CONSOLIDATED COMMISSION ON UTILITIES
Guam Power Authority | Guam Waterworks Authority
P.O. Box 2977 Hagatna, Guam 96932 | (671) 648-3002 | guamccu.org

GUAM POWER AUTHORITY WORK SESSION

CCU Conference Room

4:30 p.m., Thursday, November 21, 2019

AGENDA

1. **ISSUES FOR DECISION**
   - 1.1 **Creation of Supervisory Control and Data Acquisition [SCADA] Technician Series of Position s / Resolution 2019-15**
   - 1.2 **Levelized Energy Adjustment Clause [LEAC] Adjustment / Resolution 2019- 1 6**
   - 1.3 **Cabras 1&2 Performance Mgmt. Contract [PMC] / Resolution 2019-17**
   - 1.4 **Demand Side Mgmt. [DSM} Funding / Resolution 2019- 1 8**
   - 1.5 **Net Metering [NEM] Policy Requiring Installation of Energy Storage System [ESS] / Resolution 2019-19**
   - 1.6 **Net Metering Tariff / Resolution 2019-20**

2. **GM REPORT**
   - 2.1 **Updates**

3. **ISSUES FOR DISCUSSION**

4. **OTHER DISCUSSION**

5. **DIVISION REPORTS**
   - 4.1 **Administration: Customer Service, HR, Procurement, Safety**
   - 4.2 **Communications**
   - 4.3 **Engineering & Technical: Engineering, IT, Planning & Regulatory, SPORD**
   - 4.4 **Finance**
   - 4.5 **Operations: Facilities, Generation, PSCC, T&D, Transportation**

6. **ANNOUNCEMENTS**
   - 6.1 **Next Meeting: CCU Meeting: November 26, 2019**

7. **ADJOURNMENT**

GPA Resolution No. 2019-15

Relative to Approving of the Creation of the SCADA Position Series

What is the project's objective and is it necessary and urgent?
The installation and utilization of GPA's Supervisory Control and Data Acquisition (SCADA) system significantly changed the GPA's Power System Control Center's processes and structure. Current employees holding Computer Technician series positions are performing technically distinct SCADA duties. The Authority seeks to create new positions to reflect its current processes and structure.

Where is it at?
The SCADA position series will be utilized by the Power Systems Control Center.

How much will it cost?
The job series creation is not expected to exceed the current budget.

When will it be completed?
December 30, 2019.

What is its funding source?
Revenue funds.

The RFP/BID responses:
Not applicable.

CONSOLIDATED COMMISSION ON UTILITIES
Guam Power Authority | Guam Waterworks Authority
P.O. Box 2977 Hagatna, Guam 96932 | (671)649-3002 | guamccu.org

RESOLUTION NO. 2019-15

RELATIVE TO APPROVING OF THE CREATION OF THE SCADA POSITION SERIES

WHEREAS, under 12 G.C.A. §8104, the Consolidated Commission on Utilities ("CCU") has plenary authority over financial, contractual and policy matters relative to the Guam Power Authority; and

WHEREAS, the Guam Power Authority ("GPA") is a Public Corporation established and existing under the laws of Guam; and

WHEREAS, GPA upgraded its power system control center to a Supervisory Control and Data Acquisition ("SCADA") system that connects decentralized power generation assets, allowing remote management and monitoring functions; and

WHEREAS, GPA reviewed the standards of the current employee positions operating its SCADA system and determined it is necessary to create a series of SCADA positions to support the utility; and

WHEREAS, the GPA General Manager requests the CCU to approve the creation of the SCADA Technician I, II, Leader and Supervisor positions (Exhibit A); and

WHEREAS, the GPA General Manager requests the CCU to approve the classification standard of the SCADA Technician I, II, Leader and Supervisor positions in the classified status; and

WHEREAS, Public Law 28-112 and 4 G.C.A. §6303(d) authorizes the creation in Autonomous Agencies and Public Corporations; and

WHEREAS, GPA Personnel Rules & Regulations as amended by Public Law 28-159 authorizes the CCU to amend, modify or add a position to the list of certified, technical and professional positions; and

NOW, THEREFORE BE IT RESOLVED, the Consolidated Commission on Utilities, as the Governing Body of the Guam Power Authority, does hereby approve and authorize the following:

1. The recitals set forth above hereby constitute the findings of the CCU.
2. The creation and the job classification standard for the SCADA Technician I, II, Leader and Supervisor positions in the classified status is hereby approved and attached herein as Exhibit A.
3. The SCADA Technician I, II, Leader and Supervisor positions are hereby added to the Certified, Technical and Professional list of positions at GPA and GWA.
4. The authorization of the SCADA Technician I, II, Leader and Supervisor positions shall become effective December 30, 2019.

RESOLVED, that the Chairman certifies and the Secretary attests to the adoption of this Resolution.

DULY AND REGULARLY ADOPTED AND APPROVED THIS 26th DAY OF NOVEMBER 2019.

Certified by:	Attested by:
_____	_____
JOSEPH T. DUENAS Chairman Consolidated Commission on Utilities	**MICHAEL LIMTIACO** Secretary Consolidated Commission on Utilities

I, Michael Limtiaco, Secretary for the Consolidated Commission on Utilities (CCU), as evidenced by my signature above do certify as follows:

The foregoing is a full, true, and accurate copy of the resolution duly adopted at a regular meeting of the members of Guam Consolidated Commission on Utilities, duly and legally held at a place properly noticed and advertised at which meeting a quorum was present and the members who were present voted as follows:

Ayes: _____

Nays: _____

Absent: _____

Abstain: _____

xx.xxx

SCADA TECHNICIAN I
(Proposed Creation)

NATURE OF WORK IN THIS CLASS:

Performs semi-skilled work in the installation, operation, maintenance and upgrade of a real-time Supervisory Control and Data Acquisition (SCADA) system to accurately and continuously monitor and control the electric utility system or water/wastewater system.

ILLUSTRATIVE EXAMPLES OF WORK: (Any one position may not include all the duties listed nor do the examples cover all the duties which may be performed.)

Assists in the installation, testing, maintenance and upgrade of a SCADA/Energy Management System (SCADA/EMS) system and its components.

Assists in the installation, testing and maintenance of Remote Terminal Units (RTU), which includes all necessary cabling.

Assists in the installation, testing and maintenance of the substation Digital Automation Platform (DAP) servers.

Assists in the installation, testing, calibration and maintenance of telemetry transducers.

Participate in the installation, testing, calibration and maintenance of various communication networks and its components, which includes but is not limited to fiber optics, category 5, serial data, etc.

Respond to emergency calls pertaining to SCADA/EMS system failures and/or outages during system disturbances (island wide power outages, tropical storm/typhoon conditions and natural disasters and other system problems).

Work during adverse system conditions (island wide power outages, tropical storm/typhoon conditions and natural disasters and other system problems) to maintain SCADA/EMS operations.

Assists with repair tasks requiring a high degree of skill in the SCADA related field.

Performs other related work as required.

MINIMUM KNOWLEDGE, ABILITIES AND SKILLS:

Knowledge of the standard principles, practices, methods, techniques, tools and test equipment used in the installation, maintenance and repair of SCADA/EMS related computer servers, RTU and other devices.

Knowledge of computer hardware & software.

Ability to apply safe work practices on the job.

"Exhibit A"

Ability to read, interpret and work from blueprints, sketches and diagrams.

Ability to work effectively with the public and employees.

Ability to understand and follow oral and written instructions.

Ability to maintain records and prepare reports.

MINIMUM EXPERIENCE AND TRAINING:

A. One (1) year experience in the installation, operation, maintenance, repair and upgrade of SCADA/EMS related computer servers and remote terminal units;

B. Any equivalent combination of experience and training which provides the minimum knowledge, abilities and skills.

Established:

JOSEPH T. DUENAS, Chairman
Consolidated Commission on Utilities

XX.XXX

SCADA TECHNICIAN II
(Proposed Creation)

NATURE OF WORK IN THIS CLASS:

Performs skilled work in the installation, operation, maintenance and upgrade of a real-time Supervisory Control and Data Acquisition (SCADA) system to accurately and continuously monitor and control the electric utility system or water/wastewater system.

ILLUSTRATIVE EXAMPLES OF WORK: (Any one position may not include all the duties listed nor do the examples cover all the duties which may be performed.)

Perform skilled work in the installation, testing, maintenance and upgrade of a SCADA/Energy Management System (SCADA/EMS) system and its components.

Perform skilled work in the installation, testing and maintenance of Remote Terminal Units (RTU) which includes all necessary cabling.

Performs skilled work in the installation, testing and maintenance of the substation Digital Automation Platform (DAP) servers.

Performs skilled work in the installation, testing, calibration and maintenance of telemetry transducers.

Participate in the installation, testing, calibration and maintenance of various communication networks and its components, which includes but is not limited to fiber optics, category 5, serial data, etc.

Respond to emergency calls pertaining to SCADA/EMS system failures and/or outages during system disturbances (island wide power outages, tropical storm/typhoon conditions and natural disasters and other system problems).

Work during adverse system conditions (island wide power outages, tropical storm/typhoon conditions and natural disasters and other system problems) to maintain SCADA/EMS operations.

Maintains databases for proper maintenance of SCADA/EMS, RTU and transducer equipment.

Perform repair tasks requiring a high degree of skill in the SCADA related field.

Performs other related work as required.

MINIMUM KNOWLEDGE, ABILITIES AND SKILLS:

Knowledge of the standard principles, practices, methods, techniques, tools and test equipment used in the installation, maintenance and repair of SCADA/EMS related computer servers, RTU and other devices.

Knowledge of computer hardware & software.

Ability to apply safe work practices on the job.

Ability to read, interpret and work from blueprints, sketches and diagrams.

Ability to work effectively, orally or in writing.

Ability to maintain records and prepare reports.

MINIMUM EXPERIENCE AND TRAINING:

A. Four (4) years of experience in the installation, maintenance, repair and upgrade of SCADA/EMS related computer servers and remote terminal units; or

B. Any equivalent combination of experience and training which provides the minimum knowledge, abilities and skills.

Established:

JOSEPH T. DUENAS, Chairman
Consolidated Commission on Utilities

xx.xxx

SCADA TECHNICIAN LEADER
(Proposed Creation)

NATURE OF WORK IN THIS CLASS:

Leads and performs skilled work in the installation, operation, maintenance and upgrade of a real-time Supervisory Control and Data Acquisition (SCADA) system to accurately and continuously monitor and control the electric utility system or water/wastewater system.

ILLUSTRATIVE EXAMPLES OF WORK: (Any one position may not include all the duties listed nor do the examples cover all the duties which may be performed.)

Leads and performs skilled work in the installation, testing, maintenance and upgrade of a SCADA/Energy Management System (SCADA/EMS) system and its components.

Leads and performs skilled work in the installation, testing and maintenance of Remote Terminal Units (RTU) which include all necessary cabling.

Leads and performs skilled work in the installation, testing and maintenance of the substation Digital Automation Platform (DAP) servers.

Leads and performs skilled work in the installation, testing, calibration and maintenance of telemetry transducers.

Participate in the installation, testing, and maintenance of various communication networks and its components, which include but are not limited to fiber optics, category 5, serial data, etc.

Responds to emergency calls to SCADA/EMS system failures and/or outages during system disturbances (island wide power outages, tropical storm/typhoon conditions and natural disasters, and other system problems).

Work during adverse system conditions (island wide power outages, tropical storm/typhoon conditions and natural disasters, and other system problems) to maintain SCADA/EMS operations.

Assist supervisor with the preparation of budget plans for SCADA/EMS system requirements.

Perform repair tasks requiring a high degree of skill in the SCADA related trade.

Maintain databases for proper maintenance of SCADA/EMS, RTU, transducer and other SCADA related equipment.

Performs other related work as required.

MINIMUM KNOWLEDGE, ABILITIES AND SKILLS:

Knowledge of the standard principles, practices, methods, techniques, tools and test equipment

used in the installation, maintenance and repair of SCADA/EMS related computer servers, workstations, networks, uninterrupted power supplies, RTU and other devices.

Knowledge of computer hardware & software.

Ability to lead the work of others.

Ability to apply safe work practices on the job.

Ability to read, interpret and work from blueprints, sketches and diagrams.

Ability to work effectively, orally or in writing.

Ability to maintain records and prepare reports.

Skill in computer equipment repair work.

MINIMUM EXPERIENCE AND TRAINING:

A. Five (5) years of experience in the installation, operation, programming, maintenance, repair and upgrade of SCADA/EMS related computer servers and RTU and one (1) year at the skilled level; or

B. Any equivalent combination of experience and training which provides the minimum knowledge, abilities and skills.

Established:

JOSEPH T. DUENAS, Chairman
Consolidated Commission on Utilities

xx.xxx

SCADA TECHNICIAN SUPERVISOR
(Proposed Creation)

NATURE OF WORK IN THIS CLASS:

Supervises and participates in the installation, operation, maintenance and upgrade of a real-time supervisory control and data acquisition (SCADA) system to accurately and consistently monitor and control the electric utility system or water/wastewater system.

ILLUSTRATIVE EXAMPLES OF WORK: (Any one position may not include all the duties listed nor do the examples cover all the duties which may be performed.)

Supervises the installation, testing, maintenance and upgrade of a SCADA/Energy Management System (SCADA/EMS) system and its components.

Supervises the installation, testing and maintenance of the substation Digital Automations Platform (DAP) servers.

Supervises the installation, testing, calibration and maintenance of telemetry transducers.

Participates in the installations, testing and maintenance of various communication networks and its components, which include but is not limited to, fiber optics, category 5, serial data, etc.

Responds to emergency calls pertaining to SCADA/EMS system failures and/or outages during system disturbances (island wide power outages, tropical storm/typhoon conditions and natural disasters, other system problems).

Works during adverse system conditions and natural disasters, other system problems) to maintain SCADA/EMS operations.

Prepares budget plans for SCADA/EMS system requirements.

Prepares work plans for short-term (daily, weekly, monthly) and long-term duration (annual).

Develops and maintains databases for proper maintenance of SCADA/EMS, RTU and transducer equipment.

Performs repair tasks requiring a high degree of skill in the SCADA related trade, as needed.

Performs other related work as required.

MINIMUM KNOWLEDGE, ABILITIES AND SKILLS:

Knowledge of the standard principles, practices, methods, techniques, tools and test equipment used in the installation, maintenance and repair of SCADA/EMS related computer servers, workstations, networks, Uninterrupted Power Supply (UPS), RTU and other devices.

Knowledge of computer hardware & software.

Ability to supervise the work of others.

Ability to apply safe work practices on the job.

Ability to read, interpret and work from blueprints, sketches and diagrams.

Ability to work effectively, orally or in writing.

Ability to maintain records and prepare reports.

MINIMUM EXPERIENCE AND TRAINING:

A. Six (6) years of experience in the installation, operation, programming, maintenance, repair and upgrade of SCADA/EMS related computer servers, workstations, networks, UPS and RTU and two (2) years at the skilled level; or

B. Any equivalent combination of experience and training which provides the minimum knowledge, abilities and skills.

Established:

JOSEPH T. DUENAS, Chairman
Consolidated Commission on Utilities

GUAM POWER AUTHORITY

POSTING OF CREATION
OVERALL TIMELINES (10-Day)
Chapter 6, §6303(d), §6303.1, 4GCA
SCADA Technician I, II, Leader & Supervisor

Date Posted on GPA Website	**10/11/19**
*Saturdays, Sundays & GovGu holidays excepted	
10-Day Time -	**10**
Final Day of Posting	**10/25/19**
Media notification by PIO:	**10/30/19**
Government meeting notification by Lou Sablan:	**11/13/19** **11/18/19**

Sandra D. Perez, Personnel Services Administrator

This is to certify that the Human Resources Division has complied with all the posting requirements set forth in §6303 (d) and §6303.1 of Title 4 GCA.

CONSOLIDATED COMMISSION ON UTILITIES
Guam Power Authority | Guam Waterworks Authority
P.O. Box 2977 Hagatna, Guam 96932 | (671) 648-3002 | guamccu.org

RESOLUTION NO. 2019 - 16

AUTHORIZING THE MANAGEMENT OF THE GUAM POWER AUTHORITY TO PETITION THE GUAM PUBLIC UTILITIES COMMISSION FOR CHANGE IN THE LEVELIZED ENERGY ADJUSTMENT CLAUSE

WHEREAS, the Guam Public Utilities Commission (GPUC) has established a Tariff under which the Guam Power Authority (GPA) is allowed to recover its fuel costs and fuel related costs under a factor which is reset and trued up every (6) six months through the Levelized Energy Adjustment Clause (LEAC); and

WHEREAS, the deadline for the next filing is December 15, 2019; and

WHEREAS, for the LEAC period covered from August 1, 2019 through January 31, 2020, GPA requested to maintain the LEAC rate of $0.154242/kWh that was approved for meters read on or after May 1, 2018 in anticipation of projected declining prices of black oil in the fuel market and to recover about 30% of the under-recovery at the end of the period; and

WHEREAS, the average market price of residual fuel oil and diesel to be used in the initial filing for the current period was approved at $78.61/bbl for the (6) six-month period ending January 31, 2020, the current projection for the same period is $77.06/bbl. The projected average price of residual fuel oil and diesel for the period ending February 1, 2020 to July 31, 2020 is $65.71/bbl; and

WHEREAS, the most recent Morgan Stanley market projections indicate falling fuel prices over the next year. However, according to S&P Global Platts, "OPEC and its allies are leaning towards their 1.2 billion b/d supply cut agreement through the end of 2020" in the hopes

of boosting the global economy. Based on this information, GPA anticipates an increase in fuel price by 15% from the current market; and

WHEREAS, under this proposal, GPA will fully recover the current under- recovery of about $9.3 million based on the Morgan Stanley Asia Morning Call forward pricing for the period of February 1, 2020 to July 31, 2020 adjusted with anticipated 15% increase in price due to continued supply cut agreement by OPEC. Under this approach, the projected LEAC rate for Secondary voltage customers is $0.138542/kWh or a 10.18% decrease from the current LEAC rate; and

WHEREAS, an estimated $1.5 million is included for costs associated with the Demand Side Management rebate program which has an estimated impact of $0.002/kWh for the anticipated LEAC period. DSM under LEAC represents a 1.48% of the anticipated fuel cost for the period; and

WHEREAS, GPA now is requesting the Consolidated Commission on Utilities to authorize the Authority to file such petition with the Guam Public Utilities Commission; and

NOW, THEREFORE BE IT RESOLVED, by the Consolidated Commission on Utilities as follows:

1. The General Manager of the Guam Power Authority is authorized to petition the Guam Public Utilities Commission for the proposed secondary voltage LEAC rate of $0.138542/kWh effective for the period from February 1, 2020 to July 31, 2020. (LEAC factors for alternative voltage levels are as reflected in the attached spreadsheets in the attached Exhibit A.)

2. The General Manager is authorized to petition the Guam Public Utilities Commission to include DSM funding in this LEAC period as shown in the attached Exhibit A.

RESOLVED, that the Chairman certifies and the Board Secretary attests to the adoption of this Resolution.

DULY and REGULARY ADOPTED this 26 th day of November 2019.

Certified by:	Attested by:
_____	_____
JOSEPH T. DUENAS	**MICHAEL T. LIMTIACO**
Chairperson	Secretary
Consolidated Commission on Utilities	Consolidated Commission on Utilities

I**, Michael T. Limtiaco**, Board Secretary of the Consolidated Commission on Utilities (CCU), as evidenced by my signature above, do hereby certify as follows:

The foregoing is a full, true and correct copy of the resolution duly adopted at a regular meeting by the members of the Guam CCU, duly and legally held at a place properly noticed and advertised at which meeting a quorum was present and the members who were present voted as follows:

Ayes: _____

Nays: _____

Abstentions: _____

Absent: _____

EXHIBIT A

GPA
Proposed LEAC Rate ($000)

		A	B	C	D
		Full Recovery At Current MS Forward Pricing with DSM Eff 2/01/2020	Full Recovery At Current MS Forward Pricing without DSM Eff 2/01/2020	Full Recovery At Current MS Forward Pricing + 15 % Movement up with DSM Eff 2/01/2020	Full Recovery At Current MS Forward Pricing + 15 % Movement up without DSM Eff 2/01/2020
2	Average Price per Bbl-RFO	$ 48.15	$ 48.15	$ 53.95	$ 53.95
2	Average Price per Bbl-Diesel	$ 84.20	$ 84.20	$ 95.33	$ 95.33
4	Number 6 (HSFO/LSFO)	$ 46,998	$ 46,998	$ 52,659	$ 52,659
5	Number 2 (Diesel)	32,603	32,603	36,914	36,914
6	Renewable (Solar)	5,575	5,575	5,575	5,575
7	TOTAL COST	$ 85,175	$ 85,175	$ 95,148	$ 95,148
8	Handling Costs	5,910	5,910	5,903	5,903
9	Total Current Fuel Expense	$ 91,085	$ 91,085	$ 101,051	$ 101,051
10	Civilian Allocation	81.62%	81.62%	81.62%	81.62%
11	LEAC Current Fuel Expense	$ 74,343	$ 74,343	$ 82,477	$ 82,477
12	Estimated DSM for this period	$ 1,500	$ -	$ 1,500	$ -
13	Deferred Fuel Expense at the beginning of the period	3,746	3,746	4,901	4,901
14	Total LEAC Expense	$ 79,589	$ 78,089	$ 88,877	$ 87,377
15	Less: Trans. Level Costs	(4,699)	(4,610)	(5,247)	(5,158)
16	Distribution Level Costs	$ 74,891	$ 73,479	$ 83,630	$ 82,219
17	Under recovery at the end of the period	$ -	$ -	$ -	$ -
18	Adjusted Distribution Level Costs	$ 74,891	$ 73,479	$ 83,630	$ 82,219
19	Distribution Level Sales (mWh)	603,646	603,646	603,646	603,646
20	LEAC Factor Distribution	**0.124064**	**0.121726**	**0.138542**	**0.136204**
21	Current LEAC Factor Distribution	0.154242	0.154242	0.154242	0.154242
22	Increase/(Decrease)	(0.03018)	(0.03252)	(0.01570)	(0.01804)
23	Monthly Increase/(Decrease) - 1000 kWh	$ (30.18)	$ (32.52)	$ (15.70)	$ (18.04)
24	% Increase/(Decrease) in LEAC	-19.57%	-21.08%	-10.18%	-11.69%
25	% Increase/(Decrease) in Total Bill	-12.13%	-13.07%	-6.31%	-7.25%
26	Discount (3%) - Primary 13.8 KV	$ 0.120329	$ 0.118061	0.134371	0.132103
27	Discount (4%) - 34.5 KV	$ 0.119982	$ 0.117721	0.133984	0.131723
28	Discount (5%) - 115 KV	$ 0.118505	$ 0.116271	0.132335	0.130101

Notes: This LEAC filing reflects the actual under recovery through September 30, 2019 and the average forward pricing from November 7-13, 2019.

