ALAMEDA MUNICIPAL POWER
A Department of the City of Alameda

To: Honorable President and
Members of the Public Utilities Board

From: Nicolas Procos, General Manager

Re: General Manager's Report – May 2021

PUB Highlights

- **Customer Service Update -**
  - Ferry Service at Bay Farm and Seaplane Lagoon will resume in July. Schedules and fees have been modified to increase ridership as the economy recovers from the pandemic. The San Franciso Bay Ferry and AC Transit have partnered to offer direct service between Fruitvale Bart and Seaplane Lagoon terminal to facilitate ridership between the two public transit systems. The Seaplane Lagoon terminal has adjusted routes to accommodate a water taxi service across the estuary.
  - Point Energy Innovations, the architect behind the new 200k sq ft Exelixis building on Harbor Bay Parkway, received AMP's $10,000 designer incentive for advanced design. The high-tech, all-electric building includes a heat pump water system, induction cooking, and a Variable Refrigerant Flow (VRF) space heating system. The building owner can receive a new construction incentive when commissioning is complete later this year.
  - South Shore Safeway received a $49,812.48 rebate from AMP's Energy Plus program for installing new higher-efficient refrigeration cases that save 216,516 kWh annually.
  - Early enrollment for the new TOU rate has taken off with 80 applications received in the first 2 days. The new TOU rate goes into effect July 1.

- **Energy Resource Planning/NCPA Update –**
  - Hydro Update - Spring runoff tapered off at the end of May at NCPA Hydro's key reservoir, New Spicer Meadows. The reservoir briefly reached 50% of total capacity (65% of average levels) before beginning it's gradual decline that will continue for the rest of the year.
  - Forward power prices have escalated to over $100/MWh for on-peak power in the month of August. This is well above average and reflects concerns of scarcity of available power in the market as we contend with poor hydro conditions, high probabilities of above-average temperatures, and continued tight reserve margins. AMP should not be negatively impacted by these prices as we are fully resourced.

- **Administration Update**
  - All of AMP's staff have participated in weekly phishing security testing/education exercises over the past year. AMP's phish-prone percentage has been on a downward trend and has recently reached an all-time low. Any phishing exercise failures resulted in additional security training. Additionally, all of AMP's currently active staff have recently completed Identity Theft Prevention Training that covers data protection as well as cybersecurity concepts.
  - AMP completed its last cybersecurity assessment through American Public Power Association (APPA) in late 2020 and previously enlisted a local cybersecurity specialty firm for penetration testing and assessment in 2019.
  - AMP's online portal continues to grow in subscribers. As of this month, there are 15,562 active accounts, which is an increase from the approximate 14K we reported in January. Monthly access to accounts continues to be in the 18-20K range

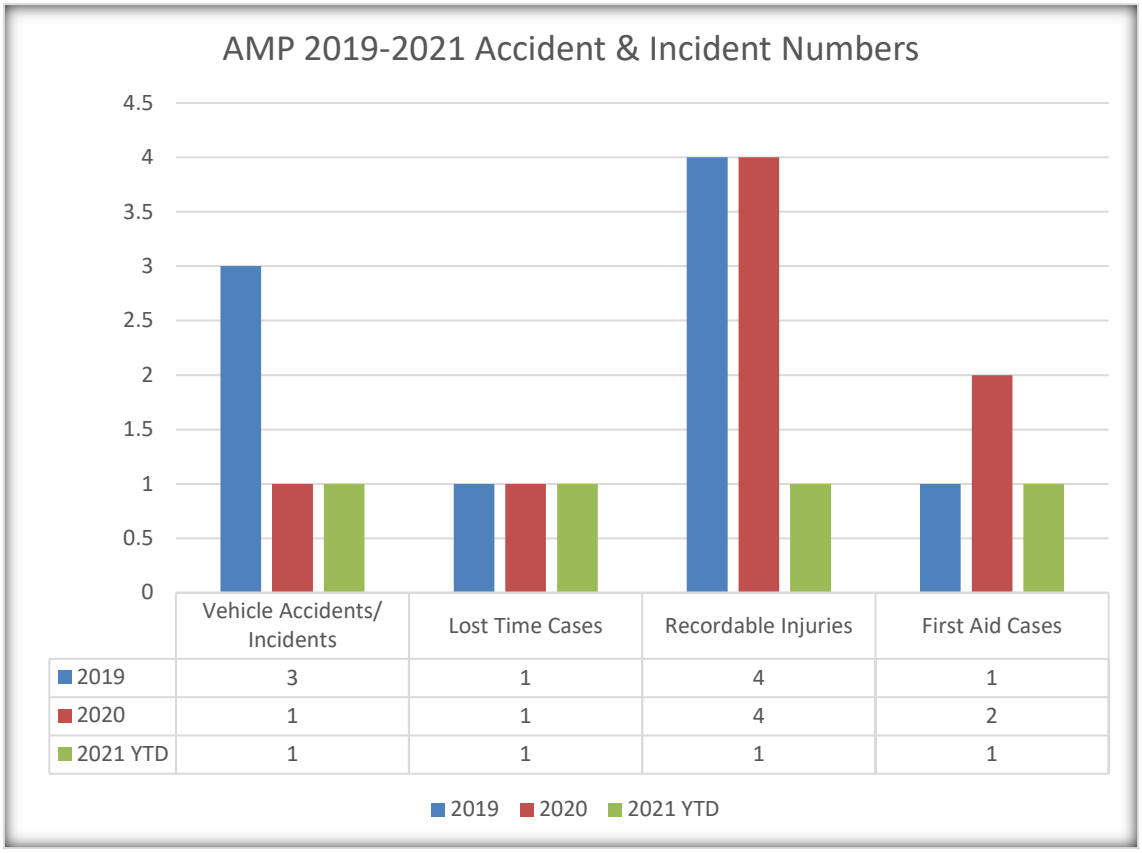
- **Engineering and Operations Updates -**
  - Continued copper theft attempts are causing outages. Staff is working on various solutions to deter vandals/thieves.
  - UUD 38 design will be changed to allow for various subsurface equipment due to lack of opportunities for placement of padmounted equipment. Cooperation with other utilities progressing.
  - New backbone infrastructure installation at Marina Village is progressing to support growing commercial customer needs.
  - Targeted Meter Socket Rebate Program
    - Original letters were sent in Sep 2020. Customers were offered a rebate if they completed repairs within 12 months of notification.
    - As of May 2021 only 73 out of 356 had been completed.
    - On May 19, 2021 staff started sending reminders and calling customers who have not yet completed repairs to remind them of the rebate deadline.
    - Response to the reminders has been high.
    - The average rebate amount is $699

- **Outages -**
  - On May 1st, vandalism/cooper theft 17 customers for 12 hours.

