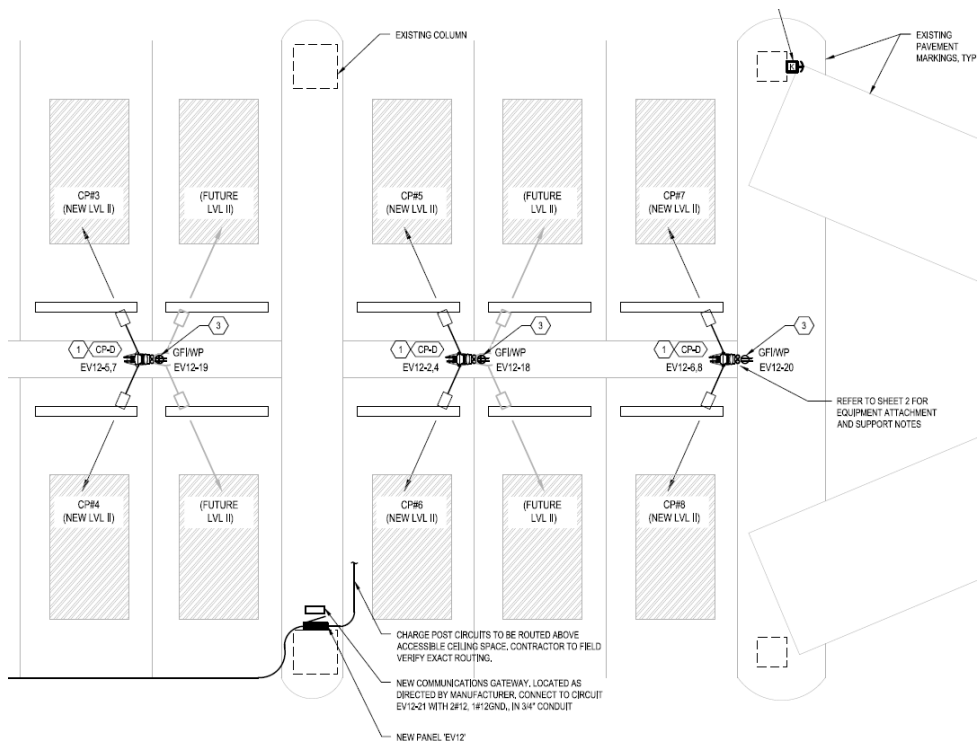


## APPENDIX O – SMART COLUMBUS FINAL REPORT UPDATE FOR REMAINING FUNDS

The Smart Columbus Electrification Program was finalized on July 31, 2020. However, regardless of the current Pandemic, there remains momentum in Smart Columbus Electrification efforts. Due to COVID-19, the City of Columbus' budget and travel plans have been adversely affected, although staff remains in place and activities continue to strategize next steps for electrification in the region.

Of the remaining \$190,159 encumbered from the Paul G. Allen Family Foundation (PGAFF) funds, the following is a breakdown of major fund allocation:

