16
EES Behavioral Programs	Units	Count
PSV Newsletter & Outreach	Participants	2,575
Residential App	Participants	21,199
Commercial App	Participants	1,823

Electric Vehicle Programs	Rebates	Spent To Date
Commercial Charging Stations		\$ 138,907
Residential Charging Stations	218	\$ 226,693
E-Ride	116	\$ 37,400

Data is unaudited and rounded to 2 decimal points.
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CES RMC SAVINGS REPORT
FY2017 Report
As of 08/31/2017

Green Building Impacts	Units	Saved
Credited to Solar Energy	MW	0.03
Credited to Thermal Energy Storage	MW	0.26
Credited to Solar Energy	MWh	78.00
Natural gas	CCF	79,669
Building water	1,000 gal	22,360
Irrigation water	1,000 gal	30,316
Construction Waste diversion	Tons	23,061

EES/GB Water Savings	Gallons/yr. at 0.45 Gallon/kWh	58,272,582
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Avoided power plant water consumption (evaporation only).

SPUR Program	Product Units	Retail Locations
60W LED Bulbs	114,530	
40W LED Bulbs	13,856	
Candelabra	25,909	
BR30/Flood*	52,543	
In-room a/c units	21	
Wi-Fi thermostats	Promotion Only	27
Heat Pump Water Heaters	Promotion Only	12
Energy Star Refrigerators	64	
Energy Star Freezers	32	
Smart Strips	740	
Ceiling Fans		
Air Purifiers	258	9
Direct. Fixt. LED Kits	11,409	6
Gap Fillers	13,837	6
Door Sweep	202	6
Window Film	296	6
Air Filters	28,321	6
Door Seal	180	6

Table shows current retailers and products during contract transition.

Outreach Program	UPDATE
Austin Energy All-Stars	Currently in the process of selecting vendor for FY 2018 program.
ECAD Multifamily Compliance	100% of multifamily properties have been reviewed and visited.

Data is unaudited and rounded to 2 decimal points.
Program data is provided by individual Programs.
Budget data source is eCOMBS.



CES RMC SAVINGS REPORT

FY2017 Report

As of 08/31/2017

NOTES:

Effective April 2017, energy code savings from building permits will be reported in the corresponding month, one year post-permit. Therefore, reporting of energy code savings is suspended until April 2018.

The August savings numbers for SPUR (Strategic Partnership between Utilities and Retailers) were not available at the time of the August RMC reporting. The August Residential savings totals will be updated when those numbers become available.

Per notification from the program manager on 10-4-17, the following data was corrected for the May savings values for GB-Residential Ratings: Participaption from 93 to 92, MWs remained the same at 0.07 and MWHs changed from 115.3 to 114.1.

Correspondingly, the Low Income Green Building Update (narrative) was corrected from "In May, 64 of 93 single family homes receiving an AE Green Building rating are in SMART housing developments in the

AE service area." to "In May, 64 of the 92 single family homes receiving an AE Green Building rating are in SMART housing developments in the AE service area."

Per notification from program manager on 10-4-17, the formula and resulting value for the November GB Commercial Energy Code should have been reported as $\approx 1292.1 \times 1.2 / 1000$ which results in 1.55MW savings.

Per update from program manager on 9-7-17, updated GB residential ratings from 48 participants to 54 participants. Correspondingly, the MW savings were updated from 0.033MW to 0.038MW. and the mwh savings were updated from 57.24mwh to 64.681.

Due to updates from the SPUR program manager and the GB program manager on 9/6/17 and 9/7/17 respectively, the July, 2017 MW savings increased by 0.15 MW and the mWh savings increased by 292 mWh.

Per notification from program manager on 8/4/17, the June GB Residential Participant number was updated from 62 to 61. The resulting MW remained at 0.04 when rounded to 2 decimal places, but the MWH amount changed from 75 to 74.

Per notification from the program manager on 3/9/17, the November savings for GB-Commercial Rating should be 0.32 MW vs. 0.37 MW and 2,539 MWH vs. 2,489 MWH. Numbers adjusted accordingly.

