



To: Honorable President and
Members of the Public Utilities Board

From: Nicolas Procos, General Manager

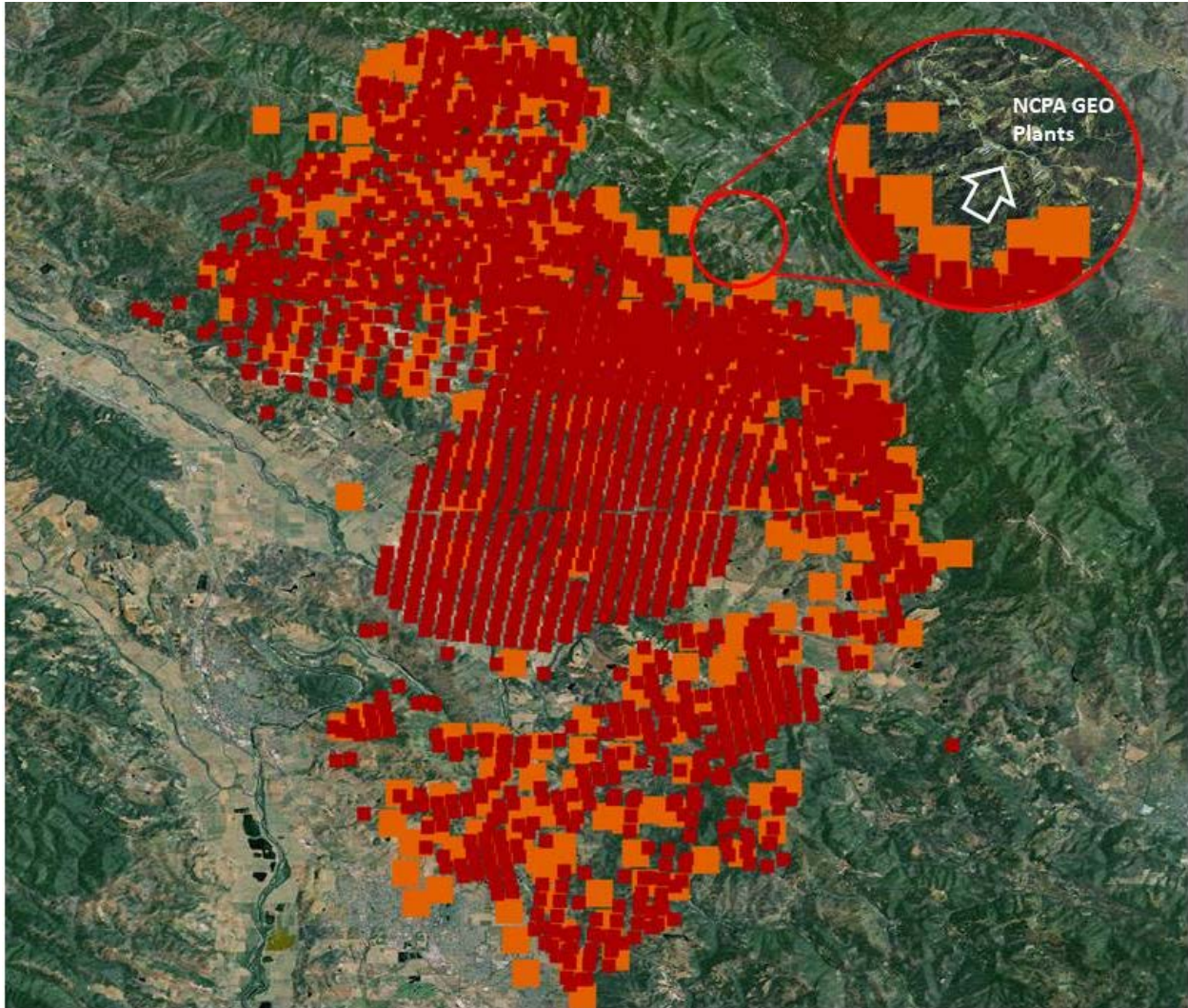
Re: General Manager's Report – October, 2019

PUB Highlights

- **Electric Vehicles Workshop**– On October 16, Customer Resource division (CRD) staff hosted a free public workshop on electric vehicles (EV). More than 50 Alamedans attended to learn about the costs of buying and owning an EV; the various savings, rebates and incentives available; how charging works; and EVs and rooftop solar.
- **Communications Award**– Alameda Municipal Power (AMP) won first place for excellence in Communications from the American Public Power Association (APPA). The award highlighted CRD's bill inserts for public safety topics, including the dangers of flying Mylar balloons and kites near power lines, digging without calling 811 first, and the dangers of making payments to scammers.
- **Recruitment**– AMP's Engineering and Operations division is gathering candidates for its Apprentice Lineworker and Electrical Engineer recruitments.
- **2020 Resource Adequacy Sales**– Energy Resource Planning (ERP) finalized sale of Resource Adequacy (RA) for 2020 with three different counterparties for a net revenue of \$2.66 million, approximately \$1.1 million greater than if transacted through Northern California Power Agency's (NCPA) Capacity Pool alone. The counterparties are City of Palo Alto, East Bay Community Energy (EBCE), and Peninsula Clean Energy (PCE). A recent analysis by California Independent System Operator (CAISO) shows a potential shortage of RA in the near-term (2020-2022) which increases demand and makes market prices significantly higher than normal. The additional revenues generated through the RA sales will help mitigate increases in power costs, further reducing rate impacts.
- **California Renewable Energy Procurement Summit 2.0**–Assistant General Manager-ERP Vidhi Chawla attended the conference organized by Infocast on October 28, where she participated in two panel discussions: 1) Assessing the Pros and Cons of a Statewide Central Buyer; 2) Role of Hydropower in California's Energy Future. The goal of the conference was to provide the perspectives of the state's leading energy buyers as the state continues to add more renewables to the grid to reach 2045 targets. Load-serving entities discussed the challenges of understanding each other's roles, navigating the regulatory landscape, and planning for the future. The conference was well attended by investor-owned utilities, community choice aggregators, publicly owned utilities, project developers, and consultants.