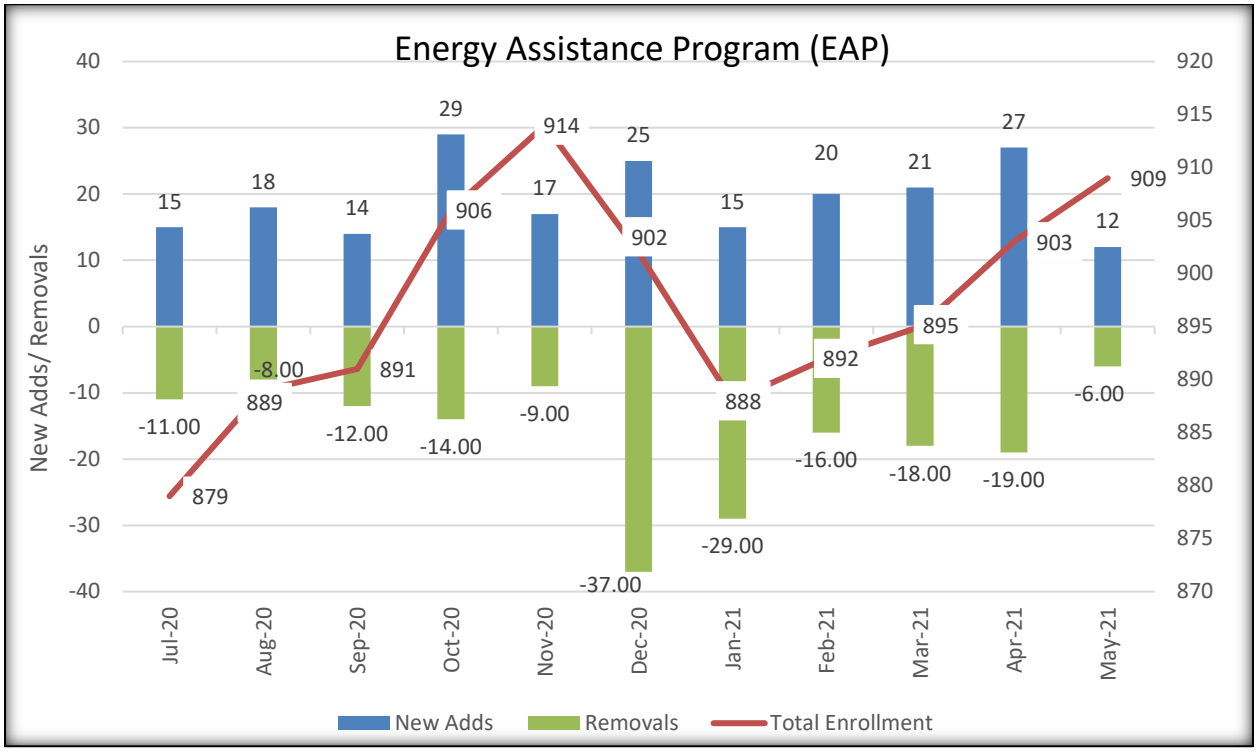
- **Safety May 2021:**
  - 2021 Lost Time Cases: 0
  - 2021 Recordable Injuries: 0
  - 2021 First Aid Cases: 0
  - 2021 Vehicle Accidents/ Incidents: 0

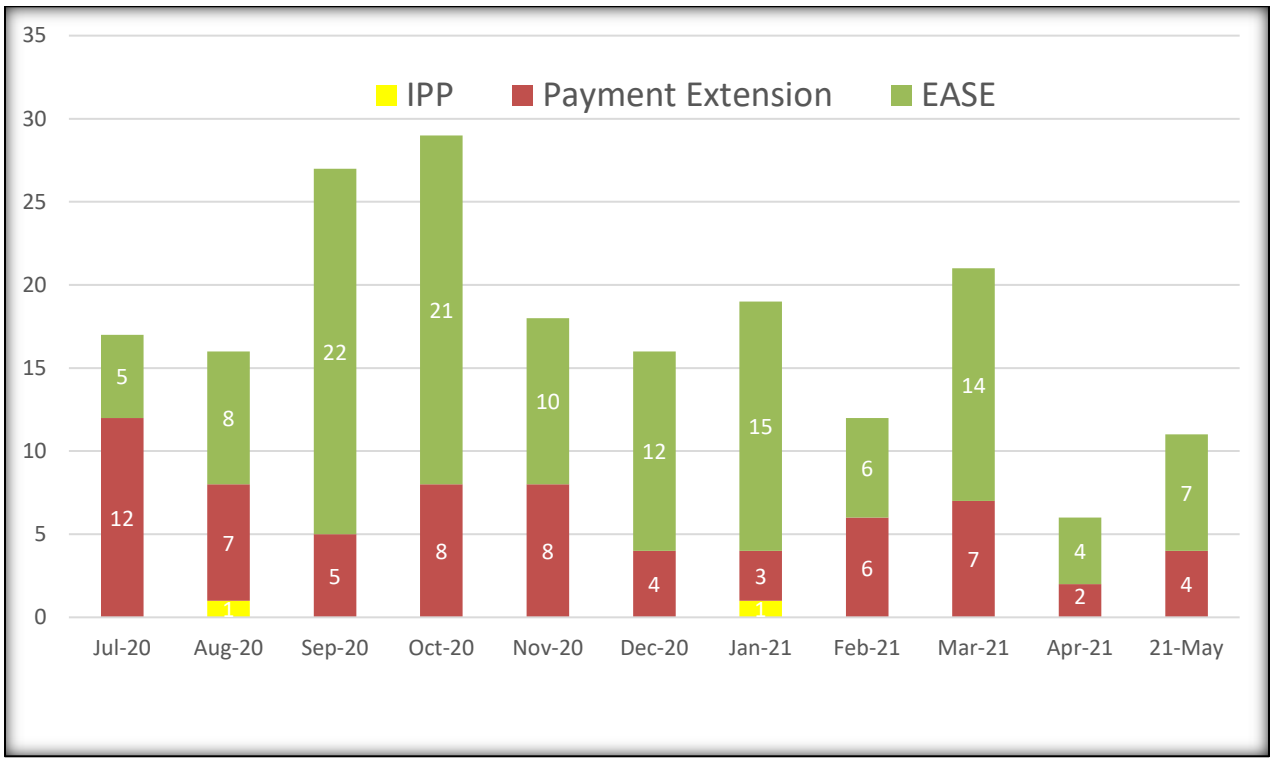
- **Fiscal Year 2021:**
  - Lost Time Cases: 1
  - Recordable Injuries: 2
  - First Aid Cases: 1
  - Vehicle Accidents/Incidents: 1

- **Year to Date 2021: (January to May)**
  - Lost Time Cases: 1
  - Recordable Injuries: 1
  - First Aid Cases: 1
  - Vehicle Accidents/Incidents: 1



Number of New Customer Enrollments to AMP's Financial Assistance Programs





CUSTOMER PROGRAMS & EXPERIENCE

Table 1: Summary of Energy Efficiency Programs as of May 31, 2021

SUMMARY OF ENERGY EFFICIENCY PROGRAMS AS OF May 31st , 2021								
Program	Annual Savings Target kWh/yr	1st Q	2nd Q	3rd Q	Apr-21	May-21	Cumulative Energy Savings kWh/yr	Percent of Annual Target
Residential Lighting	168,000	3,099	1,922	1,605	389	1,160	14,802	**8.81%**
Residential Other		8,043	7,711	11,003	1,670	332	82,273	
EAP+ (Low Income Residential)		34,734	34,673	51,985	8,568	20,704	358,885	
Energy Plus	457,555	0	207,129	328,031	0	216,516	751,676	**164%**
Non-Residential Lighting, Custom	89,024	11,094	299,805	286,346	0	0	597,245	**671%**
Non-Residential Customized, Other	87,532	0	0	0	0	0	0	**0%**
Non-Residential New Construction	20,888	0	0	0	0	0	0	**0%**
Non-Residential, Other		0	0	0	0	0	0	
TOTAL	**823,000**	**56,970**	**551,240**	**678,970**	**10,627**	**238,712**	**1,804,881**	**219.3%**

