

Customer Energy Solutions

Program Update

Data through October 2019

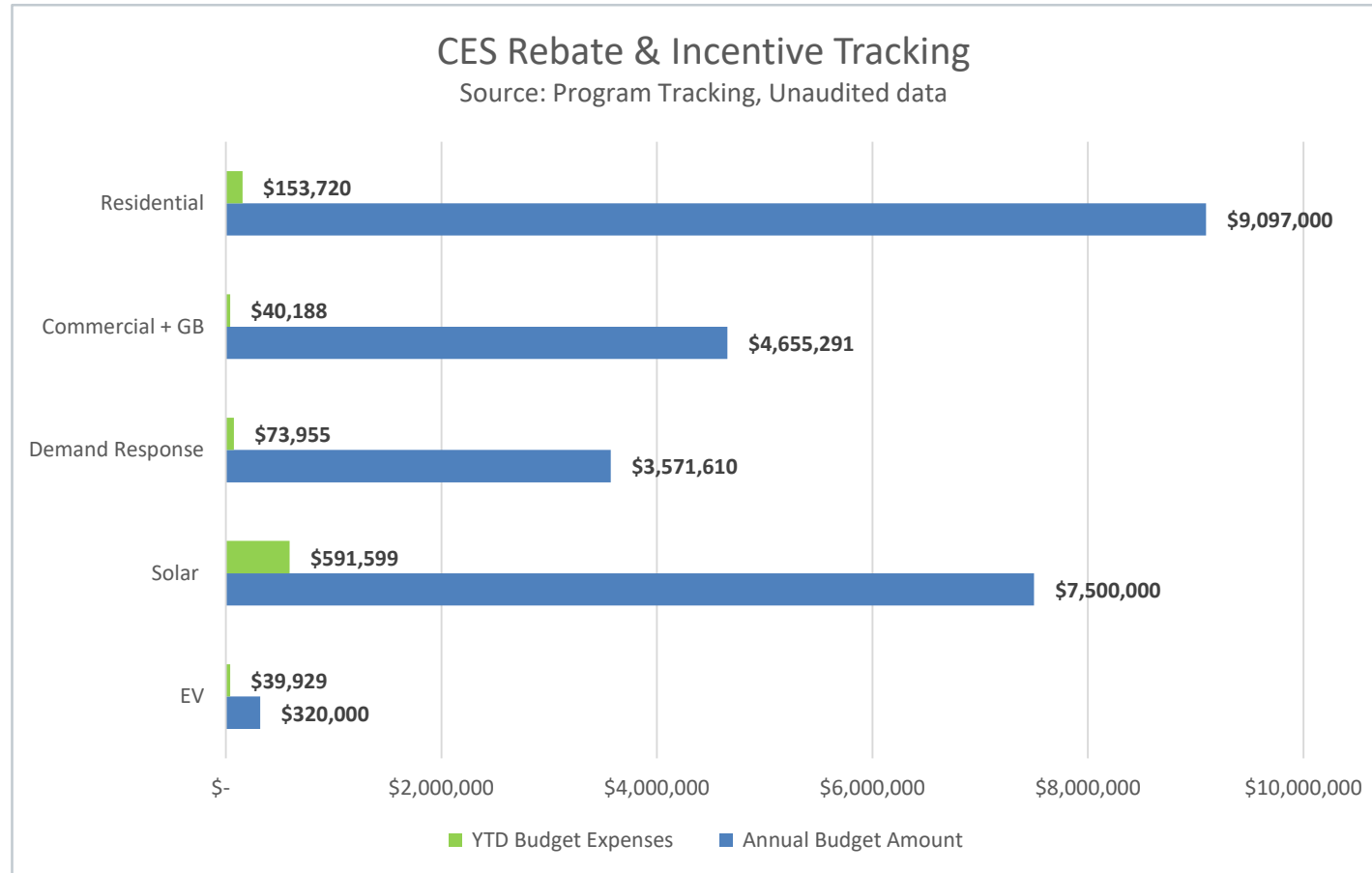
Customer Energy Solutions & Corporate Communications



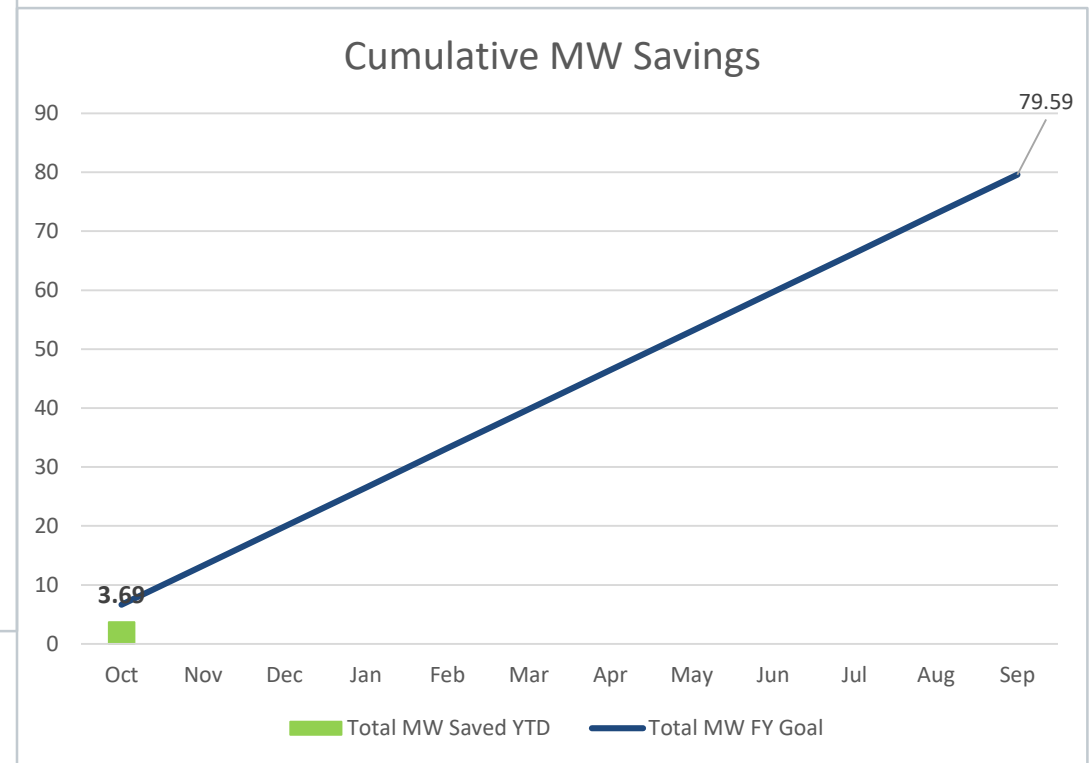
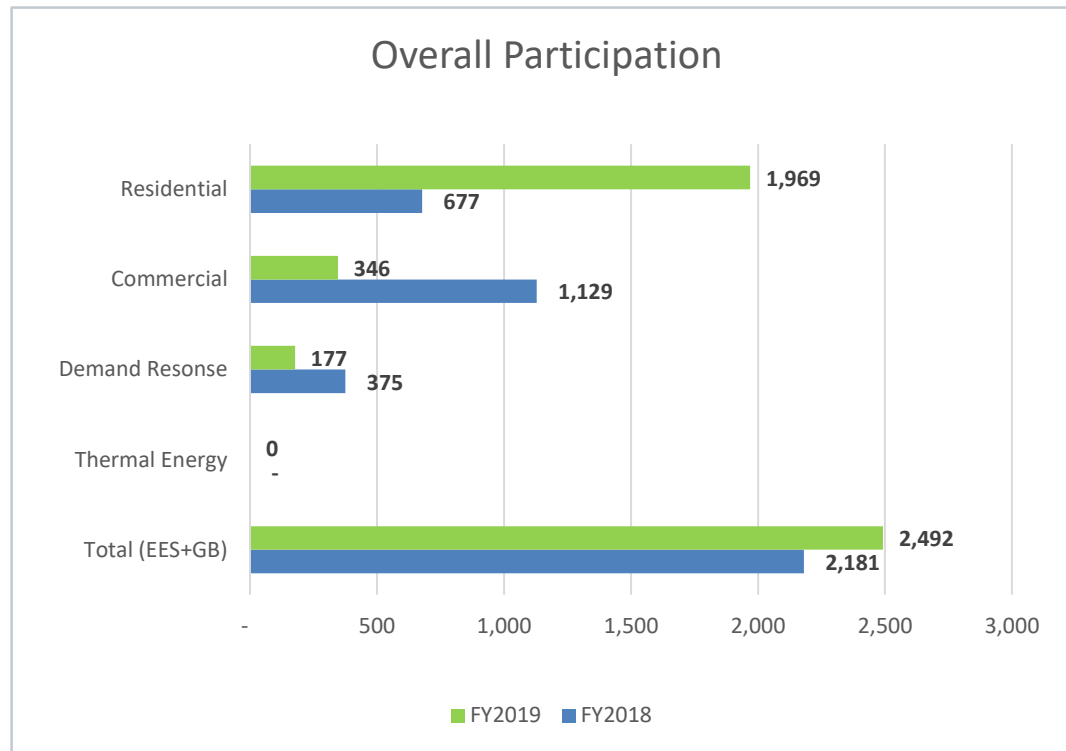
November 2019

