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 – July-August, 2020

PUB Highlights

- **Economic Development Highlights—**
  - Power upgrades abound at Exelixis, a cancer treatment research firm, with an expanding campus, building upgrades, and a growing workforce, now at 650 employees. The new office building under construction is 100,000 square feet and the company is seeking to take over any office space on the campus that becomes available.
  - Sila Nanotechnologies, founded in 2011 and now with 175 employees, continues to grow and has now become an A3 account. Sila developed a special coating for battery anodes by bonding carbon and silicon together. These coatings improve battery efficiency 15-30 percent. They are planning for expansion outside of California to be closer to source materials. Their primary customers are battery manufacturers in Korea, Japan, and China.

- Alameda Municipal Power's (AMP) Energy Plus Program won a first-place, statewide award in the California Municipal Utilities Association's (CMUA) 2020 Resource Efficiency and Community Service awards competition. AMP received the award in the energy programs category for medium-sized utilities.

- AMP will offer an online version of its popular public workshop on electric vehicles (EV). The live webinar on Wednesday, September 30 at 6:30 p.m. will cover topics such as buying an EV, charging your vehicle, costs and incentives, and EVs on the market today.

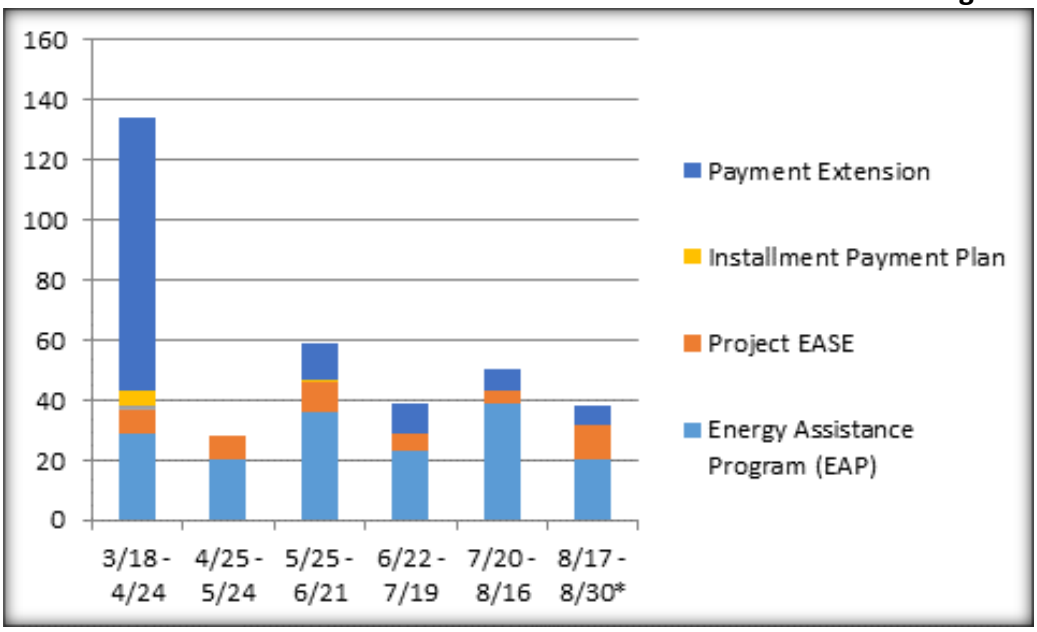
- NCPA has launched a new program to aggregate and sell LCFS credits on behalf of the members. By bundling credits together among the members, the goal is to get even better pricing when the credits are sold.

- AMP's financial audit is underway with a completion target of mid-November.

- Engineering and Operations—
  - AMP's substation section has installed two new 115kV substation breakers at our Cartwright substation. The last of the three is currently in progress and expected to be completed by September 17.
  - The undergrounding work along Clement Avenue in front of the City Venture development is complete
  - The Alameda Marina project is starting up soon right next to AMP's service center. The first major segment will be a joint trench along Clement Avenue.

- **Safety:**
  - 2020 Lost Time Cases: 0
  - 2020 Recordable Injuries: 3
  - 2020 First Aid Cases: 1
  - 2020 Vehicle Accidents/ Incidents: 0

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



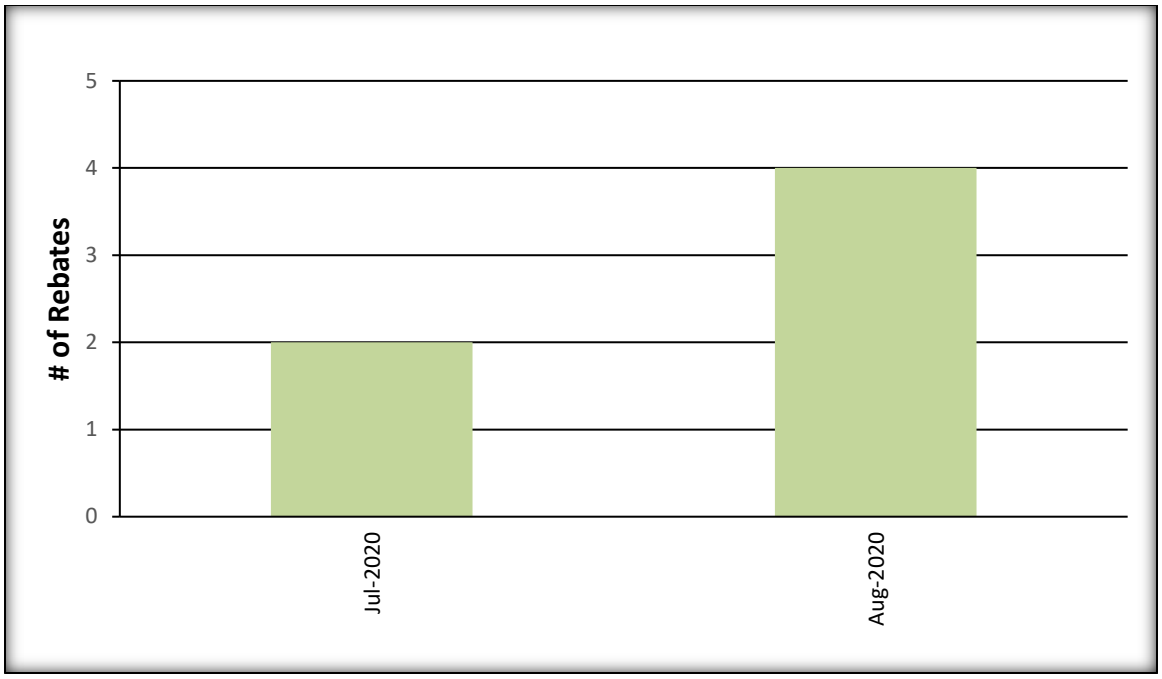
* *Represents two weeks rather than four weeks of data*

CUSTOMER PROGRAMS & EXPERIENCE

Table 1: Summary of Energy Efficiency Programs as of August 31, 2020

SUMMARY OF ENERGY EFFICIENCY PROGRAMS AS OF AUGUST 31, 2020*					
Program	**Annual Savings Target kWh/yr**	**Jul-20**	**Aug-20**	**Cumulative Energy Savings kWh/yr**	**Percent of Annual Target**
Residential Lighting	168,000	668	1,004	1,672	**1%**
Residential Other		3,174	2,251	5,425	
EAP+ (Low Income Residential)		2,168	6,589	8,757	
Energy Plus	457,555	0	0	0	**0%**
Non-Residential Lighting, Custom	89,024	0	11,094	11,094	**12%**
Non-Residential Customized, Other	87,532	0	0	0	**0%**
Non-Residential New Construction	20,888	0	0	0	**0%**
Non-Residential, Other		0	0	0	
TOTAL	**823,000**	**6,010**	**20,938**	**26,948**	**3.3%**