Full Recovery including DSM

Bills Computed at 1000 kWh/month	Current Rates (1)	Current Bill	Rate to fully recover	Increase (Decrease)
Customer Charge $/month	$ 15.00	$ 15.00	$ 15.00	$ -
Non Fuel Energy Charges ($/Kwh)				
Lifeline Usage (500 Kwh)	$ 0.0696	$ 34.78	$ 34.78	$ -
Non Lifeline Usage	$ 0.0869	$ 43.44	$ 43.44	$ -
WaterWell Charge				
Lifeline Usage (500 Kwh)	0.00000	$ -	$ -	$ -
Non Lifeline Usage	0.00279	$ 1.40	$ 1.40	$ -
Insurance Charge	0	$ -	$ -	$ -
WCF Surcharge	0	$ -	$ -	$ -
Roll Back Credit (RBC)	0	$ -	$ -	$ -
Fuel Recovery Charge		$ 154.24	$ 124.06	$ (30.18)
TOTAL Bill		**$ 248.85**	**$ 218.67**	**$ (30.18)**
Increase (Decrease) From Current Bill			$ (30.18)	
Percent Increase (Decrease)			**-12.13%**	
Increase (Decrease) From Current Leac Factor			$ (30.18)	
Percent Increase (Decrease)			**-19.57%**	

Full Recovery NOT including DSM

Bills Computed at 1000 kWh/month	Current Rates (1)	Current Bill	Rate to fully recover	Increase (Decrease)
Customer Charge $/month	$ 15.00	$ 15.00	$ 15.00	$ -
Non Fuel Energy Charges ($/Kwh)				
Lifeline Usage (500 Kwh)	$ 0.0696	$ 34.78	$ 34.78	$ -
Non Lifeline Usage	$ 0.0869	$ 43.44	$ 43.44	$ -
WaterWell Charge				
Lifeline Usage (500 Kwh)	0.00000	$ -	$ -	$ -
Non Lifeline Usage	0.00279	$ 1.40	$ 1.40	$ -
Insurance Charge	0	$ -	$ -	$ -
WCF Surcharge	0	$ -	$ -	$ -
Roll Back Credit (RBC)	0	$ -	$ -	$ -
Fuel Recovery Charge		$ 154.24	$ 121.73	$ (32.52)
TOTAL Bill		**$ 248.85**	**$ 216.33**	**$ (32.52)**
Increase (Decrease) From Current Bill			$ (32.52)	
Percent Increase (Decrease)			**-13.07%**	
Increase (Decrease) From Current Leac Factor			$ (32.52)	
Percent Increase (Decrease)			**-21.08%**	

Full Recovery including DSM with 15% Movement Up

Bills Computed at 1000 kWh/month	Current Rates (1)	Current Bill	Rate to fully recover	Increase (Decrease)
Customer Charge $/month	$ 15.00	$ 15.00	$ 15.00	$ -
Non Fuel Energy Charges ($/Kwh)				
Lifeline Usage (500 Kwh)	$ 0.0696	$ 34.78	$ 34.78	$ -
Non Lifeline Usage	$ 0.0869	$ 43.44	$ 43.44	$ -
WaterWell Charge				
Lifeline Usage (500 Kwh)	0.00000	$ -	$ -	$ -
Non Lifeline Usage	0.00279	$ 1.40	$ 1.40	$ -
Insurance Charge	0	$ -	$ -	$ -
WCF Surcharge	0	$ -	$ -	$ -
Roll Back Credit (RBC)	0	$ -	$ -	$ -
Fuel Recovery Charge		$ 154.24	$ 138.54	$ (15.70)
TOTAL Bill		**$ 248.85**	**$ 233.15**	**$ (15.70)**
Increase (Decrease) From Current Bill			$ (15.70)	
Percent Increase (Decrease)			**-6.31%**	
Increase (Decrease) From Current Leac Factor			$ (15.70)	
Percent Increase (Decrease)			**-10.18%**	

Full Recovery NOT including DSM with Movement Up

Bills Computed at 1000 kWh/month	Current Rates (1)	Current Bill	Rate to fully recover	Increase (Decrease)
Customer Charge $/month	$ 15.00	$ 15.00	$ 15.00	$ -
Non Fuel Energy Charges ($/Kwh)				
Lifeline Usage (500 Kwh)	$ 0.0696	$ 34.78	$ 34.78	$ -
Non Lifeline Usage	$ 0.0869	$ 43.44	$ 43.44	$ -
WaterWell Charge				
Lifeline Usage (500 Kwh)	0.00000	$ -	$ -	$ -
Non Lifeline Usage	0.00279	$ 1.40	$ 1.40	$ -
Insurance Charge	0	$ -	$ -	$ -
WCF Surcharge	0	$ -	$ -	$ -
Roll Back Credit (RBC)	0	$ -	$ -	$ -
Fuel Recovery Charge		$ 154.24	$ 136.20	$ (18.04)
TOTAL Bill		**$ 248.85**	**$ 230.81**	**$ (18.04)**
Increase (Decrease) From Current Bill			$ (18.04)	
Percent Increase (Decrease)			**-7.25%**	
Increase (Decrease) From Current Leac Factor			$ (18.04)	
Percent Increase (Decrease)			**-11.69%**	

GUAM POWER AUTHORITY
ATURIDÅT ILEKTRESEDÅT GUAHAN
P.O.BOX 2977 • AGANA, GUAM U.S.A. 96932-2977

Issues for Decision

Resolution No. 2019-016

Relative to LEAC

What is the project's objective? Is it necessary and urgent?

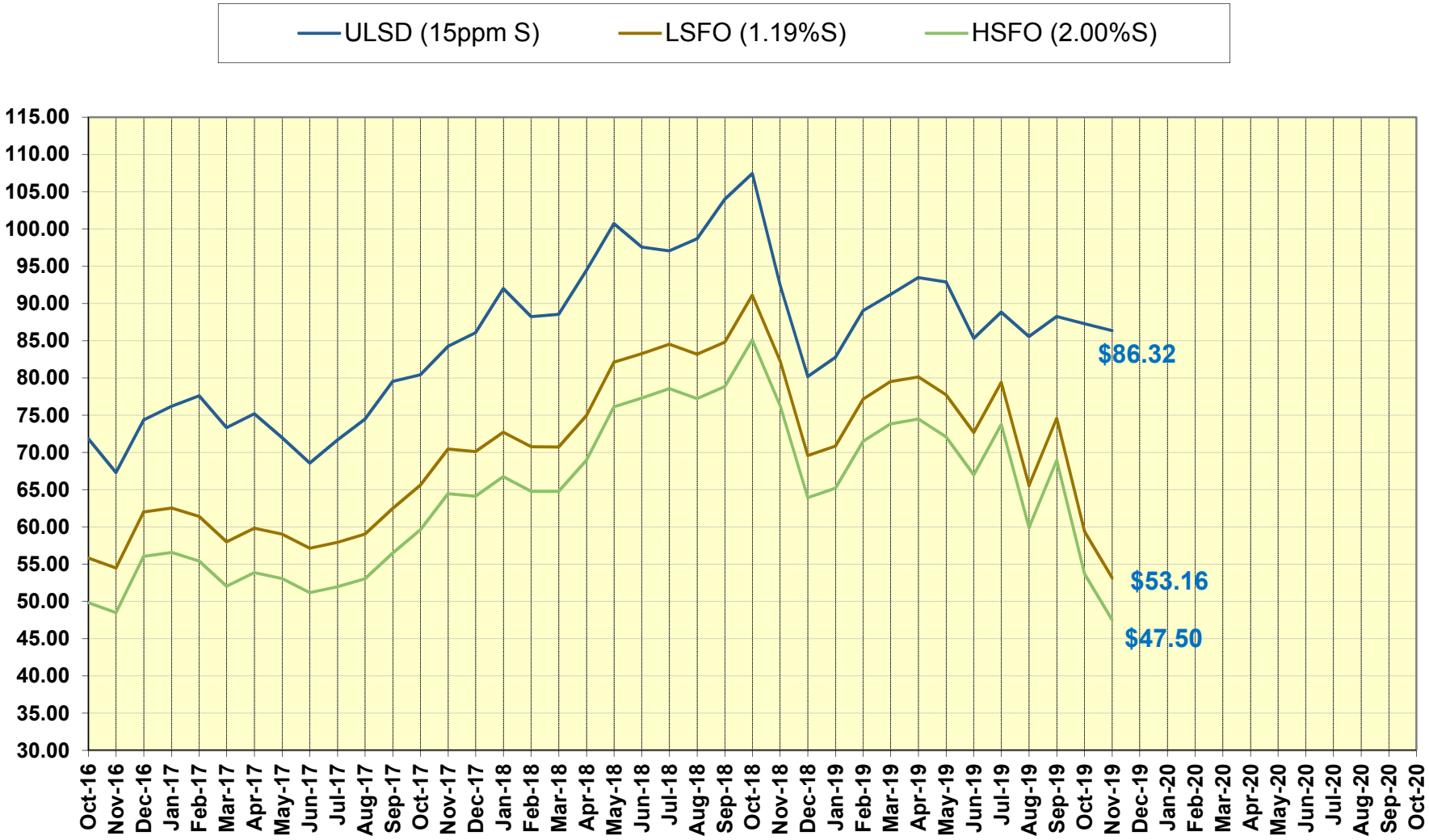
The Guam Public Utilities Commission (GPUC) has established a Tariff under which the Guam Power Authority (GPA) is allowed to recover its fuel costs and fuel related costs under a factor which is reset and trued up every (6) six months through the Levelized Energy Adjustment Clause (LEAC). The deadline for the next filing is December 15, 2019. For the LEAC period covered from August 1, 2019 through January 31, 2020, GPA requested to maintain the LEAC rate of $0.154242/kWh that was approved for meters read on or after May 1, 2018 in anticipation of projected declining prices of black oil in the fuel market and to recover about 30% of the under-recovery at the end of the period. The average market price of residual fuel oil and diesel to be used in the initial filing for the current period was approved at $78.61/bbl for the (6) six-month period ending January 31, 2020, the current projection for the same period is $77.06/bbl. The projected average price of residual fuel oil and diesel for the period February 01, 2020 to July 31, 2020 is $65.71/bbl.

The most recent Morgan Stanley market projections indicate falling fuel prices over the next year. However, according to S&P Global Platts, "OPEC and its allies are leaning towards their 1.2 billion b/d supply cut agreement through the end of 2020" in the hopes of boosting the global economy. Based on this information, GPA anticipates an increase in fuel price by 15% from the current market. Under this proposal, GPA will fully recover the current under-recovery of about $9.3 million based on the Morgan Stanley Asia Morning Call forward pricing for the period of February 1, 2020 to July 31, 2020 adjusted with anticipated 15% increase in price due to continued supply cut agreement by OPEC. Under this approach, the projected LEAC rate for Secondary voltage customers is $0.138542/kWh or a 10.18% decrease from the current LEAC rate. An estimated $1.5 million is included for costs associated with the Demand Side Management rebate program which has an estimated impact of $0.002/kWh for the anticipated LEAC period. DSM under LEAC represents a 1.48% of the anticipated fuel cost for the period.

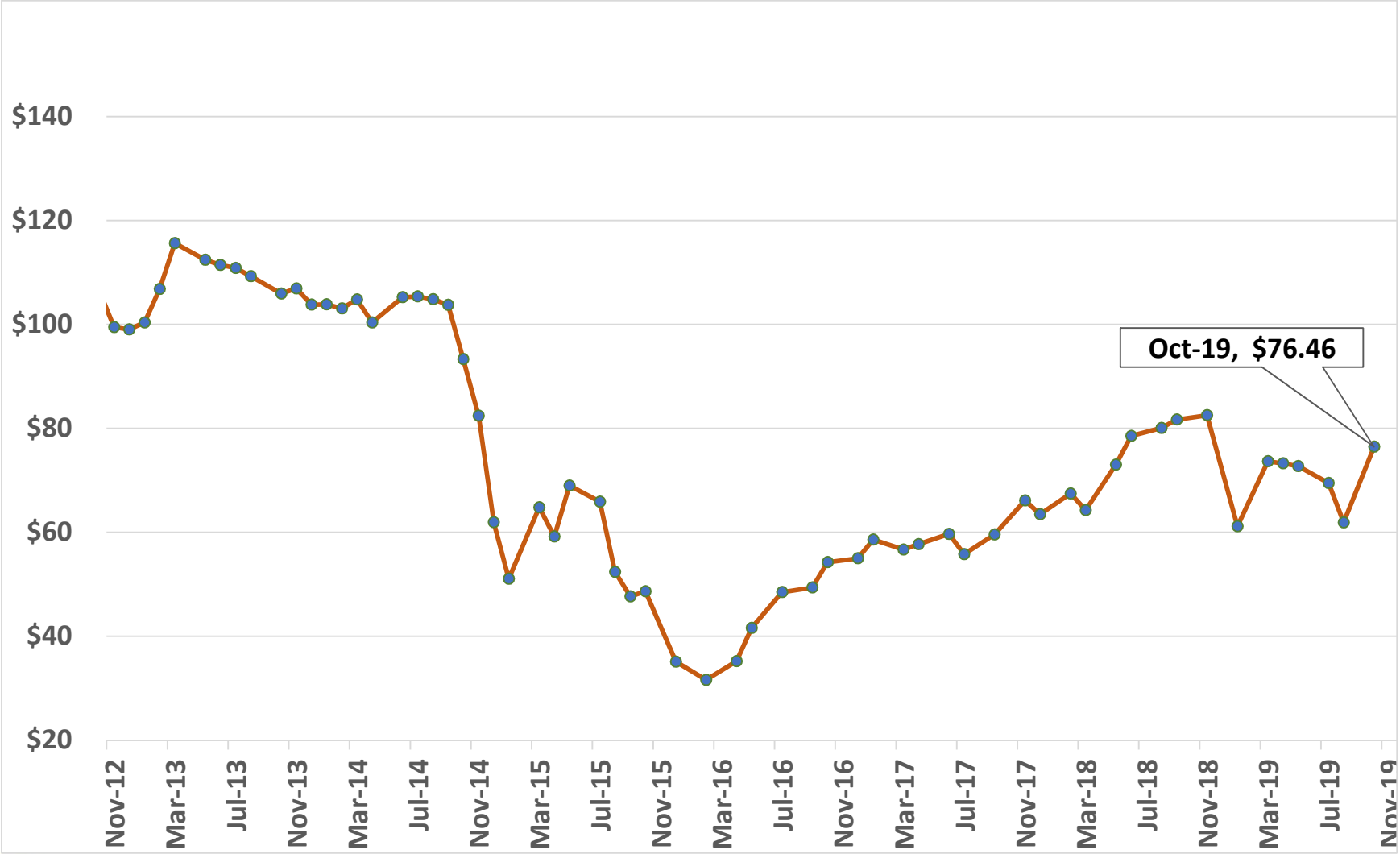
How much will it cost?

The projected LEAC rate for Secondary voltage customers is $0.138542/kWh or a 10.18% decrease from the current LEAC rate

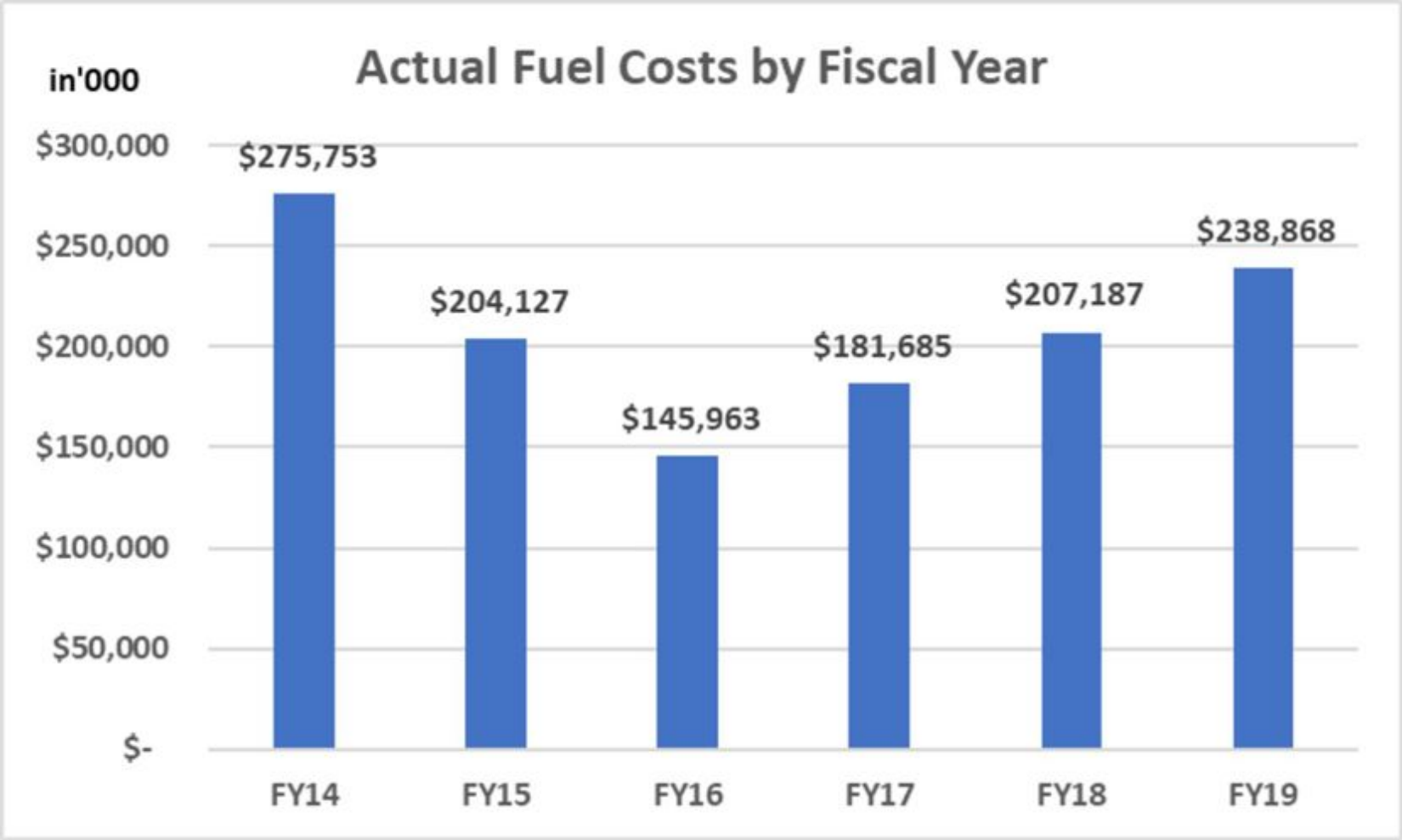
LEAC – Fuels-Landed Cost



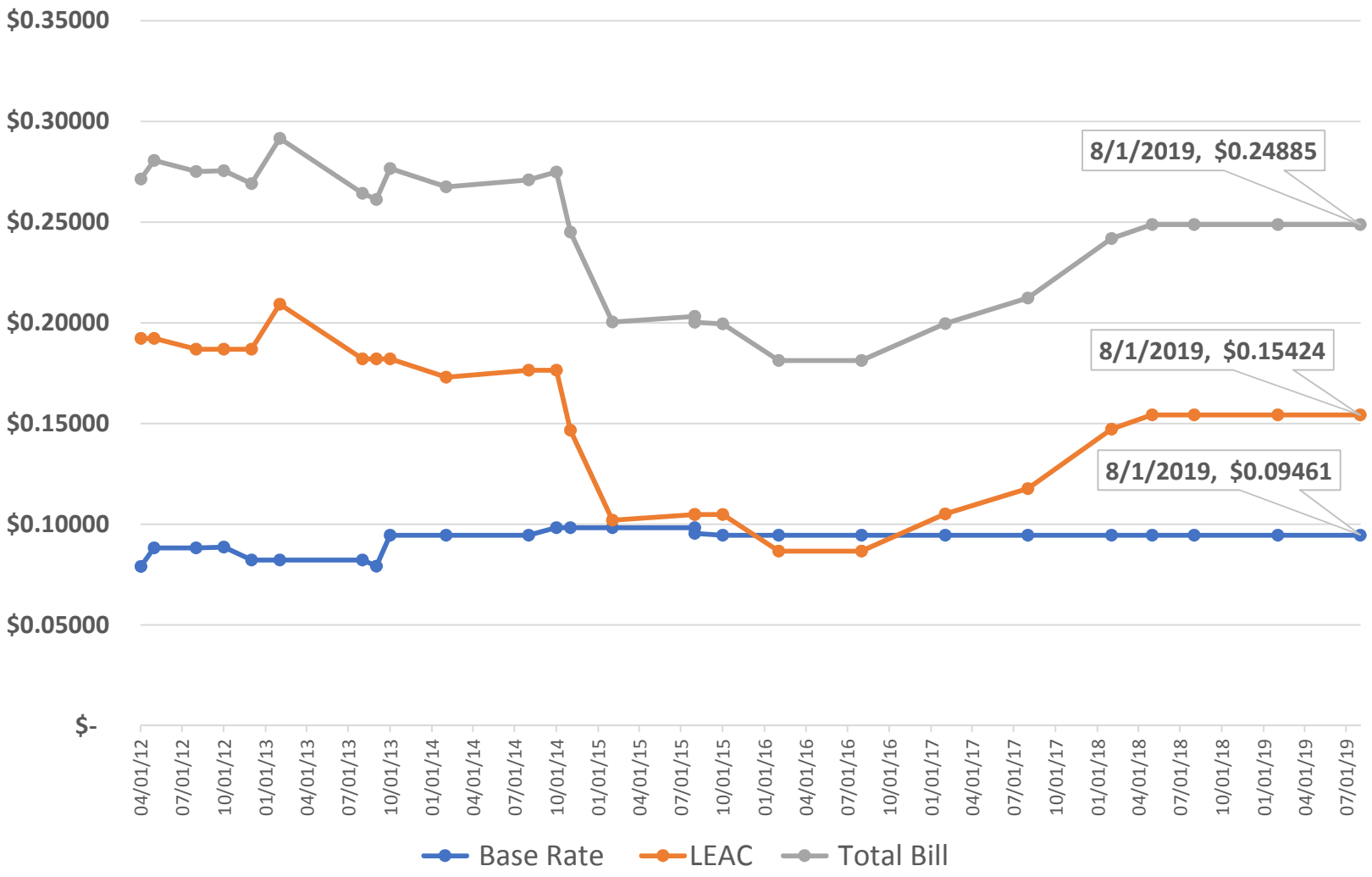
LEAC Update – GPA Fuel Purchases (Per Barrel)