- **New Customer Portal**– Since launch, the user count for the new account management tool on the customer portal is at 7,248. Of those registered, 997 customers have elected to receive an electronic bill. Post-implementation care efforts continue, including system monitoring, issue resolution, and enhancements.
- **Public Safety Power Shutoffs**– AMP staff was closely involved in the two recent Pacific Gas and Electric (PG&E) Public Safety Power Shutoffs (PSPS) that affected the greater Bay area. Before, during, and after each event, staff monitored the situation through PG&E channels and our partners at NCPA, and evaluated wind and other weather information, and the fire situation statewide. Although Alameda is not in a high fire risk area, storms and strong winds can affect our system. AMP staff have developed contingency plans in the event a PSPS should impact the transmission system serving the island and was ready to implement the plans in the event of a notification from PG&E.
- **Outages**– AMP experienced two outages during the recent strong winds.
 - On October 27 at 10:59 a.m., vegetation caused an outage to 97 customers for a period lasting 53 minutes.
 - At 2:34 p.m. the same day, a Mylar balloon caused an outage to 75 customers for a period lasting 42 minutes.
 - Our crews and system operators were active throughout the day and worked diligently to restore power, while managers and communication specialists monitored the situation and kept key personnel and the public informed.
- **Safety Summary**
 - Lost Time Cases
 - October: 0
 - Year to Date: 0
 - Vehicle Accidents/ Incidents Year to Date: 3
- **Kincade Fire Impact on NCPA Geothermal Plants**– On October 23, 2019, the Kincade fire started northeast of Guyserville and approximately 5 miles northwest of NCPA Geothermal Plants 1 & 2. The suspected cause of the fire is a PG&E-owned transmission line. NCPA Geothermal Plant 1 taps into the suspected PG&E-owned transmission line and tripped offline at the time of the transmission fault. NCPA took their Geothermal Plant 2 offline shortly after. Aside from some last minute fire prevention measures, the Geothermal Plants were left unoccupied for the duration of the fire. Once Cal Fire lifted the mandatory evacuation notice, crews returned to the plants to assess the damages. Thankfully, no fire damage was reported and only minimal wind-related damage occurred. NCPA's Geothermal Plant 2 resumed normal operations on November 6th. Plant 1 is also prepared to begin normal operations, however NCPA is waiting for PG&E to energize the outgoing transmission line for this facility before it can come back online. AMP staff has reviewed the potential financial impacts of an optimistic geothermal outage duration, as well as a scenario with an extended outage at Plant 1. The

primary financial impact is a loss of market revenues with additional impacts from lost renewable energy credit (REC) sales of approximately \$330,000.



CUSTOMER PROGRAMS & EXPERIENCE

Table 1: Summary of Energy Efficiency Programs as of October 31, 2019

SUMMARY OF ENERGY EFFICIENCY PROGRAMS AS OF OCTOBER 31, 2019*					
Program	Annual Savings Target kWh/yr	1st Quarter	Oct-19	Cumulative Energy Savings kWh/yr	Percent of Annual Target
Residential Refrigeration	34,000	4,076	4,636	8,712	26%
Residential Lighting	136,000	2,554	2,028	4,582	3%
Residential Other		2,062	1,600	3,662	
Energy Plus	461,746	381,619	156,351	537,970	117%
Non-Residential Lighting, Custom	89,840	0	60,106	60,106	67%
Non-Residential Customized, Other	88,334	0	0	0	0%
Non-Residential New Construction	21,080	0	0	0	0%
Non-Residential, Other		0	0	0	
TOTAL	831,000	390,311	224,721	615,032	74%