Data included from Aug 1, 2020 to Aug 31, 2020



Used Electric Vehicle Rebates

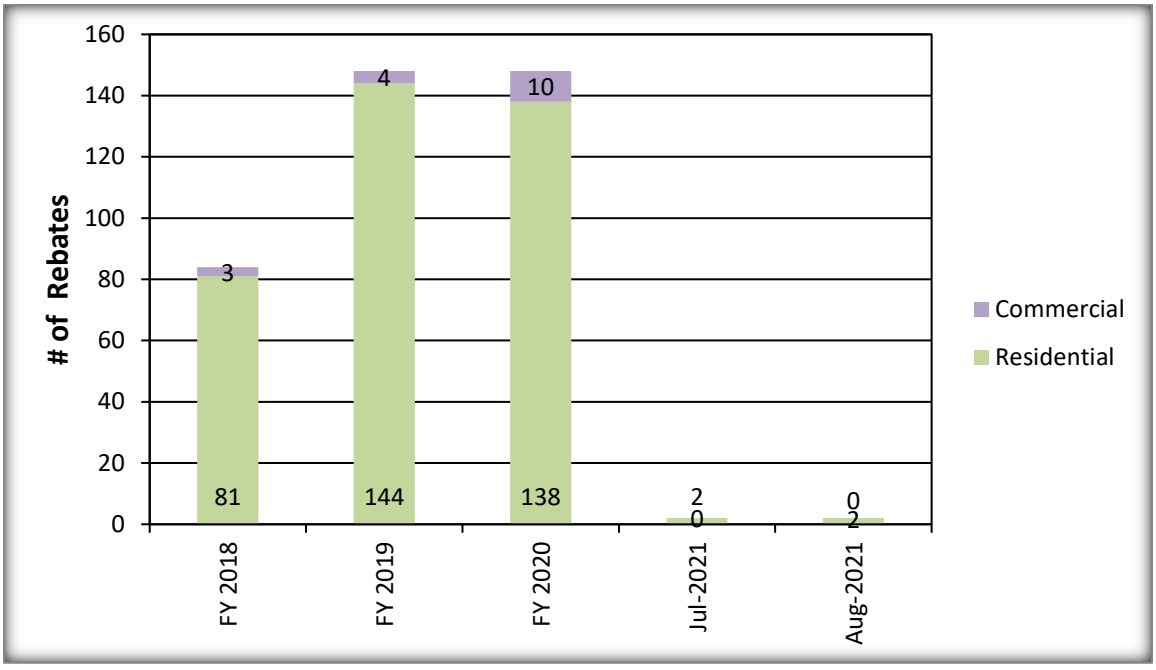
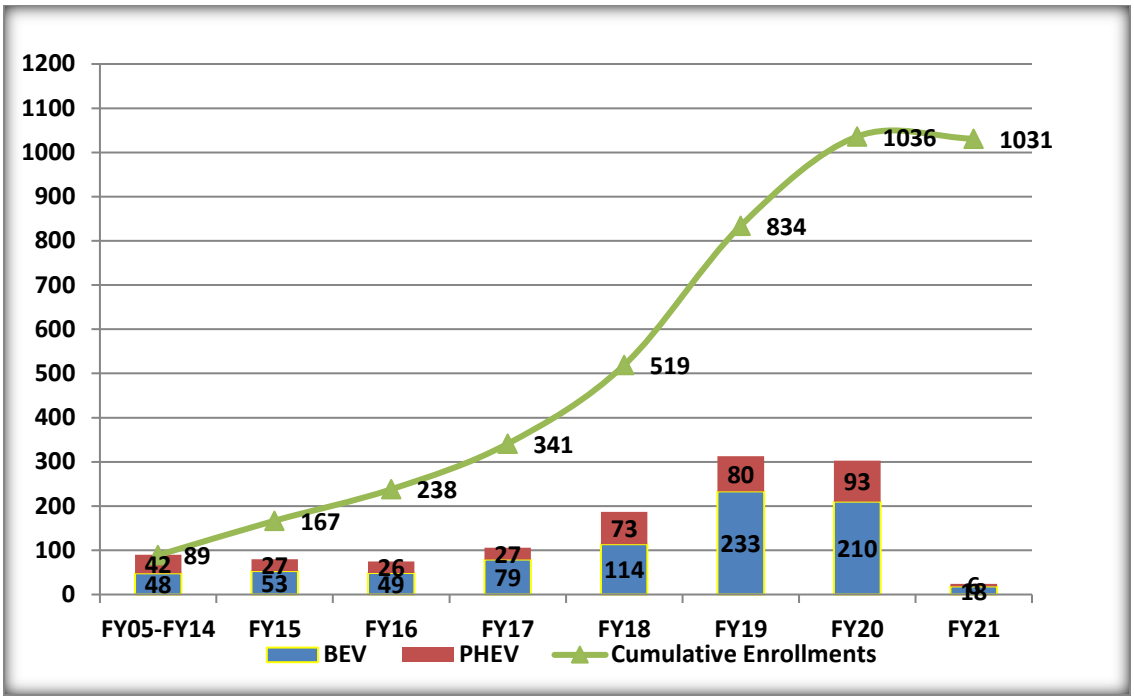