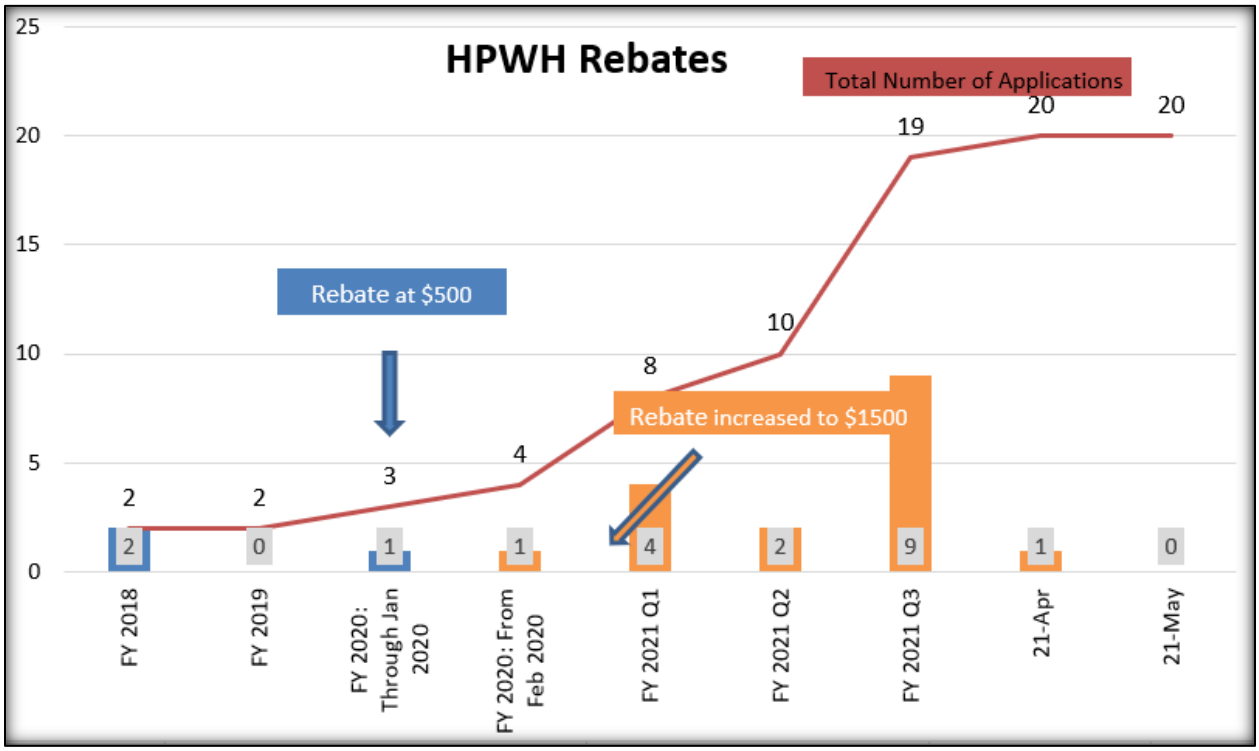


Figure 1: Total Number of Approved Heat Pump Water Rebate Applications

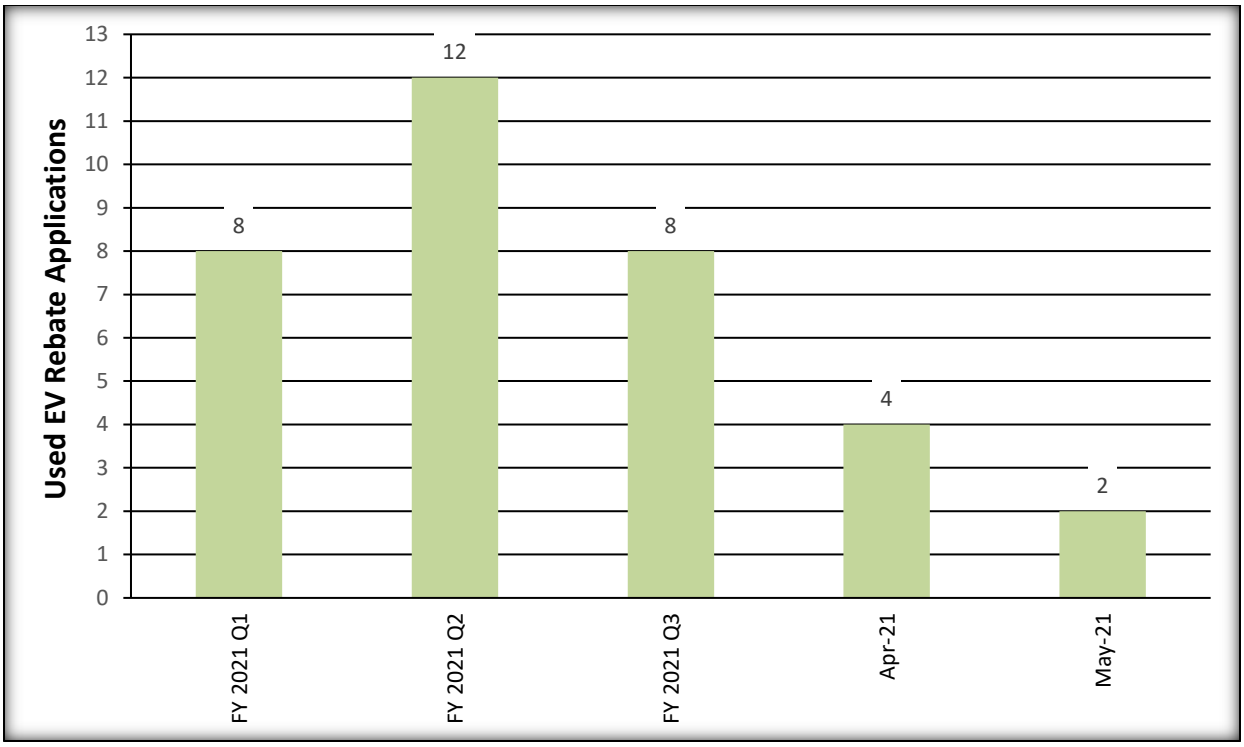


Figure 2: Residential Used Electric Vehicle Rebates

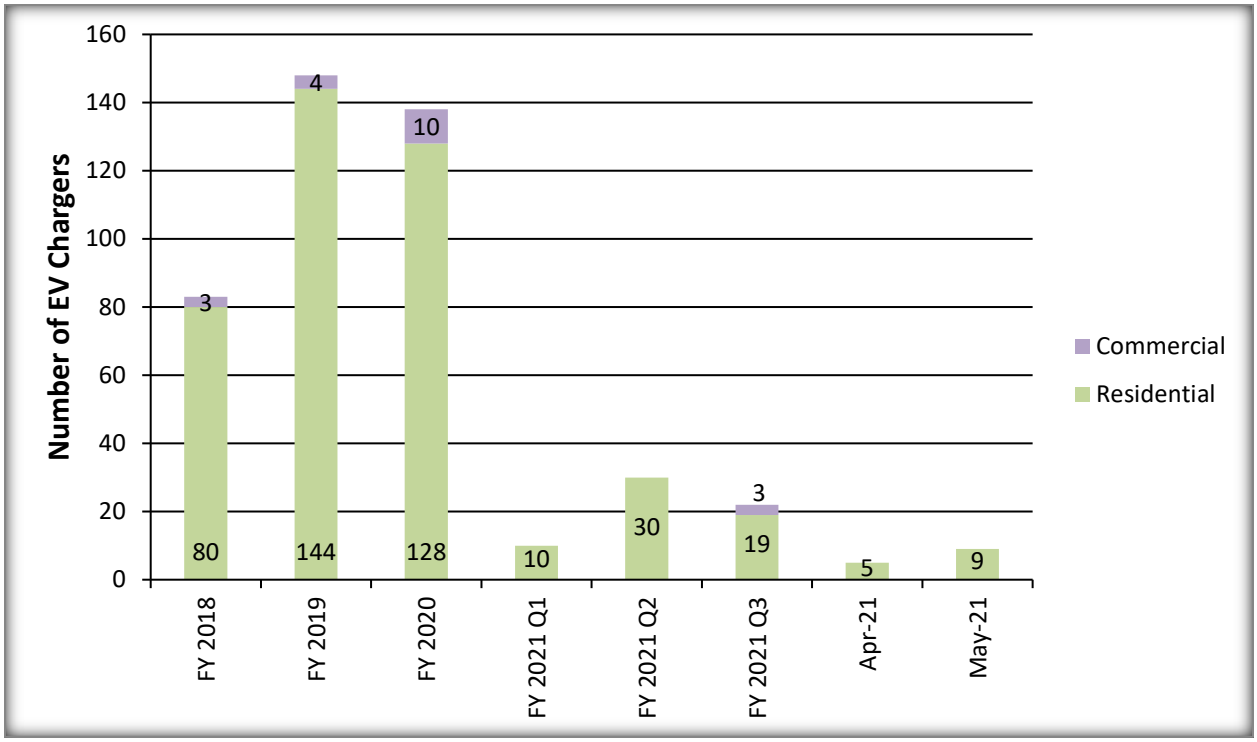


Figure 3: Electric Vehicle Charger Rebates

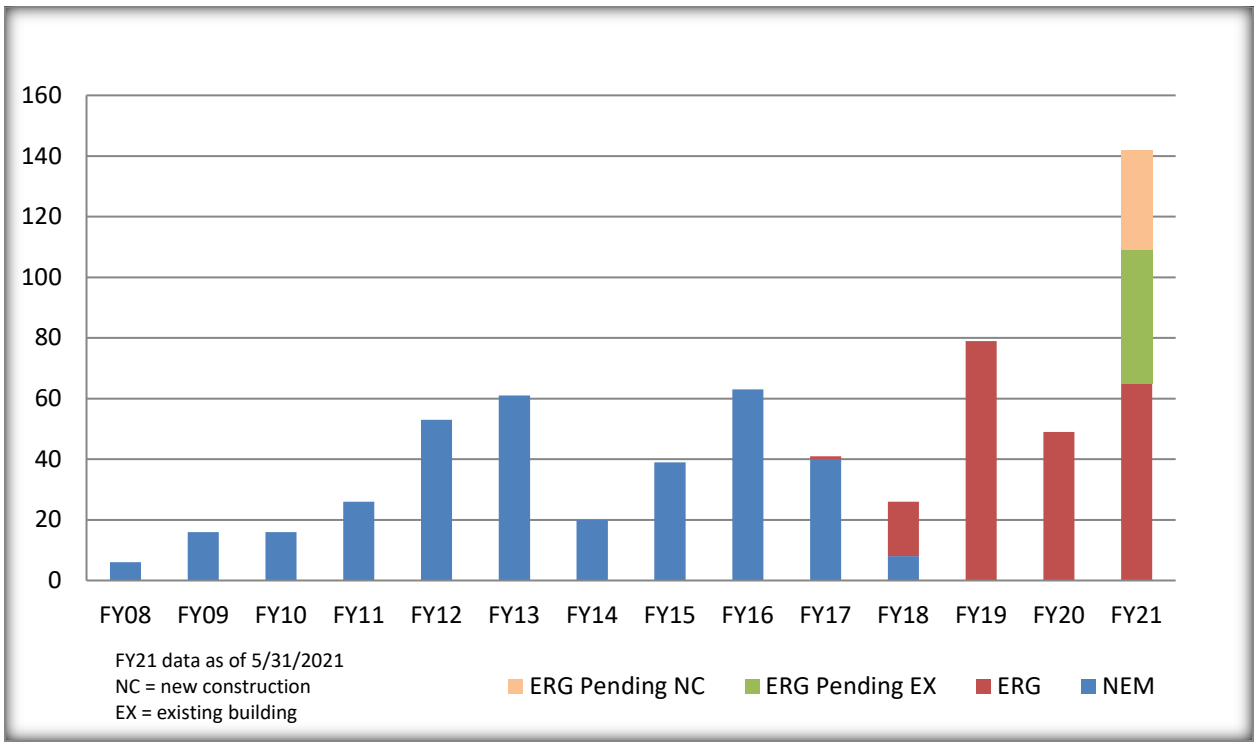