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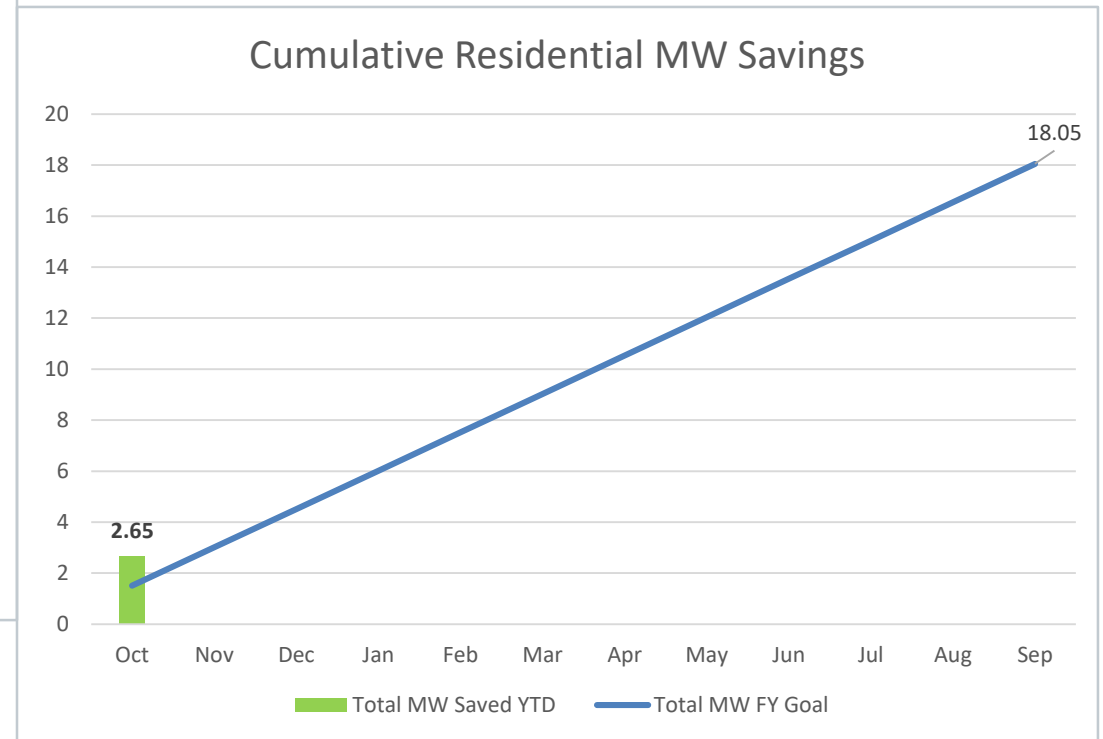
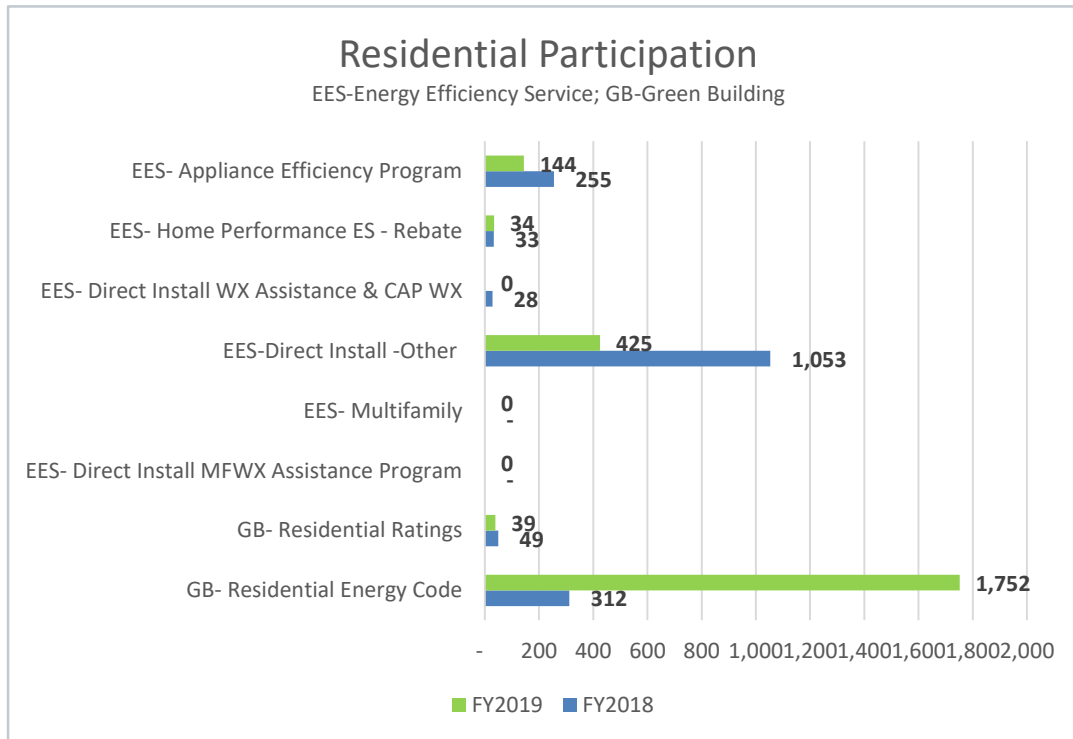
CES Rebates & Incentives FY19 October



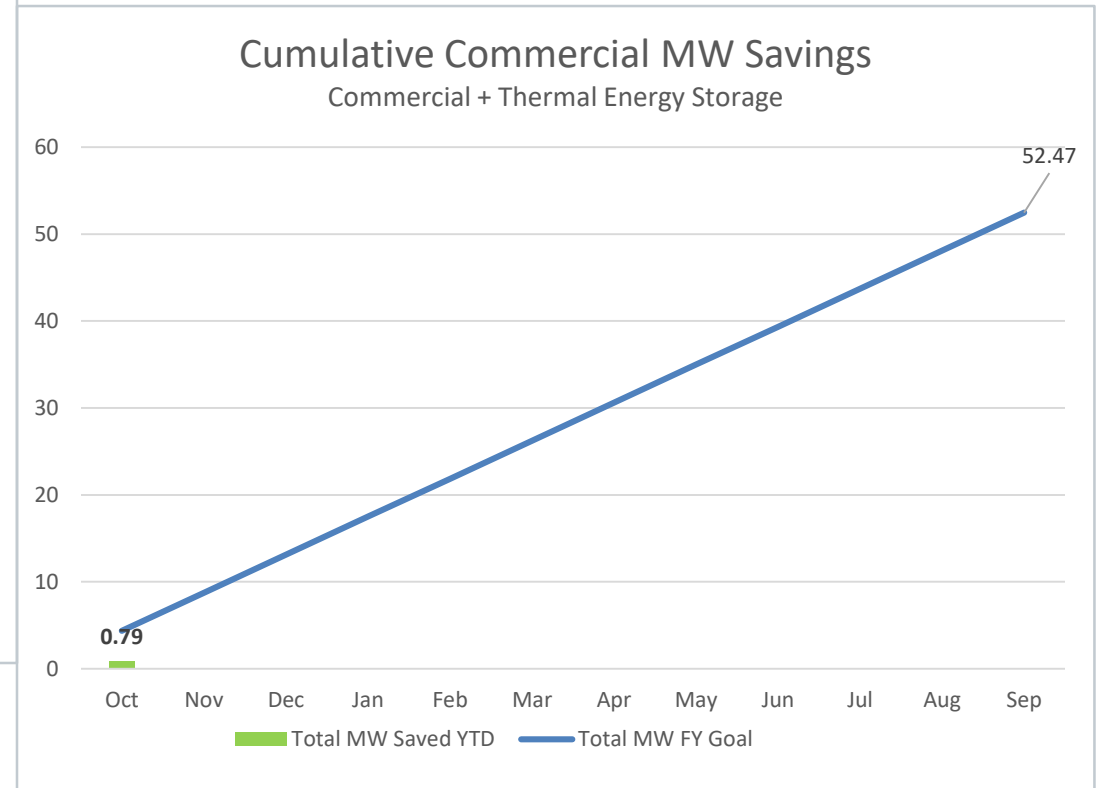
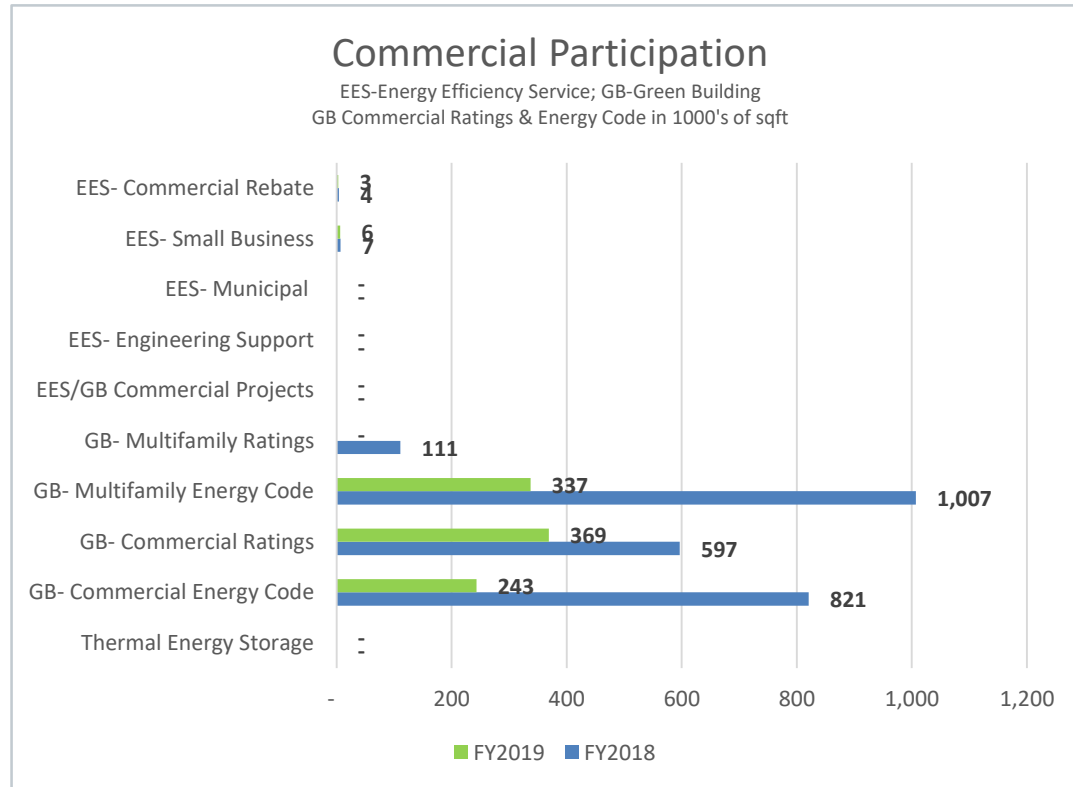
Overall Participation & MW Savings FY19 October