Per notification from the program manager on 3/7/17, the January savings for GB-Commercial Rating should be 0.23 MW vs. 0.94 MW and 389 MWH vs. 4,696 MWH. Numbers adjusted accordingly.

Money spent on the DR-Cycle Saver program is funded from the DR Power Partner (Residential) Rebate Budget.

Per notification from the program manager on 12/05/16, the Commercial MW goals were updated as follows: EES-Commercial Rebate changed from 11.45 to 10.05,

EES-Small Business changed from 2.20 to 3.40, EES-Multifamily changed from 3.80 to 4.00, and EES/GB Commercial Projects changed from 2.50 to 1.74.

SPUR numbers are unaudited and are updated quarterly. Audited FY 2017 SPUR savings numbers are expected November, 2017.

Total commercial participation does not include GB commercial square foot.

Thermal Energy Storage Budget is not part of Customer Energy Solutions Budget.

Low Income weatherization budgets do not include FY16 rollover until officially approved by Council.

*Currently maintaining existing population of Cycle Saver water heater timers through replacement of units at 10 years.

**Free thermostats were not adjusted in FY16 for attrition.

++Budgets are maintained within other residential programs and tracked outside of eCOMBS.

Goals and savings are calculated to included T&D line losses and spinning reserves.

The ERS MW total is based on contracted and ERCOT-tested capacity.

June's report included FY16 data. That has been removed for July. ERS now only reports incremental MW increases.

For FY17, AE added 0 MW coincident peak demand and 0.35 MW non-coincident peak demand in the ERS program.

Data is unaudited and rounded to 2 decimal points.

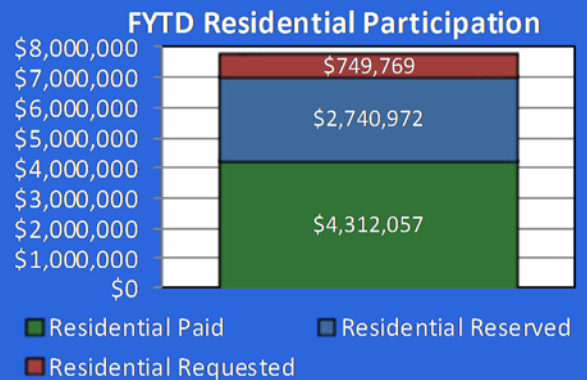
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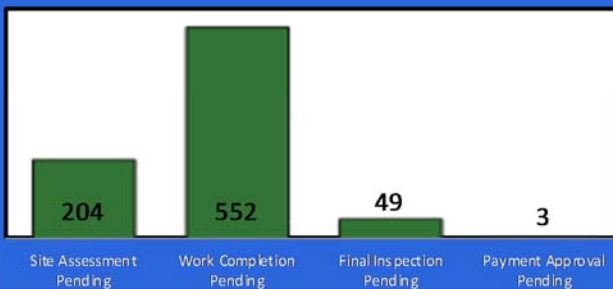
Solar PV Incentive Program September FY17 Participation Report

LOI Issued #	Month	FYTD	ITD	FY Forecast	% of FY Forecast
Residential	270	1,454	6881	850	171%
Commercial	0	39	256	85	46%
LOI Committed \$	Month	FYTD	Reserved		
Residential	\$671,984	\$5,426,065	\$2,740,972	\$5,000,000	109%
Commercial (Estimated Annual PBI Payments)	\$0	\$406,925	\$183,547	\$1,000,000	41%
LOI Committed kW-AC	Month	FYTD	Reserved		
Residential	1113	7506	4266	NA	NA
Commercial PBI	0	4059	2251	NA	NA
Projects Completed #	Month	FYTD	ITD		
Residential	151	940	6,254	750	125%
Commercial PBI	4	23	234	60	38%
Commercial CBI	0	0	101	NA	NA
Projects Completed \$	Month	FYTD	ITD		
Residential Rebates	\$567,963	\$4,312,057	\$57,733,062	\$5,000,000	86%
Commercial PBI Paid	\$194,977	\$1,906,628	\$5,898,340	\$2,500,000	76%
Commercial CBI	\$0	\$0	\$6,143,408	NA	NA
Projects Complete kW-AC	Month	FYTD	ITD		
Residential	823	5,433	29,090	5,000	109%
Commercial PBI	110	1,146	14,490	5,000	23%
Commercial CBI	0	0	1,099	NA	NA
Total kWAC	933	6,579	44,679	10,000	66%
Projects Completed kWh/yr	Month	FYTD	ITD		
Residential	1,391,820	9,168,904	49,025,747	8,450,000	109%
Commercial	177,767	1,906,850	26,194,011	8,450,000	23%
Total kWh	1,569,587	11,075,754	75,219,758	16,900,000	66%