Figure 1: Electric Vehicle Charger Rebates



* *There were 10 new enrollments in July and 14 new enrollments in August.*

Figure 2: Electric Vehicle Discount Program Participation

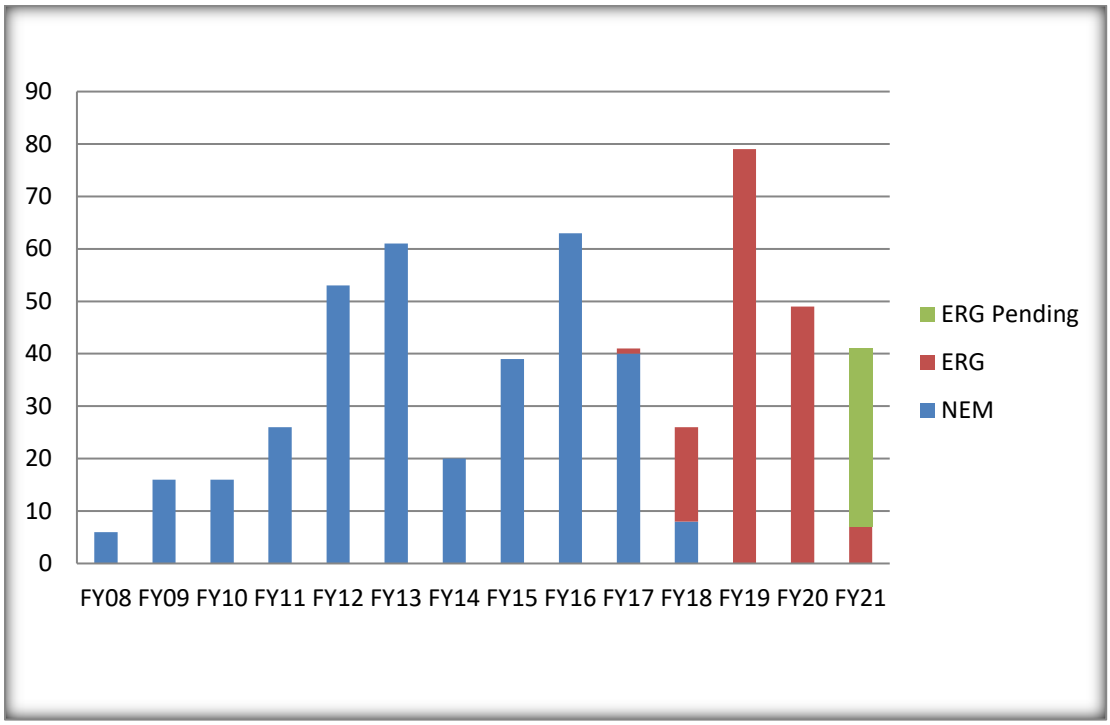


Figure 3: Residential Solar Interconnections

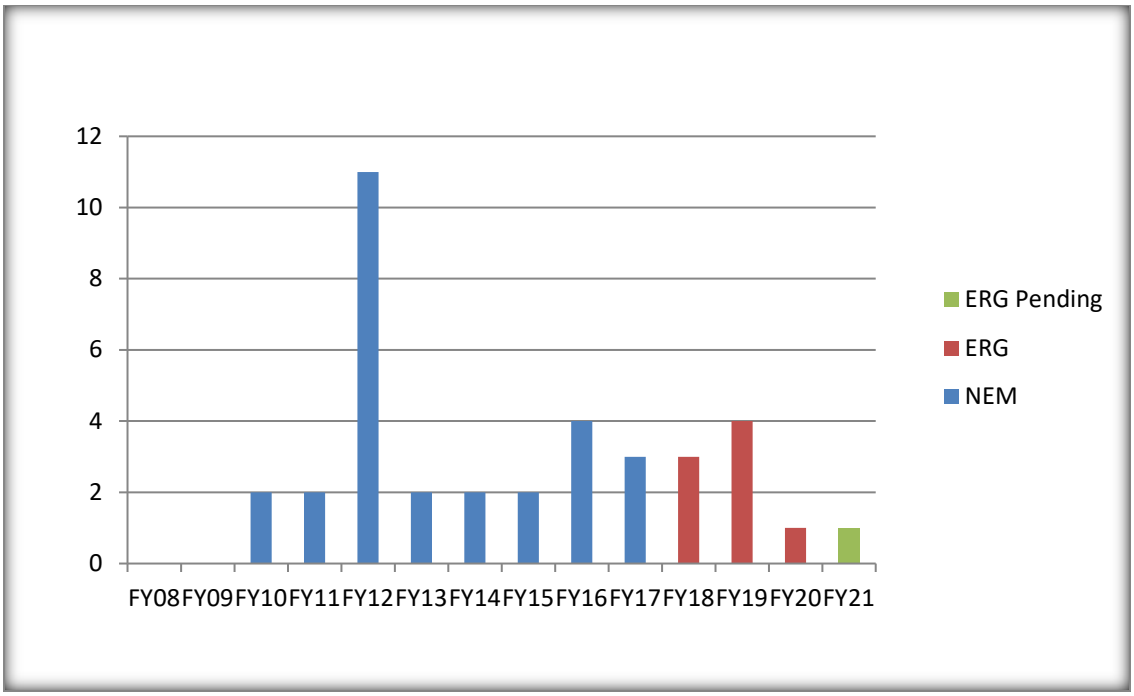


Figure 4: Commercial Solar Interconnections

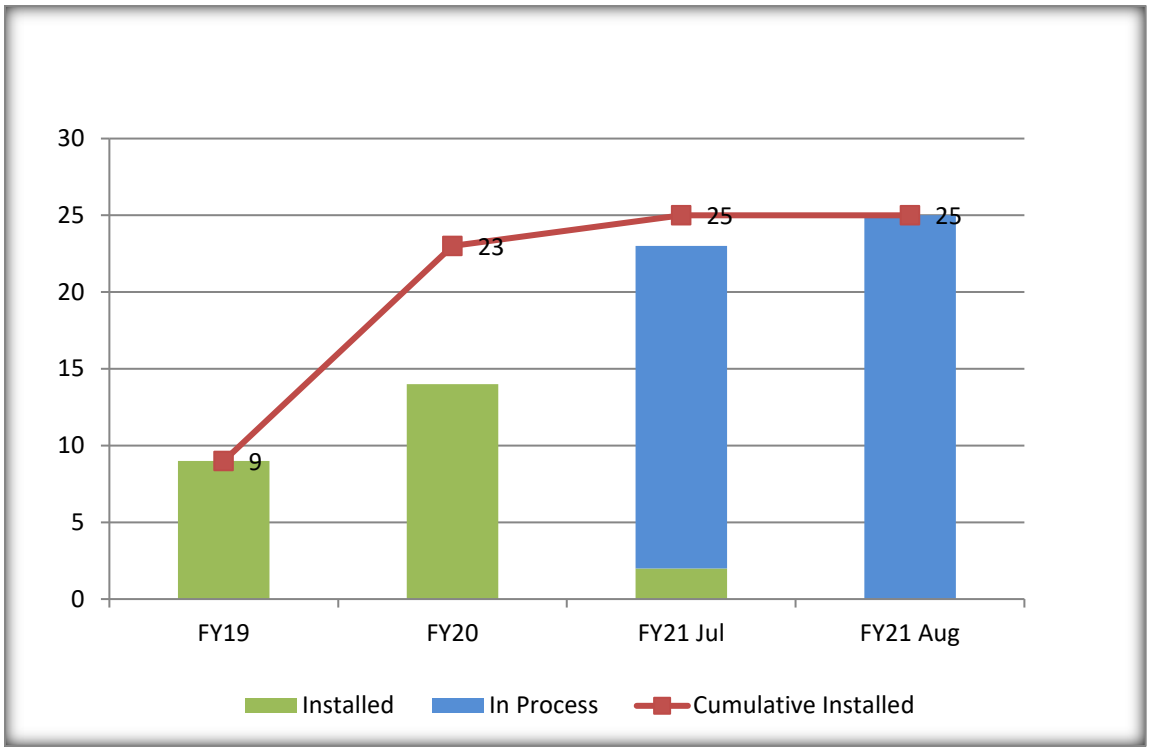


Figure 5: Battery Storage

FINANCIALS

Table 2: Monthly and Year to Date Total Operating Revenue and Expense Report as of July 31, 2020 (Fiscal Year 2020)

Report Status as of:				
July 31, 2020	Monthly		Annual (FY) To Date	
	Goal	Result	Goal	Result
Total Operating Revenue - Electric (June 2020)	5,343,133	4,688,537	65,424,227	66,043,773
Total Operating Expense - Electric (June 2020)	4,717,326	4,758,839	57,147,282	55,062,551
Note: Shaded areas indicate the data is displayed on the accompanying graphs				

Table 3: Monthly and Year to Date Total Operating Revenue and Expense Report as of August 31, 2020 (Fiscal Year 2021)

Report Status as of:				
August 31, 2020	Monthly		Annual (FY) To Date	
	Goal	Result	Goal	Result
Total Operating Revenue - Electric (July 2020)	4,967,344	5,395,179	4,967,344	5,395,179
Total Operating Expense - Electric (July 2020)	4,093,155	3,983,223	4,093,155	3,983,223
Note: Shaded areas indicate the data is displayed on the accompanying graphs				