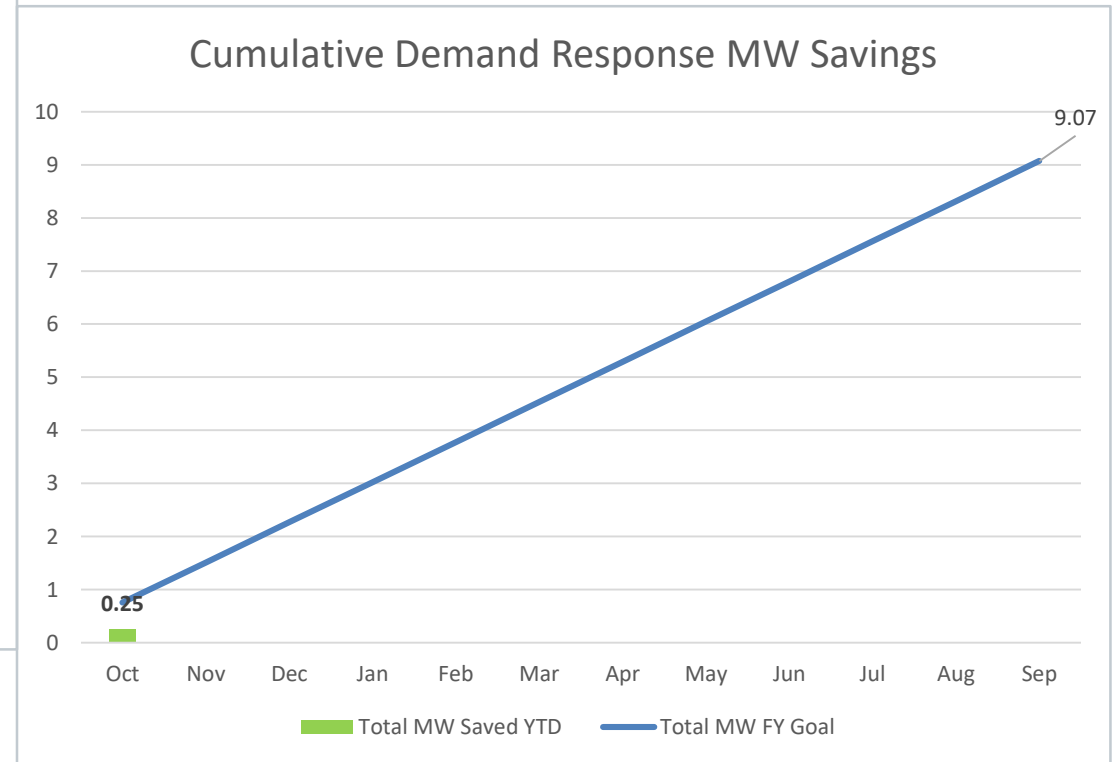
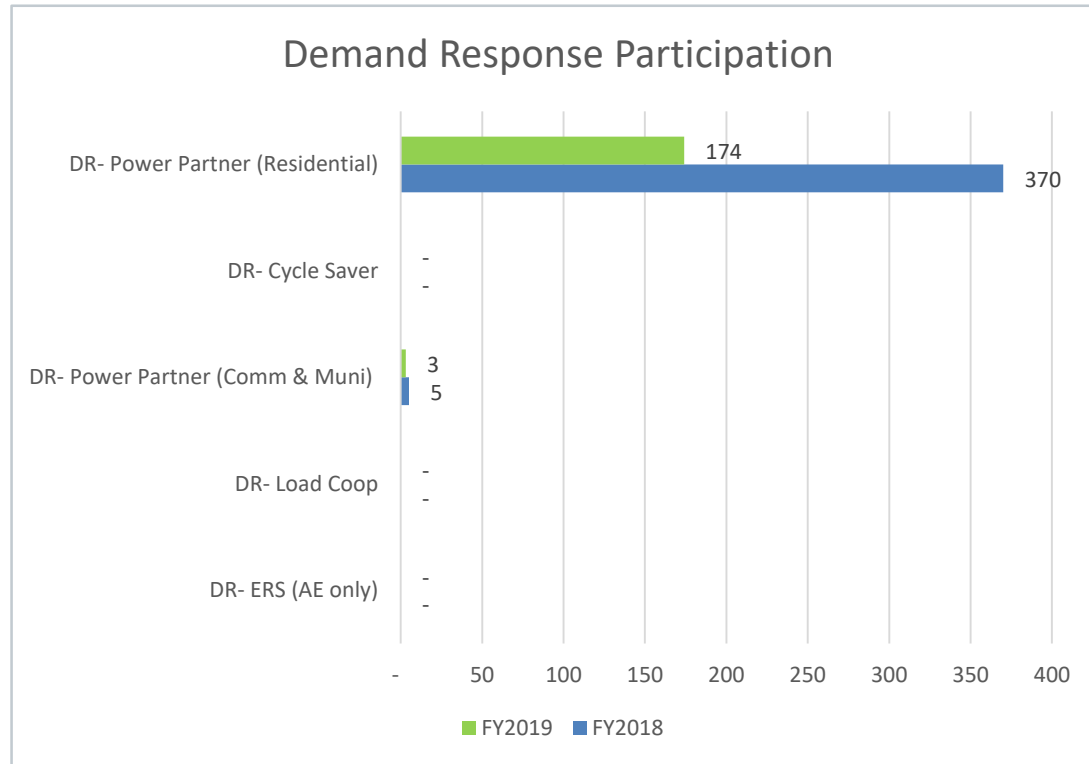
Residential Participation & MW Savings FY19 October