LEAC Update – Fuel Cost by Fiscal Year



Historical Residential Rate



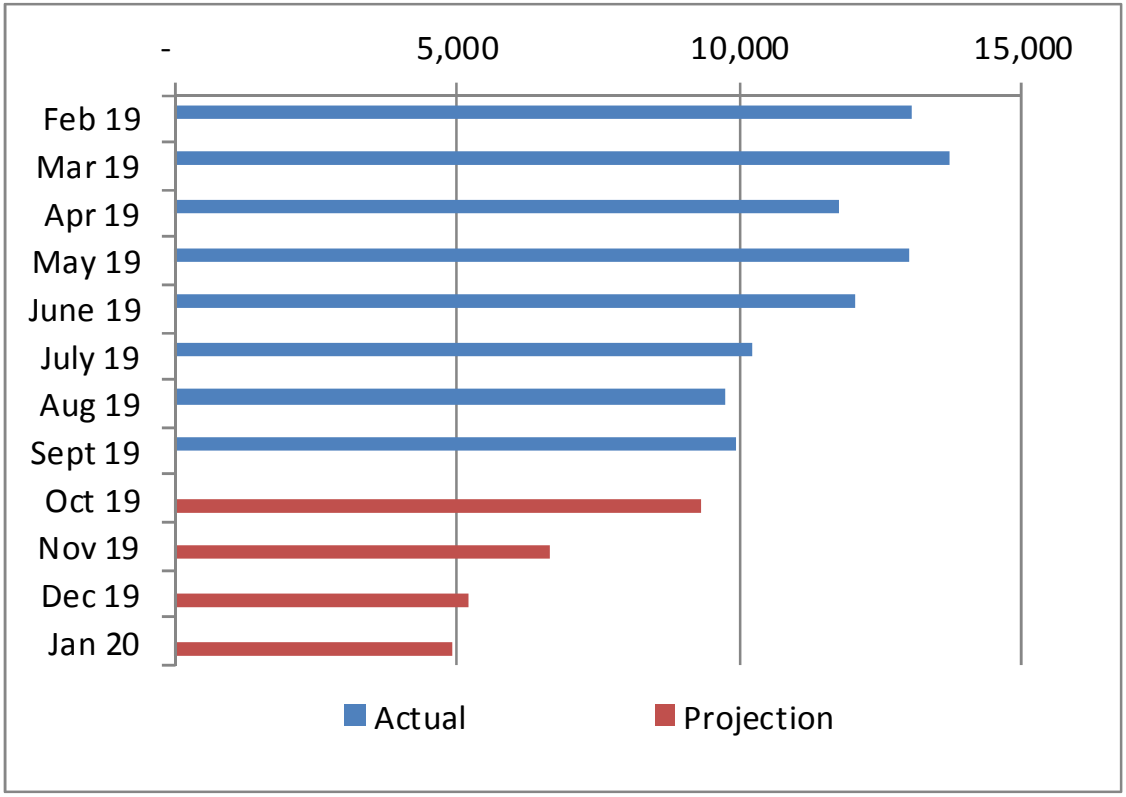
Historical LEAC Over (Under) Recovery

LEAC Period From	LEAC Period To	Approved LEAC Rate	Actual Over (Under) Recovery	
4/1/2012	7/31/2012	$ 0.192310	$ (3,040,418)	
8/1/2012	1/31/2013	$ 0.186834	$ (2,494,052)	
2/1/2013	7/31/2013	$ 0.209271	$ 1,345,259	
8/1/2013	10/31/2013	$ 0.182054	$ 1,300,093	
2/1/2014	7/31/2014	$ 0.172986	$ (1,137,034)	
8/1/2014	10/31/2014	$ 0.176441	$ (4,646,872)	
11/1/2014	1/31/2015	$ 0.146666	$ 661,428	
2/1/2015	7/31/2015	$ 0.102054	$ 1,757,878	
8/1/2015	1/31/2016	$ 0.104871	$ (2,467,151)	
2/1/2016	7/31/2016	$ 0.086613	$ (2,668,603)	
8/1/2016	1/31/2017	$ 0.086613	$ (9,915,360)	
			$ (5,315,360)	(a)
2/1/2017	7/31/2017	$ 0.105051	$ (14,050,504)	
8/1/2017	01/31/1018	$ 0.117718	$ (16,775,982)	
2/1/2018	4/30/2018	$ 0.147266	$ (13,005,689)	
5/1/2018	7/31/2018	$ 0.154242	$ (8,422,674)	
8/1/2018	1/31/2019	$ 0.154242	$ (13,336,698)	
2/1/2019	7/31/2019	$ 0.154242	$ (10,225,349)	
8/1/2019	1/31/2020	$ 0.154242	$ (4,900,761)	Estimate

a) Under-recovery Balance after applying the $4.6 million from the Cabras 3&4 Extra Expense claim

LEAC Under Recovery Balances

LEAC



LEAC

(Unearned)/ Under Recovered	Actual	Projection
Feb 19	13,052	
Mar 19	13,691	
Apr 19	11,754	
May 19	12,976	
June 19	12,020	
July 19	10,225	
Aug 19	9,722	
Sept 19	9,944	
Oct 19		9,338
Nov 19		6,641
Dec 19		5,220
Jan 20		4,901

LEAC - Proposed

Proposed Effective 02/1/2020	Current Market with DSM	Current Market without DSM	Difference	15% Market Movement Up With DSM	15% Market Movement Up Without DSM	Difference
1. Average Price per Bbl-RFO	$ 48.15	$ 48.15	$ -	$ 53.95	$ 53.95	$ -
2. Average Price per Bbl-Diesel	$ 84.20	$ 84.20	$ -	$ 95.33	$ 95.33	$ -
3. **Proposed LEAC**	**$ 0.124064**	**$ 0.121726**	**$0.002338**	**$ 0.138542**	**$ 0.136204**	**$ 0.002338**
4. Monthly (Decrease) - 1000 kWh	$ (30.18)	$ (32.52)	$ 2.34	$ (15.70)	$ (18.04)	$ 2.34
5. % (Decrease) in LEAC	-19.57%	-21.08%	1.52%	-10.18%	-11.69%	1.52%
6. %(Decrease) in Total Bill	-12.13%	-13.07%	0.94%	-6.31%	-7.25%	0.94%
7. Under (Over) recovery at the end of the period	-			-		

Full Recovery including DSM
Proposed LEAC Factor: $ 0.124064

Bills Computed at 1000 kWh/month	Current Rates (1)	Current Bill	Rate to fully recover	Increase (Decrease)
Customer Charge $/month	$ 15.00	$ 15.00	$ 15.00	$ -
Non Fuel Energy Charges ($/Kwh)				
Lifeline Usage (500 Kwh)	$ 0.0696	$ 34.78	$ 34.78	$ -
Non Lifeline Usage	$ 0.0869	$ 43.44	$ 43.44	$ -
WaterWell Charge				
Lifeline Usage (500 Kwh)	0.00000	$ -	$ -	$ -
Non Lifeline Usage	0.00279	$ 1.40	$ 1.40	$ -
Insurance Charge	0	$ -	$ -	$ -
WCF Surcharge	0	$ -	$ -	$ -
Roll Back Credit (RBC)	0	$ -	$ -	$ -
Fuel Recovery Charge		$ 154.24	$ 124.06	$ (30.18)
TOTAL Bill		**$ 248.85**	**$ 218.67**	**$ (30.18)**
Increase (Decrease) From Current Bill			$ (30.18)	
Percent Increase (Decrease)			**-12.13%**	
Increase (Decrease) From Current Leac Factor			$ (30.18)	
Percent Increase (Decrease)			**-19.57%**	

Full Recovery NOT including DSM
Proposed LEAC Factor: $0.121726

Bills Computed at 1000 kWh/month	Current Rates (1)	Current Bill	Rate to fully recover	Increase (Decrease)
Customer Charge $/month	$ 15.00	$ 15.00	$ 15.00	$ -
Non Fuel Energy Charges ($/Kwh)				
Lifeline Usage (500 Kwh)	$ 0.0696	$ 34.78	$ 34.78	$ -
Non Lifeline Usage	$ 0.0869	$ 43.44	$ 43.44	$ -
WaterWell Charge				
Lifeline Usage (500 Kwh)	0.00000	$ -	$ -	$ -
Non Lifeline Usage	0.00279	$ 1.40	$ 1.40	$ -
Insurance Charge	0	$ -	$ -	$ -
WCF Surcharge	0	$ -	$ -	$ -
Roll Back Credit (RBC)	0	$ -	$ -	$ -
Fuel Recovery Charge		$ 154.24	$ 121.73	$ (32.52)
TOTAL Bill		**$ 248.85**	**$ 216.33**	**$ (32.52)**
Increase (Decrease) From Current Bill			$ (32.52)	
Percent Increase (Decrease)			**-13.07%**	
Increase (Decrease) From Current Leac Factor			$ (32.52)	
Percent Increase (Decrease)			**-21.08%**	

Full Recovery including DSM with 15% Movement Up
Proposed LEAC Factor: $0.138542

Bills Computed at 1000 kWh/month	Current Rates (1)	Current Bill	Rate to fully recover	Increase (Decrease)
Customer Charge $/month	$ 15.00	$ 15.00	$ 15.00	$ -
Non Fuel Energy Charges ($/Kwh)				
Lifeline Usage (500 Kwh)	$ 0.0696	$ 34.78	$ 34.78	$ -
Non Lifeline Usage	$ 0.0869	$ 43.44	$ 43.44	$ -
WaterWell Charge				
Lifeline Usage (500 Kwh)	0.00000	$ -	$ -	$ -
Non Lifeline Usage	0.00279	$ 1.40	$ 1.40	$ -
Insurance Charge	0	$ -	$ -	$ -
WCF Surcharge	0	$ -	$ -	$ -
Roll Back Credit (RBC)	0	$ -	$ -	$ -
Fuel Recovery Charge		$ 154.24	$ 138.54	$ (15.70)
TOTAL Bill		**$ 248.85**	**$ 233.15**	**$ (15.70)**
Increase (Decrease) From Current Bill			$ (15.70)	
Percent Increase (Decrease)			**-6.31%**	
Increase (Decrease) From Current Leac Factor			$ (15.70)	
Percent Increase (Decrease)			**-10.18%**	

Full Recovery NOT including DSM with 15% Movement Up
Proposed LEAC Factor: $0.136204

Bills Computed at 1000 kWh/month	Current Rates (1)	Current Bill	Rate to fully recover	Increase (Decrease)
Customer Charge $/month	$ 15.00	$ 15.00	$ 15.00	$ -
Non Fuel Energy Charges ($/Kwh)				
Lifeline Usage (500 Kwh)	$ 0.0696	$ 34.78	$ 34.78	$ -
Non Lifeline Usage	$ 0.0869	$ 43.44	$ 43.44	$ -
WaterWell Charge				
Lifeline Usage (500 Kwh)	0.00000	$ -	$ -	$ -
Non Lifeline Usage	0.00279	$ 1.40	$ 1.40	$ -
Insurance Charge	0	$ -	$ -	$ -
WCF Surcharge	0	$ -	$ -	$ -
Roll Back Credit (RBC)	0	$ -	$ -	$ -
Fuel Recovery Charge		$ 154.24	$ 136.20	$ (18.04)
TOTAL Bill		**$ 248.85**	**$ 230.81**	**$ (18.04)**
Increase (Decrease) From Current Bill			$ (18.04)	
Percent Increase (Decrease)			**-7.25%**	
Increase (Decrease) From Current Leac Factor			$ (18.04)	
Percent Increase (Decrease)			**-11.69%**	

GUAM POWER AUTHORITY
ATURIDÅT ILEKTRESEDÅT GUAHAN
P.O.BOX 2977 • AGANA, GUAM U.S.A. 96932-2977

Issues for Decision

Resolution No. 2019-17

Relative to Authorizing the Solicitation of a Performance Management Contract for GPA's Cabras Units #1 and #2 Steam Turbine Power Plant

What is the project's objective and is it necessary and urgent?

GPA's current PMC contract expires on September 30, 2020 and no more options for extension as the maximum extension of 5 years past the base period will be reached by the same date. Although CCU approval has been approved for another year, PUC only approved the extension up to September 30, 2020.

GPA's new power plant and the new renewable energy contracts are expected to be placed online end of 2022. Therefore, to ensure adequate installed capacity to meet the MW demand on island, GPA would need to continue operating and maintaining the Cabras Power Plants at least until the new power plant is online.

The term of the new contract will start in October 2020, for a base period of three years with the last year of the base contract in 2023 designated as the commencement of de-activation and/or decommissioning planning and activities. There is an option to extend for two (2) additional 1-year extension if deemed necessary.

Where is at?
Cabras Units #1 and #2 Steam Turbine Power plant

How much will it Cost?
Historical Costs are as follows:
Fixed Management Fees - $1.6M - $1.76M per year, total of $6,730,682.61 for the past 4 years

What is its funding Source?
Revenue Funds (O&M)

When will it be completed?
The anticipated schedule is as follows:

Contract Commencement:	October 1, 2020
Contract Base Period End:	September 30, 2023
Optional Extension Year 1:	Oct 2023 – Sept 2024
Optional Extension Year 2:	Oct 2024 – Sept 2025

CONSOLIDATED COMMISSION ON UTILITIES
Guam Power Authority | Guam Waterworks Authority
P.O. Box 2977 Hagatna, Guam 96932 | (671) 648-3002 | guamccu.org

GPA RESOLUTION NO. 2019-17

RELATIVE TO AUTHORIZING THE SOLICITATION OF A PERFORMANCE MANAGEMENT CONTRACT FOR GPA'S CABRAS UNITS #1 AND #2 STEAM TURBINE POWER PLANT

WHEREAS, the Guam Power Authority (GPA) had a five-year Performance Management Contract (PMC) for the Management, Operation and Maintenance of the Cabras 1&2 Steam Turbine Power Plant awarded to TEMES, that commenced in October 2010; and

WHEREAS, the PMC awarded to TEMES expired on Sept. 30, 2015 through Resolution 2015-35 and was approved for extension up to December 31, 2015; and

WHEREAS, the PMC was subsequently approved for another extension through December 30, 2016 through Resolution 2015-62A; and

WHEREAS, through CCU Resolution 2016-62, the Authority was approved to extend the Cabras 1&2 PMC Contract for another three years and nine months, up to September 30, 2020; including an optional extension year up to 2021; and

WHEREAS, through PUC Docket 17-09, the Authority was approved to extend the Cabras 1&2 PMC Contract for only another three years and nine months, up to September 30, 2020; and

WHEREAS, GPA's Phase II Renewable Resource Acquisition contracts are expected to start commercial operation by 3rd quarter of 2022; and

WHEREAS, GPA's new power plant was awarded in November 2019, and is expected to be placed in commercial operation in the 4th Quarter of 2022; and

WHEREAS, in order to ensure adequate installed capacity to meet the Megawatt demands of the island, the Cabras 1&2 Steam Turbine Power Plant must continue to be operated and maintained; and

WHEREAS, GPA plans to solicit for a new Performance Management Contract for the continued Management, Operation and Maintenance of the Cabras 1&2 Steam Turbine Power Plant, and also to plan for and conduct activities related to the power plant's de-activation and/or decommissioning.

WHEREAS, the term of the new contract will start in October 2020, for a base period of three years with the last year of the base contract in 2023 designated as the commencement of de-activation and/or decommissioning planning and activities. There is an option to extend for two (2) additional 1-year extensions if deemed necessary.

NOW, THEREFORE, BE IT RESOLVED, by the Consolidated Commission on Utilities, subject to the review and approval of the Public Utilities Commission, as follows:

1. The General Manager is authorized to request to solicit for a Performance Management Contract for GPA's Cabras Units #1 and #2 Steam Turbine Power Plant.

RESOLVED, that the Chairman certifies and the Board Secretary attests the adoption of this Resolution.

DULY AND REGULARLY ADOPTED AND APPROVED THIS 26TH DAY OF NOVEMBER, 2019.

Certified by:	Attested by:
_____	_____
JOSEPH T. DUENAS	MICHAEL T. LIMTIACO
Chairperson	Secretary
Consolidated Commission on Utilities	Consolidated Commission on Utilities

I, Michael T. Limtiaco, Secretary for the Consolidated Commission on Utilities (CCU), as evidenced by my signature above do certify as follows:

The foregoing is a full, true, and accurate copy of the resolution duly adopted at a regular meeting of the members of Guam Consolidated Commission on Utilities, duly and legally held at a place properly noticed and advertised at which meeting a quorum was present and the members who were present voted as follows:

Ayes: _____
Nays: _____
Absent: _____
Abstain: _____

PERFORMANCE MANAGEMENT CONTRACT FOR THE GUAM POWER AUTHORITY CABRAS STEAM (UNITS #1 AND #2) POWER PLANT

Overview

NOVEMBER 2019

CCU AND PUC Approval

- CCU approved for extension up to 2020, with an option to extend up to 2021
- PUC approved extension only up to September 2020
  - Maximum contract period allowed
  - Base period Oct 2010 – Sept 2015, Extension for maximum of 5 years, up to Sept 2020
  - 1st Extension Sept 2015 – Dec 2015
  - 2nd Extension Jan 2016 – Dec 2016
  - Final Extension Jan 2017 – Sept 2020 (PUC Docket 17-09)

CONTRACT TERMS

- 3-Year Base Period
  - Year 1: FY 2021 (Oct2020-Sept2021) - Normal Operation
  - Year 2: FY 2022 (Oct2021-Sept2022) – Normal Operation
  - Year 3: FY 2023 (Oct2022-Sept2023) – Start Deactivation or run units at Normal Operation if necessary
- Two (2) optional 1-year extensions
  - Emergency options in case of sudden extended operations of power plant, delayed plant deactivation, or extended deactivation tasks
  - Can either continue normal operations if needed, or start de-activation, whichever is applicable

CONTRACT REQUIREMENTS

- Management, Operation & Maintenance of Cabras 1&2 Steam Power Plant
- Staff management **and augmentation**
- Budget management
- Procurement, Inventory Management & Control
- Plant Engineering
- Environmental Compliance, including requirements related to:
  - Consent Decree
  - State Implementation Plan
- Completion of **Critical Repairs and Major Maintenance Projects** *with emphasis on those required to assure unit is operating until GPA's new power plant is online*
- **Plant de-activation, de-commissioning and clean-up**
- **Maintain minimum EAF and GHR that will be required by GPA**

Items in **blue are additional or modifications from the current contract requirements, adjusted to meet GPA's changing operational requirements*

Technical / Functional Requirements

- Operations & Maintenance of power plants
  - Routine & Major Maintenance, Outage Planning, Root-cause Analysis
  - Structural and Civil Works, Facility Maintenance & Improvement
  - Management of Waste Oil Consumption and Waste Oil Facility
  - Maintaining Proper Water Quality
  - Maintenance of Transformer
- Communications and Reporting
  - Daily, weekly, monthly Performance Measurements (EAF, EFOR, EPDH, EUDH, Forced outage hours, outage details, generation, fuel consumption, heat rates, efficiencies, capacity factors)
  - Weekly and monthly project status
  - Monthly Expenditures
  - Personnel performance reviews
  - Inventory reports

Technical / Functional Requirements

- Plant Engineering and Technical Services
  - Project Management, Field Installation, Acceptance Testing
  - Identification of critical repairs needed to ensure availability, reliability
- Procurement
  - O&M Procurement Outsourcing, including for O&M supplies
  - Recommend/pre-qualify vendors
  - 3rd Party Outsource Contracts
- Inventory Management
  - Maintain required spare parts inventory, including quality of all stock items
  - Account for location of specialized tools and assets
  - Recommend tasks for inventory optimization, inventory proceedings

CONTRACT FEES

- Annual Management Fee
- O&M Budget

CONTRACT FEES

**** OPTIONAL AWARD ****

- De-activation / De-commissioning Plan

Bidder will be required to provide a de-activation/ de-commissioning plan.