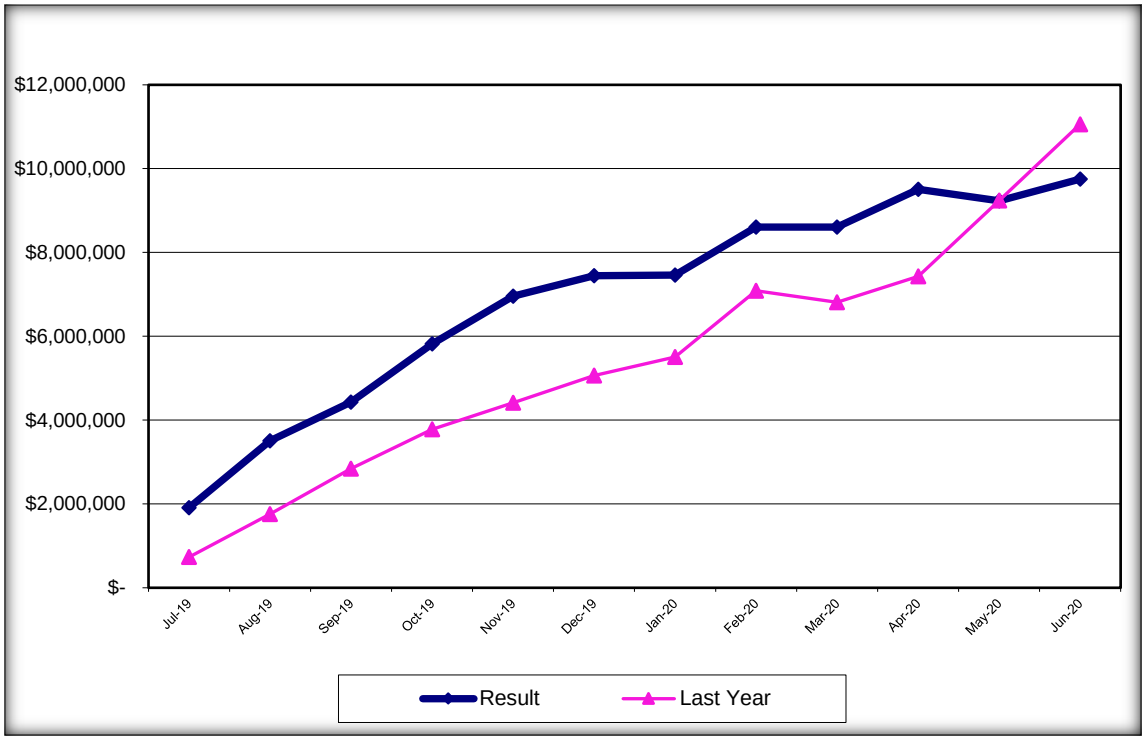


Figure 6: Fiscal Year 2020 Cumulative Net Income – Electric

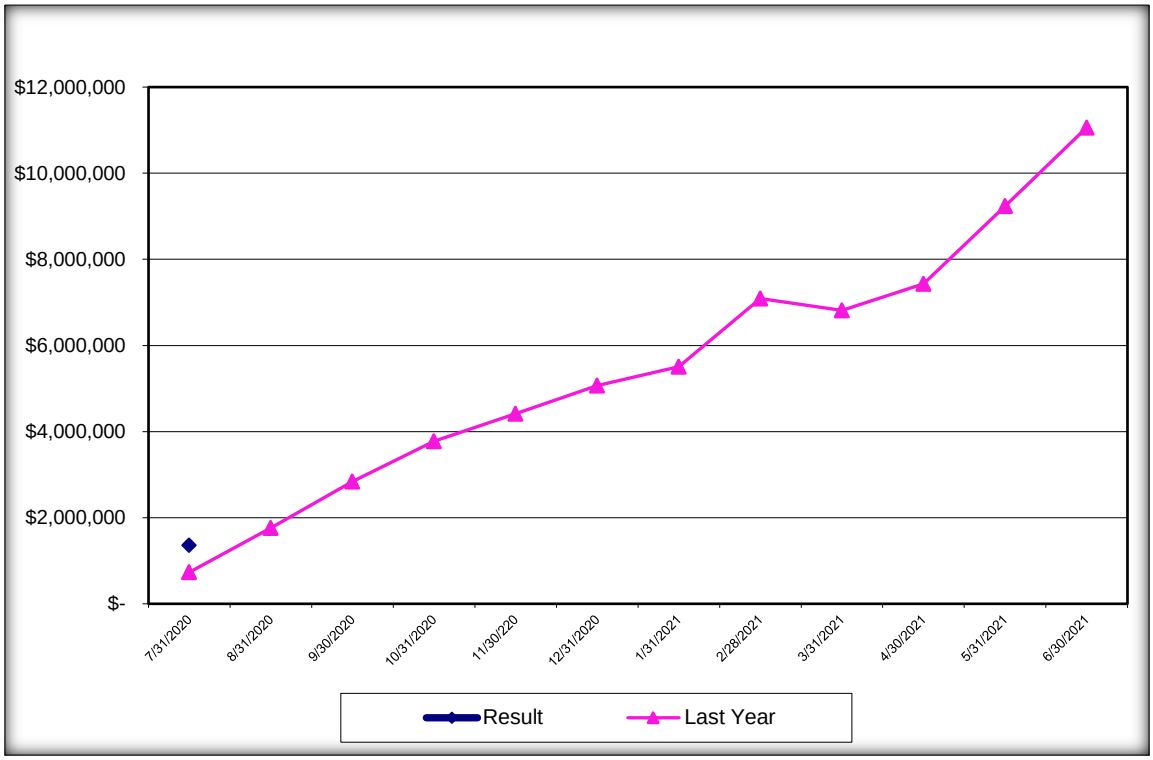


Figure 7: Fiscal Year 2021 Cumulative Net Income - Electric

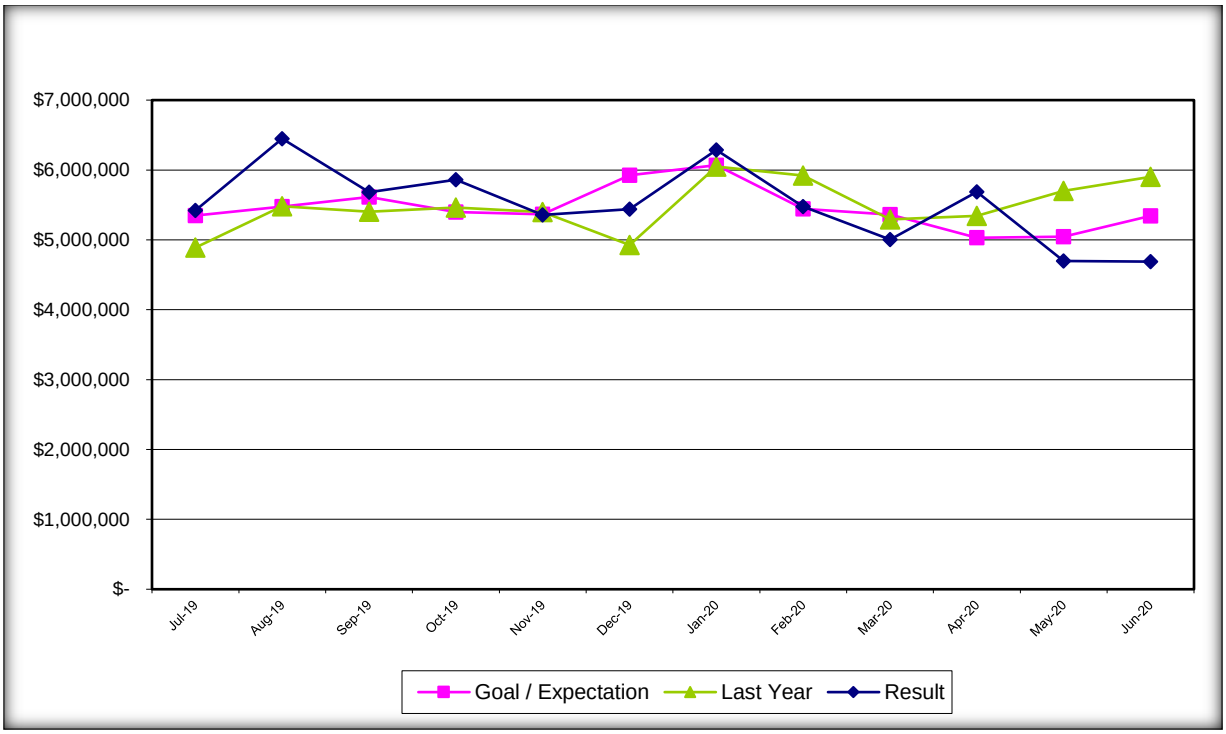


Figure 8: Fiscal Year 2020 Monthly Operating Revenue – Electric

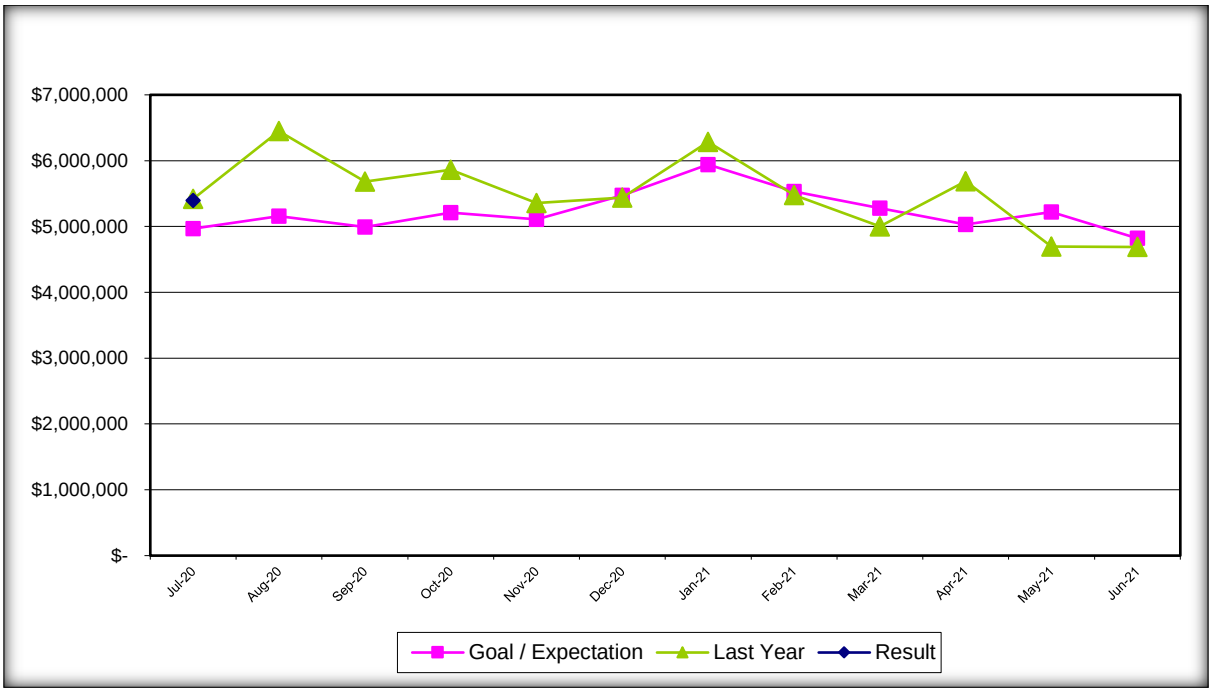