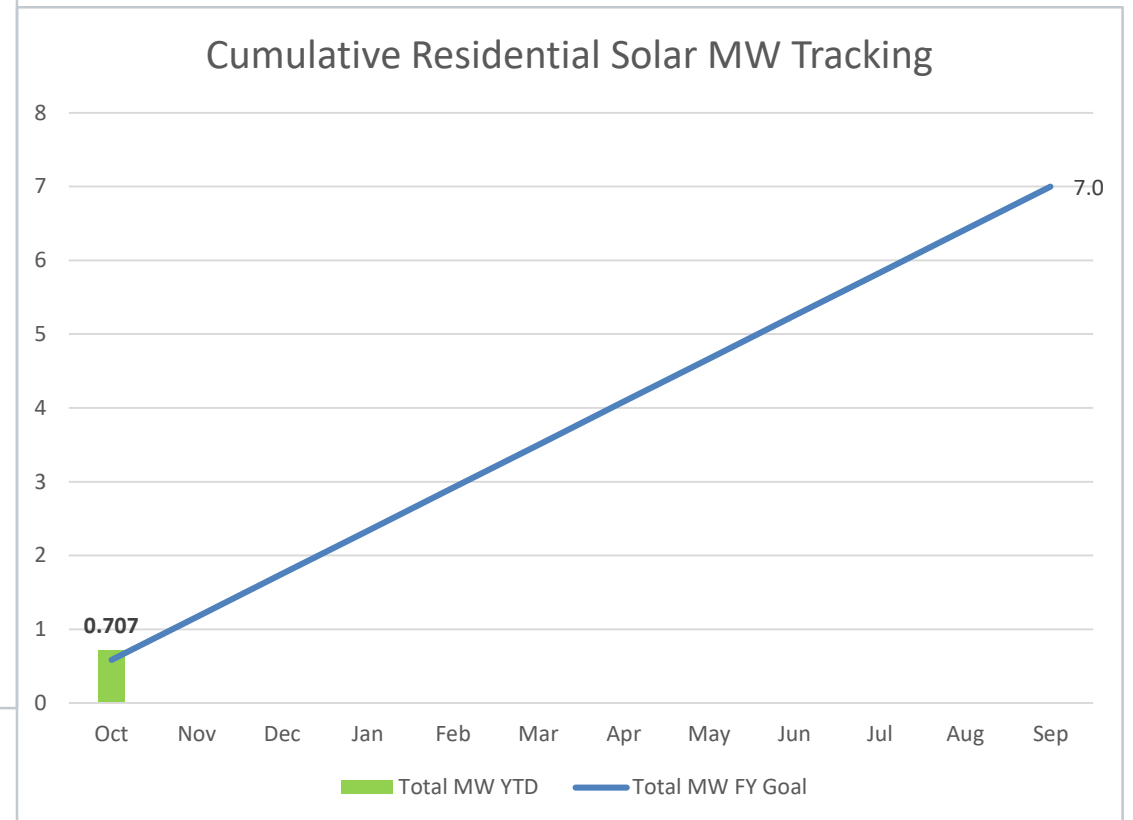
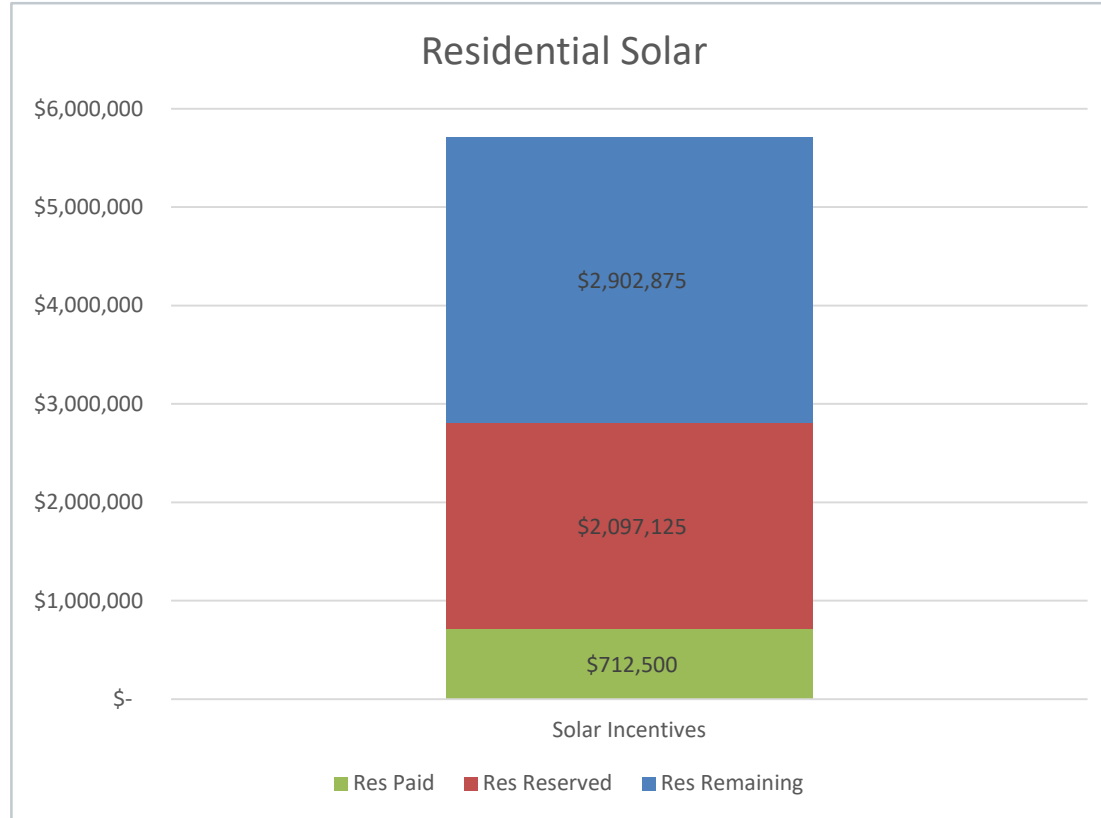
Commercial Participation & MW Savings FY19 October



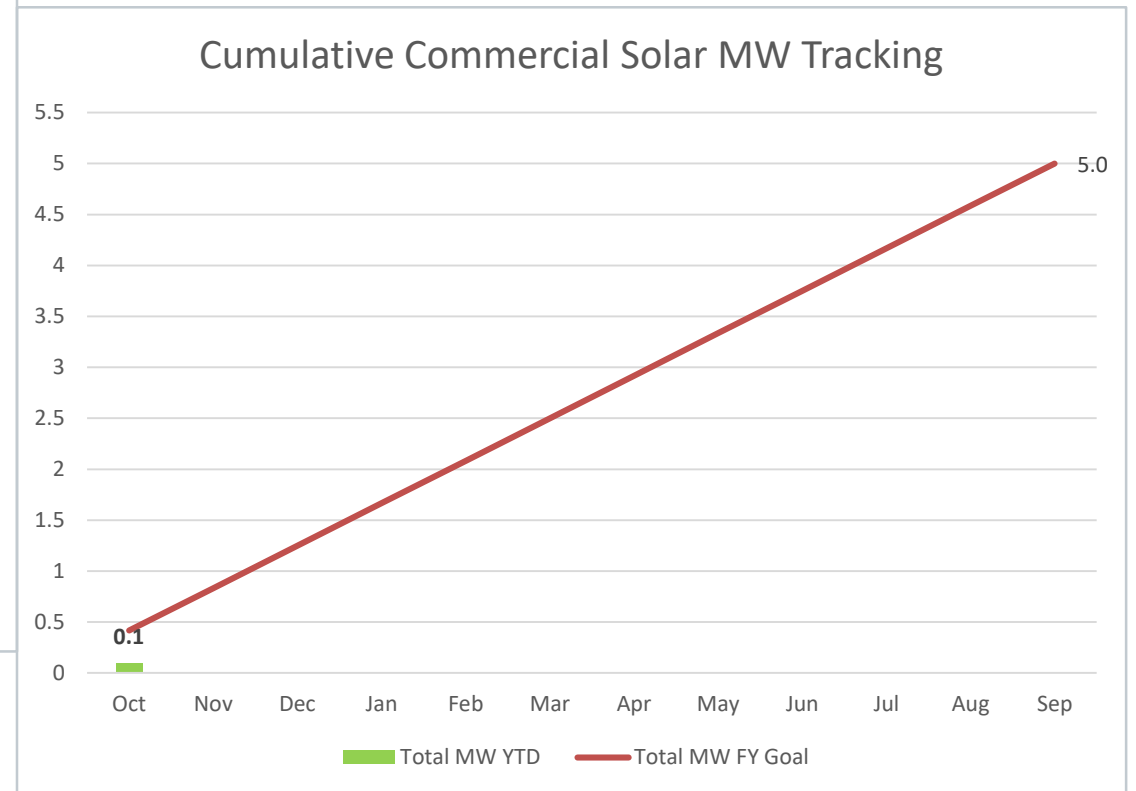
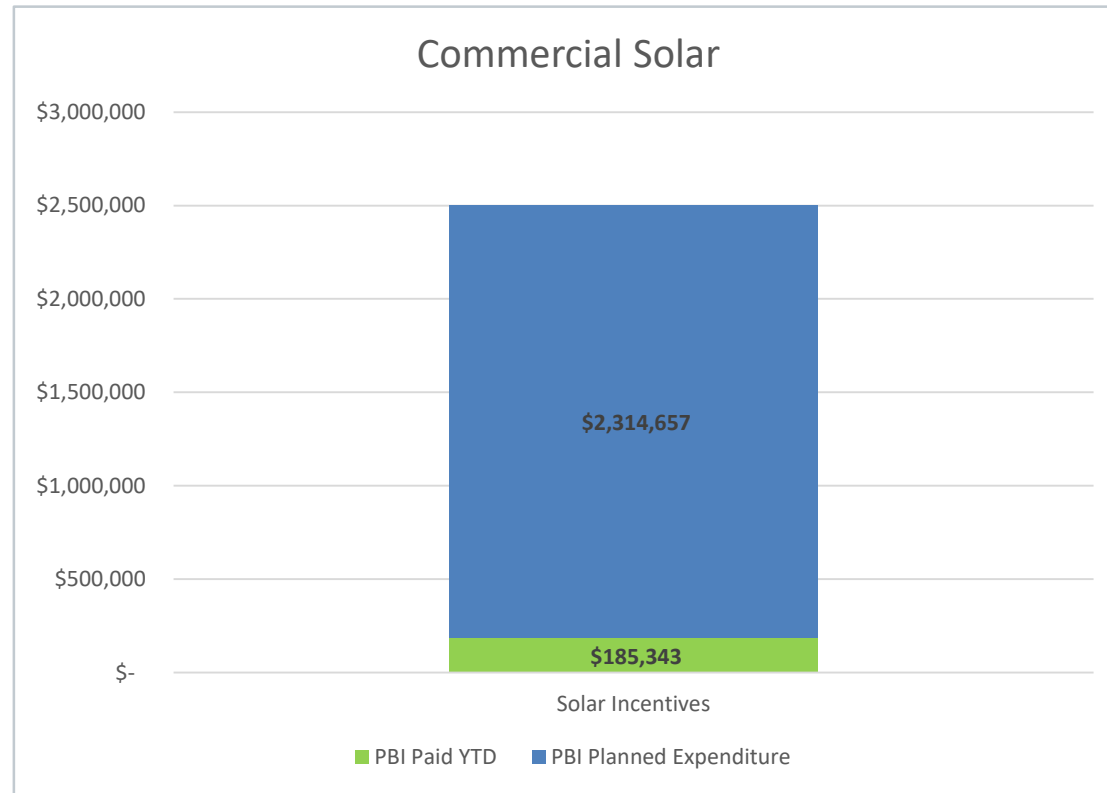
Demand Response Participation & MW Savings FY19 October