Figure 4: Residential Solar Interconnections

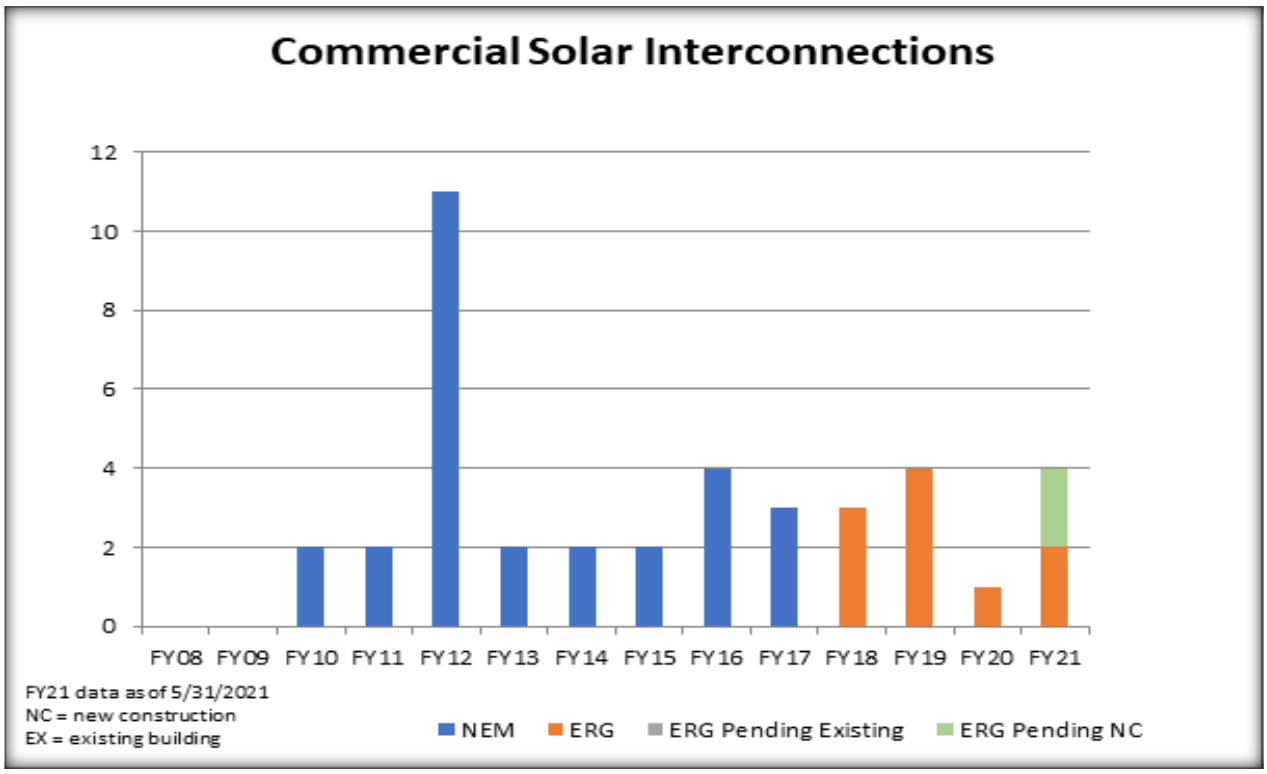


Figure 5: Commercial Solar Interconnections

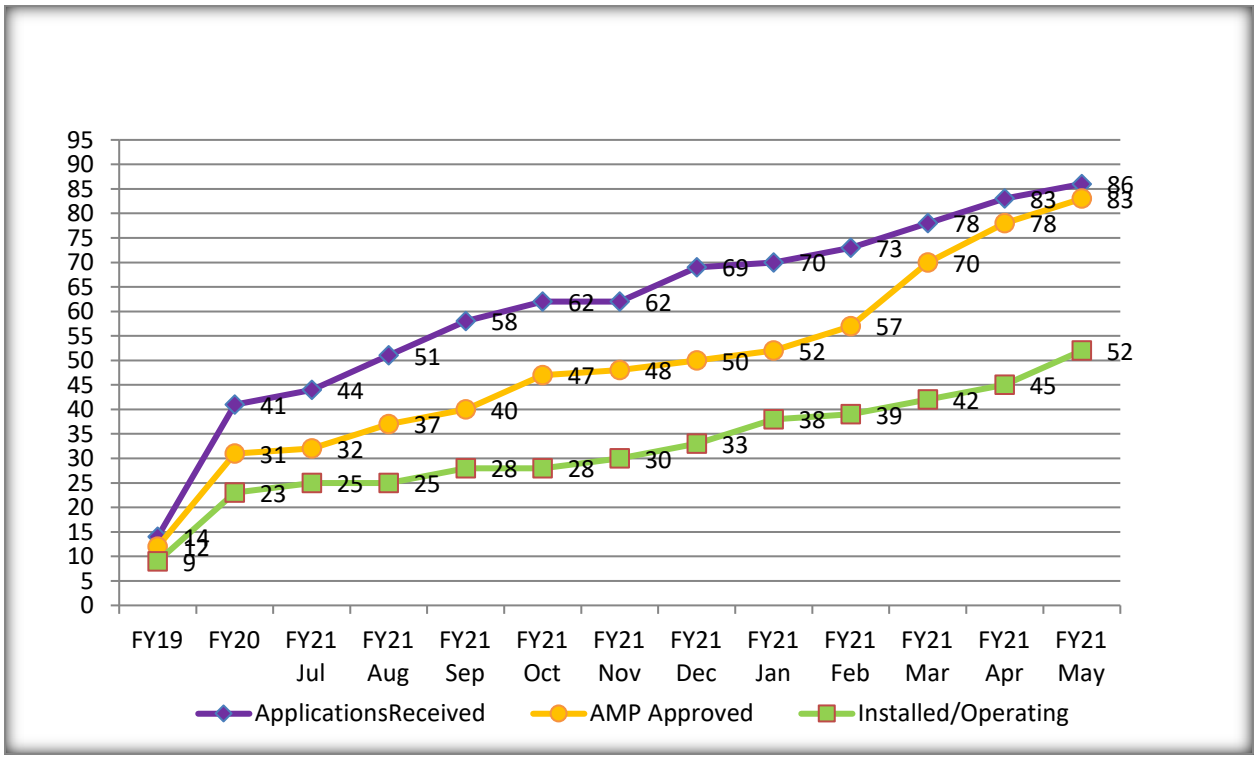


Figure 6: CumulativeBattery Storage

FINANCIALS

Table 2: Monthly and Year to Date Total Operating Revenue and Expense Report as of April 30, 2021