GPA and contractor will finalize plan during the contract period; GPA may or may not choose to have PMC complete various de-activation tasks, however, PMC may be required to coordinate activities on behalf of GPA and/or complete de-activation tasks closely related to O&M (similar to how KEWP was task to de-activate Cabras 3&4).

CONTRACT FEES

**** OPTIONAL AWARD ****

- CIP and Major O&M Projects

GPA and the PMC will jointly discuss capital improvement projects, and major O&M activities. For any activity approved by GPA, PMC shall provide cost estimates and price quotes from at least three (3) qualified contractors or vendors (one of which can be the PMC) for GPA approval.

BID SCHEDULE

Table 1: Bid Schedule

Milestone	From	To
Bid Announcement	1/9/2020	1/23/2020
Bid Documents Available	1/9/2020	
Pre-Bid Conference	1/23/2020 9:00 AM	
Plant Tour	1/23/2020 1:00 PM	
Vendors Submit Questions	1/23/2020	2/13/2020
GPA Review and Answer Questions	2/13/2020	2/28/2020
Vendor Prepare Proposals	1/9/2020	3/17/2020
Cut Off Date for Receipt of Bid Documents	3/17/2020 at 2:00 PM	
Step One:		
Opening of Technical Proposal	3/17/2020 at 2:00 PM	
Evaluation by Committee	3/19/2020	4/3/2020
Determine & Notify Qualified Vendor	4/6/2020	4/21/2020
Step Two:		
Opening of Price Proposal	4/22/2020 at 9:00 AM	
Price Proposal Evaluation	4/23/2020	5/4/2020
Notification of Award	5/5/2020	5/20/2020
Contract Negotiations and Finalization	5/20/2020	7/10/2020
CCU & PUC Approval	5/20/2020	7/10/2020
Contract Approval & Award	7/10/2020	7/31/2020
Contract Signing	7/31/2020	
Contract Mobilization	8/1/2020	9/30/2020
Contract and Operational Commencement	10/1/2020	

End

GUAM POWER AUTHORITY
ATURIDÅT ILEKTRESEDÅT GUAHAN
P.O.BOX 2977 • AGANA, GUAM U.S.A. 96932-2977

Issues for Decision

Resolution No. 2019-18

Relative to Demand Side Management Funding

What is the project's objective and is it necessary and urgent?
This resolution seeks approval to fund the DSM Program under LEAC for the following reasons:

The DSM Program is experiencing exponential growth. Although perhaps not truly unexpected, this DSM Program exponential growth is volatile: subject or characterized by rapid change. The LEAC decoupling from base rates addresses expenses like fuel that have a volatile nature.

DSM rebate expenses may likely double every year and would soon place great pressure on GPA base rate funding affecting GPA Debt Service Coverage requirements. At that point, GPA would have to severely curtail the growth of the DSM rebate program. This curtailment would not comport with CCU and PUC policy and their mutual desire to reduce customer energy consumption, demand, and cost.

Similar to renewable energy, the DSM is predicated on the avoidance of fuel costs, and it also defers the need for capacity additions.

The PUC has allowed GPA to recover its Utility Scale Renewable Energy Program costs through LEAC and all savings achieved credited to LEAC.

To date, annual energy fuel savings from the program is approximately 4,012,000 kWh, and demand reduction achieved from the program is approximately 3,108 kW.

Managing consumer growth in its energy consumption and demand is critical until 2022 upon the commissioning of the new power plant.

How much will it cost?
PUC approval of GPA's recommendation results in DSM expenses being revenue neutral.

When will it be completed?
Upon approval of the Guam Public Utilities Commission

What is its current funding source?
Base Rate Revenues and Insurance Premium Savings.

CONSOLIDATED COMMISSION ON UTILITIES
Guam Power Authority | Guam Waterworks Authority
P.O. Box 2977 Hagatna, Guam 96932 | (671)649-3002 | guamccu.org

RESOLUTION NO. 2019-18

AUTHORIZING MANAGEMENT OF THE GUAM POWER AUTHORITY (GPA) TO FILE RECOMMENDATIONS FOR PLACING THE DEMAND-SIDE MANAGEMENT (DSM) PROGRAM EXPENSES UNDER LEAC

WHEREAS, the Guam Public Utilities Commission (PUC) established GPA Docket 13-14 in August 2013 to develop the GPA Demand-Side Management (DSM) program; and

WHEREAS, on February 26, 2015, the PUC approved GPA's plan to implement certain DSM programs, including Central AC, Ductless AC, Washer, and Dryer; and

WHEREAS, in its Order dated October 27, 2015, the PUC authorized GPA to utilize the sum of $1,806,014 from the Working Capital Fund (WCF) to pay for GPA's Demand Side Management (DSM) Program rebates and other related expenses; and

WHEREAS, furthermore the Guam Public Utilities Commission (PUC) ordered (May 25, 2017): "GPA and the ALJ are instructed to continue to discuss proposals for the long-term funding of DSM Programs and to develop a plan for such funding."; and

WHEREAS, GPA and the ALJ had determined that it was perhaps too ambitious to adopt all 18 DSM proposals at the time, particularly as a long-term funding source has not yet been identified; and

WHEREAS, however, both GPA and the ALJ have agreed upon ten new DSM initiatives to be implemented; and

WHEREAS, under GPA Docket 18-11, the PUC approved GPA's request balance of the Bond Refinancing Savings through 2021 to fund the GPA Demand Side Management (DSM) rebate program in the amount of $1,139,189; and

WHEREAS, Exhibit A Figures A-1 and A-2 illustrate the exponential growth year over year in the amount DSM Program rebate payments since FY 2016; and

WHEREAS, DSM Program forecasted growth places pressure on GPA base rate funding and could impact GPA Debt Service Coverage requirements; and

WHEREAS, the current available funding will eventually run out for the current budget approved amount for FY2020, with a requested budget of $3 million for FY2020 GPA plans to allocate $1.7 million for projected residential rebate applications. The remaining $1.3 million will allow GPA to expand the DSM program new DSM initiatives; and

WHEREAS, similar to renewable energy, the DSM Program is predicated on the avoidance of fuel costs, and it also defers the need for capacity additions; and

WHEREAS, the PUC has allowed GPA to recover its Utility Scale Renewable Energy Program costs through LEAC and all savings achieved credited to LEAC; and

Resolution No.: 2019-18

WHEREAS, to date, annual energy fuel savings from the program is approximately 4,012,000 kWh; and

WHEREAS, to date, demand reduction achieved from the program is approximately 3,108 kW; and

WHEREAS, GPA has paid nearly $3.6 million to its customers for over 11,824 rebate applications, yielding an average customer rebate amount per application of $300; and

WHEREAS, in addition to the rebate savings, customers directly save $65 - $140 a year for a 4 SEER improvement on appliance equipment for 9000 BTU and 12000 BTU sized split air conditioners; and

NOW, THEREFORE, BE IT RESOLVED, by the CONSOLIDATED COMMISSION ON UTILITIES subject to the review and approval of the Public Utilities Commission as follows:

1. The General Manager is authorized to petition for the DSM Program Funding to be placed under LEAC.

2. The General Manager is authorized to conduct an information campaign supporting these recommendations.

RESOLVED, that the Chairman of the Commission certifies and the Secretary of the Commission attests the adoption of this Resolution.

DULY and REGULARY ADOPTED this 26 th day of November 2019.

Certified by:	**Attested by:**
JOSEPH T. DUENAS **CHAIRMAN**	**MICHAEL T. LIMTIACO** **SECRETARY**

Resolution No.: 2019-18

SECRETARY'S CERTIFICATE

I, Michael T. Limtiaco, Secretary for the Consolidated Commission on Utilities (CCU), as evidenced by my signature above do certify as follows: The foregoing is a full, true, and accurate copy of the resolution duly adopted at a regular meeting of the members of Guam Consolidated Commission on Utilities, duly and legally held at a place properly noticed and advertised at which meeting a quorum was present and the members who were present voted as follows:

Ayes: _____

Nays: _____

Absent: _____

Abstain: _____

Resolution No.: 2019-18

EXHIBIT A

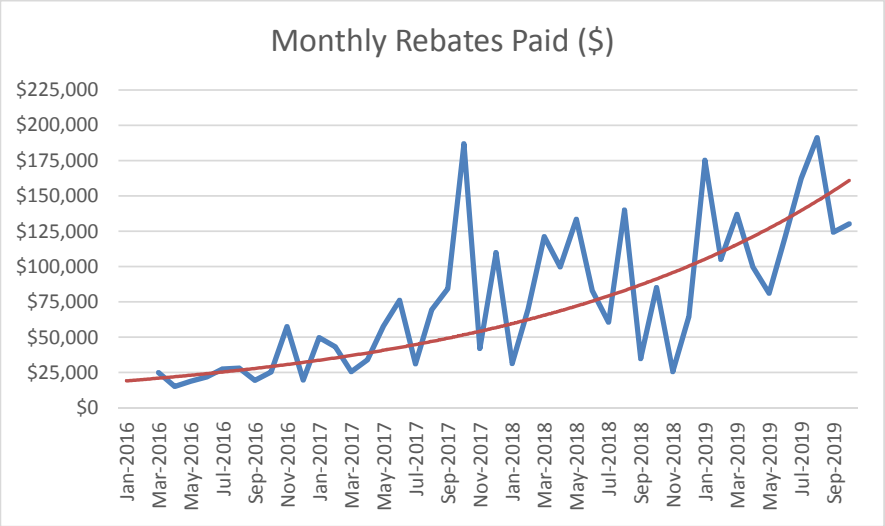
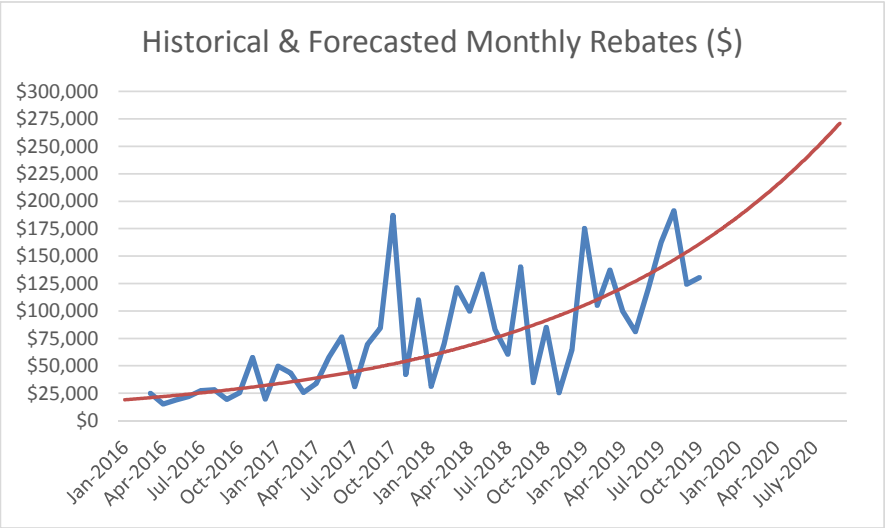


Figure A-1. Historical and Forecast Monthly DSM Rebate Expenses



- DSM Expenses is growing exponentially
- Growth Rate will make it very difficult to fund out of base rates
- GPA may have to cap program

Resolution No.: 2019-18

Figure A-2. Historical and Forecasted Annual DSM Rebate Expenses

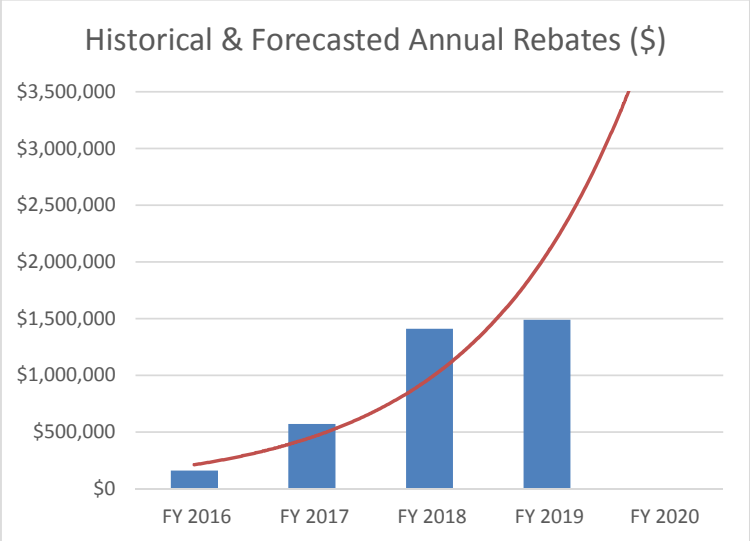


Table A-1. Annual Rebate Summary

Description	Year Paid	Total Rebate Amount	Count of Applications	Avg. Rebate per Application
Rebates-Split A/Cs	2016	$ 253,500	693	$ 366
	2017	$ 798,426	2519	$ 317
	2018	$ 1,073,575	3385	$ 317
	2019	$ 1,275,975	4484	$ 285
Rebates-Split A/Cs Total		**$ 3,401,477**	**11081**	**$ 307**
Rebates- Washer/Dryers	2016	$ 4,700	36	$ 131
	2017	$ 7,325	29	$ 253
	2018	$ 57,400	212	$ 271
	2019	$ 103,800	434	$ 239
Rebates- Washer/Dryers Total		**$ 173,225**	**711**	**$ 244**
Rebates-Central A/Cs	2016	$ 7,200	8	$ 900
	2017	$ 5,800	8	$ 725
	2018	$ 3,600	6	$ 600
	2019	$ 6,500	10	$ 650
Rebates-Central A/Cs Total		**$ 23,100**	**32**	**$ 722**
Grand Total		**$ 3,597,802**	**11824**	**$ 304.28**

1

GPA Resolution No. 2019-18

Demand Side Management Funding

GPA Resolution No. 2019-18

Relative to DSM Funding

What is the project's objective? Is it necessary and urgent?

This resolution seeks approval to fund the DSM Program under LEAC for the following reasons:

- The DSM Program is experiencing exponential growth. Although perhaps not truly unexpected, this DSM Program exponential growth is volatile: subject or characterized by rapid change. The LEAC decoupling from base rates addresses expenses like fuel that have a volatile nature.
- DSM rebate expenses may likely double every year and would soon place great pressure on GPA base rate funding affecting GPA Debt Service Coverage requirements. At that point, GPA would have to severely curtail the growth of the DSM rebate program. This curtailment would not comport with CCU and PUC policy and their mutual desire to reduce customer energy consumption, demand, and cost.
- Similar to renewable energy, the DSM program is predicated on the avoidance of fuel costs, and it also defers the need for capacity additions.
- The PUC has allowed GPA to recover its Utility Scale Renewable Energy Program costs through LEAC and all savings achieved credited to LEAC.
- Managing consumer growth in its energy consumption and demand is critical until 2022 upon the commissioning of the new power plant.
- To date, annual energy fuel savings from the program is approximately 4,012,000 kWh, and demand reduction achieved from the program is approximately 3,108 kW

Where is the location?
Territory of Guam

When will it be completed?
Upon approval of the Guam Public Utilities Commission

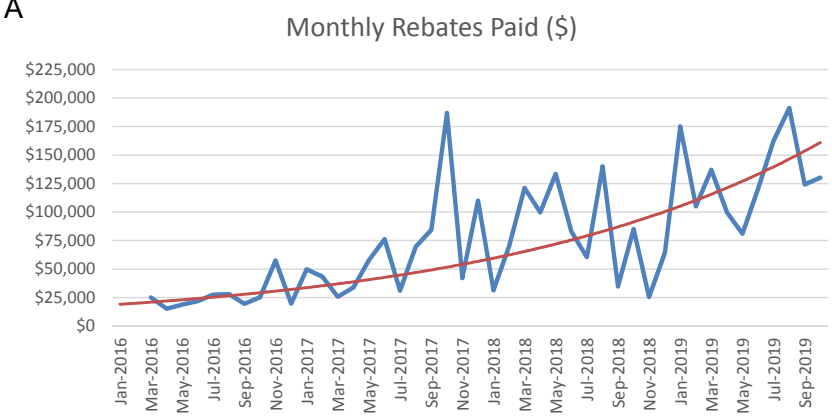
How much will it cost?
PUC approval of GPA's recommendation results in DSM expenses being revenue neutral.

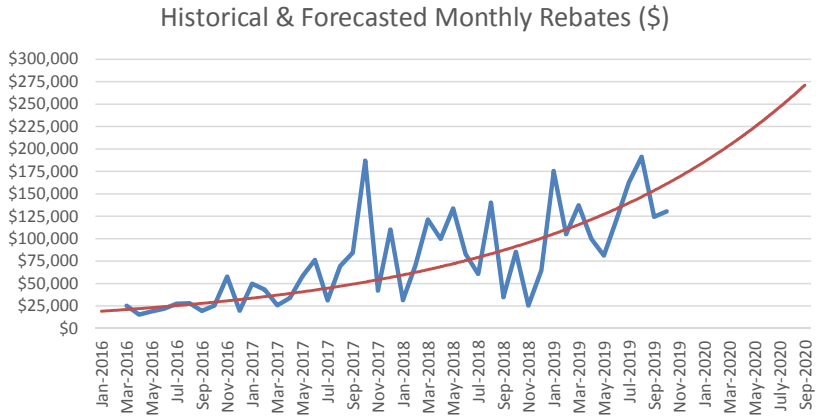
What is its current funding source?
Base Rate Revenues and Insurance Premium Savings

GPA Resolution No. 2019-18

3

EXHIBIT A





- DSM Expenses is growing exponentially
- Growth Rate will make it very difficult to fund out of base rates
- GPA may have to cap program