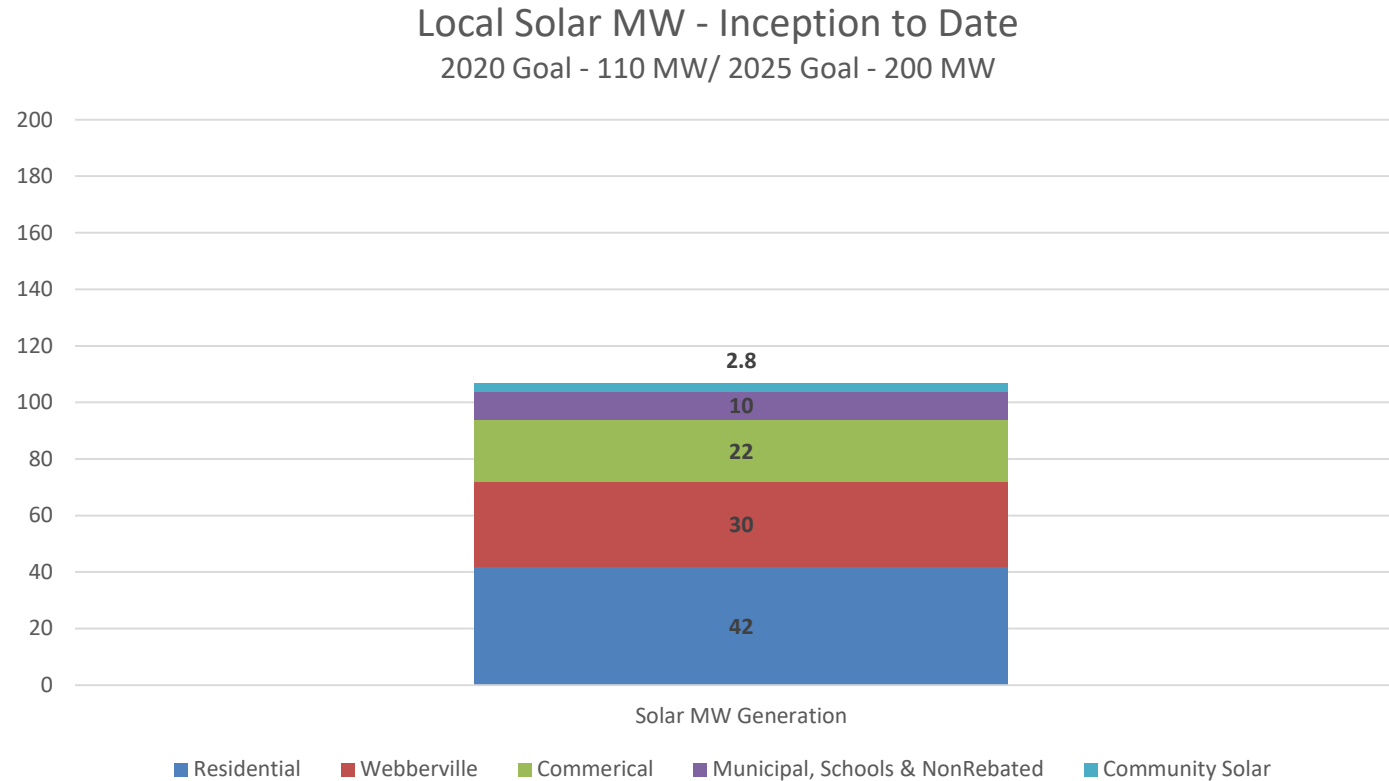
Residential Solar Incentives & MW Tracking FY19 October



Commercial Solar Incentives & MW Tracking FY19 October

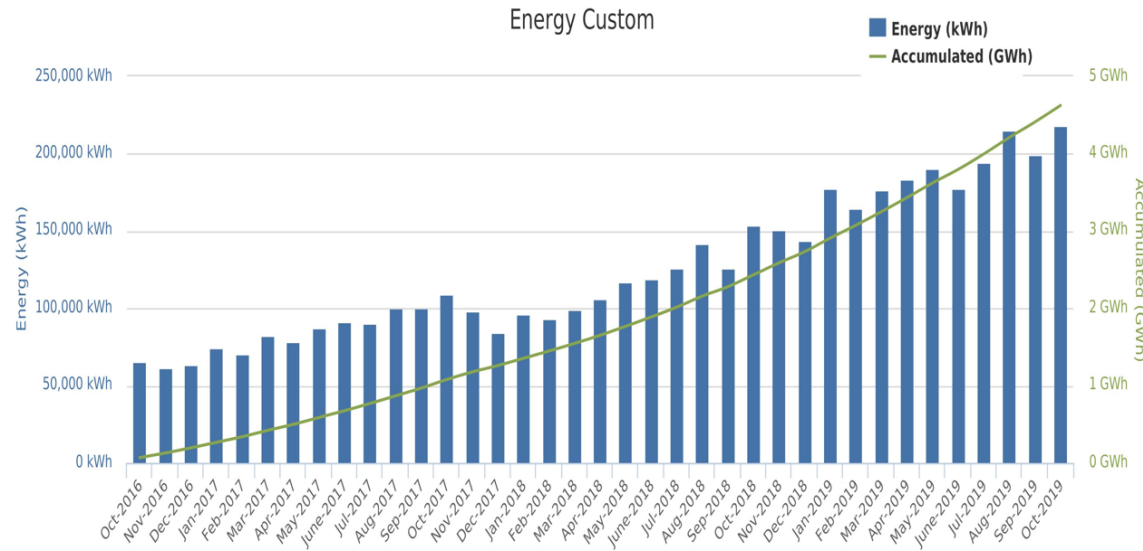


Local Solar MW Inception to Date thru FY19 October



Electric Vehicles Charging & Adoption

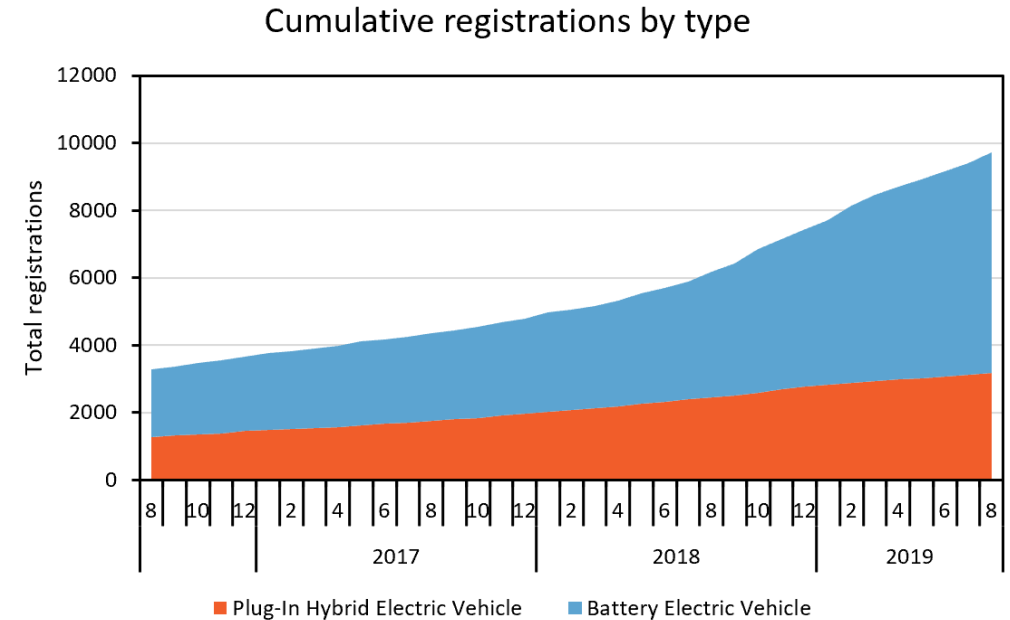
Plug-In EVerywhere kWh Charging
(Monthly, 3 Year Rolling)



Public Charging: 6.09 GWh consumed through 697,199 charging sessions since 2012.