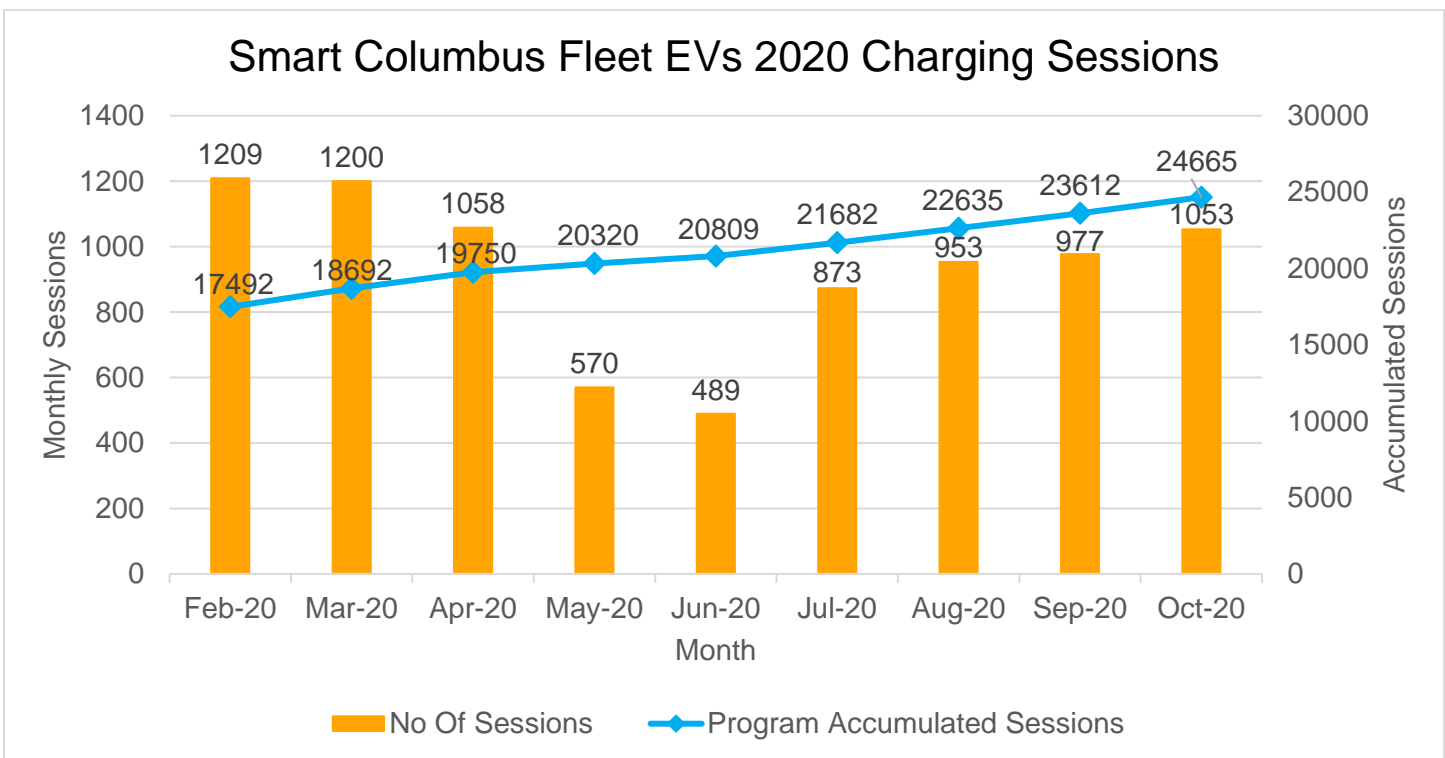
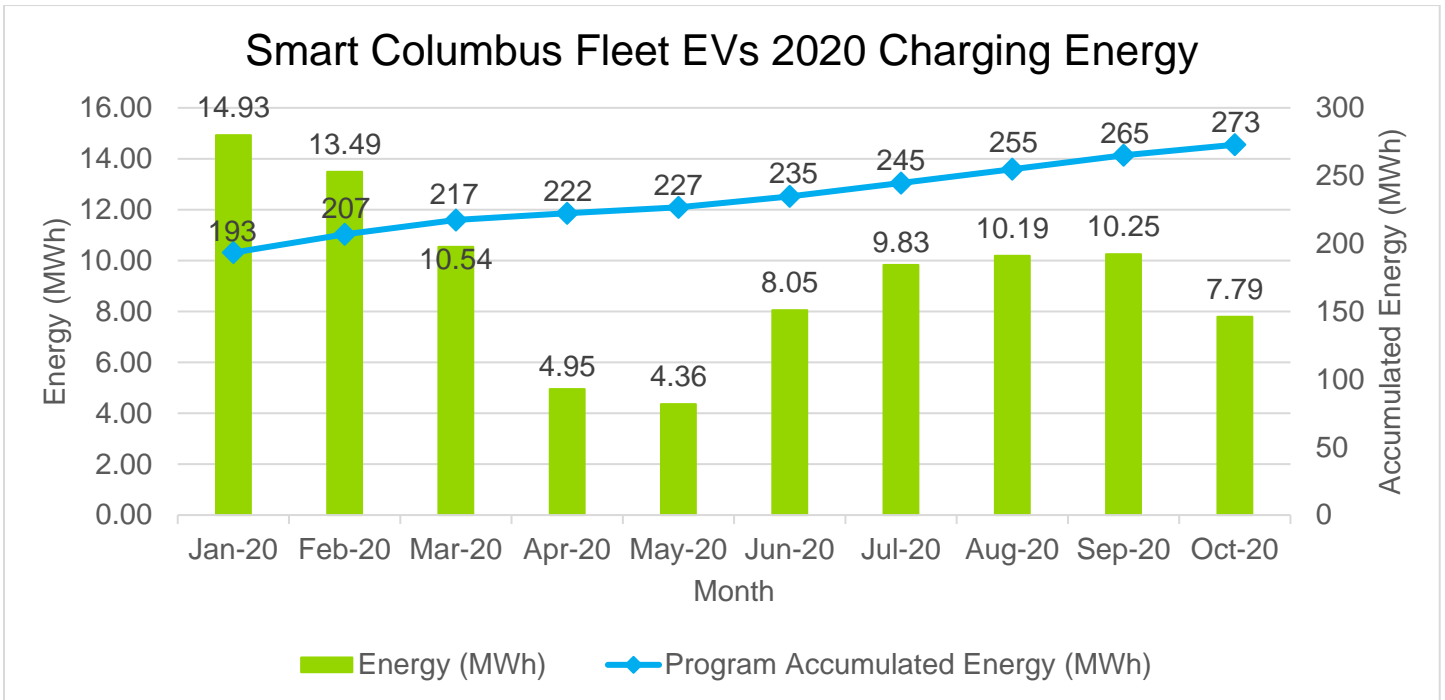
- \$113,159 has been legislated for Proline Electric for installation of charging stations for additional City of Columbus fleet EVs including new electric box trucks and an electric city refuse truck to be procured in 2021 by the Department of Public Service. The notice to proceed for this work is expected to be in November 2020. The city's consultant for the electrification program, GPD Group, has been allocated additional city funds to continue design efforts for these charging stations.
- The 120 Marconi Boulevard Garage Fleet EV charging project has been allocated \$52,000 from unused city research dollars and fleet incentives. This project includes four proposed dual port Level 2 EV charging stations with an additional eight Level 1 outlets designed for use by plug-in hybrids and in preparation for future expansion to Level 2 charging. The image below shows a sample of the electrical plan for this work.