Figure 9: Fiscal Year 2021 Monthly Operating Revenue – Electric

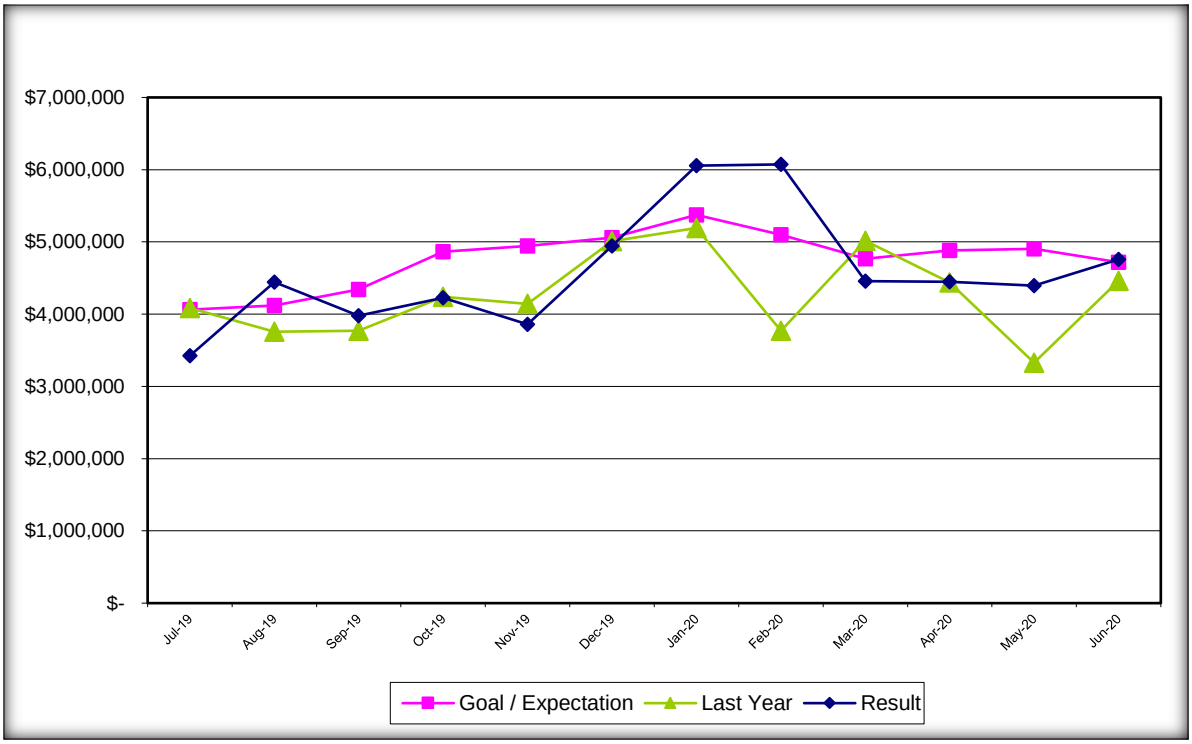


Figure 10: Fiscal Year 2020 Monthly Operating Expense – Electric

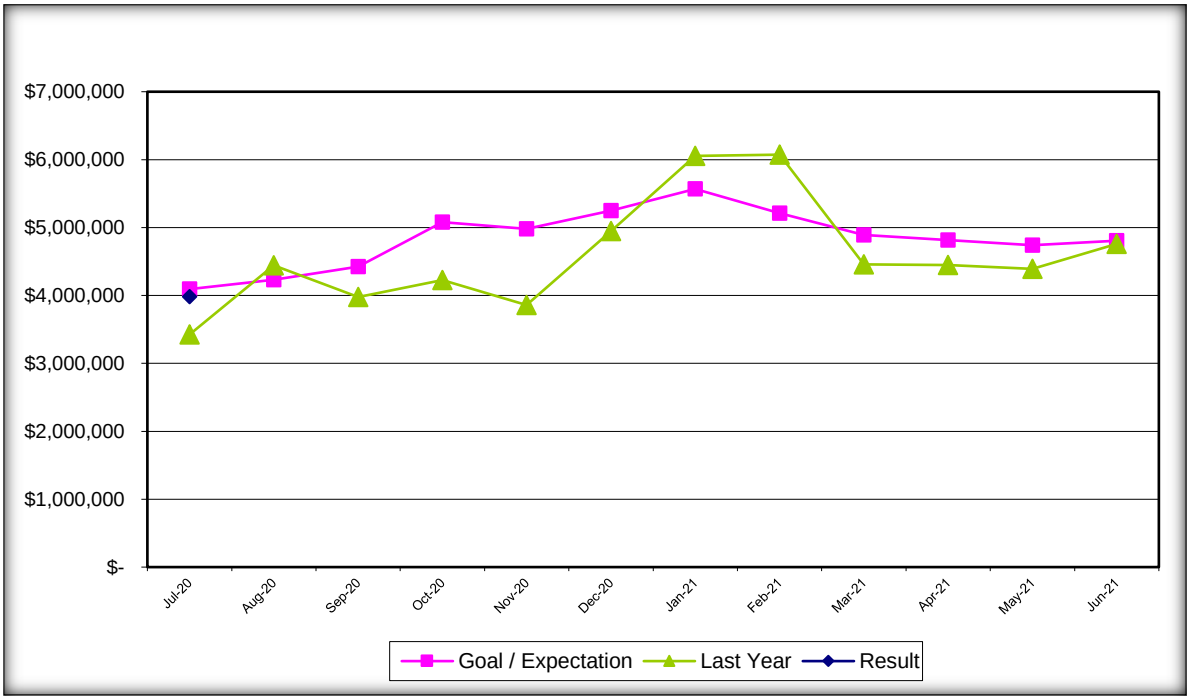


Figure 11: Fiscal Year 2021 Monthly Operating Expense – Electric

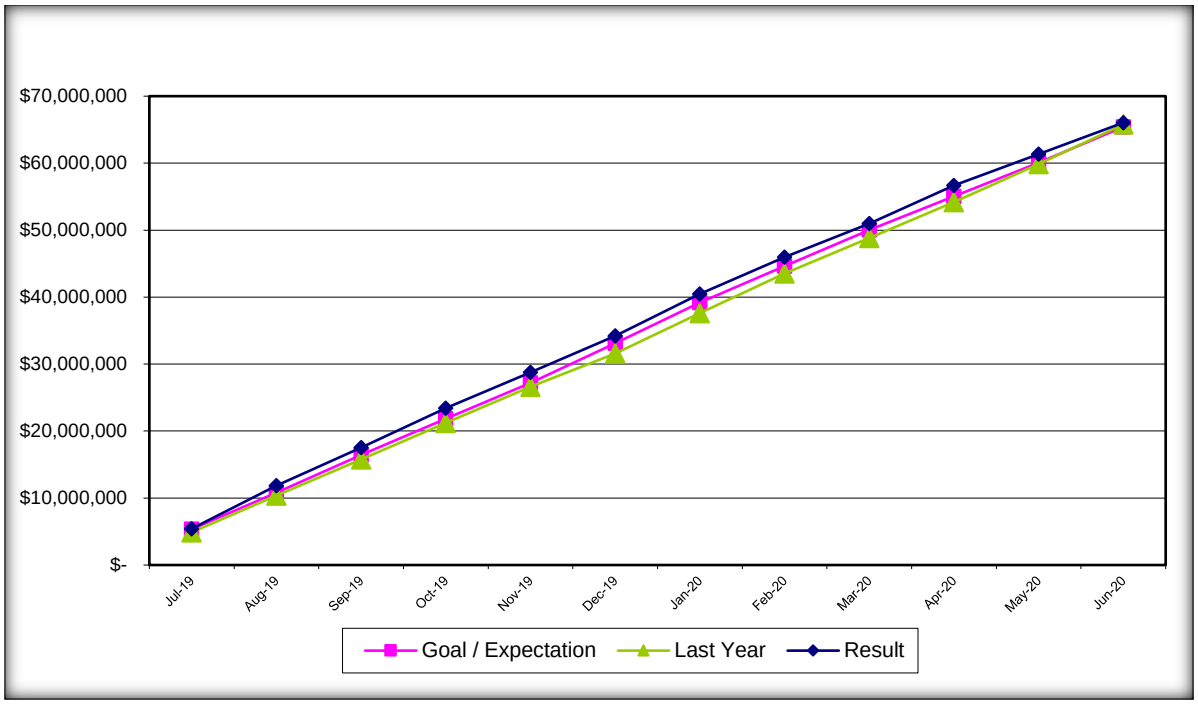


Figure 12: Fiscal Year 2020 Cumulative Operating Revenue – Electric

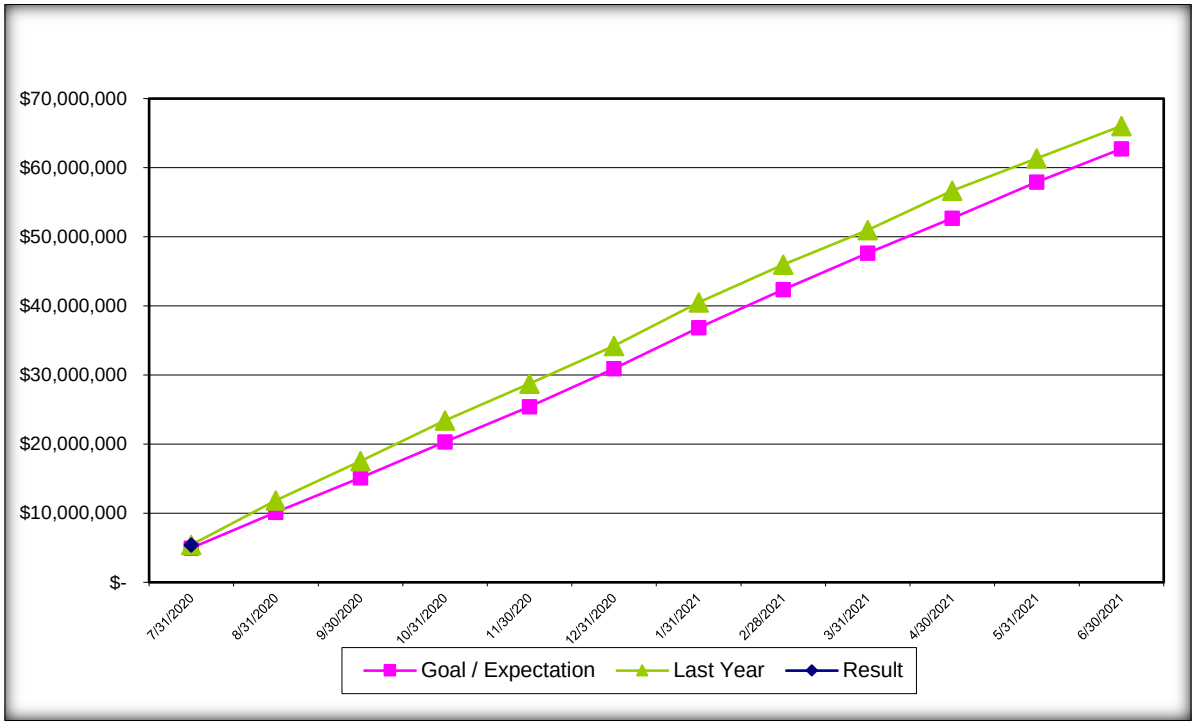