*Numbers represent gross savings

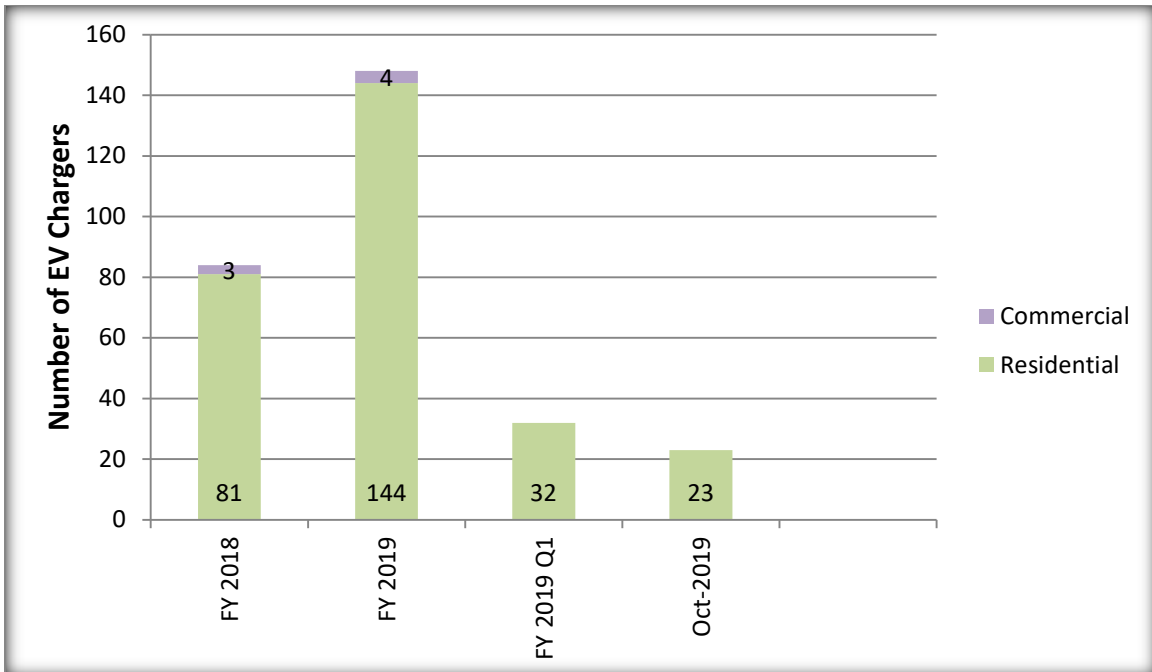


Figure 1: Electric Vehicle Charger Rebates

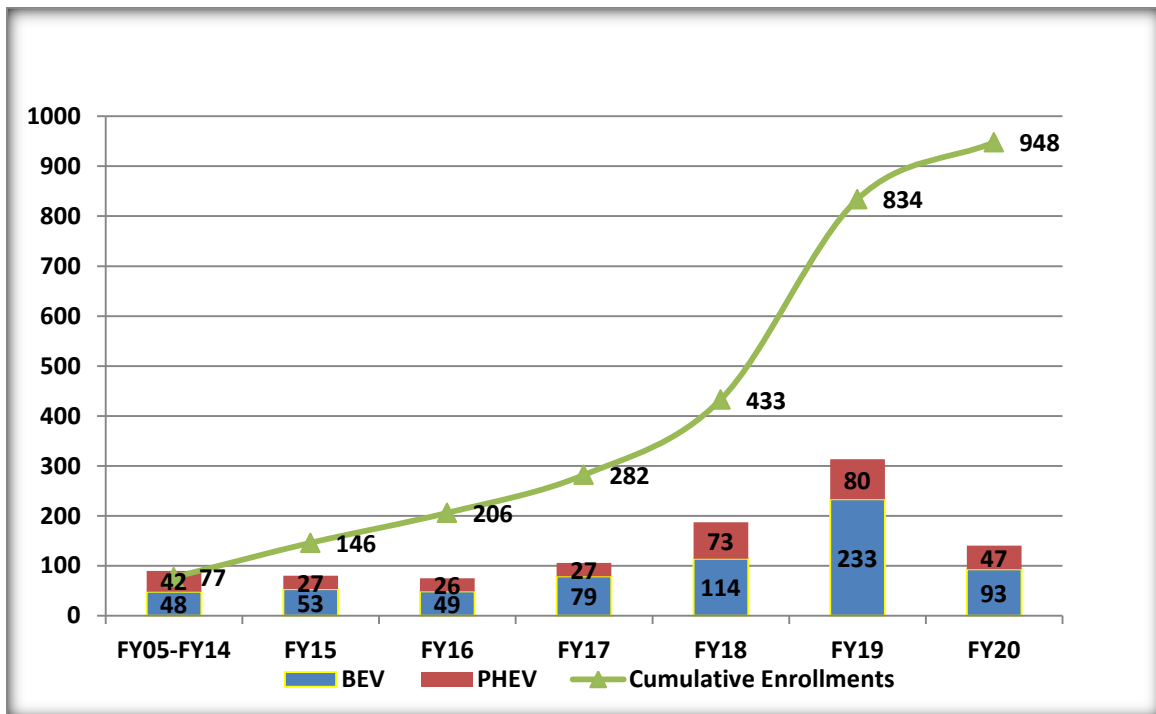


Figure 2: Electric Vehicle Discount Program Participation

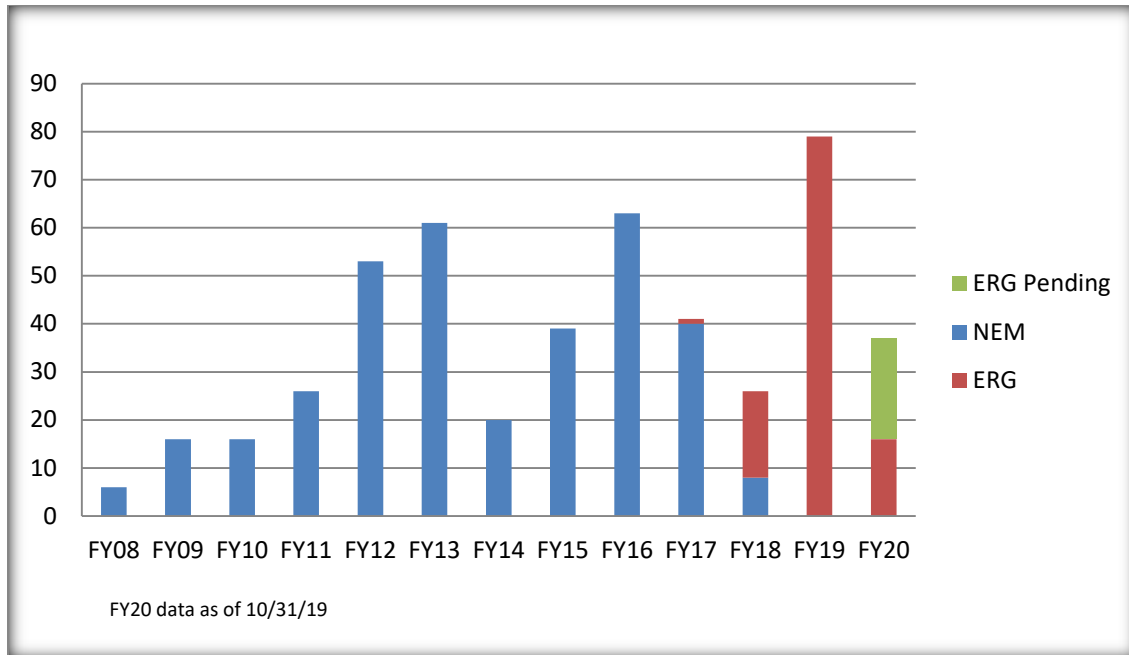


Figure 3: Residential Solar Interconnections

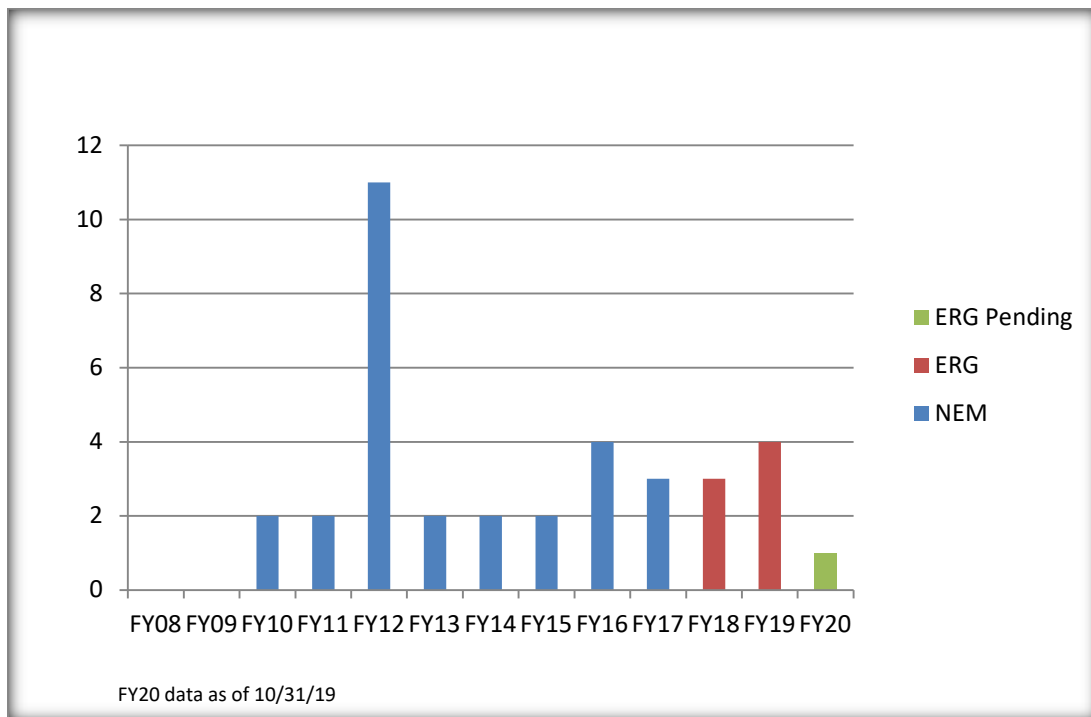


Figure 4: Commercial Solar Interconnections

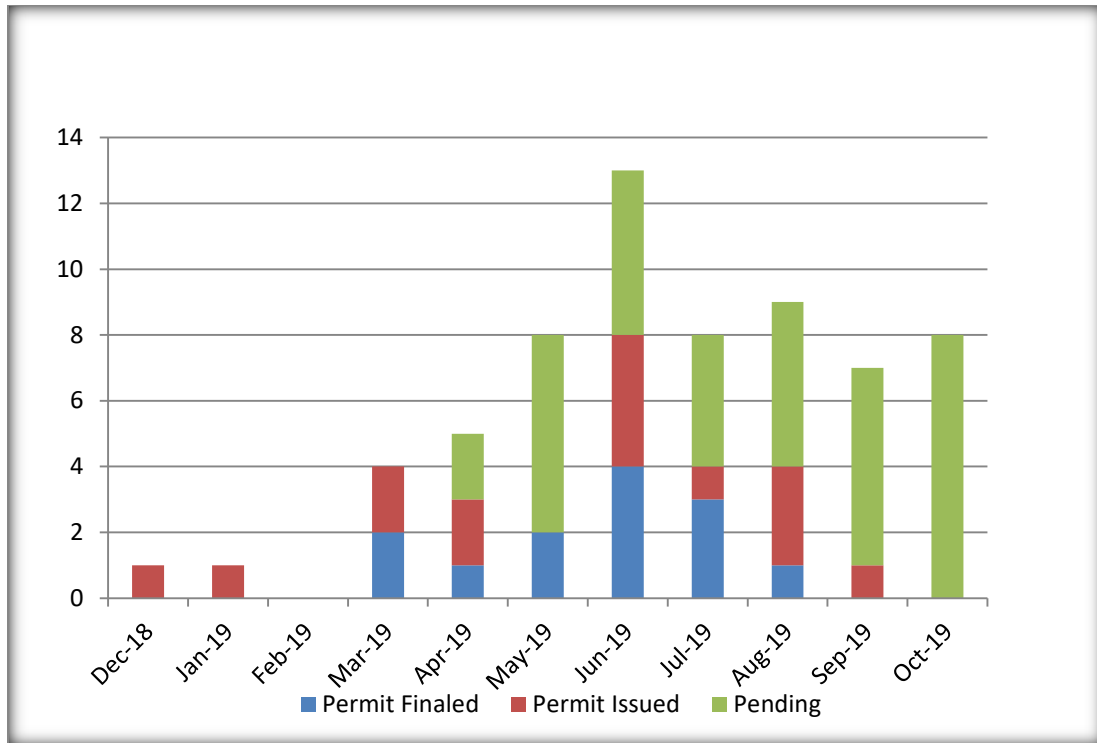


Figure 5: Battery Storage

FINANCIALS

Table 2: Monthly and Year to Date Total Operating Revenue and Expense Report as of October 31, 2019

<i>Report Status as of:</i>				
October 31, 2019	Monthly		Annual (FY) To Date	
	Goal	Result	Goal	Result
Total Operating Revenue - Electric (September 2019)	5,611,945	5,681,838	16,436,262	17,549,196
Total Operating Expense - Electric (September 2019)	4,342,278	3,976,765	11,827,042	11,846,084
Note: Shaded areas indicate the data is displayed on the accompanying graphs				