- \$25,000 remains for city travel. Due to travel restrictions delaying this effort until 2021, the City will be unable to use the remaining funds allocated. As noted on Page 6, these funds were not placed on deposit with the city.

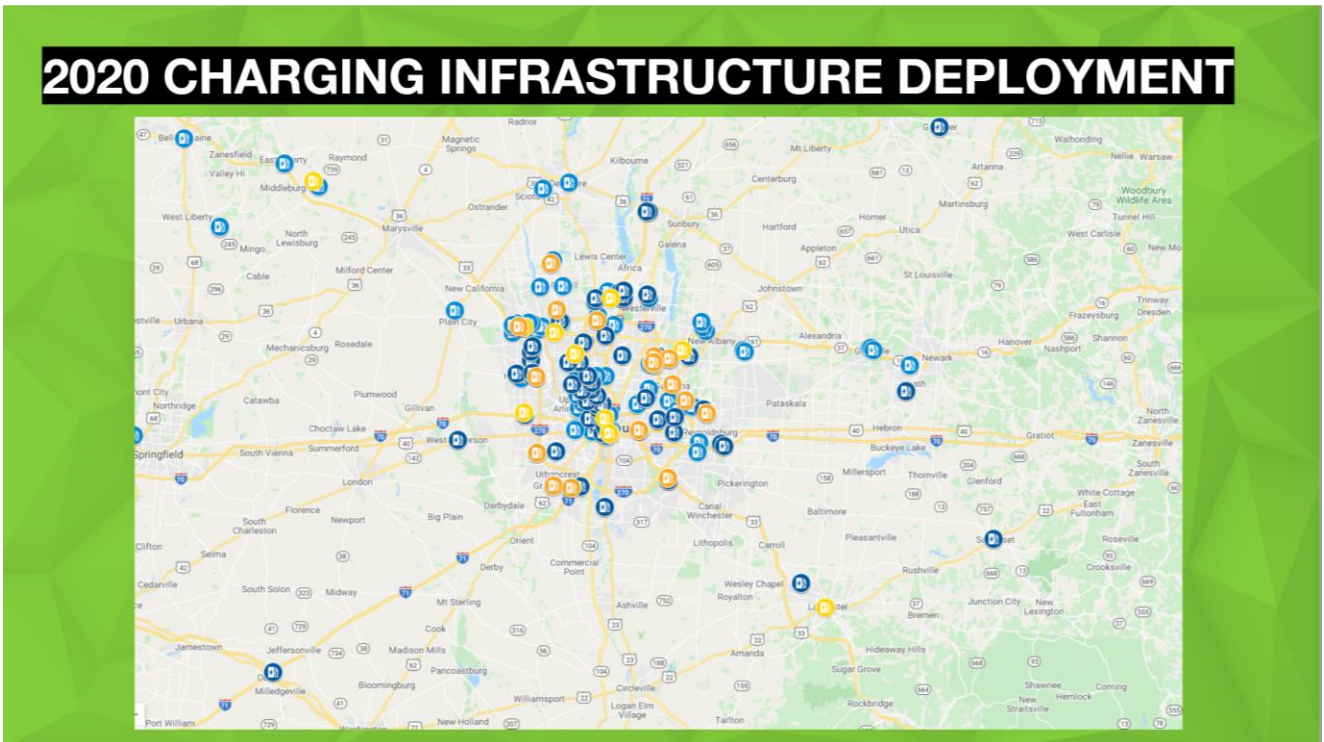
See Page 6 for an updated program budget showing final PGAFF funds allocated to the remaining charging stations.