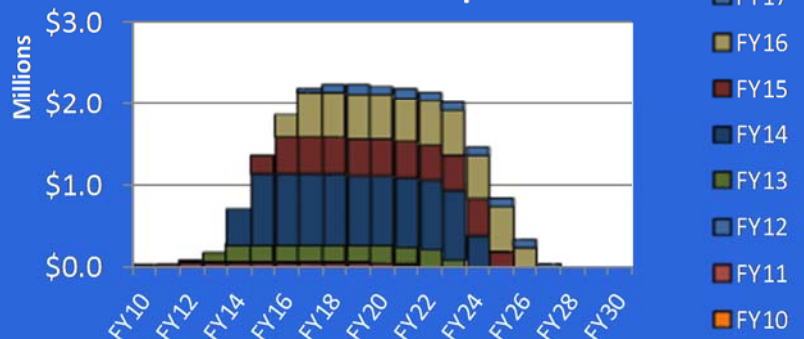
Applications Submitted That Have Not Received LOIs		Current
# of Residential	204	
Res Requested Rebate \$	\$749,769	
Res Requested Capacity kW-ac	1246	
# of Commercial	12	
Com Requested Rebate \$ (Estimated Annual PBI Payments)	\$29,796	
Com Capacity kW-ac	211	
Monthly Modeling		
Projected Total PBI FY17 Exposure (Modeled \$/Annual)	\$2,500,000	
Modeled kWh Production- Res	4,495,734	
Modeled kWh Production - Com	2,069,567	