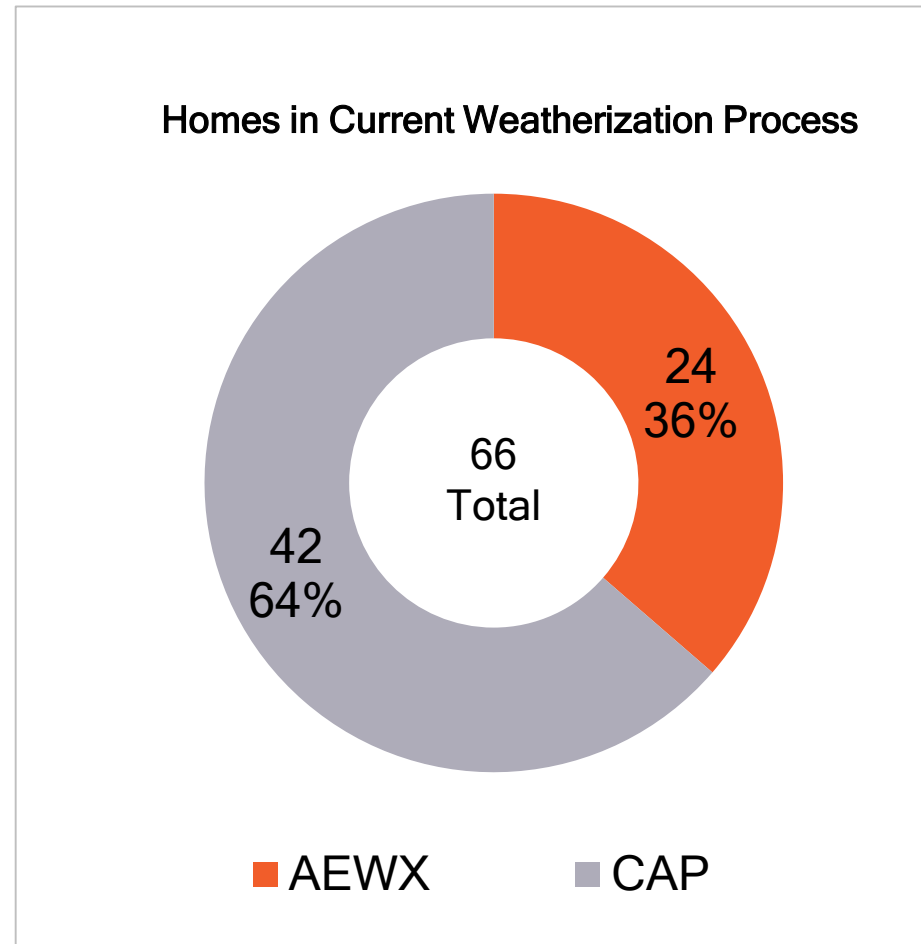
Austin Area EV Consumer Adoption
(Monthly, 3 Year Rolling)



9712 EVs consume approx. 29.14 GWh/year.

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

Weatherization FY2020 October





**Customer Driven.
Community Focused.SM**



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CES RMC SAVINGS REPORT

FY20 Report

As of 10/31/2019

Residential	MW Goal	MW To Date	Percentage	Participant Type	Participants To Date	MWh To Date	Rebate Budget	Spent to Date
EES- Appliance Efficiency Program	2.60	0.11	4%	Customers	144	193.47	\$ 1,600,000	\$ 72,750
EES- Home Performance ES - Rebate	1.30	0.04	3%	Customers	34	59.41	\$ 1,800,000	\$ 68,595
EES- AE Weatherization & CAP Weatherization - D.I.	0.52			Customers			\$ 2,277,000	\$ -
EES-Direct Install -Other				Houses	425	26.78	\$ 100,000	\$ -
EES-School Based Education	0.01			Participants			\$ 200,000	\$ -
EES- Strategic Partnership Between Utilities and Retailers++	1.75	0.20	12%	Products Sold	5,724	467.04	\$ 1,000,000	\$ -
EES- Multifamily Rebates	2.14			Apt Units			\$ 1,060,000	\$ -
EES- Multifamily WX-D.I.+	1.41			Apt Units			\$ 1,060,000	\$ 12,375
GB- Residential Ratings	0.47	0.03	6%	Customers	39	46.77	\$ -	\$ -
GB- Residential Energy Code	7.85	2.27	29%	Customers	1,752	2,965.77	\$ -	\$ -
Residential TOTAL	18.05	2.65	15%		1,969	3,759.23	\$ 9,097,000	\$ 153,720
Commercial	MW Goal	MW To Date	Percentage	Participant Type	Participants To Date	MWh To Date	Rebate Budget	Spent to Date
EES- Commercial Rebate	8.98	0.03	0%	Customers	3	81.62	\$ 2,335,123	\$ 19,258
EES- Small Business	4.19	0.04	1%	Customers	6	105.78	\$ 2,260,168	\$ 20,930
EES- Municipal				Customers			\$ 60,000	\$ -
EES/GB Commercial Projects	1.10			Customers				\$ -
GB- Multifamily Ratings	1.21			Dwellings			\$ -	\$ -
GB- Multifamily Energy Code	10.72	0.32	3%	Dwellings	337	592.09	\$ -	\$ -
GB- Commercial Ratings	3.05	0.18	6%	1,000 sf	369	571.89	\$ -	\$ -
GB- Commercial Energy Code	23.22	0.22	1%	1,000 sf	243	299.77	\$ -	\$ -
Commercial TOTAL	52.47	0.79	2%		346	1,651.14	\$ 4,655,291	\$ 40,188
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)	6.40	0.25	4%	Devices	174		\$ 1,499,910	\$ 18,955
DR- Water Heater Timers++	0.60			Devices			\$ 494,800	\$ -
DR- Power Partner (Comm & Muni)		0.00		Devices	3		\$ 90,400	\$ -
DR- Load Coop	1.87			Customers			\$ 1,486,500	\$ 55,000
DR- ERS (AE only)	0.20			Customers				\$ -
Demand Response (DR) TOTAL	9.07	0.25	3%		177		\$ 3,571,610	\$ 73,955
Thermal Energy Storage	MW Goal	MW To Date	Percentage	Participant Type	Projects To Date	MWh To Date	Rebate Budget	Spent To Date
Domain Loop				Projects			\$ -	\$ -
Central Loop				Projects				\$ -
Commercial				Projects				\$ -
Thermal Energy Storage TOTAL							\$ -	\$ -
CES	MW Goal	MW To Date	Percentage	Participant Type	Participants To Date	MWh To Date	Rebate Budget	Spent to Date
Grand TOTAL	79.59	3.69	5%		2,492	5,410.37	\$ 17,323,901	\$ 267,863

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

FY20 Report

As of 10/31/2019

Solar Energy	MW Goal	MW To Date	Percentage	Participant Type	Participants To Date	MWh To Date	Incentive Budget†	Spent to Date
Residential	7.00	0.71	10%	Customers	113	1175.93	\$ 5,000,000	\$ 406,256
Commercial	5.00	0.10	2%	Customers	1	161.82	\$ 2,500,000	\$ 185,343
Solar Energy TOTAL	12.00	0.81	7%		114	1,337.75	\$ 7,500,000	\$ 591,599

Low Income	UPDATE
Energy Efficiency Programs	<ul style="list-style-type: none"> WAP currently has 66 homes in the pipeline for weatherization for FY20. WAP staff attended three events (Fall Fest, Boo the Flu, and Community Connections) to distribute program information and recruit customers into WAP.
Solar	Offered Solar Ed course to Cesar Chavez Neighborhood Association meeting
Green Building	In October, 9 of 39 Single Family homes receiving an AE Green Building rating are in SMART Housing developments in the AE service area.

EES - LOAD COOP PROGRAM	No. of Applicants	Participants /Locations	Program Capacity	Maximum Event Performance
No. of Events			MW	MW
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 2018 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*	21,962	14.280
Free Thermostat**	11,384	11.04*
Power Partner Thermostat	33,178	47.11
Emergency Response System (AE only)	-	0.20
EES Behavioral Programs	Units	Count
PSV Newsletter & Outreach	Participants	10,521
Residential App	Participants	31,641
Commercial App	Participants	2,968

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

**Numbers based on M&V study summer of 2018.

Electric Vehicle Programs	Rebates	Spent To Date
Commercial Charging Stations	2	\$ 9,000
Residential Charging Stations	19	\$ 16,029
E-Ride	45	\$ 14,900

Loan Program	Customers	Budget	Program Spend
EES- Home Performance ES-Loan*		\$ 200,000	\$ -

*The rebate loan program is used to provide Velocity loans with a reduced interest rate for customers who perform energy efficiency improvements (with approved credit). Includes cleared payments and pending payments.

Green Building Impacts	Units	Saved
Credited to Solar Energy	MW	
Credited to Thermal Energy Storage	MW	0.09
Credited to Solar Energy	MWh	
Natural gas	CCF	
Building water	1,000 gal	1,763.00

Data is unaudited and rounded to 2 decimal points.
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Budget data source is eCOMBS.



CES RMC SAVINGS REPORT

FY20 Report
As of 10/31/2019

Irrigation water	1,000 gal	215.00
Construction Waste diversion	Tons	5,299.00

EES/GB Water Savings	Gallons/yr. at 0.45 Gallon/kWh	2,434,667
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Avoided power plant water consumption (evaporation only).

NOTES

Above expenditures may include encumbrances.

SPUR savings numbers are now audited for the previous month. Therefore, they are reported with a one month delay.

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

Total commercial participation does not include GB commercial square foot.

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

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

**Numbers based on M&V study summer of 2016. Free thermostats were not adjusted in FY18 for attrition.

++Budgets maintained within other 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. ERS now only reports incremental MW increases.

‡ Budget for Residential Solar includes incentives only

Data is unaudited and rounded to 2 decimal points.

Program data is provided by individual Programs.

Budget data source is eCOMBS.