For reference of the impact of COVID-19 on the City of Columbus EV fleet vehicle and charging utilization, the following charts show the charger energy output and the number of charging sessions per month during 2020. Of note, there were 46 charging ports added to the ChargePoint network in June, one in July and two in August. Even with the increase in available ports, charging activity remained down about 25% from the beginning of the year, as a majority of City staff has been working from home. The City is currently working on a strategy for safe and efficient EV fleet and charging utilization due to the continuing impact of the COVID-19 pandemic on City operations.






Additional electrification activities included:

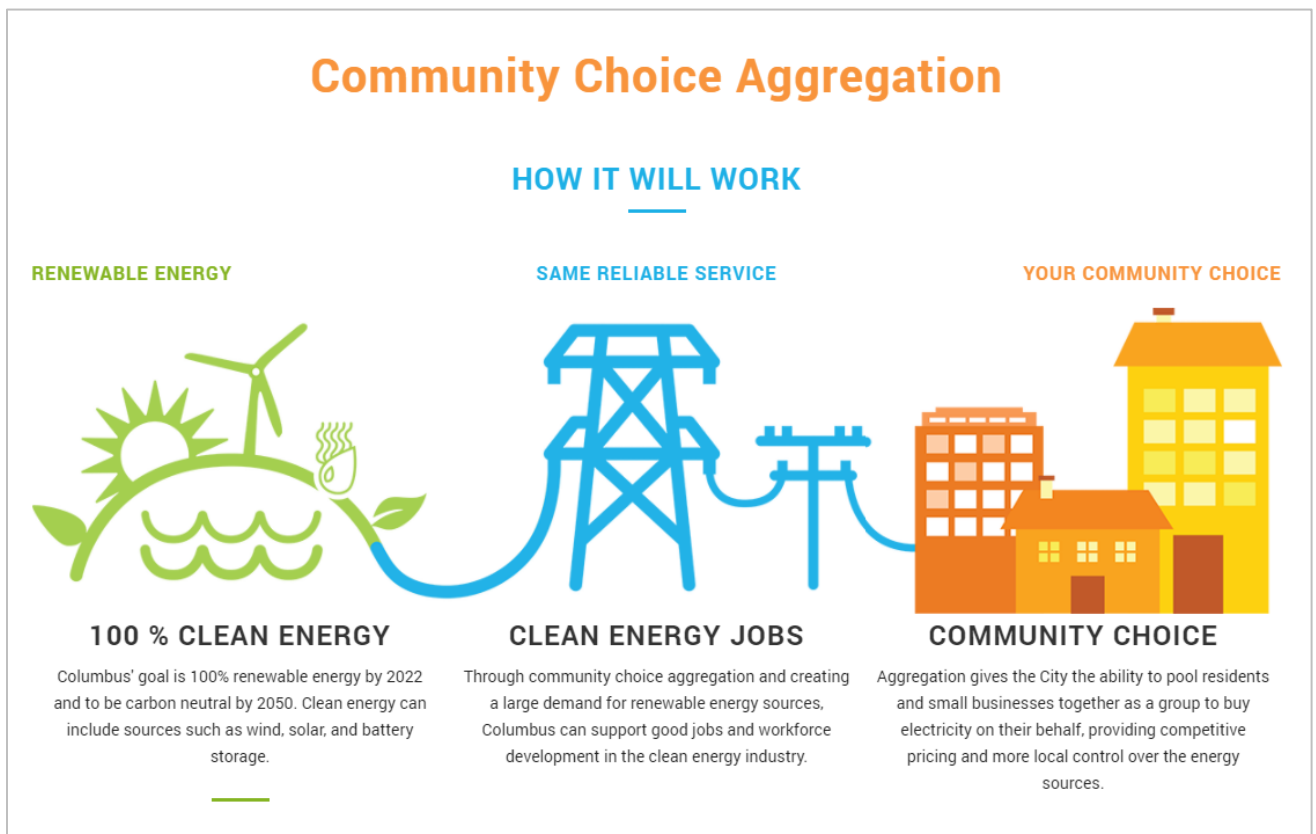
- Engaging with other cities in webinars related to Smart Columbus electrification work and the lessons learned in the program. Examples of webinars include:
  - August 4 (Electrification Coalition) – Advancing Fleet Electrification
  - August 18 (Electrification Coalition) – Driving Consumer Adoption through Public/Private Partnerships
  - September 8 (Electrification Coalition) – Fortifying Regional EV Charging Infrastructure (see sample slide below)
  - July-September – Attended and shared at five public EV charging cohort sessions held by the Natural Resources Defense Council (NRDC).
  - October 19 (MAPC.org) – Smart Columbus Multi-Unit Dwelling Rebate Program
  - October 19 (NRDC.org) – Smart Columbus Mobility Hubs and Charging Stations
  - October 27 (NREL) – Smart Cities Connect