Figure 13: Fiscal Year 2021 Cumulative Operating Revenue – Electric

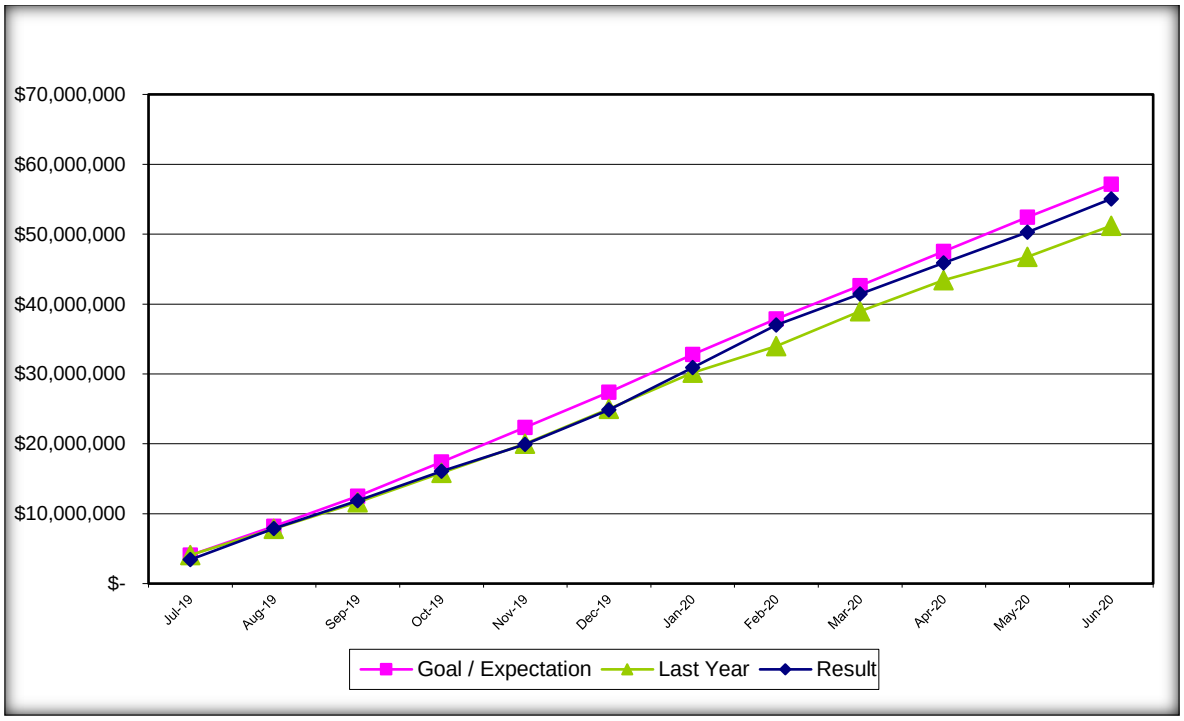


Figure 74: Fiscal Year 2020 Cumulative Operating Expense – Electric

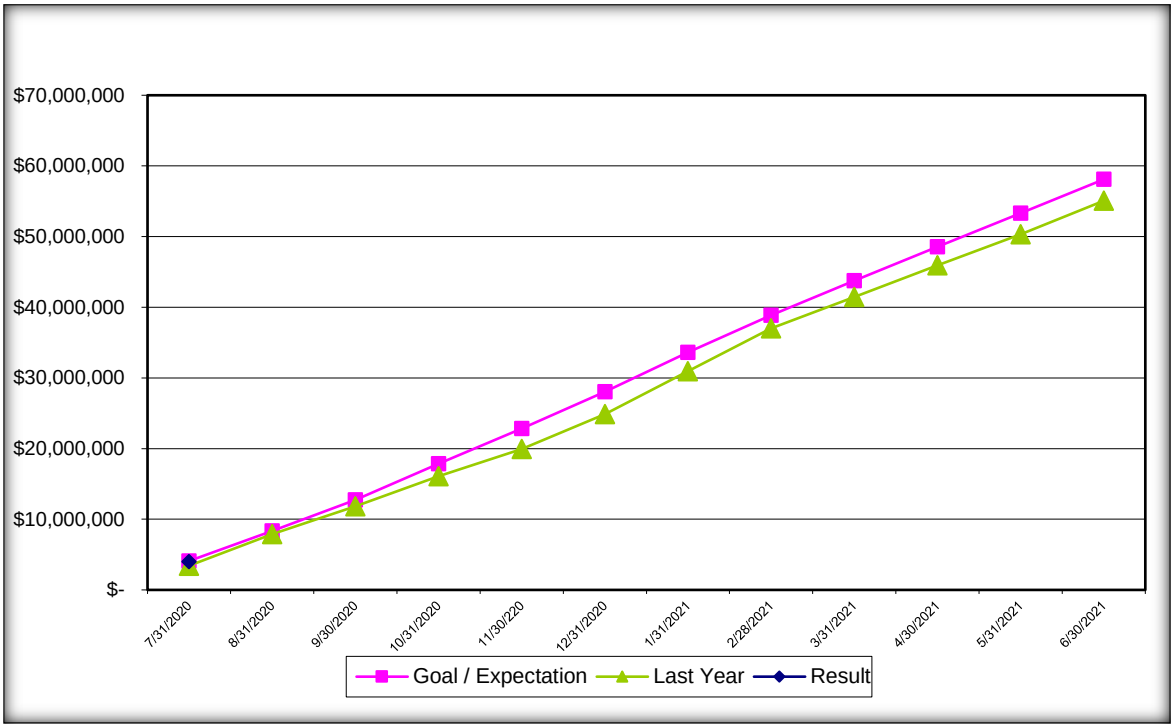


Figure 85: Fiscal Year 2021 Cumulative Operating Expense – Electric

Table 4: Special Revenue Summary – Fiscal Year 2020
Year-to-Date through June 2020