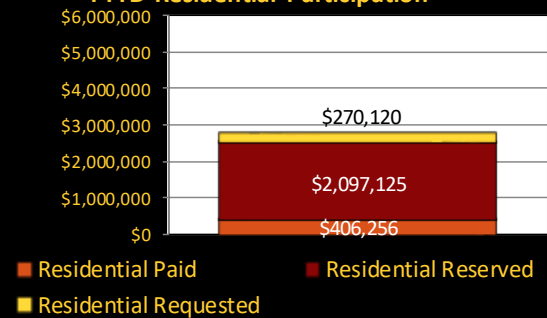
Renewable Energy Programs Report

October FY20

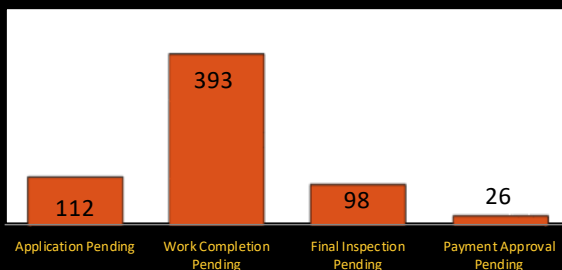
Green Energy Programs	Residential Customers		CAP Customers		Total
Community Solar	176		182		358
	Residential Customers		Commercial Customers		
Green Choice	17,562		1,239		18,801
Solar Incentive Programs					
LOI Issued #	Month	FYTD	ITD	FY Forecast	% of FY Forecast
Residential	241	241	9000	1200	20%
Commercial	0	0	403	40	0%
LOI Committed \$	Month	FYTD	Reserved		
Residential	\$712,500	\$712,500	\$2,097,125	\$3,000,000	24%
Commercial (Estimated Annual PBI Payments)	\$0	\$0	\$91,080	\$1,000,000	0%
LOI Committed kW-AC	Month	FYTD	Reserved		
Residential	1483	1483	3844	NA	NA
Commercial PBI	0	0	1119	NA	NA
Projects Completed #	Month	FYTD	ITD		
Residential	113	113	8,642	1200	9%
Commercial PBI	1	1	294	40	3%
Commercial CBI	0	0	101	NA	NA
Projects Completed \$	Month	FYTD	ITD		
Residential Rebates	\$406,256	\$406,256	\$63,736,323	\$3,000,000	14%
Commercial PBI Paid	\$0	\$185,343	\$6,244,866	\$2,500,000	7%
Commercial CBI	\$0	\$0	\$6,143,408	NA	NA
Projects Complete kW-AC	Month	FYTD	ITD		
Residential	707	707	42,168	7,000	10%
Commercial PBI	100	100	20,968	5,000	2%
Commercial CBI	0	0	1,099	NA	NA
Total kW AC	807	807	64,235	12,000	7%
Projects Completed kWh/yr.	Month	FYTD	ITD		
Residential	1,175,925	1,175,925	63,792,570	11,830,000	10%
Commercial	161,821	161,821	31,599,275	8,450,000	2%
Total kWh	1,337,746	1,337,746	95,391,845	20,280,000	7%

Applications Submitted That Have Not Received LOIs		Current
# of Residential		112
Res Requested Rebate \$		\$270,120
Res Requested Capacity kW-ac		699
# of Commercial		19
Com Requested Rebate \$ (Estimated Annual PBI Payments)		\$147,384
Com Capacity kW-ac		1,884
Monthly Modeling		
Projected Total PBI FY18 Exposure (Modeled \$/Year)		\$2,425,228
Modeled kWh Production- Res		6,655,397
Modeled kWh Production - Com		3,309,367

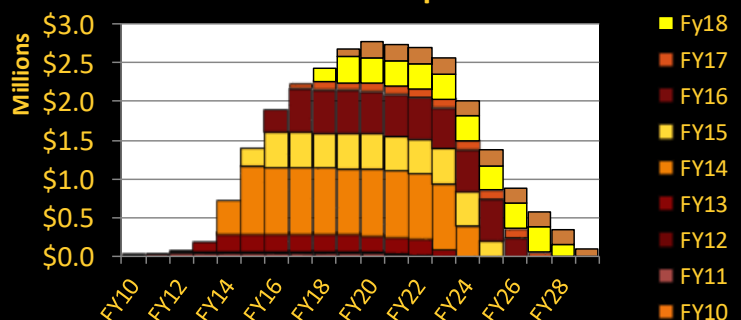
FYTD Residential Participation



Residential - Application Status

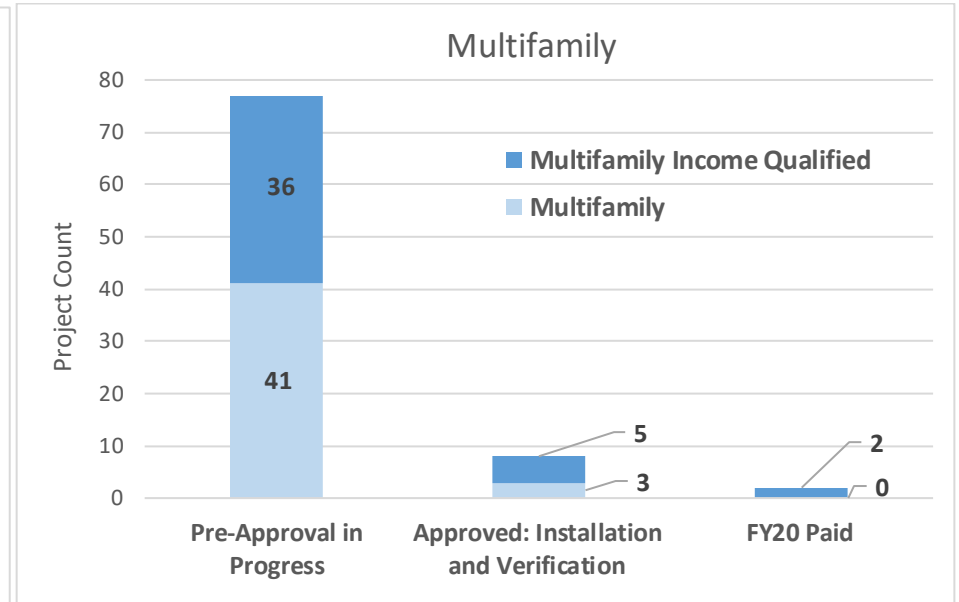
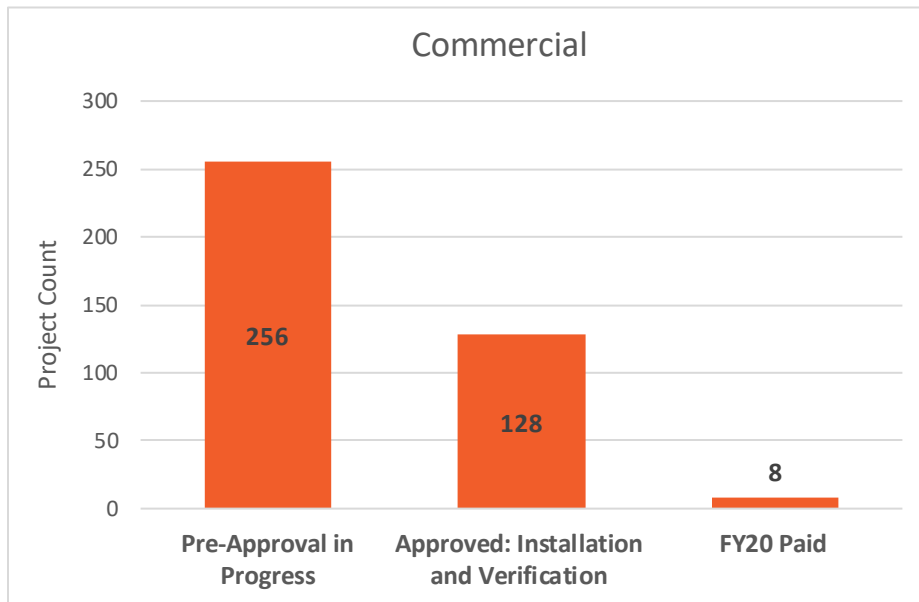


PBI Modeled FY Expenditure



Monthly Report of Multifamily and Commercial Energy Efficiency Rebate Projects

November 2019



Notes:

1. The graphs above include leads and applications regardless of estimated rebate amount.
2. "Pre-Approval in Progress" includes: 1) customer/contractor submitted leads; 2) applications in development but not yet submitted to Austin Energy; and 3) applications submitted to Austin Energy that are under review for eligibility and approval of project scope.
3. "Approved: Installation and Verification Ongoing" includes projects: 1) approved with installation underway; and 2) where installation is complete and final inspection and quality review are ongoing.
4. "FY20 Projects Paid" includes projects in which the check or payment has been distributed to the customer in FY20 (since Oct. 10, 2019).
5. In coordination with the customer and contractor, Austin Energy periodically removes leads and applications that do not proceed to installation.

Multifamily and Commercial Energy Efficiency Rebate Projects

November 2019

Table 1: Multifamily and Multifamily Income Qualified – Estimated RCA Project Pipeline (for estimated rebates \geq \$61k)

Program	Latest Workflow	Enrollment Number	Location Name	Installation Address	Council District	Estimated kW w TDS	Estimated kWh w TDS	Estimated \$ Incentive	Measures Planned	Total # of Units
Multifamily	Installation	1184360	Iron Horse Flats*	1930 W RUNDBERG LN	4	58.4	204,004	\$95,630	Lighting, Smart Thermostats, HVAC Tune-Up,	200
Multifamily	Installation	1174928	Lamar Place Apartments†	6309 BURNS ST	4	28.5	135,460	\$63,495	Smart Thermostats, HVAC Tune-Up	154
MF Income Qualified	Installation	1176942	Metropolis Apartments†	2200 S PLEASANT VALLEY RD	3	61.3	288,154	\$120,900	Smart Thermostats, HVAC Tune-Up	310
MF Income Qualified	Installation	1177101	Silver Springs Apartments†	12151 N IH 35 SVRD NB	1	150.8	475,735	\$288,877	Duct Sealing, Lighting, Smart Thermostats, HVAC Tune-Up, Water Saving Devices	360
MF Income Qualified	Installation	1179433	Forest Park Apartments*	1088 PARK PLZ	4	97.5	402,716	\$157,159	Attic Insulation, Duct Sealing, Lighting, Smart Thermostats, HVAC Tune-Up, Water Saving Devices	228

* RCA Fact Sheets included in this report

† Approved by Council on Sept. 19, 2019

Table 2: Commercial – Estimated RCA Project Pipeline (for estimated rebates \geq \$61k)

Program	Latest Workflow	Enrollment Number	Location Name	Installation Address	Council District	Estimated kW w TDS	Estimated kWh w TDS	Estimated \$ Incentive	Measures Planned
Commercial	Installation	1090681	Seton Healthcare*	1201 W 38TH ST	10	571	2,626,953	\$139,879	Lighting
Commercial	Installation	1179740	Atria Senior Living*	9306 GREAT HILLS TRL	10	220	839,176	\$63,335	Lighting

* RCA Fact Sheets included in this report

Estimated RCA Project Pipeline Notes:

1. Estimated RCA Pipeline only include projects approved for Installation, with estimated rebates \geq \$61k. Rebates, kW, and kWh are subject to change.
2. RCA Fact Sheets will be provided for all projects receiving \geq \$61k in rebates upon completion of the pre-installation inspection.
3. Estimated kW and kWh savings include estimated transmission and distribution system losses.