Figure A-1. Historical and Forecast Monthly DSM Rebate Expenses

GPA Resolution No. 2019-18

EXHIBIT A

Figure A-2. Historical and Forecasted Annual DSM Rebate Expenses

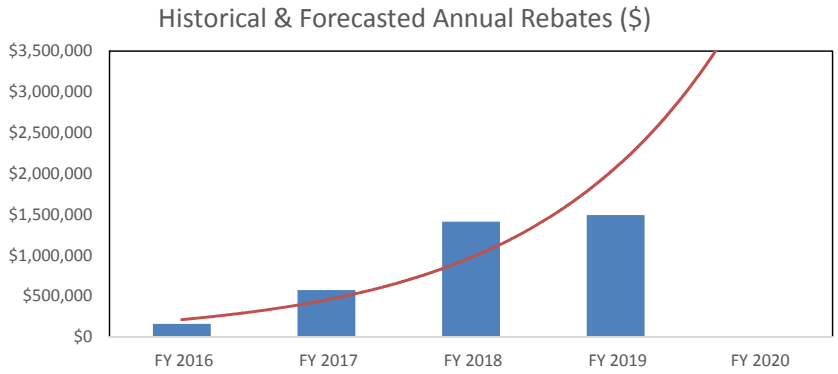
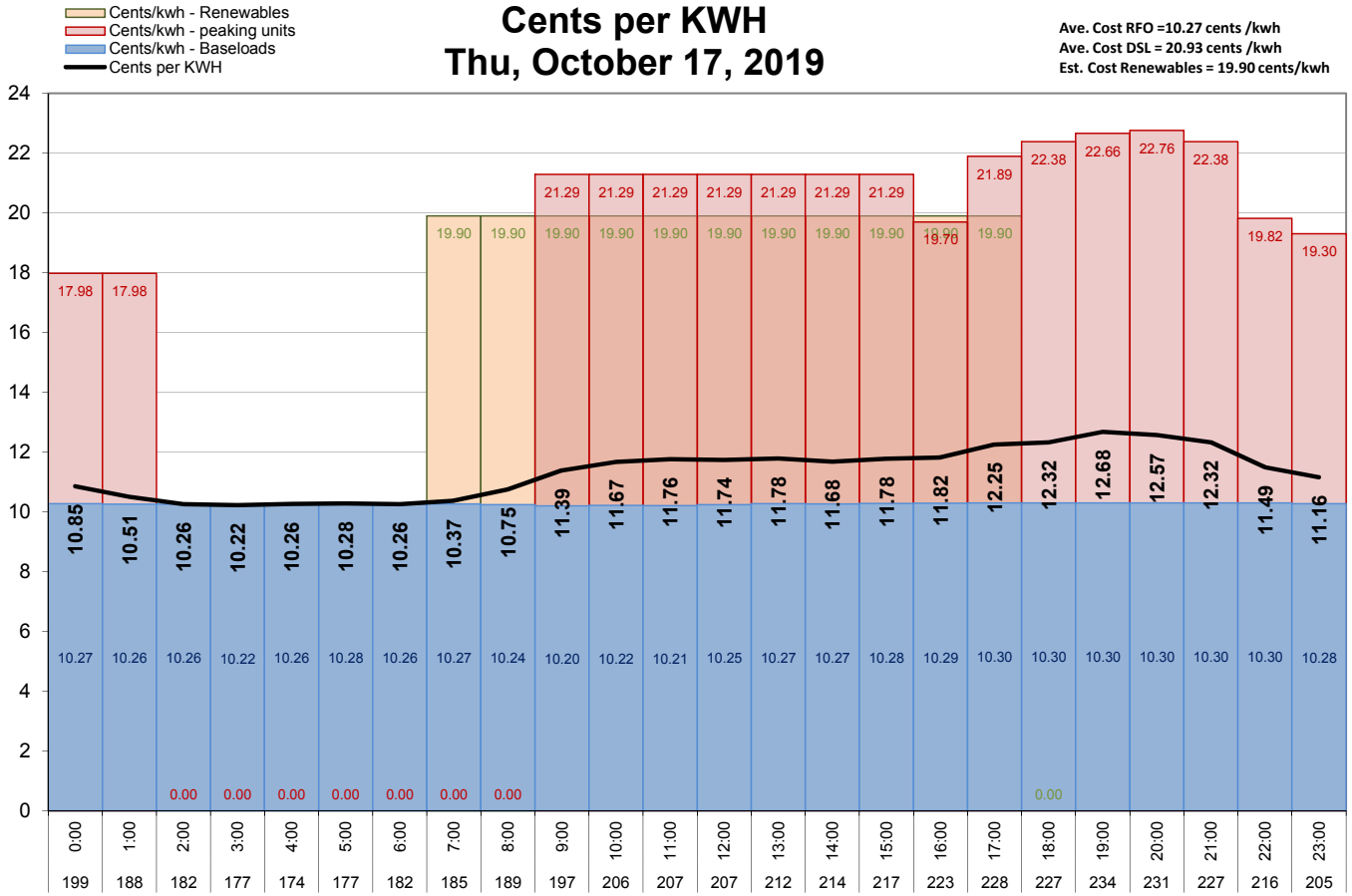


Table A-1. Annual Rebate Summary

Description	Year Paid	Total Rebate Amount	Count of Applications	Avg. Rebate per Application
Rebates-Split A/Cs	2016	$ 253,500	693	$ 366
	2017	$ 798,426	2519	$ 317
	2018	$ 1,073,575	3385	$ 317
	2019	$ 1,275,975	4484	$ 285
Rebates-Split A/Cs Total		**$ 3,401,477**	**11081**	**$ 307**
Rebates- Washer/Dryers	2016	$ 4,700	36	$ 131
	2017	$ 7,325	29	$ 253
	2018	$ 57,400	212	$ 271
	2019	$ 103,800	434	$ 239
Rebates- Washer/Dryers Total		**$ 173,225**	**711**	**$ 244**
Rebates-Central A/Cs	2016	$ 7,200	8	$ 900
	2017	$ 5,800	8	$ 725
	2018	$ 3,600	6	$ 600
	2019	$ 6,500	10	$ 650
Rebates-Central A/Cs Total		**$ 23,100**	**32**	**$ 722**
Grand Total		**$ 3,597,802**	**11824**	**$ 304.28**

GPA Resolution No. 2019-18

5



Price in:	$ / gal
HSFO	$1.419
LSFO	$1.557
Tenjo DSL	$2.585
Temes DSL	$2.138
FT DSL	$2.118
CT DSL	$2.118

GPA Resolution No. 2019-18

Fuel Cost Savings Summary:

Average KW Reduction per Applicant	0.26
Total Applicants	11,824
Total KW Reduction	3,108
Residential Load Factor	57.0%
Annual KWH Avoided	15,519,193
Average Diesel Production $/kWh	$0.196
Annual Savings	$3,046,418
Total Rebate Paid	$2,283,652
Payback in Years	0.7
Equipment Life in Years	**7**
Total Fuel Savings over Life	**$21,324,923**

Requested DSM Funding Annually	**$3,000,000**
Estimated Fuel Cost	**$202,101,459**
Estimated Civilian kWh Annually	**1,285,463**
Estimated $/kWh	**0.002**
DSM Percent of LEAC Annually	**1.48%**

GUAM POWER AUTHORITY
ATURIDÅT ILEKTRESEDÅT GUAHAN
P.O.BOX 2977 • AGANA, GUAM U.S.A. 96932-2977

Issues for Decision

Resolution No. 2019-19

Relative to Authorizing Management to Require All Future Net Metering Solar PV and Wind Turbine Systems to also have Frequency Control Capability or Energy Storage System (ESS) in Order to be Tied in to GPA's Grid

What is the project's objective and is it necessary and urgent?
Guam Public Law 27-132 (December 2004) created Net Metering for Guam and assigned the Guam Public Utilities Commission (PUC) the responsibility for setting the Net Metering Rate for excess renewable energy fed into GPA's Distribution System. NEM customers receive services from the grid subsidized by non-NEM customers including but not limited to:

1) Use of the grid to sell power (get credit at full retail rate for excess production);
2) Use of the grid to energize their homes at night, but credited back from their production (uses GPA Grid as storage);
3) Frequency regulation absorbed by grid for intermittencies;
4) Reactive power supply;
5) Voltage regulation;
6) Stand-by power on overcast days when the sun does not shine.

Solar PV production is intermittent and requires an accompanying energy storage system such as a battery to provide a fairly smooth energy into the home or grid. GPA is purchasing energy from a 25 MW solar farm in Dandan.

In addition, there are about 2,035 net metering customers with a total capacity of about 22 MW of net metering customers tied in to the grid without batteries. The result of all these intermittent productions has degraded the reliability of the system. Solar PV Production is inconsistent and requires substantial battery reserves. The number of under frequency automatic load shedding due to solar PV systems has increased substantially over the past few years.

As of October 31, 2019, there has been 27 caused feeder trips or outages due to solar PV systems without batteries. Although, the new 40 MW frequency control batteries GPA is installing would decrease these outages, we cannot continue to add intermittent energy production into the grid because uncontrolled solar PV energy will degrade system reliability again. GPA cannot continue to add intermittent energy production into the grid without requiring all future customer owned solar PV and wind turbine systems to also have Frequency Control Capability or Energy Storage System (ESS). The lack of ESS in the system substantially degrades the reliability of non-solar customers.

When will it be completed? Therefore, **effective January 01, 2020**, all new NET Metering Solar PV and Wind Turbine systems must also have Frequency Control Capability or Energy Storage System (ESS) in order to be tied in to GPA's grid.

CONSOLIDATED COMMISSION ON UTILITIES
Guam Power Authority | Guam Waterworks Authority
P.O. Box 2977 Hagatna, Guam 96932 | (671)649-3002 | guamccu.org

RESOLUTION NO. 2019-19

AUTHORIZING MANAGEMENT TO REQUIRE ALL FUTURE NET METERING SOLAR PV AND WIND TURBINE SYSTEMS TO ALSO HAVE FREQUENCY CONTROL CAPABLITY OR ENERGY STORAGE SYSTEM (ESS) IN ORDER TO BE TIED IN TO GPA'S GRID

WHEREAS, Guam Public Law 27-132 (December 2004) created Net Metering (NEM) for Guam and assigned the Guam Public Utilities Commission (PUC) the responsibility for setting the Net Metering Rate for excess renewable energy fed into GPA's Distribution System; and

WHEREAS, NEM customers receive services from the grid subsidized by non-NEM customers including but not limited to:

1) Use of the grid to sell power (get credit at full retail rate for excess production);
2) Use of the grid to energize their homes at night, but credited back from their production (uses GPA Grid as storage);
3) Frequency regulation absorbed by grid for intermittencies;
4) Reactive power supply;
5) Voltage regulation;
6) Stand-by power on overcast days when the sun does not shine.

WHEREAS, as ordered by the Consolidated Commission on Utilities (CCU), GPA has conducted and completed several public meetings to:

1) Address net metering stakeholders' concerns and obtain feedback;
2) Evaluate stakeholder feedback;
3) Perform analysis regarding net metering impacts on GPA especially on non-net metering customers;
4) Propose recommendations on whether or not changing the current net metering program is in the best interests of customers while insofar as possible alleviating net metering customer concerns.

WHEREAS, on its May 30, 2019 meeting, the PUC under Docket 19-04 ordered GPA to not make any change to the current NEM retail price. It also ordered for GPA and PUC to agree on an independent consultant to determine the cost and benefits of NEM including the benefits distributed generation may have in the distribution system. The PUC will entertain the report when completed and will address the matter further at that time or once the total NEM KW capacity reaches about 26MW; and

WHEREAS, Exhibit A is one illustration that show Solar PV production is intermittent and require an accompanying energy storage system such as a battery to provide a fairly smooth energy into the home or grid; and

WHEREAS, GPA is purchasing energy from a 25 MW solar farm in Dandan. In addition, there are about 22 MW of net metering customers tied in to the grid without batteries. The result of all these intermittent productions has degraded the reliability of the system. GPA has shown graphs of the GlidePath solar PV farm in Dandan during several consecutive weeks of rain, as illustrated on **Exhibit B**; and

WHEREAS, GPA is installing a 40 MW Energy Storage System (ESS), a 24 MW system in Hagatna and 16 MW system in Talofofo with a targeted commissioning date by December 31, 2019. These battery systems will significantly improve power quality in the system in addition to helping reduce short term outages cause by generating plant and renewable PV trips; and

WHEREAS, Exhibit C illustrate the number of under frequency automatic load shedding due to solar PV systems has increased substantially over the past few years. As of October 31, 2019, there has been 27 caused feeder trips or outages due to solar PV systems without batteries. Although, the new 40 MW frequency control batteries GPA is installing would decrease these outages, we cannot continue to add intermittent energy production into the grid because uncontrolled solar PV energy will degrade system reliability again; and

WHEREAS, the customers paying for the system grid are non-solar PV customers who are experiencing substantial outages due to solar PV customers facility intermittency; and

WHEREAS, GPA completed its Joint Renewable Integration Study with the United States Navy in July 2018;

WHEREAS, this Study made the following observations:

- All PV added after Phase II is at risk of considerable curtailment without load-shifting ESS;
- NEM will exacerbate this curtailment resulting in curtailment of less expensive Phase II energy for much more expensive NEM produced energy at the retail rate;
- All PV added with and after Phase II require additional ESS support during transient events;
- All PV added with and after Phase II require additional Short-Circuit Ratio (SCR) support supplied by GPA;
- All ESS should have frequency droop control modes available;
- Phase III and beyond systems should have energy storage included as an integral component of the project, in order to optimize the economics of the projects;
- The PV systems and the energy storage should share the same DC bus configuration behind one inverter system to reduce the SCR burden on GPA and reduce the PV ramping effects due to intermittent solar irradiation.

WHEREAS, this study has recommended projects including the new flexible generation power plant that would ameliorate the above effects;

WHEREAS, many of these projects are slated for funding beyond 2023;

WHEREAS, GPA cannot continue to add intermittent energy production into the grid without requiring all future customer owned solar PV and wind turbine systems to have frequency control capability or Energy Storage System (ESS).

NOW, THEREFORE, BE IT RESOLVED, by the CONSOLIDATED COMMISSION ON UTILITIES as follows:

1. The General Manager has determined that the number of under frequency automatic load shedding due to solar PV systems has increased substantially over the past few years and uncontrolled solar PV energy has significantly degraded system reliability. Those whose reliability is impacted substantially are the non-solar customers, which are expected to have improved reliability when the 40 MW ESS is completed.

2. GPA's existing policy is to have all future utility scale solar PV systems beginning with Phase II renewables equipped with ESS in order to improve reliability.

3. GPA cannot continue to add intermittent energy production into the grid without requiring all future customer owned solar PV and wind turbine systems to also have frequency control capability or Energy Storage System (ESS).

4. Therefore, effective January 01, 2020, all new NET Metering Solar PV and Wind Turbine systems must have Frequency Control Capability or Energy Storage System (ESS) in order to be tied in to GPA's grid.

RESOLVED, that the Chairman of the Commission certifies and the Secretary of the Commission attests the adoption of this Resolution.

DULY and REGULARY ADOPTED and APPROVED THIS 26TH DAY OF NOVEMBER, 2019.

Certified by:	Attested by:
_____	_____
JOSEPH T. DUENAS	MICHAEL T. LIMTIACO
Chairperson	Secretary
Consolidated Commission on Utilities	Consolidated Commission on Utilities

I, Michael T. Limtiaco, Secretary for the Consolidated Commission on Utilities (CCU), as evidenced by my signature above do certify as follows:

The foregoing is a full, true, and accurate copy of the resolution duly adopted at a regular meeting of the members of Guam Consolidated Commission on Utilities, duly and legally held at a place properly noticed and advertised at which meeting a quorum was present and the members who were present voted as follows:

Ayes: _____

Nays: _____

Absent: _____

Abstain: _____

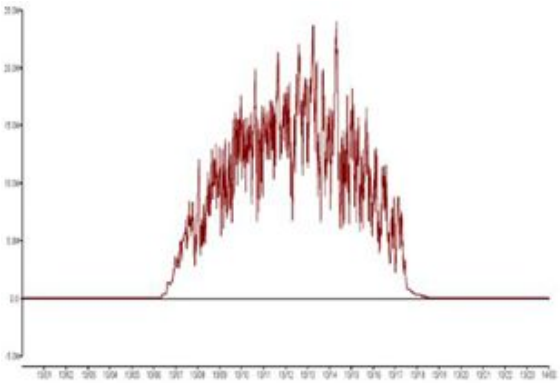
Exhibit A

NEM Customer Profile

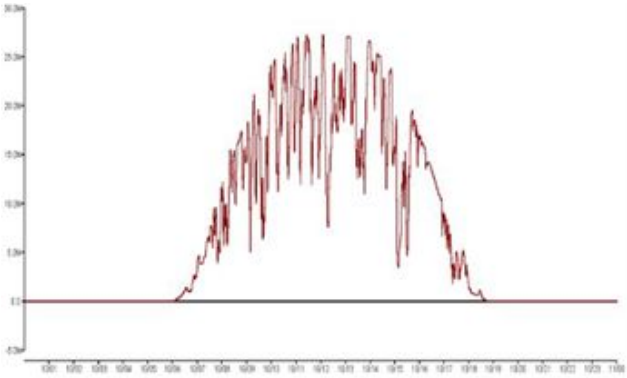
PV Output Looks Like This …

Solar PV Renewables Intermittency

Peak Output
26.5 MW



Peak Output
23 MW



Date:	**14-Jun-16**		
PV System KW Size	24.7		
GPA KWH 12am to 7am	22.56		
GPA KWH 7am to 6pm	7.44		
GPA KWH 6pm to 12am	**24.67**	**Evening Peak**	
NEM KWH 7am to 6pm	69.35		
Net GPA KWH	-14.68		

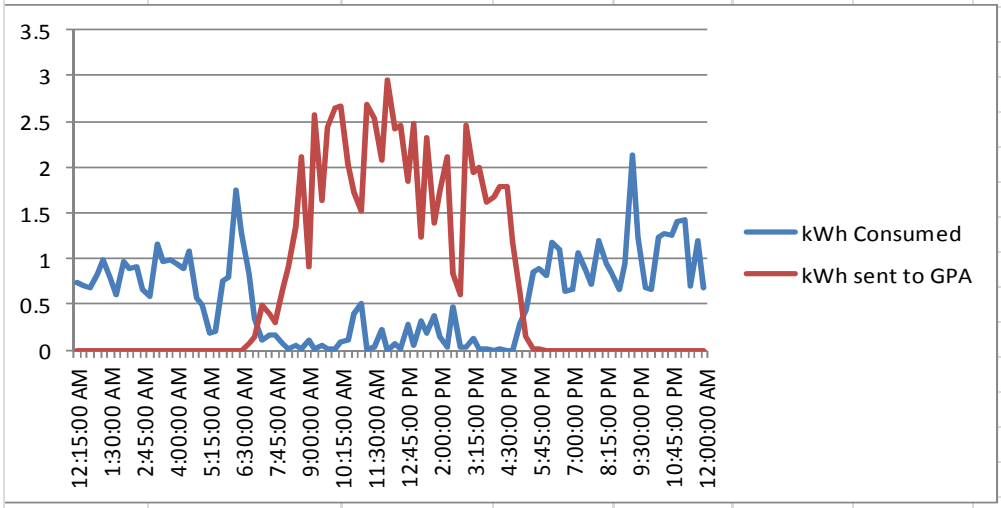


Exhibit B

Solar PV Production is Inconsistent and Requires Substantial Battery Reserves

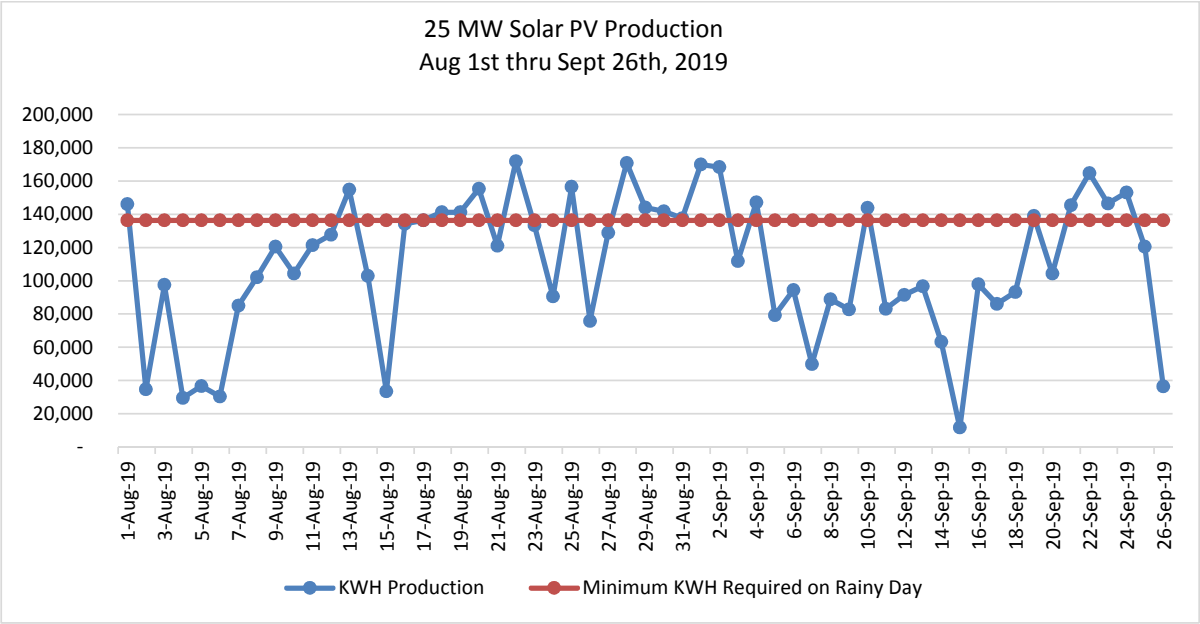
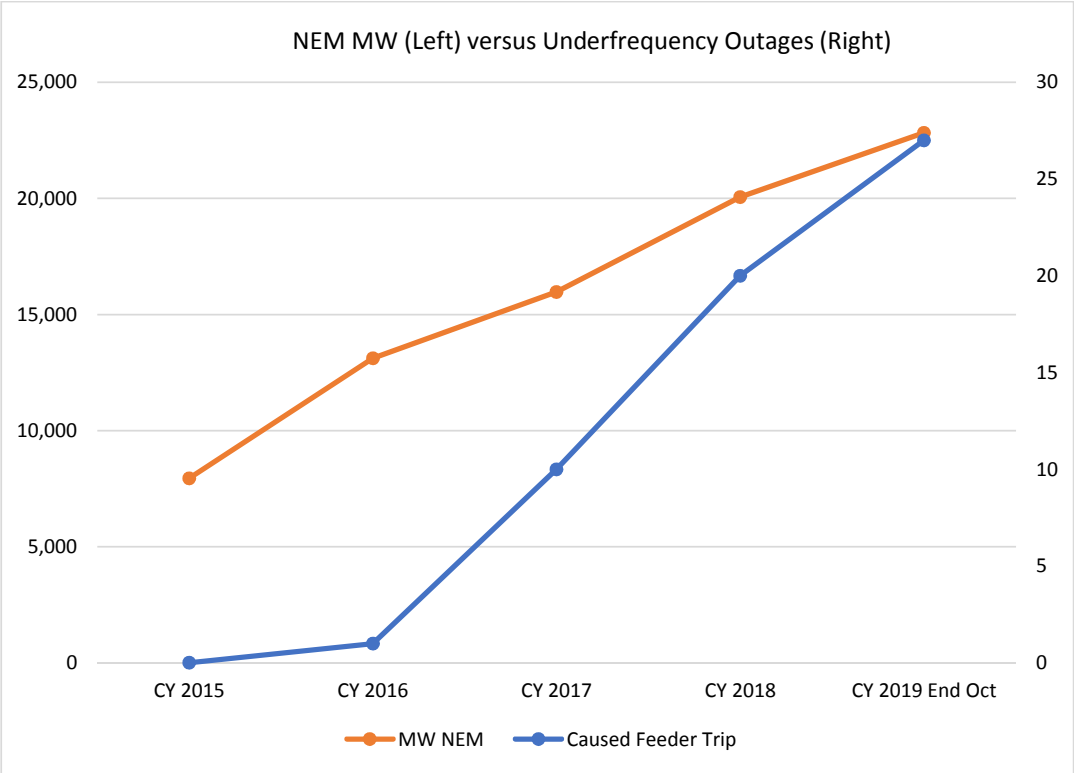


Exhibit C



NEM Customers Not Paying for System: Non-Solar Customer Cost will Increase !!!