**LEGEND**

-  2016 to 2020 level 2 charging infrastructure deployment
-  2016 existing level 2 charging infrastructure
-  2016 to 2020 DC Fast Charging infrastructure deployment
-  2016 existing DC Fast Charging infrastructure

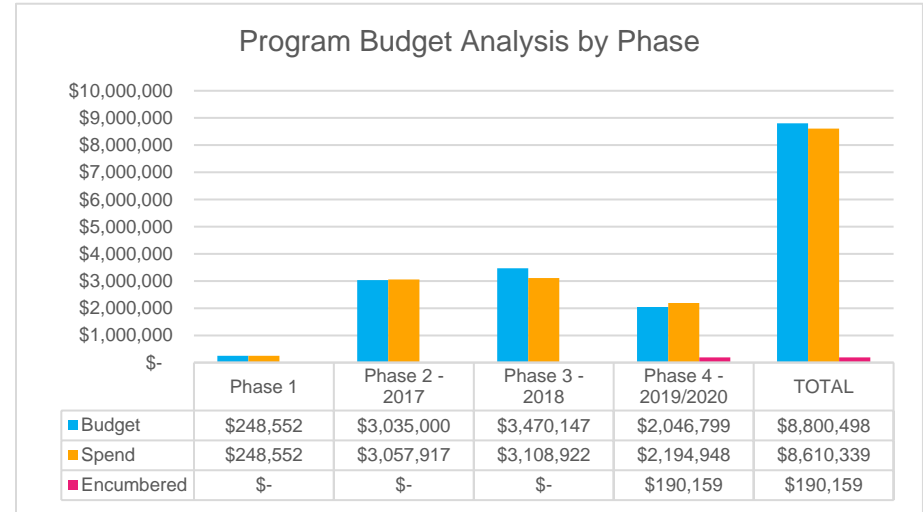
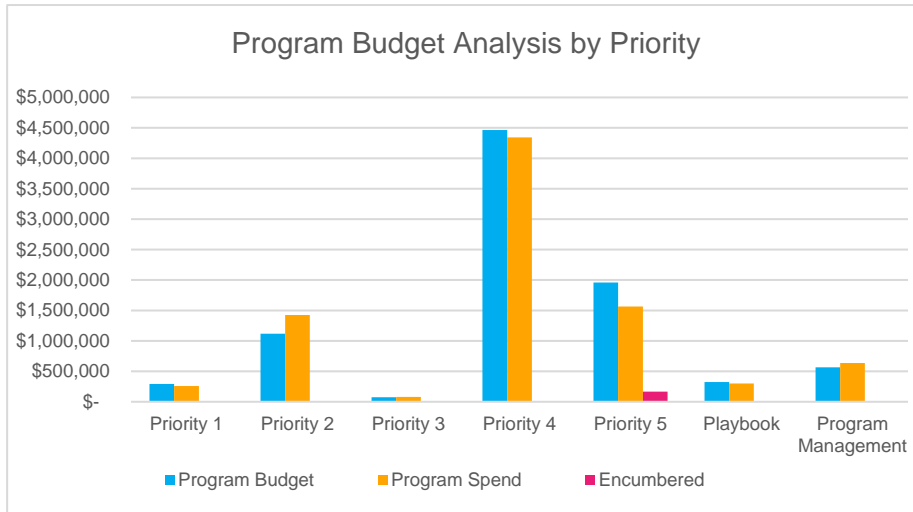
- Applying for VW Settlement funds for two city parking garages that will help provide 31 additional public charging stations to the 14 currently planned to be installed at the end of 2020.
- Involvement in international workshops through clean cities agencies, such as Clean Tech Scandinavia.
- Discussing one-on-one with staff and consultants from other cities such as Denver, CO; Quincy, MA; and Tampa, FL, about various facets of the electrification programs.
- Continuing working toward *Global Covenant of Mayors for Climate & Energy Goal 2017: 40% GHG Reduction of Municipal Operations from 2005 baseline by 2030*. Improvements to date include a 17% achievement of the “20% by 2020” goal. Of note:
  - The total population of the City of Columbus has grown 20% over the baseline year 2005;
  - Per capita, GHG emissions have reduced by 31%; and
  - The majority of the reduction was from improvements to the electricity grid supply mix.
- Promoting a ballot measure on Community Choice Aggregation to appear on the ballot for the November 3, 2020 election. If City of Columbus voters approve, it would allow the City to transition to 100% renewable energy by 2022. See the Sustainable Columbus web site for more information: <https://www.columbus.gov/Templates/Detail.aspx?id=2147516909>