Residential - Application Status

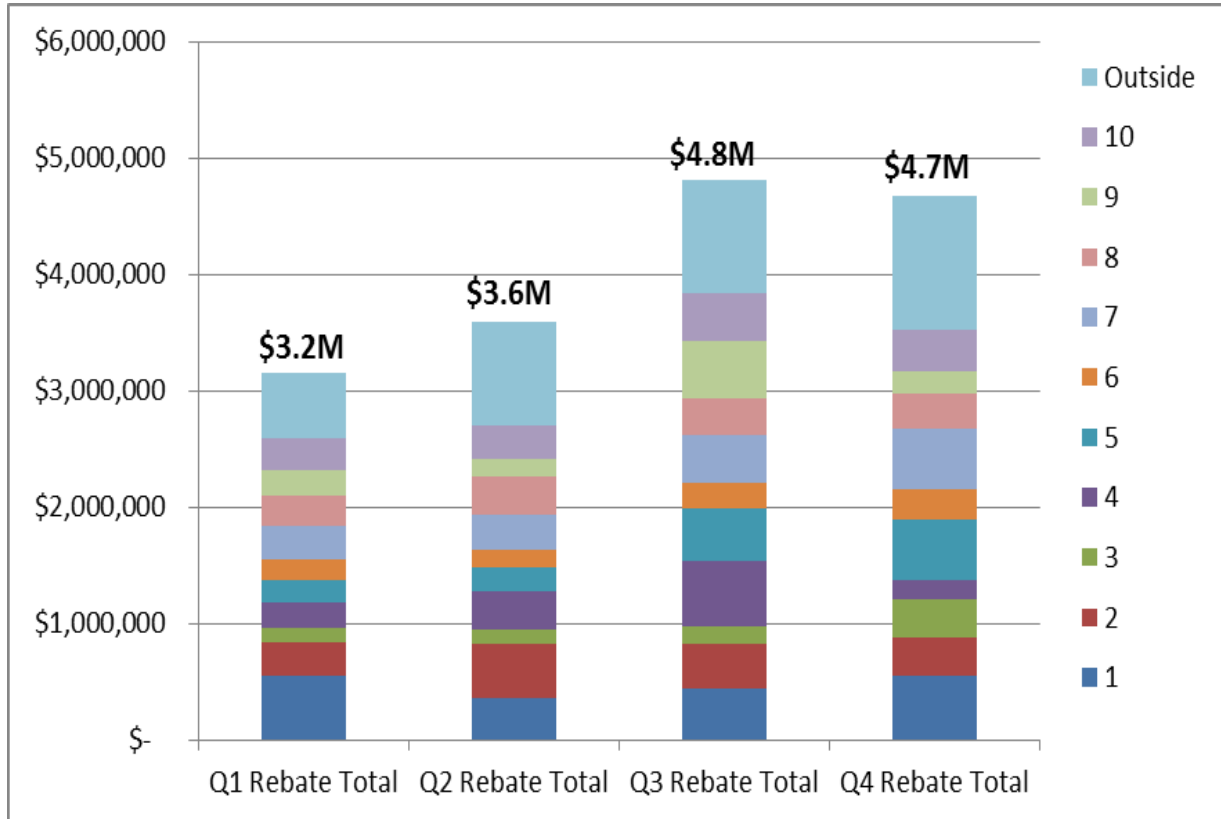


PBI Modeled FY Expenditure



Customer Energy Solutions
Quarterly Report
As of 09/30/2017

Quarterly Rebates by District and Outside of COA



Solar PBI included in Q3. Rebates paid may not align with AE Finance eCombs system as of 09/30/17.
Dollars are unaudited.

Quarter 4 Highlights

Energy Efficiency Services

Residential Programs

Weatherization Assistance Program (WAP)

- WAP partnered with Family Eldercare to deliver 972 bags with 5 LEDs each to low income customers in FY17.
- With invoices still being processed, WAP estimates over 800 homes will be completed for FY17.

Appliance Efficiency Program (AEP)

- 141 program participating have registered with the City of Austin in last 12 months
- New program guidelines were developed enhancing the quality assurance aspects and modifying rebate amounts.
- Customer application processes were further automated and streamlined with additional enhancements planned for FY18.

Home Performance w/Energy Star (HPwES)

- In FY17, eight contractors completed ~73% of the comprehensive energy efficiency projects.
- Those contractors, in order of quantity performed, are: Stan's, Service Experts/Strand, Conservation Services, McCullough, Green Collar, Fox Service, Smart Air Service, and Energy Guys.
- ~26% of HPwES participants received a low interest loan in FY17.

Strategic Partnership between Utilities and Retailers

- For the 4th quarter, SPUR had 17 participating retailers at 52 locations in the Austin Energy service area providing point-of-purchase instant discounts, signage and cross promotion of other energy efficiency programs.
- Unaudited program total: 2.468 MW savings achieved as 9/30/2017.
- Over 514,446 energy efficiency items discounted through local retailers.

Multifamily Standard (MFSD) & Multifamily Weatherization Program (MFWAP) Rebates Program

Major Projects

- The Villages of Bella Vista MFSTD, 402 Apartments (Apts); 279 kW; \$139,615 Rebate
- Lodge at Stone Oak Ranch MFSTD, 434 Apts; 457 kW; \$285,397 Rebate
- Avalon Palms MFWAP, 352 Apts; 226 kW; \$121,849 Rebate
- Mary Lee Foundation MFWAP, 219 Apts; 170 kW; \$99,639 Rebate
- 90% of Multifamily Rebate funds in FY17 were utilized by MFWAP in Low Income/Affordable Housing

Commercial Programs

Energy Assessments:

- Will Wynn Historic Building, 701 E 6th St

Major Projects:

- Domain Junction 8 LLC 281 kW; \$89,645 Rebate
- Brown - Heatly Office Bldg 291 kW; \$113,798 Rebate
- Dillard's 278 kW; \$79,992 Rebate
- McNeil High School – RRISD 227 kW; \$70,265 Rebate
- William P. Hobby Office Bldg 412 kW; \$154,924 Rebate
- State Dept. of Health 254 kW; \$96,809 Rebate
- Working with State of Texas TFC to identify and process rebates
 - 7 State Buildings - 764 kW; \$293,503 Rebates