System FY 2018 Cost
KWH Sales: **1,567,052,144**

Description:	**Amount**	**$/KWH**
Debt	$ 30,167,800	$ 0.019
Capital Improvement	$ 16,599,038	$ 0.011
Transmission and Distribution Grid	$ 12,338,142	$ 0.008
Customer Accounting	$ 6,354,272	$ 0.004
Admin/General	$ 33,971,438	$ 0.022
Production - Non Fuel	$ 61,331,145	$ 0.039
Total Base Rate (Fixed Cost)-Non Fuel	**$ 160,761,835**	**$ 0.103**
Fuel Cost	$ 217,567,039	$ 0.139
Total Cost	$ 378,328,874	$ 0.241

Solar PV Production Does Not Avoid Base Rate of $0.103 / KWH; Solar PV Production Does Avoid Fuel Cost

Full Burden of Fixed Cost Shifted to Non-Solar Customers!!!

Total ALL Customers	**52,000**	**$3,092**
Without Solar Customers	**50,000**	**$3,215**
Additional Non-Solar Cost Per Customer		**$124**
Excess Credit Payments or Carryover Cost		**$0.241/kWh**
Avoided Cost		**$0.139/kWh**

GUAM POWER AUTHORITY
ATURIDÅT ILEKTRESEDÅT GUAHAN
P.O.BOX 2977 • AGANA, GUAM U.S.A. 96932-2977

Issues for Decision

Resolution No. 2019-20

AUTHORIZING MANAGEMENT OF THE GUAM POWER AUTHORITY (GPA) TO FILE A REVISON TO INTERIM NET METERING RIDER ADDRESSING THE GUAM PUBLIC UTILITIES COMMISSION (PUC) ORDER DOCKET NO. 08-10

What is the project's objective and is it necessary and urgent?

The Guam Public Utilities Commission (PUC) ordered GPA to execute the Interim Net Metering (NM) Rider under Docket No. 08-10 (December 29, 2008). Under Docket 08-10, Exhibit A (paragraph 1), the PUC states: "The NM Rider may be amended or modified in the future by GPA, with the approval of the Guam Public Utilities Commission (PUC)." Under Docket 08-10, Exhibit A (paragraph 3), the PUC orders: "The NM Rider is available to all customers without limitation as to the aggregate capacity of Customer-Generator installations on the GPA System. However, at the time the number of Customer-Generators exceeds one-thousand (1000) customers this issue will be reviewed by the PUC and a determination made as to the continued offering of the NM Rider for new 'net metering' customers." GPA achieved the milestone of 1000 net metering (NEM) customers in June 2016. NEM customers receive services from the grid subsidized by non-NEM customers including but not limited to:

- Use of the grid to sell power (get credit at full retail rate for excess production);
- Use of the grid to energize their homes at night;
- Frequency regulation absorbed by grid for intermittencies;
- Reactive power supply;
- Voltage regulation; and
- Stand-by power on overcast days when the sun does not shine.

GPA has 2,040 net metering customers (October 31, 2019) resulting in an approximate $3,527,745 annual subsidy going forward. Expiration of customer credit was revised in docket 08-10 on December 10, 2015 which gave customer an option to elect to have GPA carry the credits forward, or have GPA purchase from the customer all kWh credits remaining on their account.

GPA is requesting to **revert** to the original language contained in the Net Metering Rider, under "MONTHLY BILLING," which states:

> "In no event shall the excess credit from a single month be carried forward beyond twelve (12) months as a credit against the current monthly billing. At the end of each calendar year, or in the event of termination of service under this Rider, any excess kWh credits; if any will be granted by the customer to the GPA without compensation to the customer"

The payment or carry over of excess credits tend to encourage net metering customers to install larger capacity which results in receiving payments for excess energy thereby resulting in increased cost to non-NEM customers.

Typically, in other jurisdictions NEM excess credits are zeroed out annually as was done by GPA prior to the change in December 2015.

How much has it cost GPA? GPA has 2,040 net metering customers (October 31, 2019) resulting in an approximate $3,527,745 annual subsidy going forward.
GPA refunded $86,283 and carried forward $241,217 in calendar year 2018.

CONSOLIDATED COMMISSION ON UTILITIES
Guam Power Authority | Guam Waterworks Authority
P.O. Box 2977 Hagatna, Guam 96932 | (671)649-3002 | guamccu.org

RESOLUTION NO. 2019-20

AUTHORIZING MANAGEMENT OF THE GUAM POWER AUTHORITY (GPA) TO FILE A REVISON TO INTERIM NET METERING RIDER ADDRESSING THE GUAM PUBLIC UTILITIES COMMISSION (PUC)ORDER DOCKET NO. 08-10

WHEREAS, Guam Public Law 27-132 (2004) created Net Metering for Guam and assigned the Guam Public Utilities Commission (PUC) the responsibility for setting the Net Metering Rate for excess renewable energy fed into GPA's Distribution System; and

WHEREAS, the Guam Public Utilities Commission (PUC) ordered GPA to execute the Interim Net Metering (NM) Rider under Docket No. 08-10 (December 29, 2008); and

WHEREAS, under Docket 08-10, Exhibit A (paragraph 1), the PUC states: "The NM Rider may be amended or modified in the future by GPA, with the approval of the Guam Public Utilities Commission (PUC)"; and

WHEREAS, under Docket 08-10, Exhibit A (paragraph 3), the PUC orders: "The NM Rider is available to all customers without limitation as to the aggregate capacity of Customer-Generator installations on the GPA System. However, at the time the number of Customer-Generators exceeds one-thousand (1000) customers this issue will be reviewed by the PUC and a determination made as to the continued offering of the NM Rider for new 'net metering' customers."; and

WHEREAS, GPA achieved the milestone of 1000 net metering (NEM) customers in June 2016; and

WHEREAS, NEM customers receive services from the grid subsidized by non-NEM customers including but not limited to: 1) Use of the grid to sell power (get credit at full retail rate for excess production); 2) Use of the grid to energize their homes at night; 3) Frequency regulation absorbed by grid for intermittencies; 4) Reactive power supply; 5) Voltage regulation; and 6) Stand-by power on overcast days when the sun does not shine.

WHEREAS, GPA has 2,040 net metering customers (October 31, 2019) resulting in an approximate $3,527,745 annual subsidy going forward; and

WHEREAS, expiration of customer credit was revised in docket 08-10 on December 10, 2015 which gave customer an option to elect to have GPA carry the credits forward, or have GPA purchase from the customer all kWh credits remaining on their account; and

WHEREAS, GPA refunded $86,283 and carried forward $241,217 in calendar year 2018; and

WHEREAS, GPA is requesting to **revert** to the original language contained in the Net Metering Rider, under "MONTHLY BILLING," which states:

> "In no event shall the excess credit from a single month be carried forward beyond twelve (12) months as a credit against the current monthly billing. At the end of each calendar year, or in the event of termination of service under this Rider, any excess kWh credits; if any will be granted by the customer to the GPA without compensation to the customer"; and

WHEREAS, the payment or carry over of excess credits tend to encourage net metering customers to install larger capacity which results in receiving payments for excess energy thereby resulting in increased cost to non-NEM customers; and

WHEREAS, typically in other jurisdictions NEM excess credits are zeroed out annually as was done by GPA prior to the change in December 2015.

NOW, THEREFORE, BE IT RESOLVED, by the CONSOLIDATED COMMISSION ON UTILITIES subject to the review and approval of the Public Utilities Commission as follows:

1. The General Manager is authorized to file a petition of its revision to the Interim Net Metering Rider.
2. The General Manager is authorized to conduct an information campaign supporting these recommendations.

RESOLVED, that the Chairman of the Commission certifies and the Secretary of the Commission attests the adoption of this Resolution.

DULY and REGULARY ADOPTED this 26th day of November 2019.

Certified by:	**Attested by:**
JOSEPH T. DUENAS Chairperson Consolidated Commission on Utilities	**MICHAEL LIMTIACO** Secretary Consolidated Commission on Utilities

I, Michael Limtiaco, Secretary for the Consolidated Commission on Utilities do hereby certify that the foregoing is a full, true, and correct copy of the resolution duly adopted at a regular meeting of the members of Guam's Consolidated Commission on Utilities, duly and legally held at a place properly noticed and advertised at which meeting a quorum was present and the members who were present voted as follows:

Ayes: _____

Nays: _____

Absent: _____

Abstain: _____

Customer Service Division

October 2019

SITE	Less than 10 Mins.	%	10-15 Mins.	%	15-30 Mins.	%	30-45 Mins.	%	TOTAL	Location %
FADIAN	1,015	68%	160	11%	211	14%	112	7%	1,498	29%
HAGATNA	1,483	83%	187	10%	118	7%	7	0%	1,795	34%
UPPER TUMON	1,568	80%	232	12%	146	7%	15	1%	1,961	37%
TOTAL:	4,066	77%	579	11%	475	9%	134	3%	5,254	100%

Government Accounts Receivable: CSD reports invoices for the month of September 2019, for 75 active government accounts with an overall total of $6,278,536.59, and 38 accounts were current (51%), 37 accounts with arrears (49%). 37 fax/emails issued to government accounts totaling $3,109,772.24. Aug 2019 invoices, 65 accounts paid in full.

Credit and Collection

Delinquent Ratio: As of October 2019, the authority reported a total 48,136, active customers. The "Delinquent Ratio" was recorded at 4.34% with 2,091 total delinquent accounts, total arrears of 795,484.58; 653,613.85; 1,924(4.00% / 28-45 days) category; 36,441.93; 162(0.34% / 46-60 days); 55,454.42; 105(0.22% 61-90 days); and 49,974.38; 132(0.27% / Over 90 days).

Bankruptcy: During October 2019 the Bankruptcy reports two (2) customers filed, totaling $ 10,566.75. (1) Chapter 7 order of Discharge for full amount $2,356.55; one (1) Chapter 11 $13,821.81 order of Discharge amount for $3,255.06.

Damage Claim: The Damage claim committee received one (1) Damage claims at $150.00 for the month of October 2019.

ACTIVE DELINQUENT – NON-PAYMENT

Command Center / Disconnection / Reconnections

Single Phase Meters: Credit and Collection issued orders to Command Center to perform remote disconnect/reconnect for a total of 701 customers; 474(68%) were disconnected; 211(30%) deferred; 16(2%) incompletes.

3 Phase Meters: Credit and Collection issued orders to Disconnect Reconnect crew to perform truck roll out disconnect/reconnect for a total of 77 customers; 16(21%) were disconnected; 60(78%) deferred; 1(1%) incompletes.

FY 2020 (Oct 01-31, 2019)								
	Scheduled	Disc	Deferred	Complete Vs. Scheduled	Incomplete Disconnections	Disc Vs. Scheduled	Deferred Vs. Scheduled	Incomplete Vs. Scheduled
Oct-19	778	490	271	761 98%	17	63%	35%	2%
TOTAL:	778	490	271	761 98%	17	63%	35%	2%

FY 2019 (October 01, 2018 – September 30, 2019)								
QTR	Scheduled	Disc	Deferred	Complete Vs. Scheduled	Incomplete Disconnections	Disc Vs. Scheduled	Deferred Vs. Scheduled	Incomplete Vs. Scheduled
4th	3,456	2,400	1,038	3,438 99%	18	69%	30%	1%
3rd	2,160	1,487	626	2,113 98%	44	69%	29%	2%
2nd	2,869	2,089	711	2,800 98%	69	73%	25%	2%
1st	8,855	2,720	6,013	8,733 99%	122	31%	68%	1%
TOTAL:	17,340	8,696	8,388	17,084 99%	253	50%	48%	2%

This concludes the Summary Report for the Customer Service Division for the month of October 2019.

Respectfully submitted,
Marissa Fernandez
Marissa Fernandez, Admin. Officer

Reviewed / Approved by:
Richard J. Bersamin, ACSM

Run Date: 11/8/2019
Run Time: 12:01:28AM

Guam Power Authority
Delinquent Active Accounts Summary Report
As of - 11/08/2019

Report ID: DELRATIO

Rate Classification	Total Cust	Del Cust	Del 28-45	Del 46-60	Del 61-90	Over-90	Current Balance	28-45 Days	46-60 Days	61-90 Days	>90 Days	Total Arrears	Total D
Residential(ERES-R)	42,366	1,836	1,693	122	78	97	4,849,738.01	362,120.59	23,552.92	20,151.27	27,165.63	432,990.41	5,282,728
		4.33%	4.00%	0.29%	0.18%	0.23%							
Small Gen Non Demand(EGEN-G)	4,058	178	160	23	15	22	812,992.92	68,615.24	6,410.74	3,472.21	8,677.42	87,175.61	900,168
		4.39%	3.94%	0.57%	0.37%	0.54%							
Small Gen Demand(EGEND-J)	1,075	42	38	2	3	2	2,349,332.34	73,931.36	5,870.22	25,966.50	9,396.98	115,165.06	2,464,497
		3.91%	3.53%	0.19%	0.28%	0.19%							
Large General(ELPS-P)	120	4	3	0	1	0	5,572,906.97	145,889.86	0.00	5,527.55	0.00	151,417.41	5,724,324
		3.33%	2.50%	0.00%	0.83%	0.00%							
Private Streetlight(EPOL-H)	517	31	30	15	8	11	17,931.15	3,056.80	608.05	336.89	4,734.35	8,736.09	26,667
		6.00%	5.80%	2.90%	1.55%	2.13%							
Sub-Total (Private)	**48,136**	**2,091**	**1,924**	**162**	**105**	**132**	**13,602,901.39**	**653,613.85**	**36,441.93**	**55,454.42**	**49,974.38**	**795,484.58**	**14,398,385**
		4.34%	**4.00%**	**0.34%**	**0.22%**	**0.27%**							
Small Gov Non Demand(ESGS-S)	665	283	280	63	5	3	565,320.61	152,231.38	55,194.79	1,769.00	559.86	209,755.03	775,075
		42.56%	42.11%	9.47%	0.75%	0.45%							
Small Gov Demand(ESGSD-K)	359	128	127	81	0	0	3,628,647.23	693,155.24	489,984.23	0.00	0.00	1,183,139.47	4,811,786
		35.65%	35.38%	22.56%	0.00%	0.00%							
Large Government(ELGS-L)	44	24	24	20	0	0	2,909,194.51	600,203.99	541,030.14	0.00	0.00	1,141,234.13	4,050,428
		54.55%	54.55%	45.45%	0.00%	0.00%							
Gov Streetlight(ESTL-F)	619	450	450	65	0	5	1,053,905.22	462,008.51	82,536.05	0.00	511.58	545,056.14	1,598,961
		73%	72.70%	10.50%	0.00%	0.81%							
Sub-Total (Government)	**1,687**	**885**	**881**	**229**	**5**	**8**	**8,157,067.57**	**1,907,599.12**	**1,168,745.21**	**1,769.00**	**1,071.44**	**3,079,184.77**	**11,236,252**
		52.46%	**52.22%**	**13.57%**	**0.30%**	**0.47%**							
GRAND TOTAL	**49,823**	**2,976**	**2,805**	**391**	**110**	**140**	**21,759,968.96**	**2,561,212.97**	**1,205,187.14**	**57,223.42**	**51,045.82**	**3,874,669.35**	**25,634,638**
		5.97%	**5.63%**	**0.78%**	**0.22%**	**0.28%**							

Guam Power Authority

Customer Service Division

Employee Month-To-Date (MTD) Consolidated Report

SEPTEMBER 2019

Date: 10-16-19
Compiled by: Rita
Reviewed by:

Reason(s) for visit	Transaction type	Fadian	% MTD	Hagatna	% MTD		% MTD	TOTAL
New Install - Permanent (NI1)	Application	9	0.3%	0	0.0%	4	0.1%	13
New Install - Temporary (NI2)	Application	12	0.4%	0	0.0%	3	0.1%	15
New Install - Street Light (NI3)	Application	0	0.0%	0	0.0%	0	0.0%	0
Reconnection - Without Meter (NI4)	Application	2	0.1%	2	0.1%	1	0.0%	5
Reconnection - With Meter (NI5)	Application	87	3.1%	113	3.3%	170	4.3%	370
Name Change (NC1)	Application	81	2.9%	98	2.9%	158	4.0%	337
Name Change - Street Light (NC2)	Application	1	0.0%	1	0.0%	1	0.0%	3
Termination - Regular (TE1)	Termination	67	2.4%	99	2.9%	153	3.8%	319
Termination - Name Change (TE2)	Termination	0	0.0%	0	0.0%	2	0.1%	2
Termination - Non Payment (TE3)	Termination	0	0.0%	0	0.0%	0	0.0%	0
Termination - Typhoon (TE4)	Termination	0	0.0%	0	0.0%	0	0.0%	0
Termination - Removal (TE5)	Termination	5	0.2%	0	0.0%	0	0.0%	5
Termination (TE6)	Termination	0	0.0%	0	0.0%	0	0.0%	0
Work Clearance - Emergency (WCE)	Other	3	0.1%	5	0.1%	3	0.1%	11
Work Clearance - Underground (UG)	Other	20	0.7%	0	0.0%	0	0.0%	20
Work Clearance - Overhead (OH)	Other	11	0.4%	3	0.1%	8	0.2%	22
Meter Investigation (INV)	Other	2	0.1%	0	0.0%	1	0.0%	3
Meter Change Out / Calibration (MC1)	Other	1	0.0%	1	0.0%	3	0.1%	5
Meter Upgrade /Downgrade (MC3)	Other	0	0.0%	0	0.0%	0	0.0%	0
Misc Public Service (MPS)	Other	41	1.5%	10	0.3%	11	0.3%	62
Refund (RFD)	Other	13	0.5%	18	0.5%	19	0.5%	50
Relocation of Meter (RM1)	Other	9	0.3%	0	0.0%	7	0.2%	16
Street Light Repair (ST1)	Other	24	0.9%	2	0.1%	0	0.0%	26
Official Receipt (OR)	Other	99	3.5%	132	3.9%	85	2.1%	316
Update Special Charge (USC)	Other	1	0.0%	61	1.8%	83	2.1%	145
Inspection Report (IR)	Other	18	0.6%	8	0.2%	20	0.5%	46
Copy of Bill (COB)	Other	464	16.5%	564	16.6%	645	16.1%	1,673
Bill Inquiry (BILL INQ)	Other	233	8.3%	700	20.6%	761	19.0%	1,694
Bill Adjustment (BILL ADJ)	Other	3	0.1%	1	0.0%	8	0.2%	12
Address Change (ADDR CHG)	Other	21	0.7%	48	1.4%	85	2.1%	154
Deferred Payment Agreement (DPA)	Other	2	0.1%	0	0.0%	0	0.0%	2
Prepaid	Other	53	1.9%	23	0.7%	54	1.4%	130
Rebate	Other	155	5.5%	141	4.1%	133	3.3%	429
ACH/EFT	Other	8	0.3%	4	0.1%	6	0.2%	18
No Answer	Other	241	8.6%	32	0.9%	101	2.5%	374
Inquiry Type Visit	Other	147	5.2%	247	7.3%	464	11.6%	858
Inquiry Type Other	Other	197	7.0%	174	5.1%	74	1.9%	445
Inquiry (INQ)	Active Delinquent	309	11.0%	297	8.7%	305	7.6%	911
Payment (PYMT)	Active Delinquent	201	7.1%	306	9.0%	302	7.6%	809
Do Not Disconnect (DND)	Active Delinquent	0	0.0%	1	0.0%	0	0.0%	1
Extension (EXT)	Active Delinquent	137	4.9%	168	4.9%	165	4.1%	470
Reconnect (REC)	Active Delinquent	94	3.3%	86	2.5%	110	2.8%	290
Inquiry (INQ)	Inactive	28	1.0%	43	1.3%	27	0.7%	98
Payment (PYMT)	Inactive	7	0.2%	4	0.1%	15	0.4%	26
Transfer Balance (TRF BAL)	Inactive	12	0.4%	13	0.4%	13	0.3%	38
Total transactions by location		2,818		3,405		4,000		
Grand total for all locations								10,223