MULTIFAMILY REBATE FACT SHEET

Iron Horse Flats

Note: Data reflects the proposal scope prior to installation and is subject to change pending final installation and inspection.

Property Name	Iron Horse Flats				
Customer Name	Iron Horse Apartments				
Property Address	1930 West Rundberg Lane, Austin, TX 78758				
Year Built	1985				
Average Rent per Floor Plan	1BR \$1,021; 2BR \$1,346				
Number of Rentable Units¹	200				
Housing Type	Market Rate				
Water Heater Type	Electric				
Electric Utilization Intensity (EUI)	9.99 kWh/sqft				
Average Electric Utilization Intensity for cohort ²	10.99 kWh/sqft				
Project and Rebate					
Total Project Costs - Estimated	\$119,550				
Total Rebate - Estimated	\$95,630				
% of Total Construction Costs	80%				
Rebate per Unit - Estimated	\$478				
Note(s)					
Replace 3800 incandescent, candelabra, spot or linear fluorescent lamps with like number of LED lamps. Install 202 smart thermostats. Perform HVAC tune-up on 200 units with a total tonnage of 400 tons. Install water saving devices.					
Project Annual Savings at 100% Occupancy					
Kilowatt (kW) Saved - Estimated	58.4 kW				
Kilowatt-hours (kWh) - Estimated	204,004 kWh				
\$/kW - Estimated	\$1,638/kW				
Annual Dollar Savings Per Customer - Estimated³	\$95				
Scope of Work					
Measure	Rebate Amount - Estimated	kW Saved – Estimated	kWh Saved – Estimated	\$/kW	Annual Dollar Savings Per Customer⁴
Lighting	\$11,800	17	10,844	\$692	\$5
Smart Thermostats ⁵	\$35,350	18	100,801	\$2,009	\$47
HVAC Tune-Up	\$48,480	24	92,359	\$2,042	\$43
Total	\$95,630	59	204,004		\$95
Measures Performed in last 10 years at this property					
None		Completion Date		Rebate Amount	

¹ Source: ApartmentTrends.com (<https://www.apartmenttrends.com/>)

² Cohort Type is determined by the year the property is built and the heating type (either gas or electric)

³ Calculation based on 10 cents per kWh

⁴ Energy (kWh) and dollars (\$) saved per project varies by both the size of the project and the type of heating. Projects with electric heat generally have higher savings than projects with gas heat.

⁵ White Rodgers Legacy thermostats (installed in 2005) being replaced with Nest thermostats. Extra \$25 rebate given for transitioning. Tenants can also obtain an additional \$85 incentive if they choose to participate in Austin Energy's Demand Response program.



MULTIFAMILY REBATE FACT SHEET

Forest Park Apartments

Note: Data reflects the proposal scope prior to installation and is subject to change pending final installation and inspection.

Property Name	Forest Park				
Customer Name	FP Affordable Housing LP				
Property Address	1088 Park Plaza Austin, TX 78753				
Year Built	1996				
Average Rent per Floor Plan	1BR \$880; 2BR \$1,054; 3BR \$1,168; 4BR \$1,331				
Number of Rentable Units¹	228				
Housing Type²	Income Qualified				
Water Heater Type	Heat Pump				
Electric Utilization Intensity (EUI)	8.28 kWh/sqft				
Average Electric Utilization Intensity for cohort³	10.99 kWh/sqft				
Project and Rebate					
Total Project Costs - Estimated	\$157,160				
Total Rebate – Estimated	\$157,160				
% of Total Construction Costs	100%				
Rebate per Unit - Estimated	\$689				
Note(s)					
Perform Duct Remediation and Sealing of 230 upflow air handlers with heat pump heat. Replace 3096 incandescent, candelabra, spot or linear fluorescent lamps with like number of LED lamps. Install 230 smart thermostats. Perform HVAC tune-up on 230 units with a total tonnage of 460 tons. Install water saving devices.					
Project Annual Savings at 100% Occupancy					
Kilowatt (kW) Saved - Estimated	97.5 kW				
Kilowatt-hours (kWh) - Estimated	402,716 kWh				
\$/kW - Estimated	\$1,612/kW				
Annual Dollar Savings Per Customer - Estimated⁴	\$165				
Scope of Work					
Measure	Rebate - Estimated	kW Saved – Estimated	kWh Saved – Estimated	\$/kW	Annual Dollar Savings Per Customer⁵
Duct Remediation and Sealing	\$34,200	25	31,230	\$1,353	\$13
Lighting	\$12,888	12	8,661	\$1,103	\$4
Smart Thermostats ⁶	\$34,500	20	114,774	\$1,722	\$47
HVAC Tune-Up	\$69,000	27	106,213	\$2,527	\$43
Water Saving Devices	\$6,571	13	141,838	\$496	\$57
Total	\$157,159	97	402,716		\$165
Measures Performed in last 10 years at this property					
None		Completion Date	Rebate Amount		

¹ Source: ApartmentTrends.com (<https://www.apartmenttrends.com/>)

² Property is listed in the Austin Tenants Council Guide to Affordable Housing in the Greater Austin Area (15th Edition)

³ Cohort Type is determined by the year the property is built and the heating type (either gas or electric)

⁴ Calculation based on 10 cents per kWh

⁵ Energy (kWh) and dollars (\$) saved per project varies by both the size of the project and the type of heating. Projects with electric heat generally have higher savings than projects with gas heat.

⁶ White Rodgers Legacy thermostats (installed in 2005) being replaced with Nest thermostats. Extra \$25 rebate given for transitioning. Tenants can also obtain an additional \$85 incentive if they choose to participate in Austin Energy's Demand Response program.



COMMERCIAL REBATE FACT SHEET

Atria at Arboretum

Note: Data reflects the proposal scope prior to installation and is subject to change pending final installation and inspection.

Property Name	Atria at Arboretum			
Customer Name	WG Arboretum LLC			
Property Address	9306 Great Hills Trail Austin, TX 78759			
Total Square Feet	158,408			
Year Built	2008			
Air Conditioner Tonnage	1140			
Water Heater Type	Electric			
Total Project Costs - Estimated	\$185,501			
Total Rebate – Estimated	\$63,336			
% of Total Construction Costs	34%			
Note(s)				
Atria at Arboretum, a senior living facility, retrofitted their existing lamps with high efficiency LED lighting. This has resulted in a rebate of \$63,336. The rebate will cover 34% of the total project cost (\$185,501).				
Project Annual Savings (Estimated)				
Kilowatt (kW) - Estimated	220 kW			
Kilowatt-hours (kWh) - Estimated	839,176 kWh			
\$/kW	\$288 / kW			
Scope of Work				
Measure	Rebate - Estimated	kW Saved – Estimated	kWh Saved – Estimated	\$/kW
Lighting	\$63,335	220	839,176	\$288
Total	\$63,335	220	839,176	\$288
Measures Performed in last 10 years at this property		Completion Date	Rebate Amount	
Lighting Retrofit		7/14/11	\$404.00	
Lighting Retrofit		11/10/10	\$841.00	



COMMERCIAL REBATE FACT SHEET

Seton Healthcare

Note: Data reflects the proposal scope prior to installation and is subject to change pending final installation and inspection.

Property Name	Seton Healthcare			
Customer Name	Seton Healthcare			
Property Address	1201 West 38 th Street, Austin, TX 78705			
Total Square Feet	792,332			
Year Built	1975			
Air Conditioner Tonnage	2000			
Water Heater Type	Gas			
Total Project Costs - Estimated	\$530,623			
Total Rebate – Estimated	\$139,879			
% of Total Construction Costs	26%			
Note(s)				
Seton Healthcare on W. 38 th Street is retrofitting their existing lighting with high efficiency LED lights.				
Project Annual Savings (Estimated)				
Kilowatt (kW) - Estimated	571 kW			
Kilowatt-hours (kWh) - Estimated	2,626,953 kWh			
\$/kW	\$245 /kW			
Scope of Work				
Measure	Rebate - Estimated	kW Saved – Estimated	kWh Saved – Estimated	\$/kW
LED Lighting Retrofit	\$ 139,879	571	2,626,953	\$ 245
Total	\$ 139,879	571	2,626,953	\$ 245
Measures Performed in last 10 years at this property	Completion Date		Rebate Amount	
N/A	N/A		N/A	