Small Business Rebates Program (SBP)

Houses of Worship (HOW)

Metric	Q4	YTD
Number of HOWs	8	16
kW Saved	107	327
kWh Saved	416,736	794,441
Rebates Paid	\$74,804	\$199,949

Demand Response Programs

Power Partner Thermostat

- Highest volume of thermostats ever added to the Power Partner Thermostat (PPT) program this quarter with over 3,000 added to demand response. Over 6,000 devices added this year to date.
- Seven new thermostat models were added to the program offering; Honeywell models, Emerson Sensi Touch, Nest Thermostat E, and Lux Kono to thermostat offerings.
- Currently work with four vendors, ten brands, and 34 different models.
- Saved approximately 4 MW in Q4, saving over 8 MW this year to date.

Load Coop

- 2017: Capacity reached 33.56 MW and exceeded the goal to realize a 5.4 MW total capacity reduction over 2016 numbers.
- Increased participation with new accounts for Austin ISD, State accounts, real estate properties, new school districts, and new Austin area hotels. Previous participants added new facilities increasing their total incentives.
- Incentives are dispersed at the end of each season (June 1 – Sep. 30) and for this quarter the incentive amount was over \$516,000.
- The reduced peak load from the C&I program along with our other residential DR programs helps reduce ERCOT fees and ultimately helps reduce the Regulatory Charge for all Austin Energy customers.

Energy Conservation Audit and Disclosure (ECAD)

Week of 9-25-17 (all sectors)

Program Sector	2015	2016	2017 Preliminary
Multifamily	85%	77% Multifamily Communities Compliant 88% Multifamily SQFT Compliant 88% Multifamily Apartment Units Compliant	77% Multifamily Communities Compliant 88% Multifamily SQFT Compliant 88% Multifamily Apartment Units Compliant NOTE: 100% reviewed and visited Between 2017 Q2 & Q3.
Commercial	61%	73%	80% Properties Compliant 83% Commercial SQFT Compliant
Single Family	64%	3,220 ECAD TOS Energy Audits Uploaded	3,048 ECAD TOS Energy Audits Uploaded

- Streamlined business processes to improve annual compliance for ECAD in all three sectors. The data updates are available with monthly verses an end of year update.

Commercial

- Earned TOP CITIES recognition from ENERGY STAR Portfolio Manager for Austin area buildings with ENERGY STAR Certified ratings.
- Using aggregated electric usage data, this option benchmarks a building's energy use rating against similar properties in the Austin Energy service area.

Residential

- Austin Energy education of the ECAD Ordinance requirements to Austin area Realtors.
- Next event is Realty Round-up on October 18th, the largest annual real estate trade show directed to the Austin market.

Multifamily

- ECAD capitalized on a new opportunity with Austin Apartment Association to sponsor apartment energy efficiency education classes to local multifamily apartment management professionals on values and benefits of the Austin City Code (6-7 Energy Conservation Audit and Disclosure Ordinance).
- Completed audit level review of all ECAD multifamily properties (1,346 properties as defined with 5 + units). The 2017 Property Compliance rate is 77% with over 88% (139,416 units) of apartment units and 88% (116 million sqft) multifamily space in compliance. Those properties of 5 to 20 units without property managers have been the most difficult to engage in compliance.

Solar

- 240 residential solar installations (1.4 MW) were completed this quarter, bringing the total for the year to 940 (5.4 MW) through the residential incentive program, exceeding the annual goal.
- While commercial had a slower year, some notable projects were completed.

- AISD completed two solar installations this quarter, totaling 205 kW, one at Metz Elementary, and one at Austin High School.
- Foundation Communities installed solar at two affordable housing properties this quarter: Lakeline Station (58 kW) and Bluebonnet Studios (75 kW).
- Austin's New Central Library interconnected its three rooftop solar arrays, totaling 138 kW.