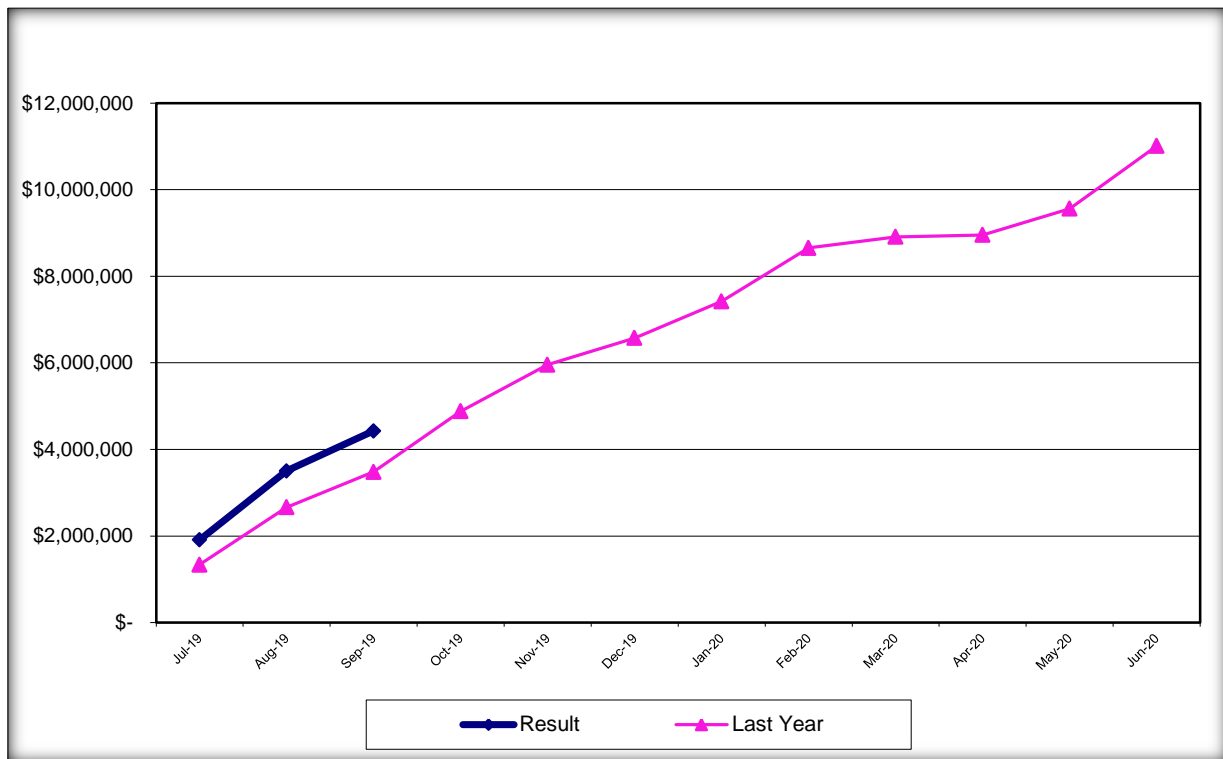


Figure 6: Fiscal Year 2020 Cumulative Net Income – Electric

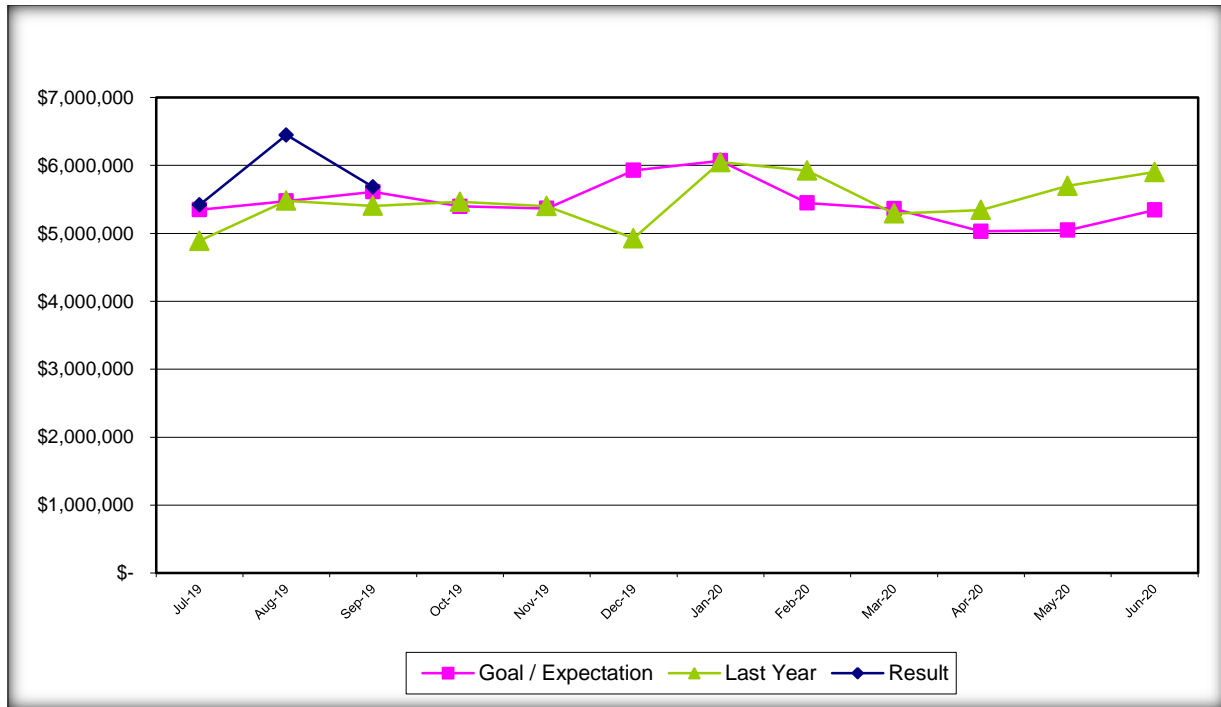


Figure 7: Fiscal Year 2020 Monthly Operating Revenue – Electric

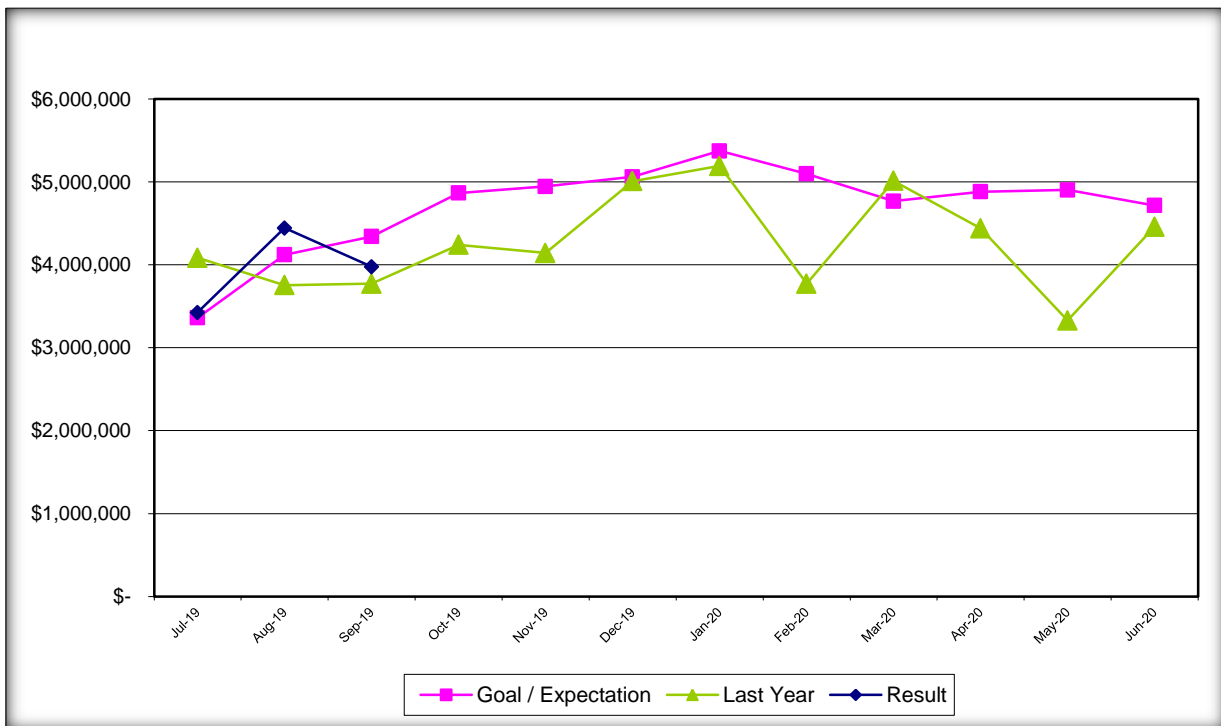


Figure 8: Fiscal Year 2020 Monthly Operating Expense – Electric

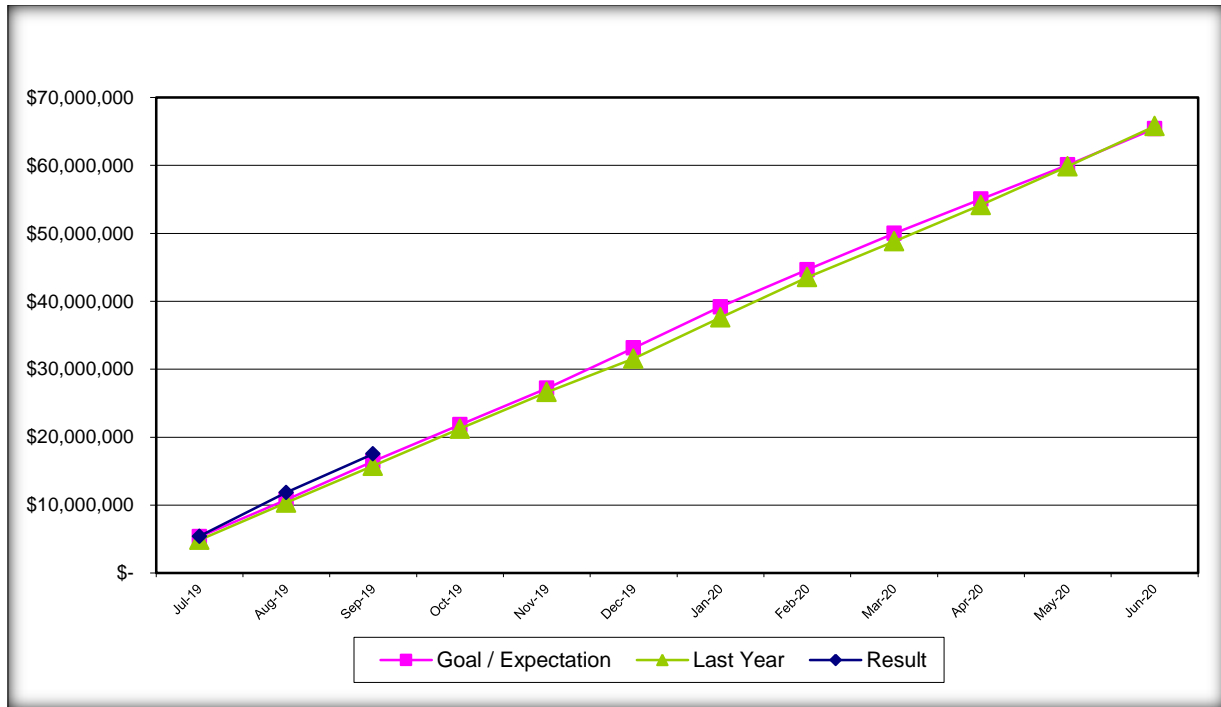


Figure 9: Fiscal Year 2020 Cumulative Operating Revenue – Electric

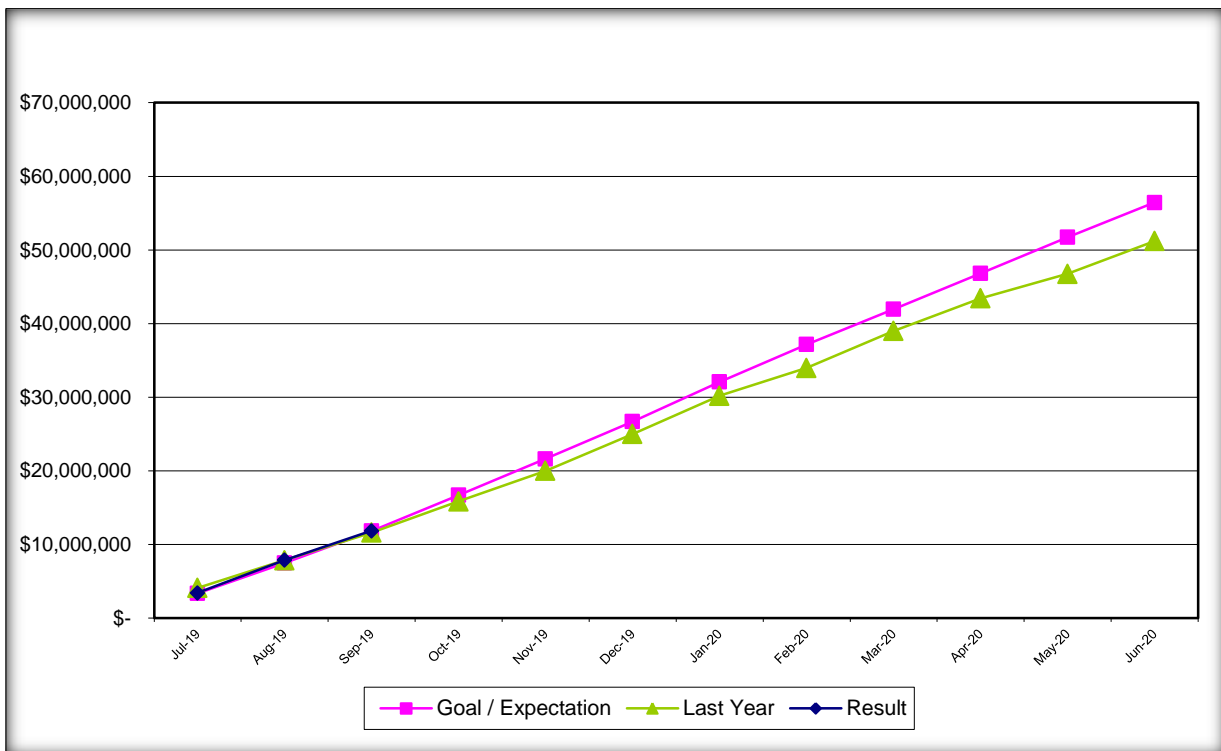