Report Status as of:				
May 31, 2021	Monthly		Annual (FY) To Date	
	Goal	Result	Goal	Result
Total Operating Revenue - Electric (April 2021)	5,266,387	5,179,061	55,061,514	54,688,121
Total Operating Expense - Electric (April 2021)	5,096,830	3,876,390	51,376,720	42,575,046
Note: Shaded areas indicate the data is displayed on the accompanying graphs				

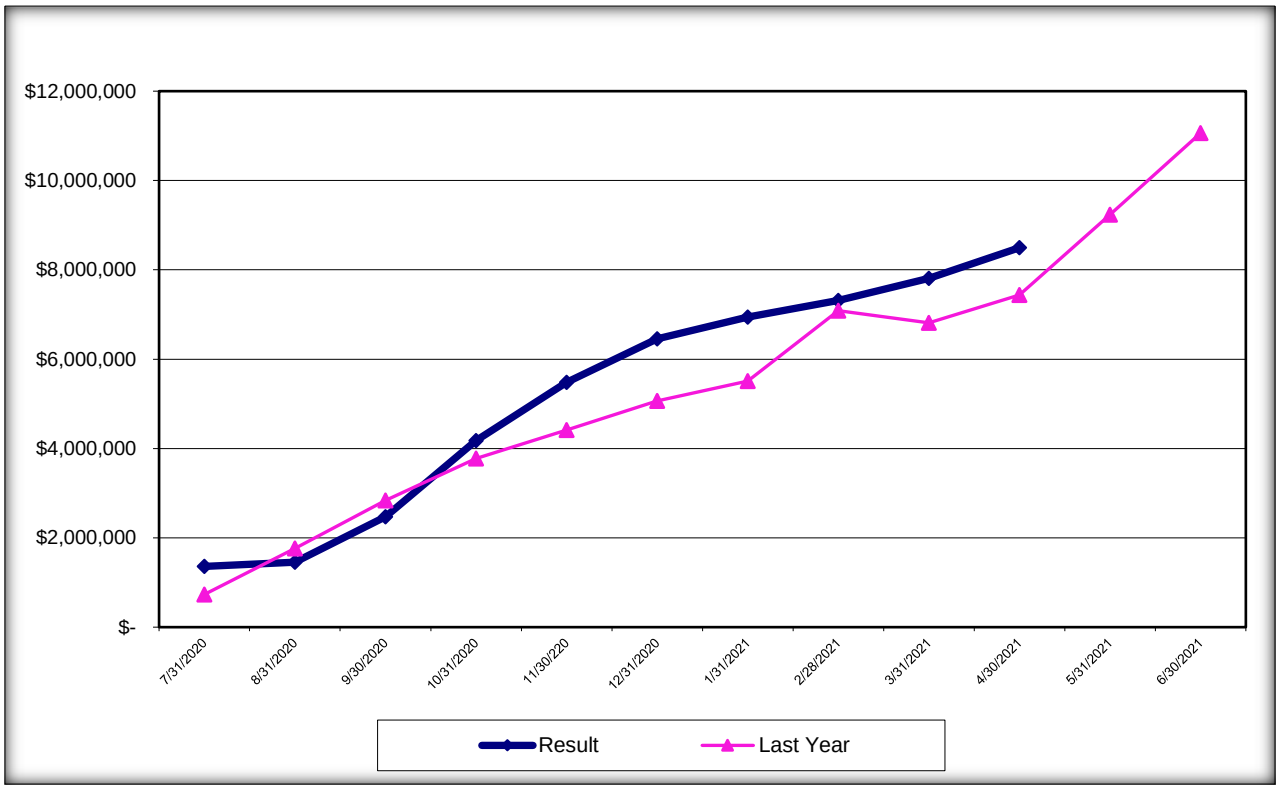


Figure 7: Fiscal Year 2021 Cumulative Net Income – Electric

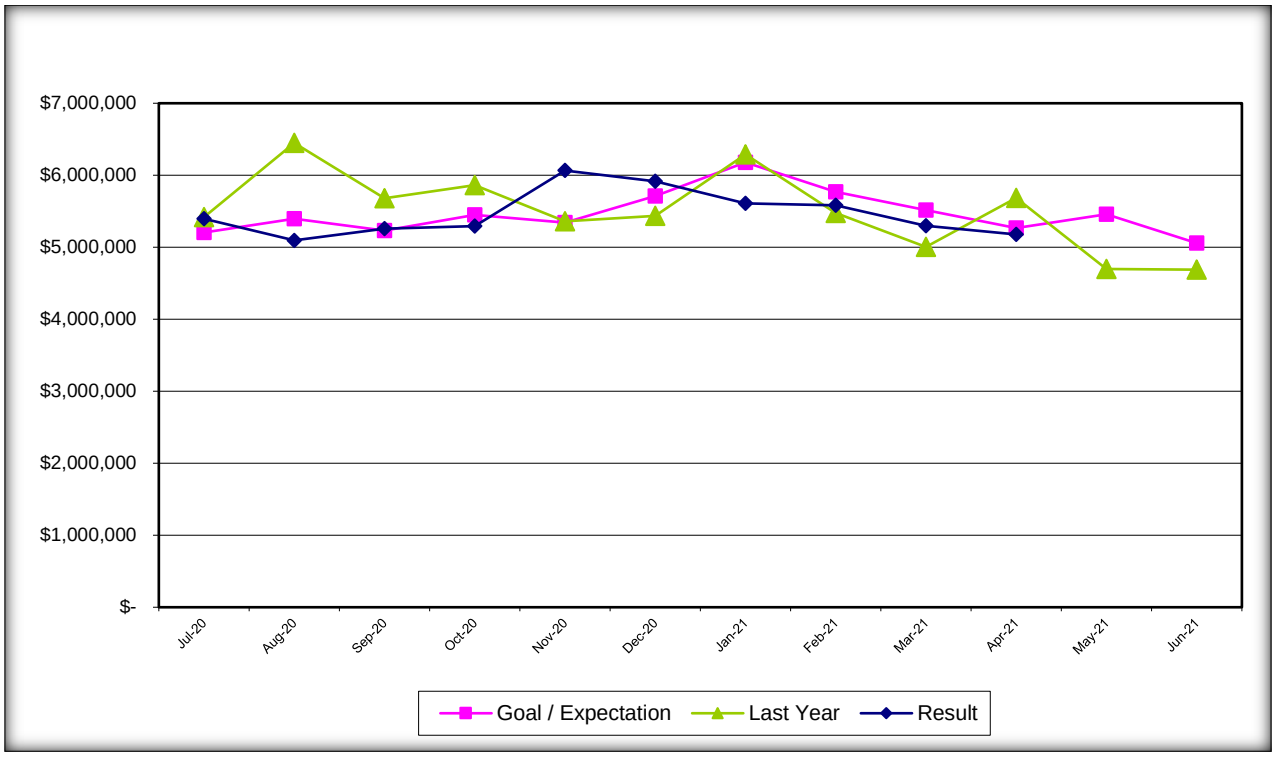


Figure 8: Fiscal Year 2021 Monthly Operating Revenue – Electric

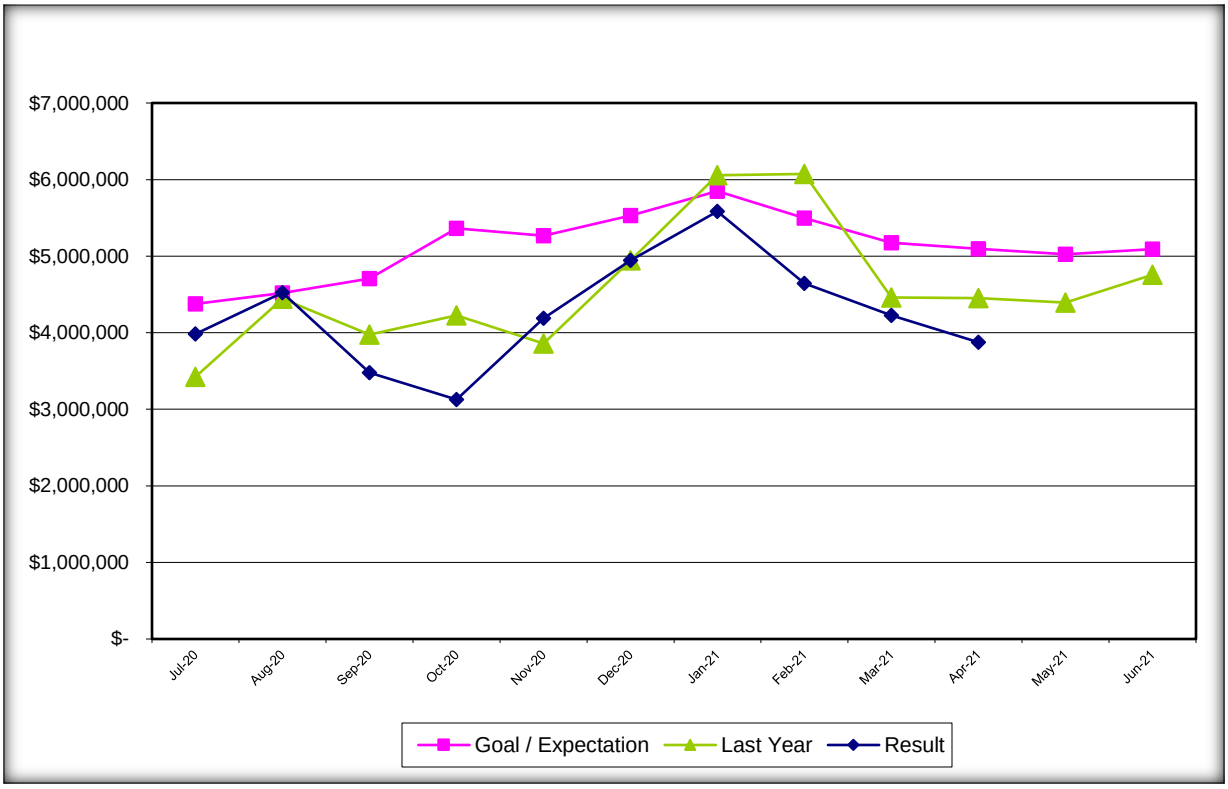


Figure 9: Fiscal Year 2021 Monthly Operating Expense – Electric

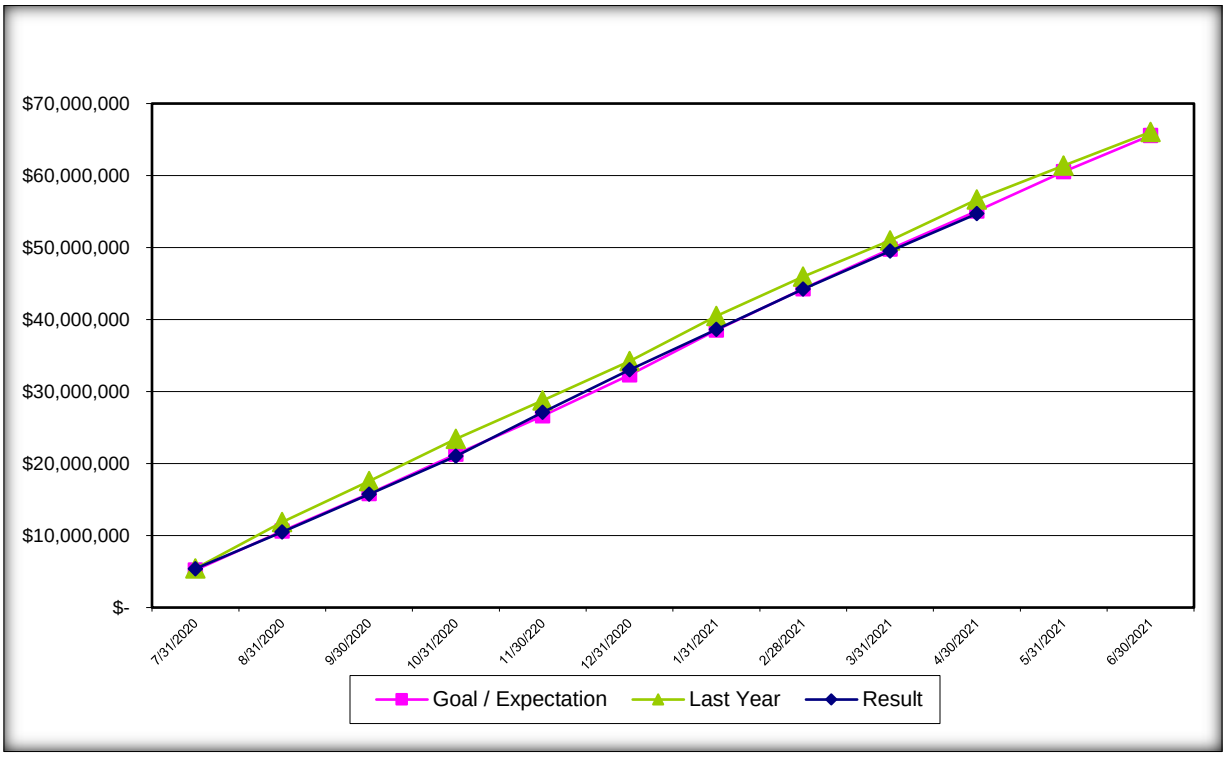


Figure 10: Fiscal Year 2021 Cumulative Operating Revenue – Electric

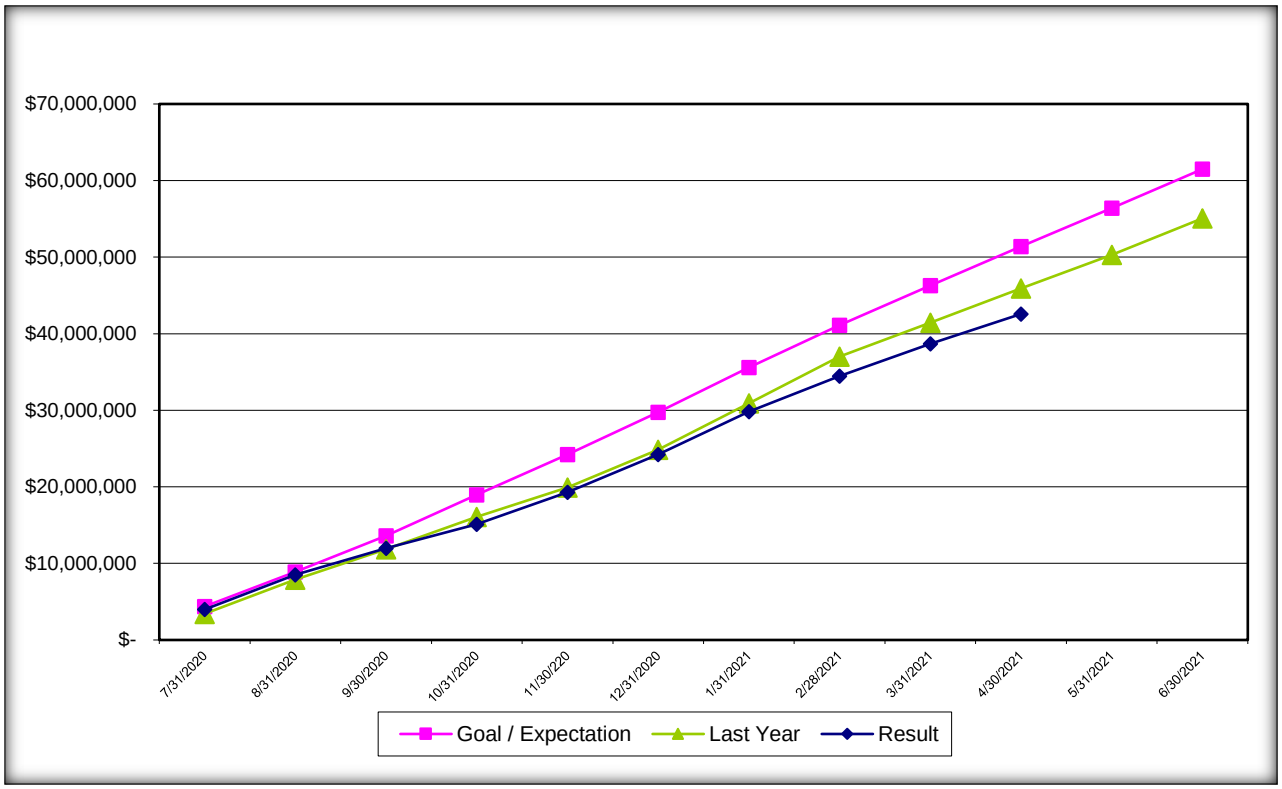


Figure 11: Fiscal Year 2021 Cumulative Operating Expense – Electric

Table 3: Special Revenue Summary – Fiscal Year 2021

Year-to-Date through April 2021

Cap & Trade Revenue Reserve – 10 2114	Funding from Cash Receipts	Power Costs	Operating Expenses	Capital Projects	Total Expenditures	Reserve Balance
Reserve Beginning Balance 6-30-2020						3,619,827
Jul-20	-	(204,167)	-	(118,630)	(322,797)	3,297,029