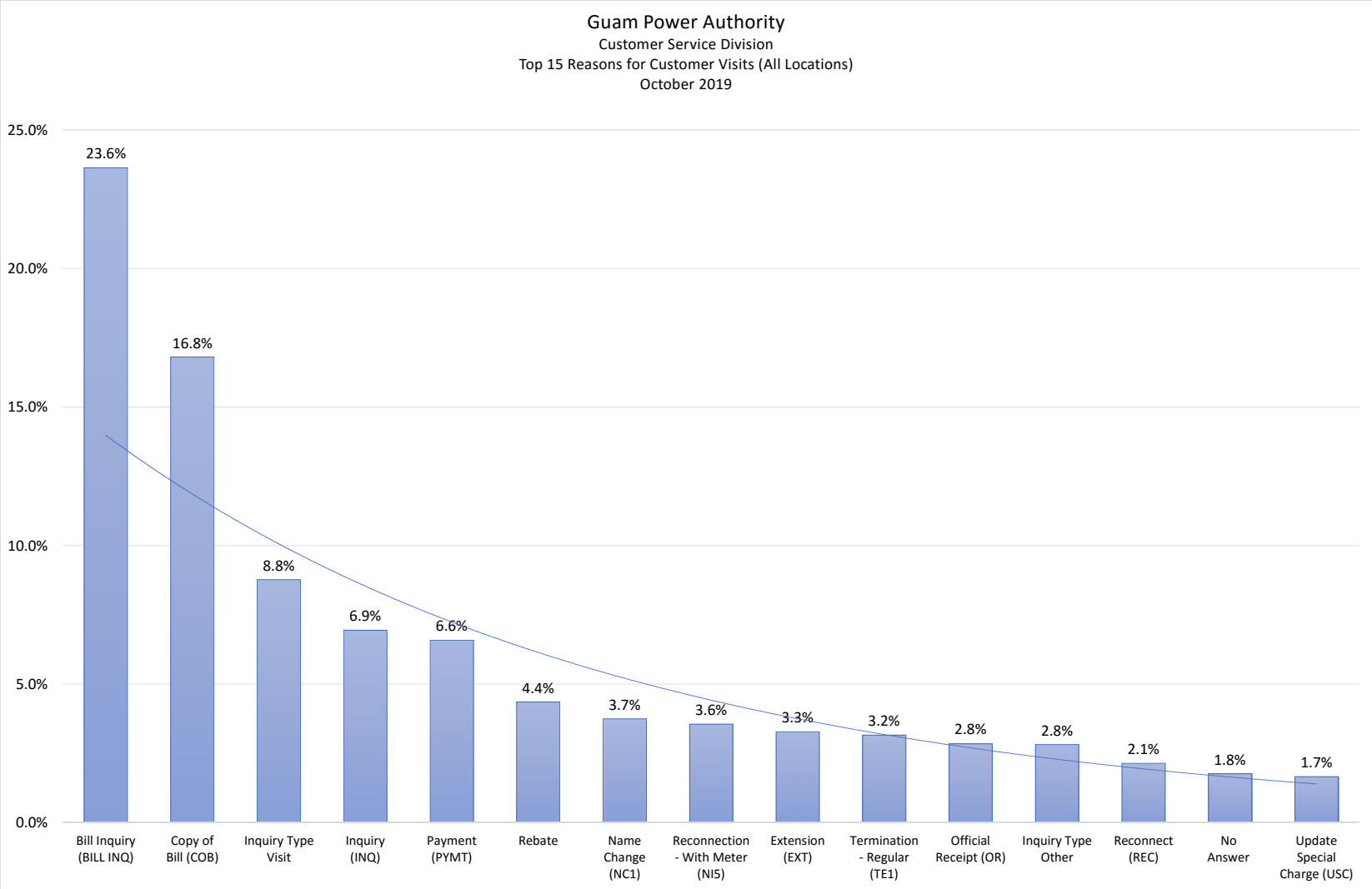
Customer contact by type	Fadian	%	Hagatna	%	Tumon	%
Visit (V)*	1,775	88.9%	1,862	87.1%	2,362	88.6%
Telephone (T)	15	0.8%	50	2.3%	66	2.5%
Mail (M)	20	1.0%	50	2.3%	53	2.0%
Fax (F)	1	0.1%	2	0.1%	0	0.0%
Transfer Call (TRF CALL)	5	0.3%	0	0.0%	0	0.0%
Other (OTHER)	180	9.0%	174	8.1%	185	6.9%
Total customer contacts	1,996		2,138		2,666	

*Visit (V) type customer contact may have more than one reason code applied in JDE Customer Login Service Tracking System.

Duration of wait time for "Visit (V)" type customer contact	Fadian	%	Hagatna	%	Tumon	%
Less than 10 minutes	782	44%	1,193	64%	1,540	65%
10-15 minutes	201	11%	343	18%	336	14%
16-30 minutes	435	25%	272	15%	359	15%
More than 30 minutes	357	20%	54	3%	127	5%
Total "Visit (V)" customers contacts	1,775		1,862		2,362	

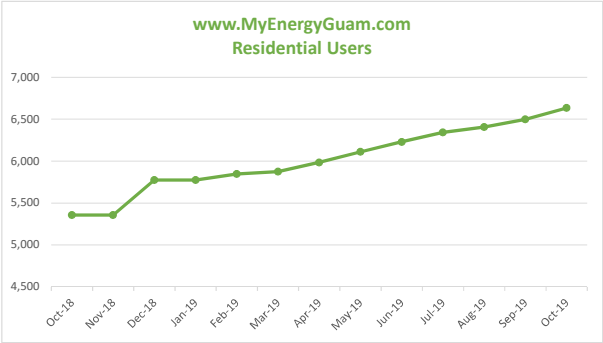
Page 1 of 1

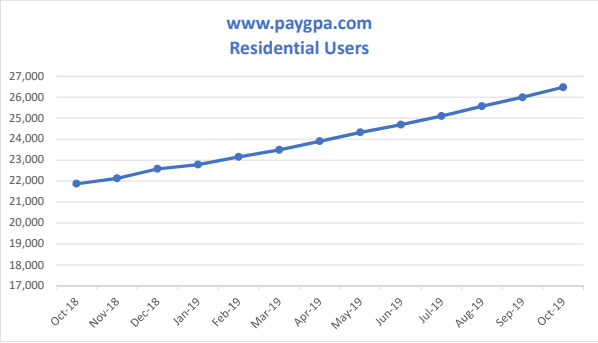
Rita E, MAE

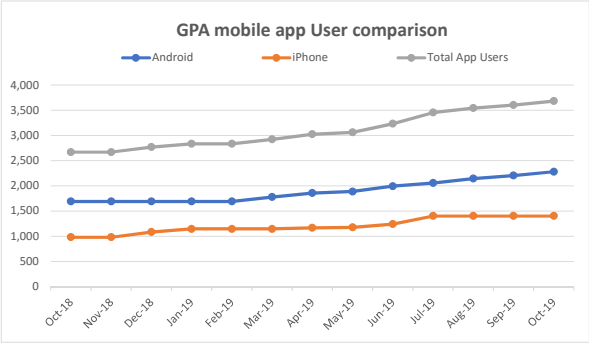

Guam Power Authority
Customer Service Division
Top 15 Reasons for Customer Visits (All Locations)
October 2019
25.0%
20.0%
15.0%
10.0%
5.0%
0.0%
23.6%
16.8%
8.8%
6.9%
6.6%
4.4%
3.7%
3.6%
3.3%
3.2%
2.8%
2.8%
2.1%
1.8%
1.7%
Bill Inquiry (BILL INQ)
Copy of Bill (COB)
Inquiry Type Visit
Inquiry (INQ)
Payment (PYMT)
Rebate
Name Change (NC1)
Reconnection - With Meter (NI5)
Extension (EXT)
Termination - Regular (TE1)
Official Receipt (OR)
Inquiry Type Other
Reconnect (REC)
No Answer
Update Special Charge (USC)

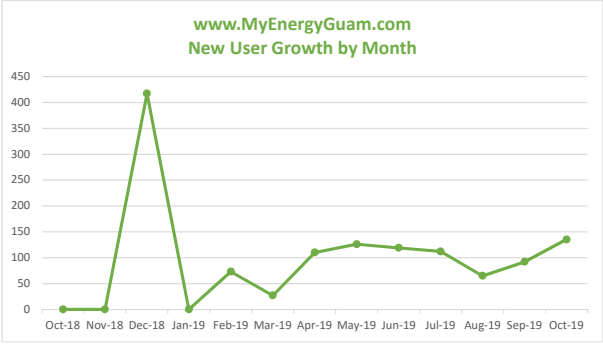
Guam Power Authority

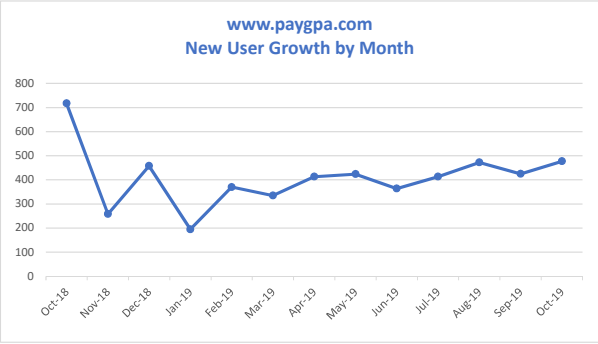
Customer Service Division
Online resources usage and growth - Residential Users
as of 10/31/2019

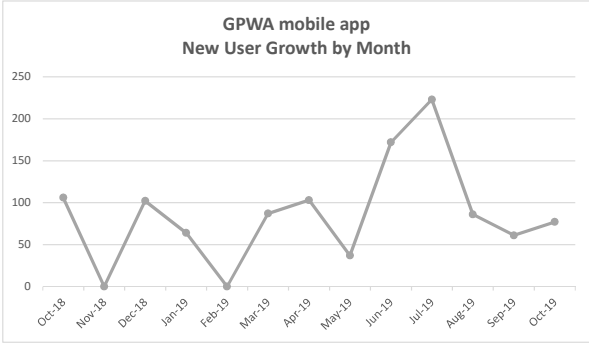










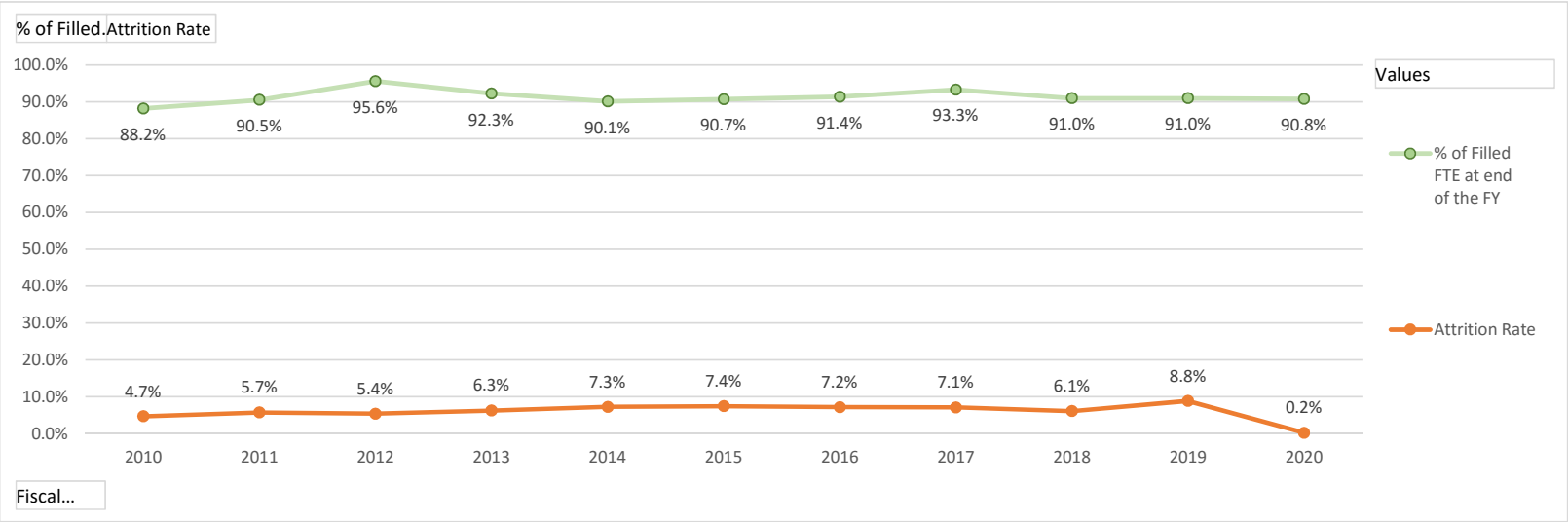


Guam Power Authority

Human Resources Division

FY 2020 Recruitment Analysis

as of October 31, 2019



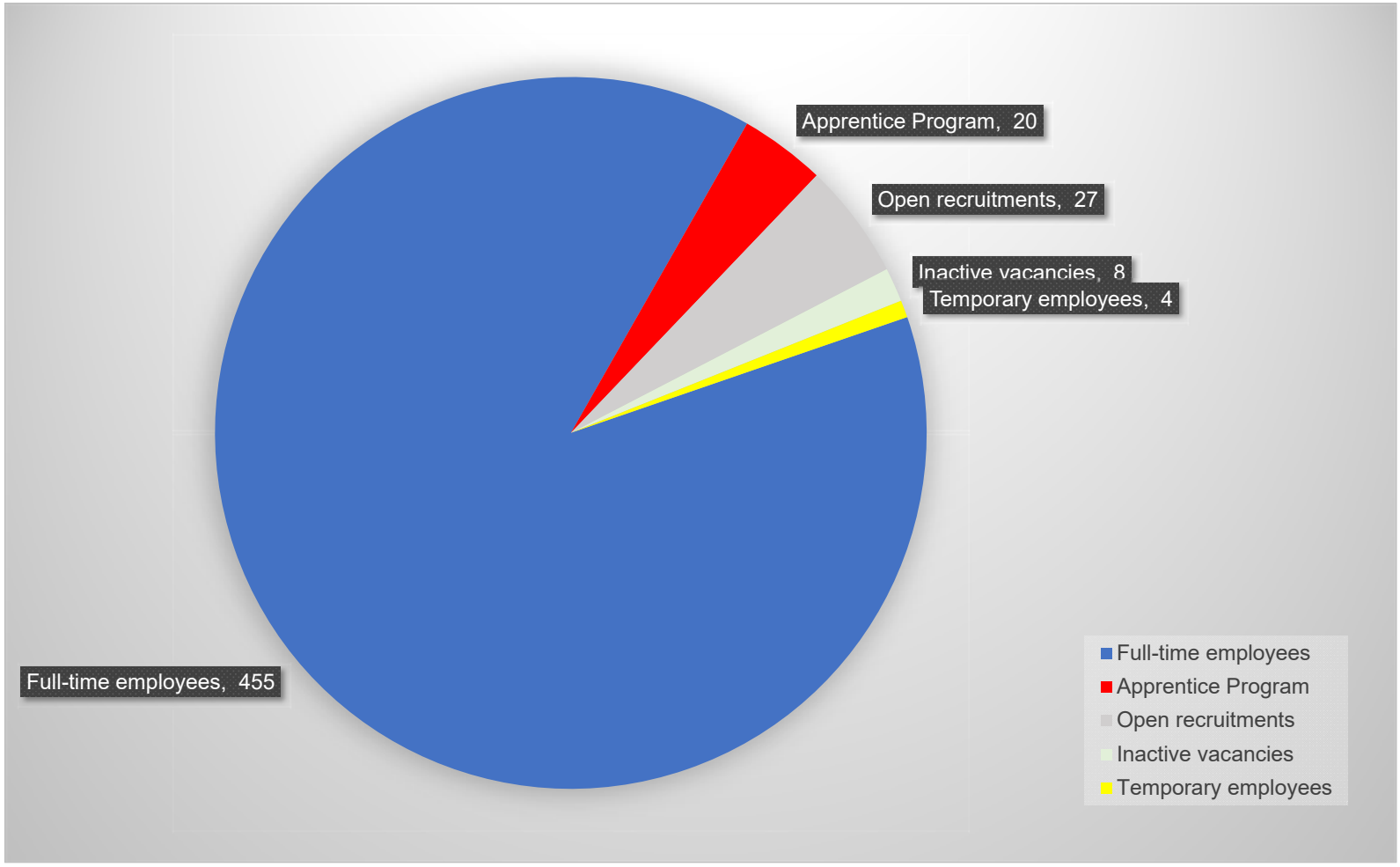
Fiscal Year	New Hire	Promotion	Termination	Death	Resignation	Retirement	Attrition Rate	Total Authorized FTE	Total Filled FTE at end of the FY	% of Filled FTE at end of the FY
2010	13	20	0	1	12	12	4.7%	592	522	88.2%
2011	44	23	4	0	14	12	5.7%	592	536	90.5%
2012	36	24	1	2	19	7	5.4%	568	543	95.6%
2013	15	26	1	3	14	16	6.3%	568	524	92.3%
2014	26	27	1	0	13	24	7.3%	568	512	90.1%
2015	15	25	2	1	19	16	7.4%	539	489	90.7%
2016	12	20	3	1	15	16	7.2%	510	466	91.4%
2017	42	15	0	1	13	19	7.1%	510	476	93.3%
2018	17	16	0	3	15	11	6.1%	510	464	91.0%
2019	31	20	3	3	18	17	8.8%	510	464	91.0%
2020	2	2	0	0	0	1	0.2%	500	454	90.8%

Guam Power Authority

Human Resources Division

FY 2020 Staffing Report

as of October 31, 2019



Guam Power Authority

Human Resources Division

FY 2020 Staffing Report

as of October 31, 2019

Department / Division / Program	Prior Month Employee Count	Current Month Employee Count	No. of Vacancies Prior Month	No. of Vacancies Current Month	Total Staffing
Assistant GM - Administration	2	2	-	-	2
Assistant GM - Engineering & Technical Services	1	1	-	-	1
Assistant GM - Operations	2	2	-	-	2
Consolidated Commission on Utilities Board	2	2	-	-	2
Customer Service	31	30	3	4	34
Engineering	38	38	1	1	39
Facilities	8	8	1	1	9
Finance	42	42	2	2	44
General Manager (GM)	4	4	-	-	4
Generation	117	117	13	5	122
Human Resources	9	10	1	-	10
Information Technology	15	16	1	-	16
Internal Audit / Revenue Protection	3	3	-	-	3
Planning and Regulatory	8	8	-	-	8
Power System Control Center	23	22	4	5	27
Procurement	21	21	1	1	22
Public Information Office	2	2	-	-	2
Safety	6	6	1	1	7
Strategic Planning and Operations Research Division	10	10	1	1	11
Transmission and Distribution	100	100	16	14	114
Transportation	10	11	1	-	11
Total full-time permanent employees	**454**	**455**	**46**	**35**	**490**
Apprenticeship Program	20	20	-	-	20
JOBS Program / GETP / SCSEP*	-	-	-	-	-
Summer Engineering Internship Program	-	-	-	-	-
Temporary hires (Public Law 34-116)	2	2	-	-	2
Work Experience Program	2	2	-	-	2
Total contractual / temporary employees	**24**	**24**	**-**	**-**	**24**
Work Force Grand Total	**478**	**479**	**46**	**35**	**514**

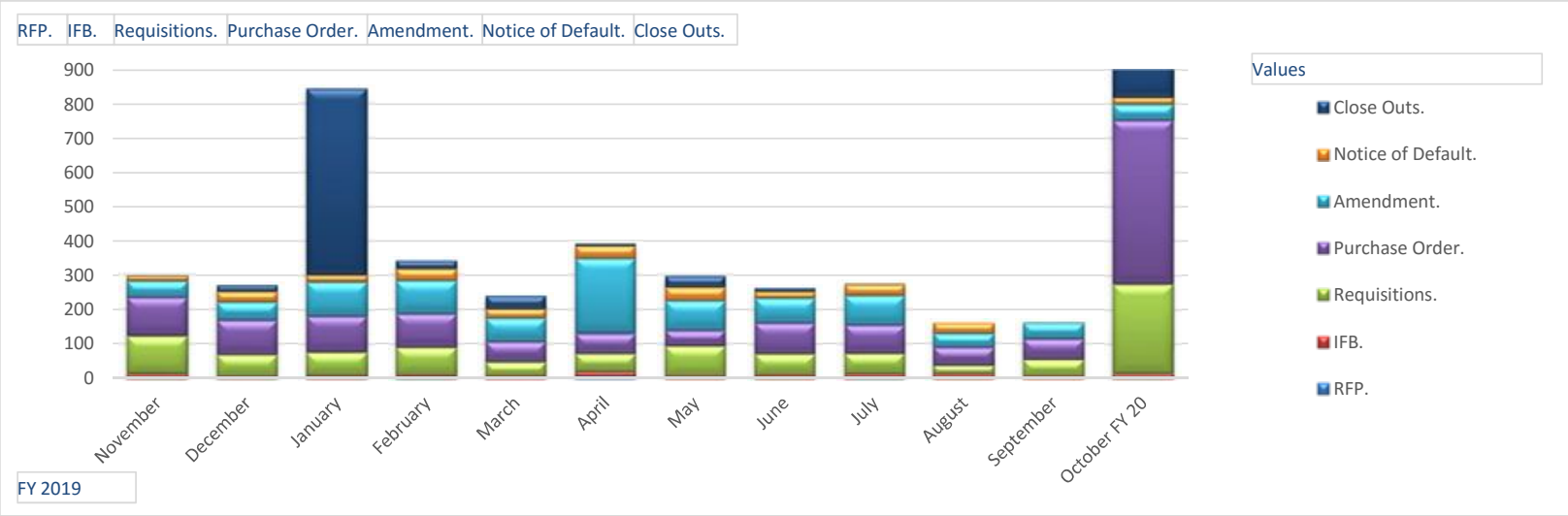
*Job Opportunities & Basic Skills (JOBS) Program, Guam Employment & Training Program (GETP), Senior Community Service Employment Program (SCSEP)