Figure 10: Fiscal Year 2020 Cumulative Operating Expense – Electric

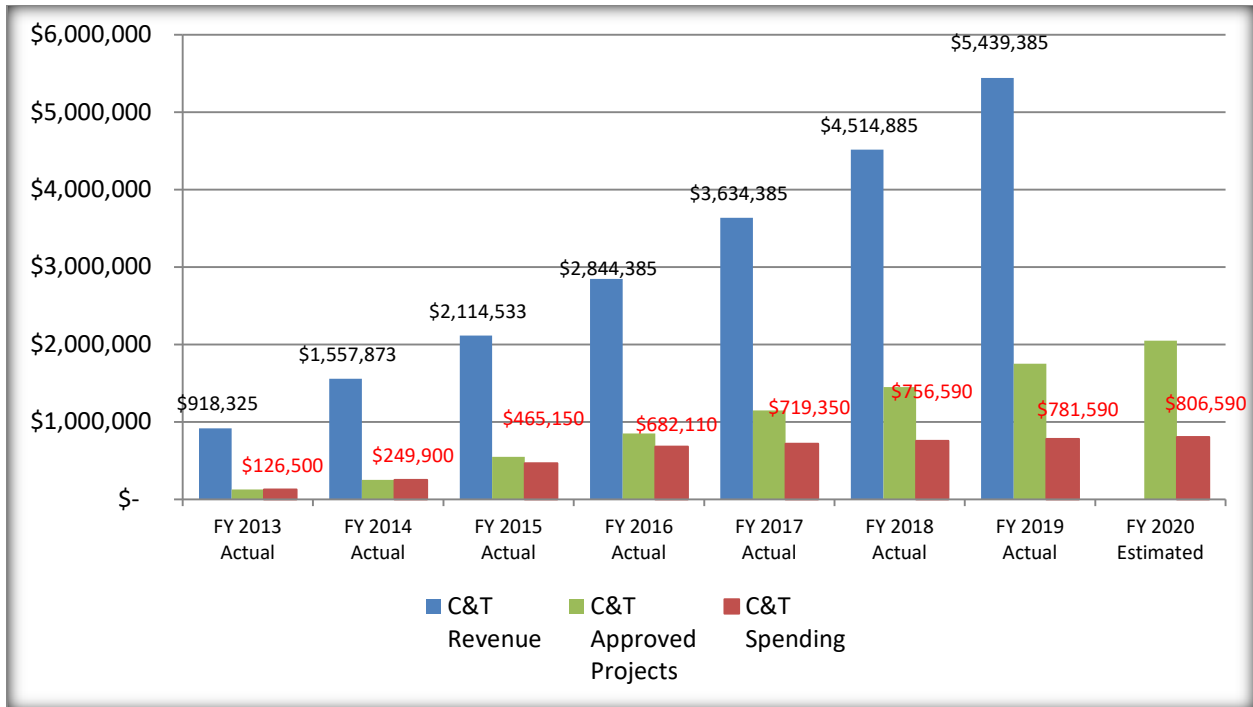


Figure 11: Cap & Trade (CT) Cumulative Through September 2019

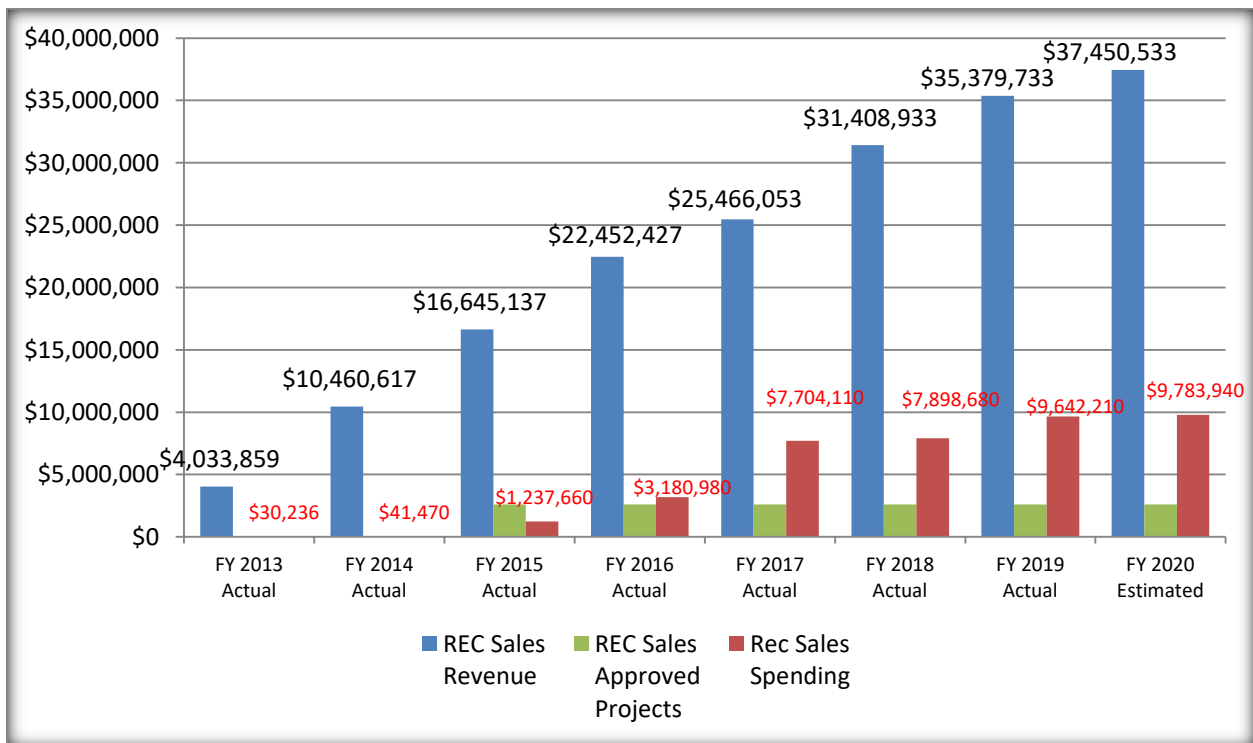


Figure 12: Renewable Energy Credits (REC) Sales Cumulative Through September 2019

OPERATIONAL STATISTICS

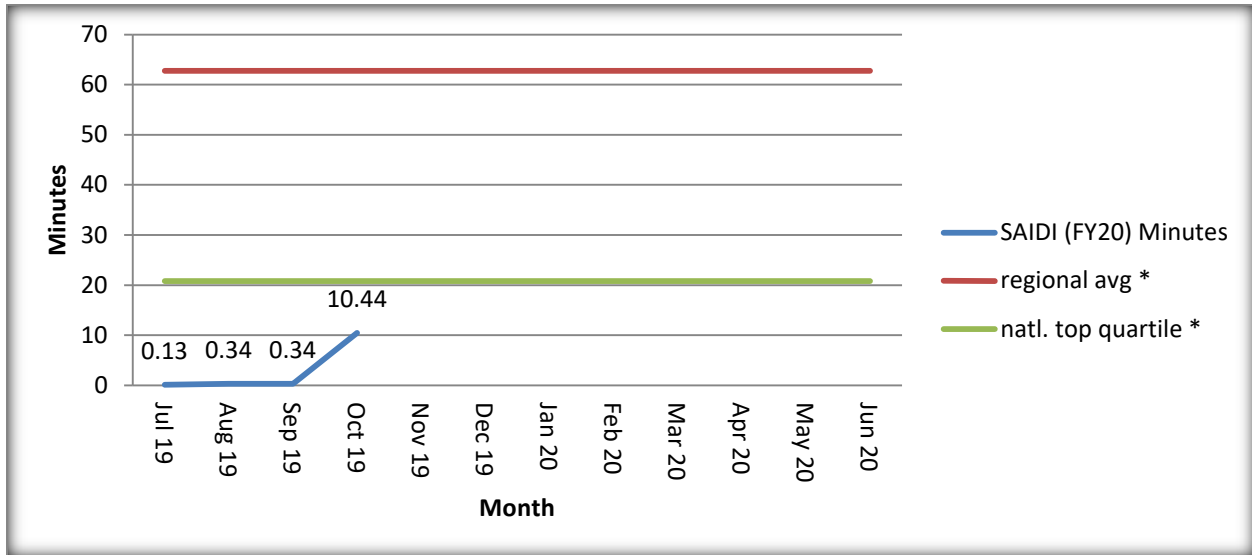


Figure 13: System Average Interruption Duration Index (SAIDI) Fiscal Year 2020

*Based on Benchmark study of APPA Region 6

SAIDI=
$$\frac{\text{Sum of customer-minutes off for all interruptions}}{\text{Total number of customers served}}$$

System Average Interruption Duration Index (SAIDI):

SAIDI is defined as the average duration of interruptions for customers served during a specified time period. Similar to CAIDI, but the number of customers served instead of affected is used. The unit is minutes. A common usage of SAIDI is "If all customers were without power the same amount of time, they would have been out for _____ minutes.