Aug-20	-	(204,167)	-	(78,888)	(283,055)	3,013,975
Sep-20	307,896	(131,667)	-	(43,536)	(175,203)	3,146,667
Oct-20	-	(131,667)	-	(317,838)	(449,505)	2,697,162
Nov-20	-	(131,667)	-	(5,761)	(137,428)	2,559,735
Dec-20	266,089	(131,667)	-	(4,790)	(136,457)	2,689,366
Jan-21	-	(131,667)	-	(5,959)	(137,626)	2,551,740
Feb-21	-	(131,667)	-	(16,879)	(148,546)	2,403,194
Mar-21	352,191	(131,667)	-	(20,800)	(152,467)	2,602,918
Apr-21	-	(131,667)	-	(3,713)	(135,380)	2,467,538
May-21					-	2,467,538
Jun-21					-	2,467,538
Total To Date	926,176	(1,461,670)	-	(616,795)	(2,078,465)	2,467,538

Renewable Energy Credits Revenue Reserve – 10 2113	Funding from Cash Receipts	Power Costs	Operating Expenses	Capital Projects	Total Expenditures	Reserve Balance
Reserve Beginning Balance 6-30-2020						19,821,572
Jul-20	-	-	-	-	-	19,821,572
Aug-20	-	(640)	(8,813)	-	(9,453)	19,812,119
Sep-20	-	-	(7,071)	-	(7,071)	19,805,048
Oct-20	-	(114,000)	(37,892)	-	(151,892)	19,653,156
Nov-20	-	(108,150)	(6,837)	-	(114,987)	19,538,169
Dec-20	-	(111,600)	(127,628)	-	(239,228)	19,298,940
Jan-21	-	(116,640)	(21,879)	(469)	(138,988)	19,159,952
Feb-21	-	(100,800)	(124,652)	-	(225,452)	18,934,500
Mar-21	-	-	(53,314)	(4,946)	(58,260)	18,876,240