Cap & Trade Revenue Reserve - 10 2114	Funding from Cash Receipts	Power Costs	Operating Expenses	Capital Projects	Total Expenditures	Reserve Balance
Reserve Beginning Balance 6-30-2019						3,127,934
Jul-19	-	-		(588)	(588)	3,127,347
Aug-19	-	(83,334)		(2,604)	(85,938)	3,041,408
Sep-19	269,635	(41,667)		(930)	(42,597)	3,268,446
Oct-19	-	(41,667)		(18,249)	(59,916)	3,208,530
Nov-19	-	(41,667)		(5,395)	(47,062)	3,161,468
Dec-19	267,138	(41,667)		(4,279)	(45,946)	3,382,660
Jan-20	-	(41,667)		-	(41,667)	3,340,993
Feb-20	-	(41,667)		(1,725)	(43,392)	3,297,601
Mar-20	280,845	(41,667)		(2,299)	(43,966)	3,534,480
Apr-20	-	(41,667)		(1,341)	(43,008)	3,491,471
May-20	-	(41,667)		(1,725)	(43,392)	3,448,080
Jun-20	216,390	(41,667)		(2,976)	(44,643)	3,619,826
Total To Date	1,034,008	(500,004)	-	(42,112)	(542,116)	3,619,826

Renewable Energy Credits Revenue Reserve - 10 2113	Funding from Cash Receipts	Power Costs	Operating Expenses	Capital Projects	Total Expenditures	Reserve Balance
Reserve Beginning Balance 6-30-2019						19,327,911
Jul-19	170,516	(2,000)	(61,643)	-	(63,643)	19,434,784
Aug-19	194,673	-	(116,780)	-	(116,780)	19,512,677
Sep-19	151,514	(34,515)	(2,544)	-	(37,059)	19,627,132
Oct-19	160,258	(4,483)	(72,655)	-	(77,138)	19,710,252
Nov-19	184,717	(4,000)	(22,440)	-	(26,440)	19,868,528
Dec-19	190,662	(111,600)	(345,729)	-	(457,329)	19,601,862
Jan-20	191,425	(116,950)	(19,880)	(14,631)	(151,461)	19,641,826
Feb-20	191,938	(111,600)	(27,708)	-	(139,308)	19,694,456
Mar-20	138,653	(4,428)	(9,498)	-	(13,926)	19,819,183
Apr-20	122,676	-	(496)	-	(496)	19,941,363
May-20	135,879	-	(3,166)	-	(3,166)	20,074,076
Jun-20	-	-	(36,504)	-	(36,504)	20,037,572
Total To Date	1,832,911	(389,576)	(719,044)	(14,631)	(1,123,251)	20,037,572

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 6-30-2019						942,892
Jul-19			-		-	942,892
Aug-19	990,000	-	(25,919)	-	(25,919)	1,906,973
Sep-19	(1,250)	-	-	-	-	1,905,723
Oct-19	-	-	(10,972)	-	(10,972)	1,894,751
Nov-19	-	-	(30,432)	-	(30,432)	1,864,319
Dec-19	-	-	(31,250)	-	(31,250)	1,833,070
Jan-20	-	-	(8,154)	-	(8,154)	1,824,916
Feb-20	-	-	(8,093)	-	(8,093)	1,816,822
Mar-20	-	-	(9,960)	-	(9,960)	1,806,862
Apr-20	-	-	(1,203)	-	(1,203)	1,805,659
May-20	-	-	(3,518)	-	(3,518)	1,802,141
Jun-20	-	-	(64,569)	-	(64,569)	1,737,572
Total To Date	988,750	-	(194,071)	-	(194,071)	1,737,572
Combined Total	**3,855,669**	**(889,580)**	**(913,114)**	**(56,743)**	**(1,859,437)**	**25,394,969**

Table 5: Special Revenue Summary – Fiscal Year 2021
Year-to-Date through July 2020

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					-	3,297,029
Sep-20					-	3,297,029
Oct-20					-	3,297,029
Nov-20					-	3,297,029
Dec-20					-	3,297,029
Jan-21					-	3,297,029
Feb-21					-	3,297,029
Mar-21					-	3,297,029
Apr-21					-	3,297,029
May-21					-	3,297,029
Jun-21					-	3,297,029
Total To Date	-	(204,167)	-	(118,630)	(322,797)	3,297,029

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						20,037,572
Jul-20					-	20,037,572
Aug-20					-	20,037,572
Sep-20					-	20,037,572
Oct-20					-	20,037,572
Nov-20					-	20,037,572
Dec-20					-	20,037,572
Jan-21					-	20,037,572
Feb-21					-	20,037,572
Mar-21					-	20,037,572
Apr-21					-	20,037,572
May-21					-	20,037,572
Jun-21					-	20,037,572
Total To Date	-	-	-	-	-	20,037,572

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					-	1,733,956
Sep-20					-	1,733,956
Oct-20					-	1,733,956
Nov-20					-	1,733,956
Dec-20					-	1,733,956
Jan-21					-	1,733,956
Feb-21					-	1,733,956
Mar-21					-	1,733,956
Apr-21					-	1,733,956
May-21					-	1,733,956
Jun-21					-	1,733,956
Total To Date	-	-	(3,616)	-	(3,616)	1,733,956
Combined Total	**-**	**(204,167)**	**(3,616)**	**(118,630)**	**(326,413)**	**25,068,557**

OPERATIONAL STATISTICS

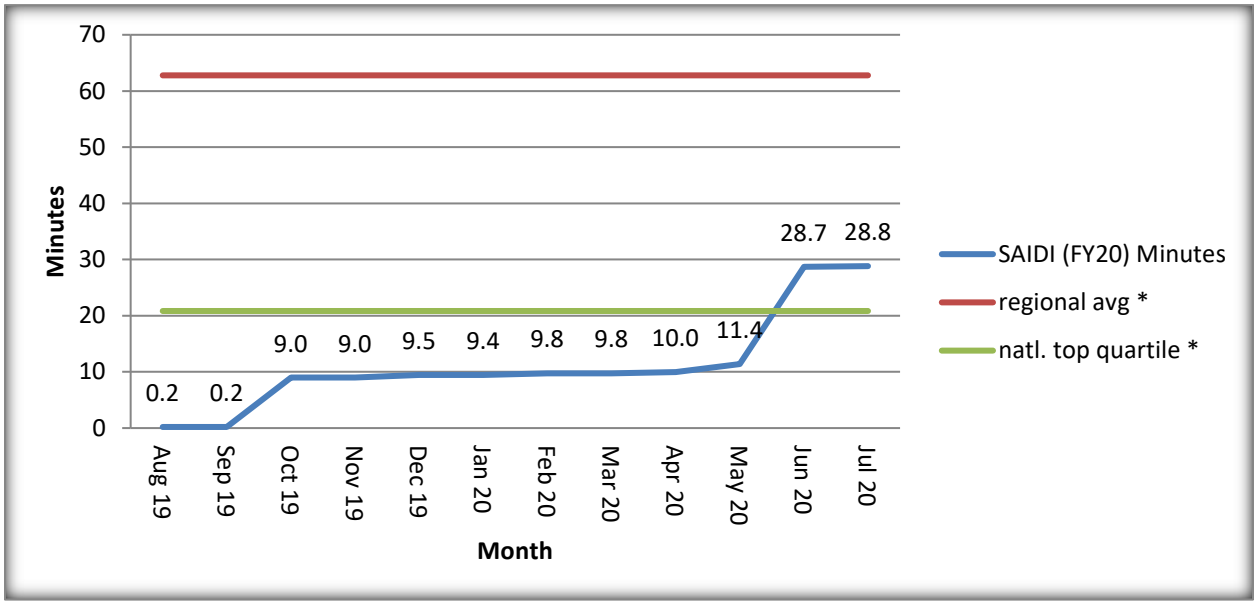


Figure 90: Rolling Twelve-Month System Average Interruption Duration Index (SAIDI)

*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.