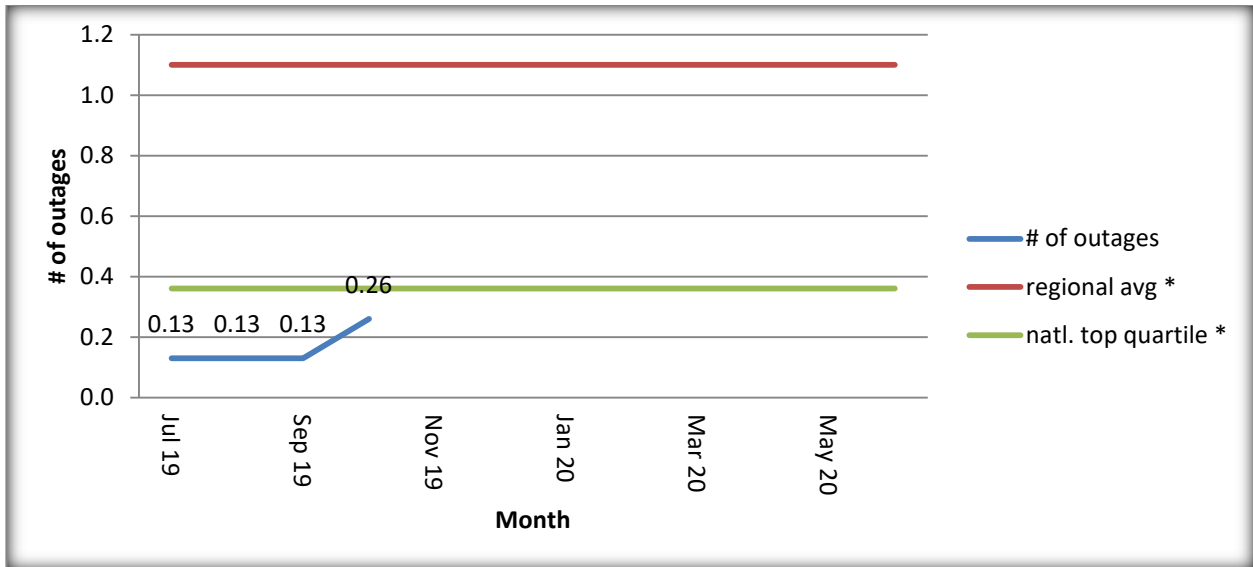


Figure 14: System Average Interruption Frequency Index (SAIFI) Fiscal Year 2020

*Based on Benchmark study of Western Regional Utilities

$$\text{SAIFI} = \frac{\text{Total \# of customers affected by interruptions}}{\text{Total number of customers served}}$$

System Average Interruption Frequency Index (SAIFI):
 SAIFI describes the average number of times a customer experiences a sustained interruption during a specified time period. The unit for SAIFI is 'interruptions per customer'. A common usage of SAIFI is "On average, customers experienced _____ interruptions".

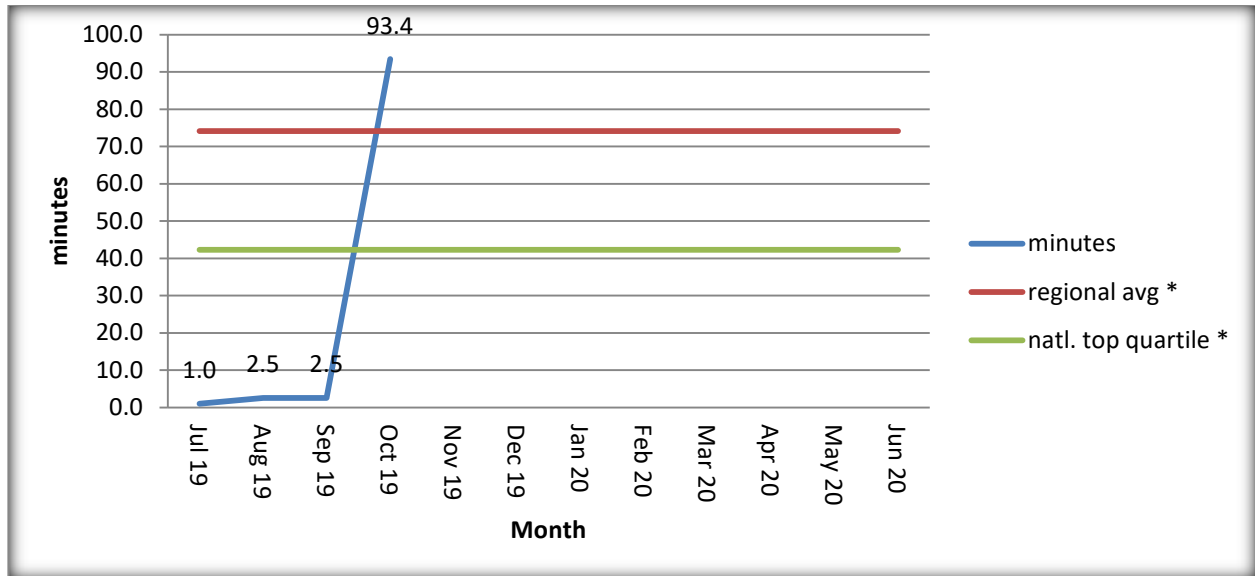


Figure 15: Customer Average Interruption Duration Index (CAIDI) Fiscal Year 2020

*Based on Benchmark study of Western Regional Utilities

$$\text{CAIDI} = \frac{\text{Sum of customer-minutes off for all sustained interruptions}}{\text{Total \# of customers affected by the sustained interruptions}}$$

Customer Average Interruption Duration Index - CAIDI

CAIDI is the weighted average length of an interruption for customers affected during a specified time period. The unit of CAIDI is minutes. A common usage of CAIDI is "The average customer that experienced an outage is out for _____ minutes."

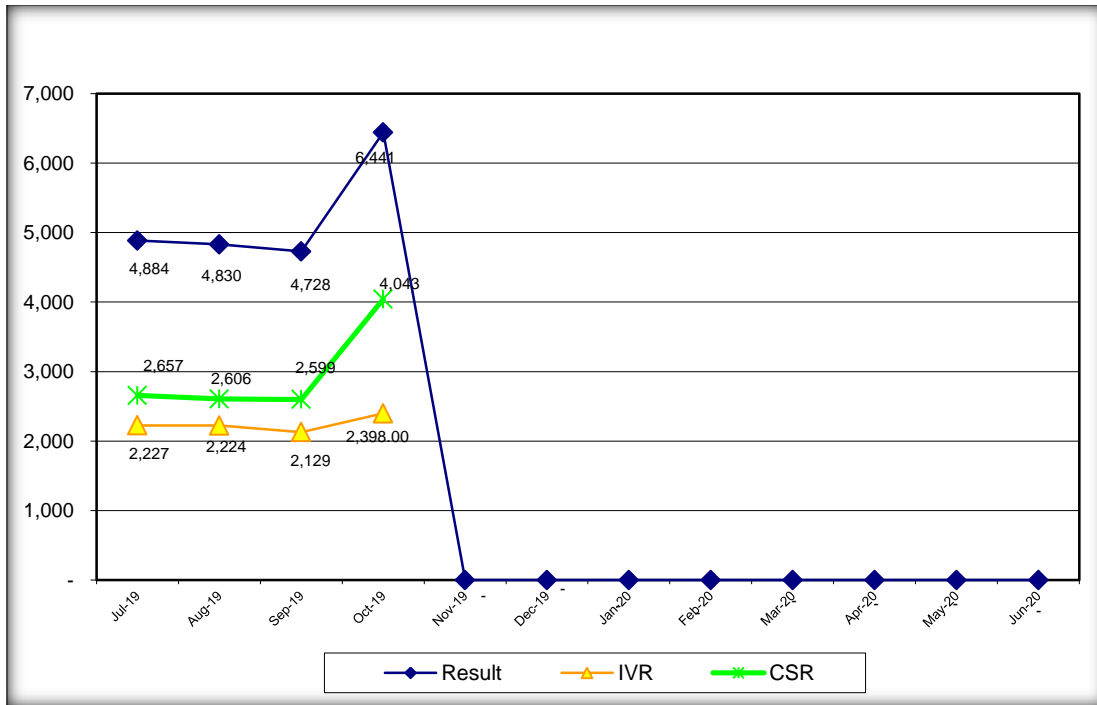


Figure 166: Call Volume Through October 31, 2019