Apr-21	-	-	(34,126)	(957)	(35,083)	18,841,157
May-21					-	18,841,157
Jun-21					-	18,841,157
Total To Date	-	(551,830)	(422,212)	(6,372)	(980,415)	18,841,157

Low Carbon Fuel Standard Revenue Reserve – 10 2115	Funding from Cash Receipts	Power Costs	Operating Expenses	Capital Projects	Total Expenditures	Reserve Balance
Reserve Beginning Balance 6-30-2020						1,737,572
Jul-20	-	-	(3,616)	-	(3,616)	1,733,956
Aug-20	-	-	(9,737)	-	(9,737)	1,724,219
Sep-20	-	-	(9,277)	-	(9,277)	1,714,942
Oct-20	-	-	(8,693)	-	(8,693)	1,706,249
Nov-20	-	-	(10,258)	-	(10,258)	1,695,991
Dec-20	-	-	(9,247)	-	(9,247)	1,686,743
Jan-21	1,000,000	-	(31,796)		(31,796)	2,654,948
Feb-21	(1,250)	-	(5,422)	-	(6,672)	2,648,276
Mar-21	-	-	(24,000)	-	(24,000)	2,624,276
Apr-21	-	-	(18,429)	-	(18,429)	2,605,847
May-21					-	2,605,847
Jun-21					-	2,605,847
Total To Date	998,750	-	(130,475)	-	(131,725)	2,605,847
Combined Total	**1,924,926**	**(2,013,500)**	**(552,687)**	**(623,167)**	**(3,190,604)**	**23,914,542**

OPERATIONAL STATISTICS

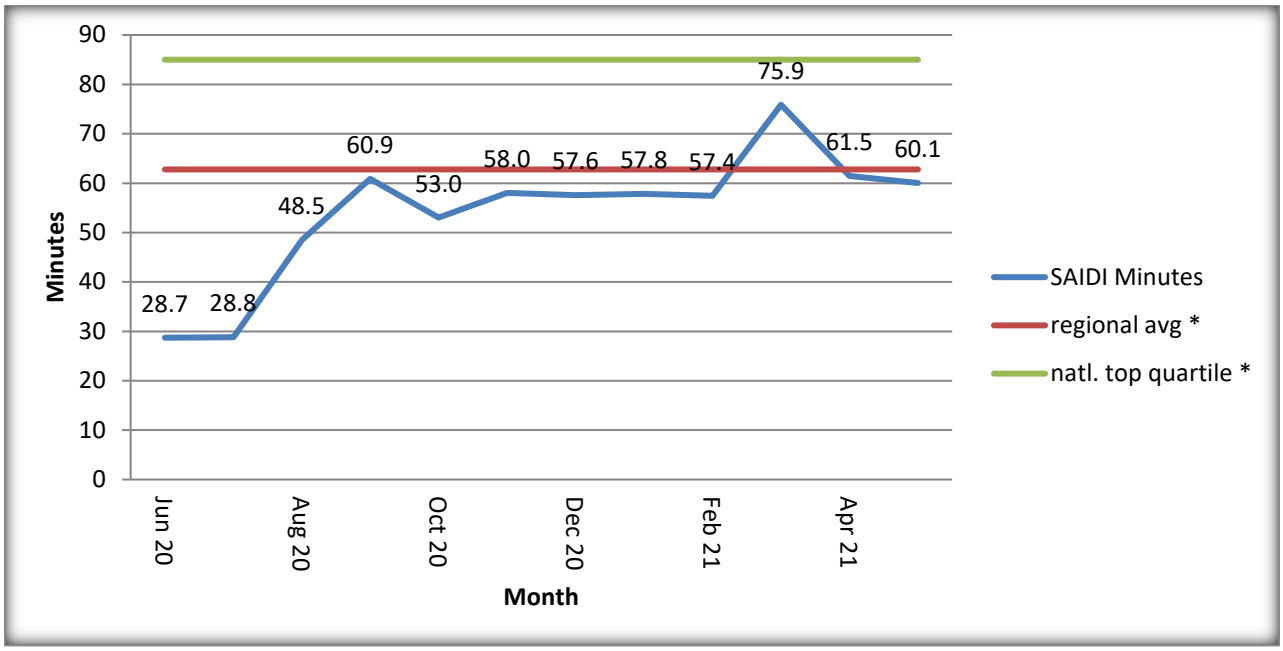


Figure 12: Rolling Twelve-Month System Average Interruption Duration Index (SAIDI)

*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.