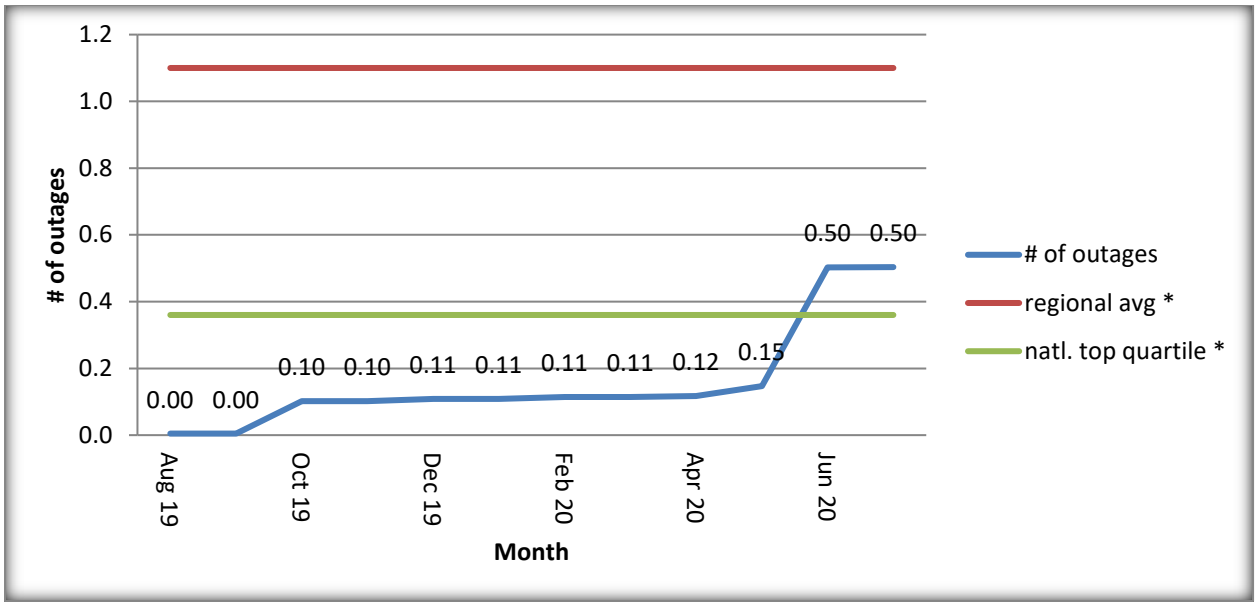


Figure 210: Rolling Twelve-Month System Average Interruption Frequency Index (SAIFI)

*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".

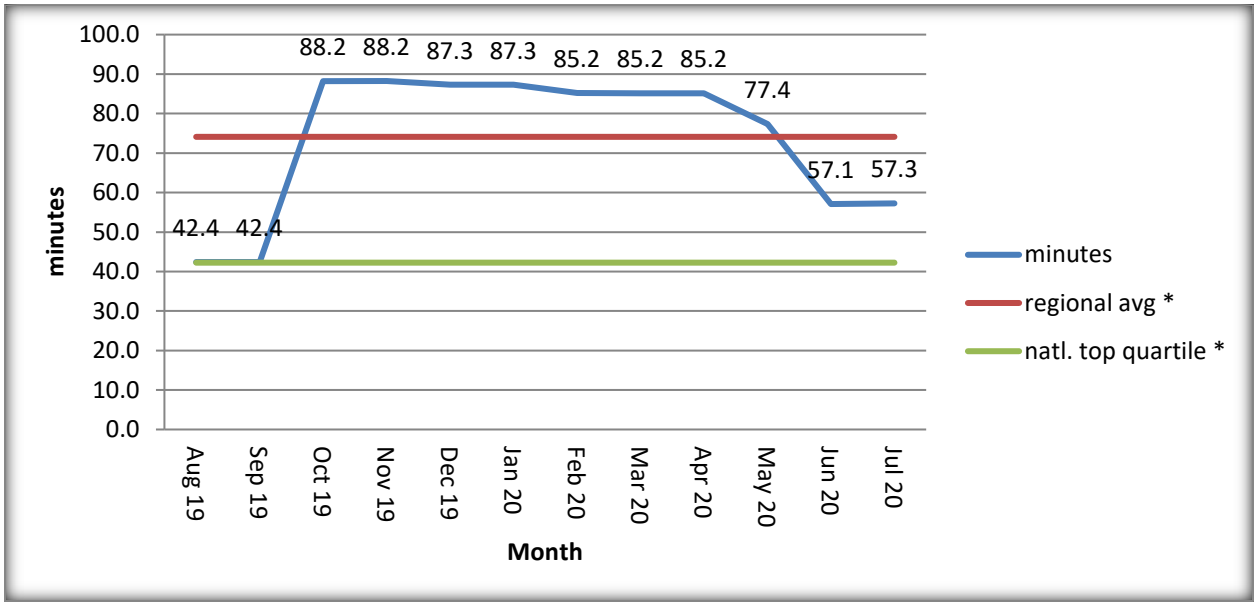


Figure 22: Rolling Twelve-Month Customer Average Interruption Duration Index (CAIDI)

*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.

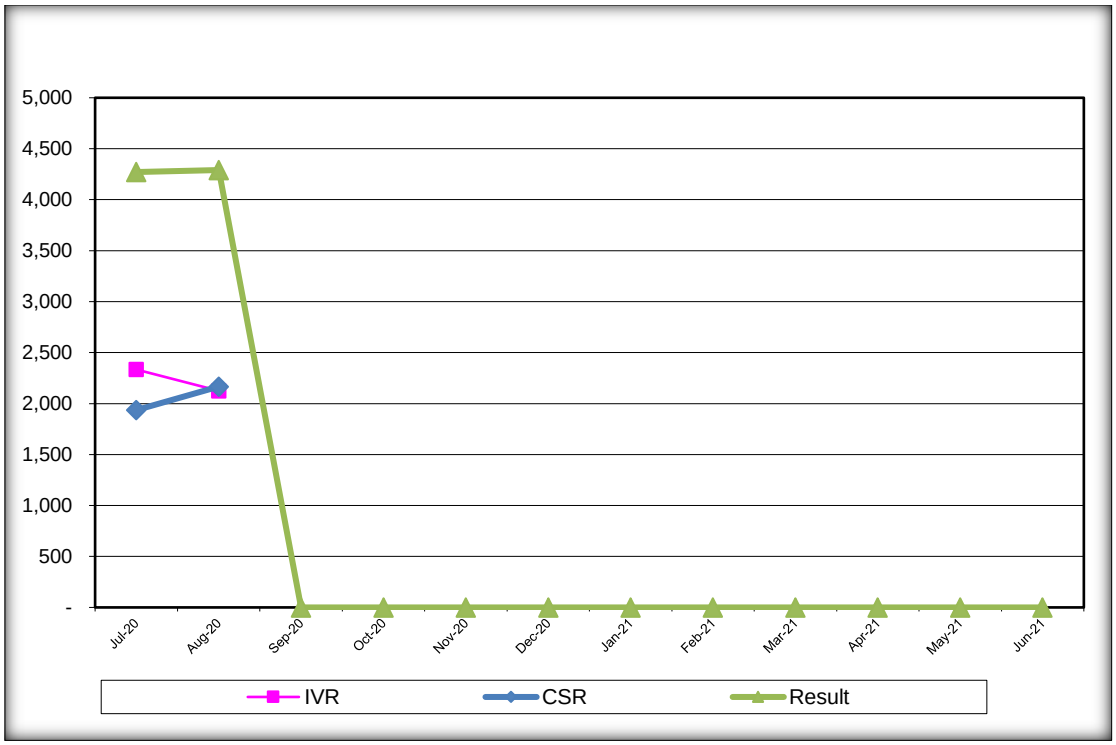


Figure 11: Call Volume Through August 31, 2020