- Developing a strategy to analyze post-Pandemic data collected on fleet EVs and charging stations.
- Engaging through the Bloomberg grant and with The Ohio State University capstone students to continue efforts to make EVs an affordable option to those with lower and middle incomes.
- Currently working to review permits from Greenspot EV and Yellow Cab of Columbus to install charging stations in Smart Mobility Hubs and other areas for car sharing and Transportation Network Company EVs.
- Continuing to engage with DriveOhio for statewide EV adoption efforts.
- Continuing to discuss a variety of charging options with charging station companies such as “Electrada.”
- Attending ongoing Argonne National Labs virtual meetings regarding charging for heavy duty EVs, such as electric buses.
- Working through City of Columbus Building and Zoning Services to legislate an EV Ready Ordinance.
- Advising on a Decentralized Mobility Ecosystem Project Advisory Committee held by Clean Fuels Ohio.
- Developing City of Columbus Supplemental Specifications for charging stations in the public right of way.
- Coordination with the Columbus Partnership to continue public/private work toward EV adoption goals.
- Developing a [vehicle registration dashboard](#) initiated through the PGAFF funds and now funded by the Ohio Department of Transportation (ODOT). The dashboard provides registration data for alternative fuel vehicles filtered by time, region and county and includes data and mapping visuals.

## PROGRAM BUDGET

Ninety-eight percent (98%) of the \$8.8M budget has been paid out. The reporting period for financial expenditure data for the City of Columbus is based on invoices received through October 31, 2020.



### AUGUST 2016 THROUGH OCTOBER 2020

**Program Budget: \$8,800,498 Total Spend: \$8,610,339 Total Encumbered: \$165,159 Deferred\* (Travel): \$25,000**

	<u>Budget</u>	<u>Spent</u>	<u>Encumbered</u>	<u>Deferred*</u>	<u>% Spent</u>
Priority 1	\$ 292,021	\$ 259,585	\$ 0	\$ 0	89%
Priority 2	\$ 1,119,173	\$ 1,426,688	\$ 0	\$ 0	127%
Priority 3	\$ 75,000	\$ 79,388	\$ 0	\$ 0	106%
Priority 4	\$ 4,464,118	\$ 4,341,940	\$ 0	\$ 0	97%
Priority 5	\$ 1,959,949	\$ 1,565,691	\$ 165,159	\$ 0	80%
Playbook (PB)	\$ 324,715	\$ 300,664	\$ 0	\$ 12,359	93%
Program Management (PM)	\$ 565,521	\$ 636,382	\$ 0	\$ 12,640	113%

\*funds not received from PGAFF