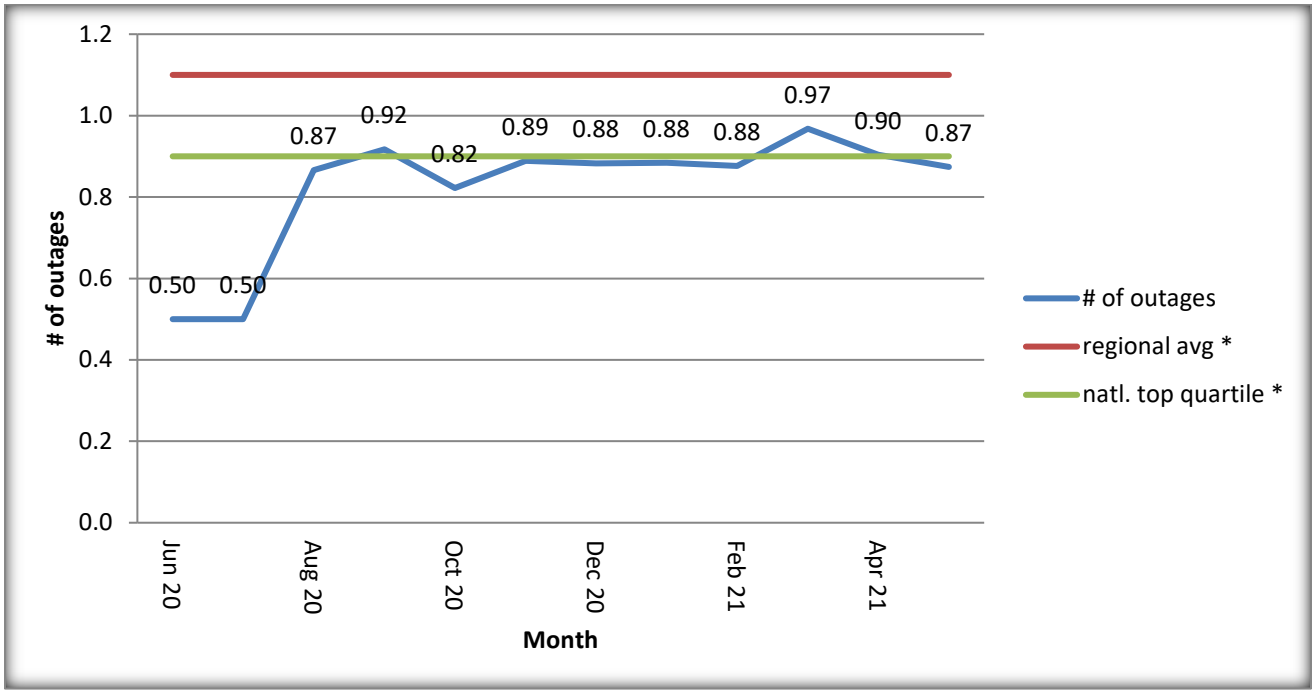


Figure 13: Rolling Twelve-Month System Average Interruption Frequency Index (SAIFI)

*Based on Benchmark study of Western Regional Utilities

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

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 SAIDI is "On average, customers experienced _____ interruptions".

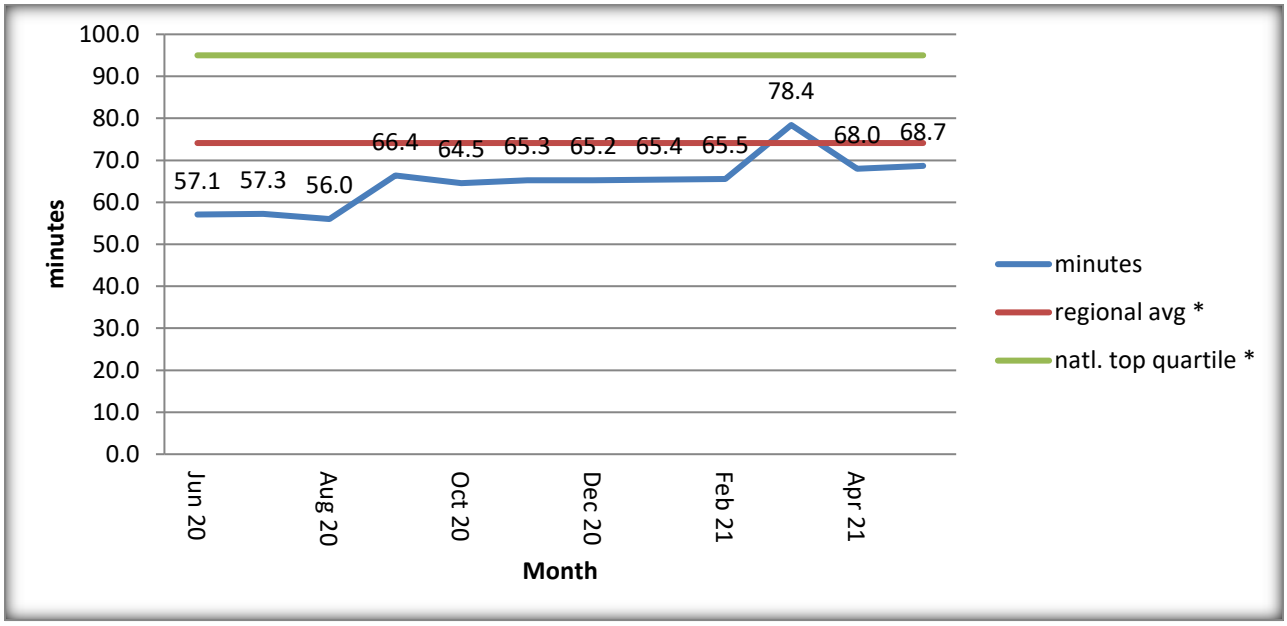


Figure 14: Rolling Twelve-Month Customer Average Interruption Duration Index (CAIDI)

*Based on Benchmark study of Western Regional Utilities

CAIDI= Sum of customer-minutes off for all sustained interruptions / 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.

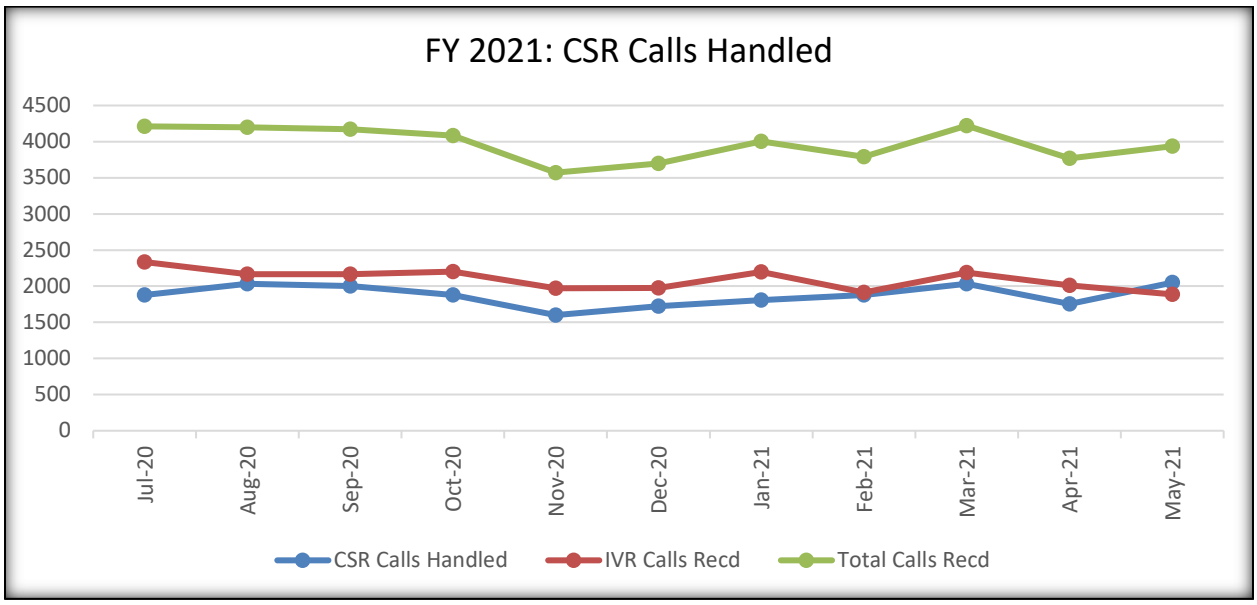


Figure 15: Fiscal Year 2021 Call Volume Through May 31, 2021