Guam Power Authority

Procurement Division

FY 2020 GPA Buyer's Monthly Report

as of 10/31/2019



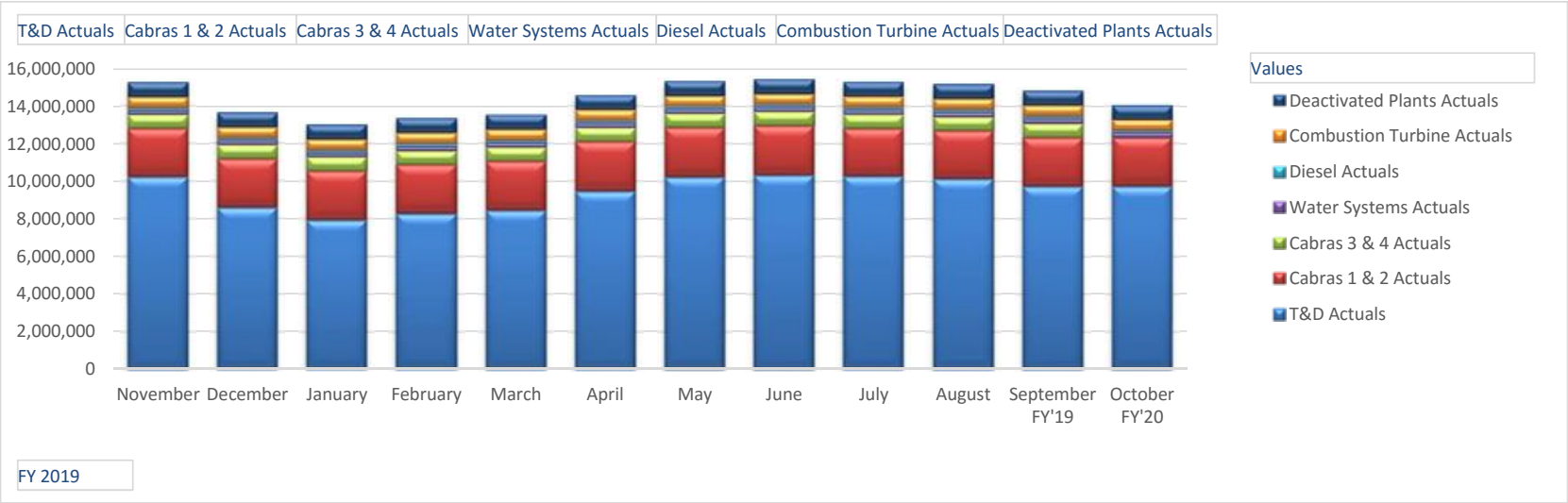
Month	RFP	IFB	Requisitions	Purchase Order	Amendment	Notice of Default	Close Outs
November	1	11	110	112	47	15	1
December	1	5	63	99	52	30	19
January	1	8	67	106	99	20	543
February	3	6	81	97	96	34	25
March	0	7	40	59	68	26	39
April	6	14	52	58	217	37	6
May	0	6	88	45	85	39	33
June	0	9	62	90	72	19	10
July	2	12	59	82	85	32	2
August	0	12	26	51	39	30	0
September	0	6	49	59	46	2	0
October FY 20	1	12	261	478	46	21	138

Guam Power Authority

Procurement Division

FY 2020 GPA Inventory Actuals

as of 10/31/2019



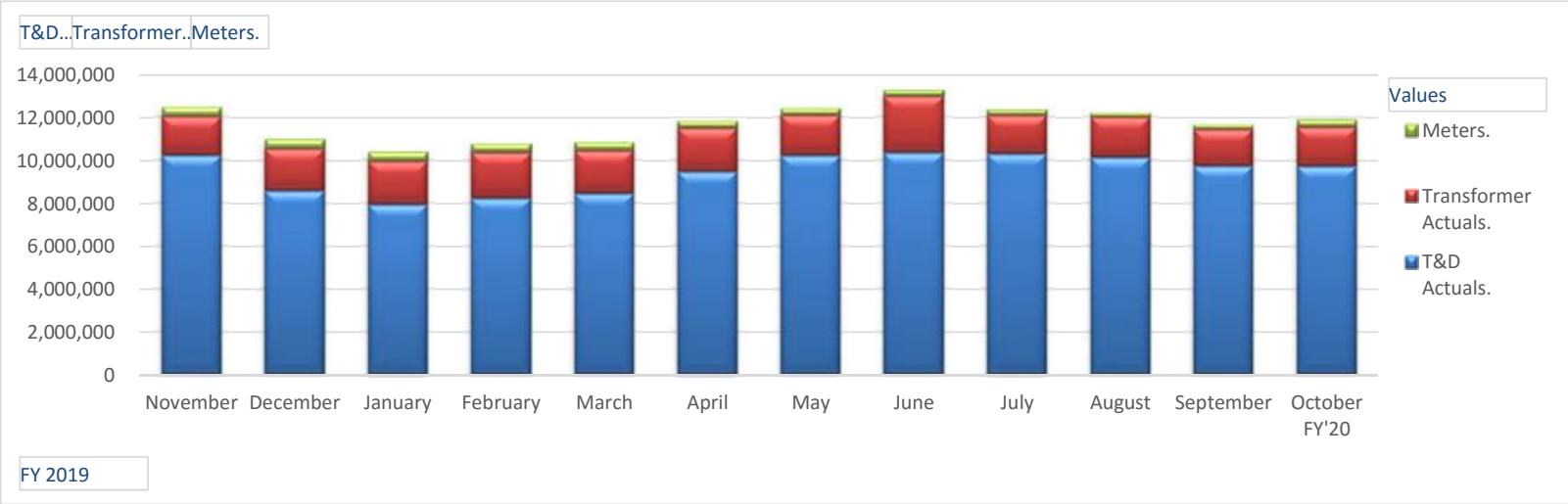
Month	T&D Actuals	Cabras 1 & 2 Actuals	Cabras 3 & 4 Actuals	Water Systems Actuals	Diesel Actuals	Combustion Turbine Actuals	Deactivated Plants Actuals
November	10,212,445	2,574,016	747,186	219,148	146,311	575,635	790,114
December	8,581,316	2,582,779	747,186	221,514	144,680	575,635	790,114
January	7,923,172	2,614,746	747,186	223,659	144,680	575,635	790,114
February	8,260,305	2,615,482	747,186	224,309	144,680	575,635	790,114
March	8,435,835	2,613,717	747,674	232,164	144,680	574,489	788,968
April	9,458,745	2,634,422	747,674	230,236	144,680	573,623	788,101
May	10,217,712	2,640,723	747,587	238,396	144,683	573,623	788,101
June	10,331,617	2,637,035	747,587	240,915	144,680	573,375	788,101
July	10,272,739	2,547,074	747,587	240,126	144,680	573,330	788,101
August	10,110,637	2,574,558	747,587	239,171	144,680	573,330	788,101
September FY'19	9,726,986	2,599,288	757,587	240,153	144,680	573,330	788,096
October FY'20	9,725,666	2,600,172	0	241,993	131,155	573,454	768,924

Guam Power Authority

Procurement Division

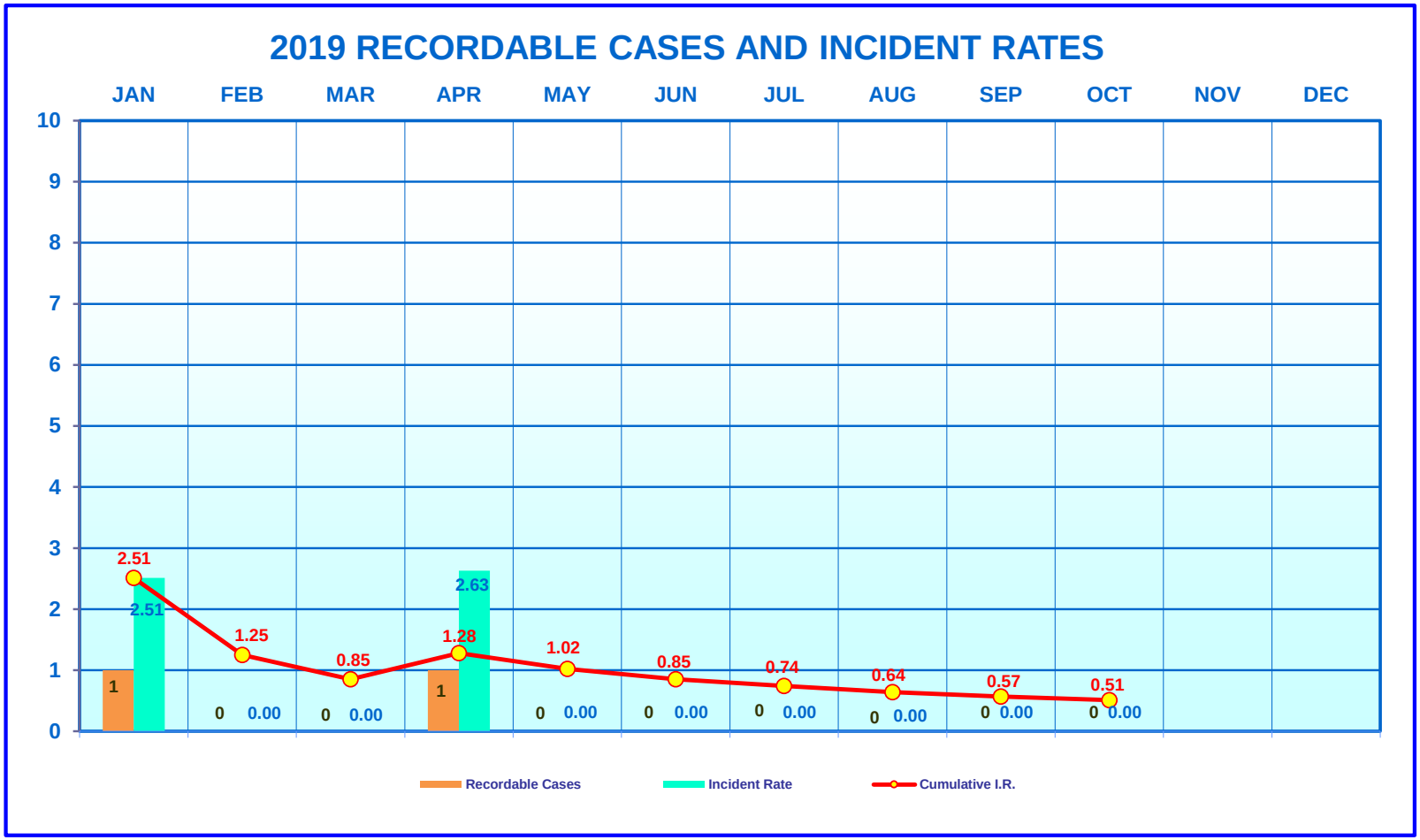
FY 2020 Transmission and Distribution (T&D) Inventory Actuals

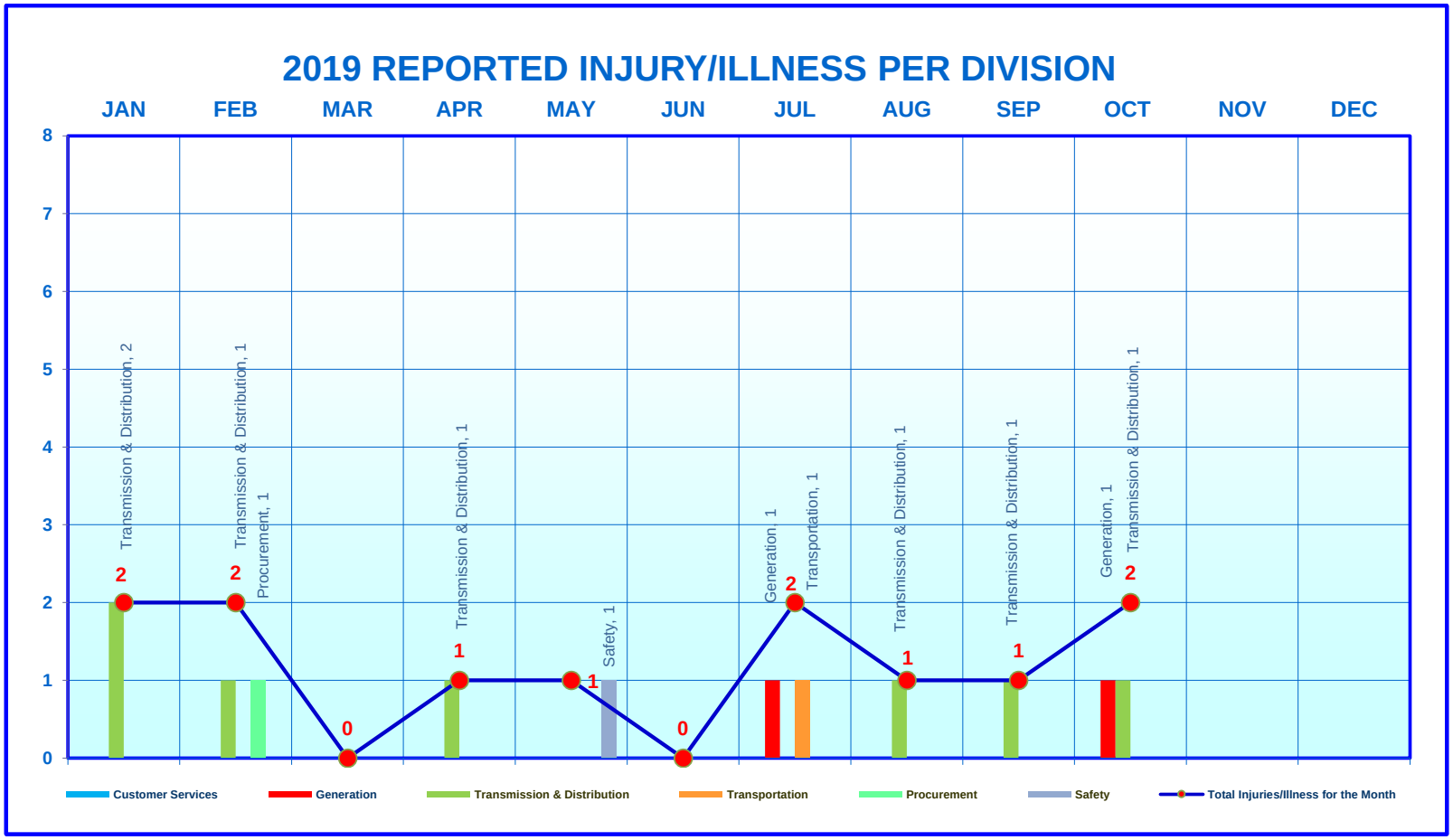
as of 10/31/2019



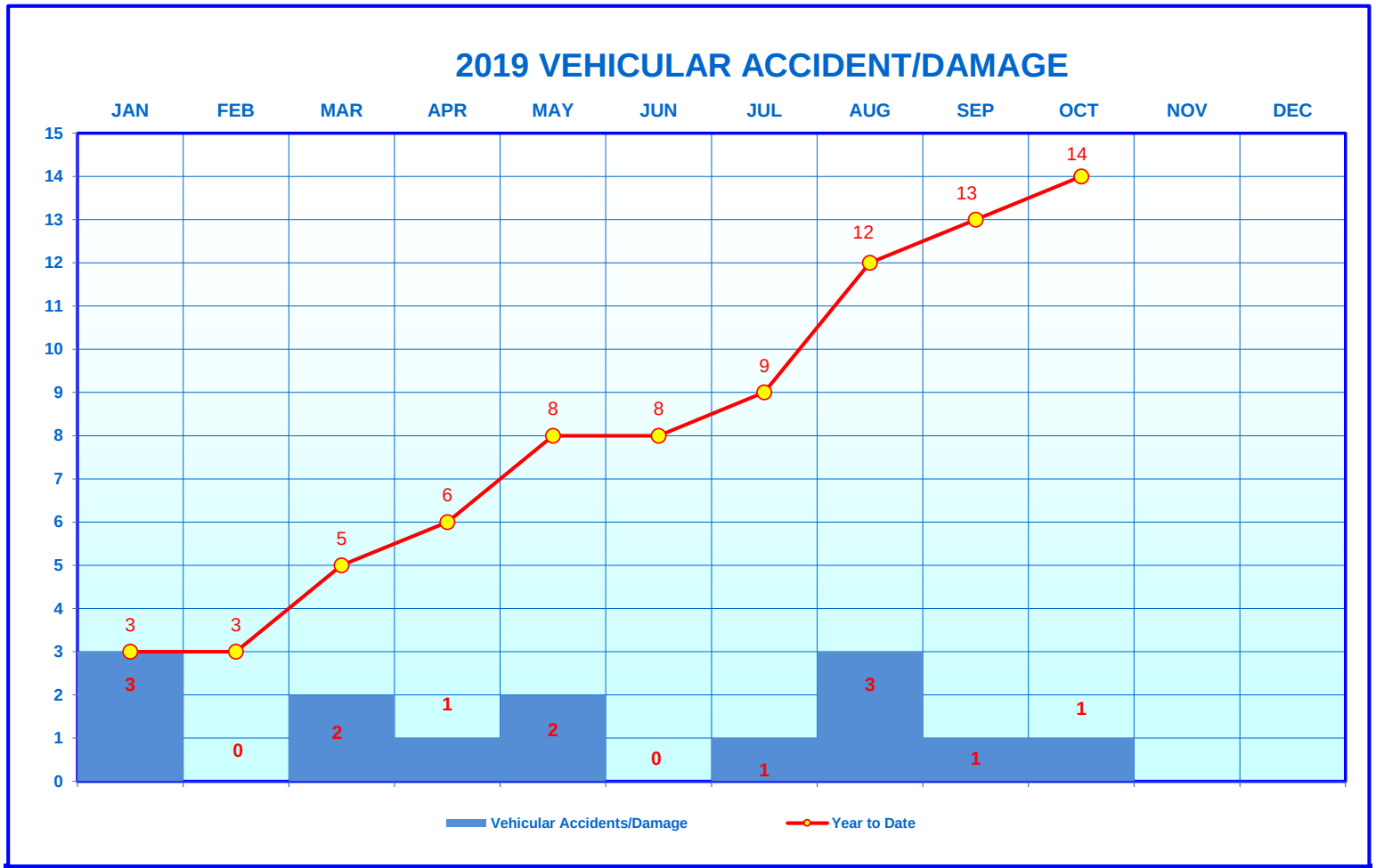
Month	T&D Actuals	Transformer Actuals	Meters
November	10,212,445	1,814,087	445,204
December	8,581,316	1,973,234	452,004
January	7,923,172	2,020,094	430,380
February	8,230,305	2,138,182	405,900
March	8,435,835	1,992,878	397,740
April	9,458,745	2,041,378	332,460
May	10,217,712	1,879,987	325,660
June	10,331,617	2,637,035	277,964
July	10,272,739	1,802,361	268,948
August	10,110,637	1,881,402	190,612
September	9,726,986	1,715,308	214,728
October FY'20	9,725,666	1,835,760	358,344

2019 Incident Rate




2019 REPORTED INJURY/ILLNESS PER DIVISION
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
SEP
OCT
NOV
DEC
0
1
2
3
4
5
6
7
8
Transmission & Distribution, 2
Transmission & Distribution, 1
Procurement, 1
Transmission & Distribution, 1
Safety, 1
Generation, 1
Transportation, 1
Transmission & Distribution, 1
Transmission & Distribution, 1
Generation, 1
Transmission & Distribution, 1
2
2
0
1
1
0
2
1
1
2
Customer Services
Generation
Transmission & Distribution
Transportation
Procurement
Safety
Total Injuries/Illness for the Month

SAFETY DIVISION MONTHLY REPORT



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Vehicular Accidents/Damage	3	0	2	1	2	0	1	3	1	1		
Year to Date	3	3	5	6	8	8	9	12	13	14		

Accidents attributed to Employee fault	2	0	2	0	0	0	0	3	1	0		

GPA Communications/PIO KPI Status

21 November 2019

Ratepayer Newsletter

Overall Status	Risks & Issues	Schedule	Scope	Financial
G	G	G	G	G

Status

1. November "Insights" newsletter content compiled and in circulation;
2. Standard features of recipe, Veterans Graphic inclusion for newsletter content;
3. Featured Ukudu Power Plant and Smart Energy Provider feature articles

Accomplishments

1. Completed November *Insights* Ratepayer Newsletter
2. December issue planning; will meet deadline

Risks and Issues	Resolution
1. None to report;	

Financial	
Budgeted for FY20	

Legend:

No corrective action required

Near-term corrective action required

Requires immediate attention

2019 Annual Report Project

Overall Status	G	Risks & Issues	G	Schedule	G	Scope	G	Financial	G

Status

1. FY2019 Specifications in progress; Quotes/Bids to be compiled
2. Inclusion of Citizens Centric Report on project bid;
3. Drafting of GM/Chairman/Administration Letter ongoing;
4. Request for Division accomplishments to be distributed.

Accomplishments

1. None to report; targeting December 2019 for action items;

Risks and Issues	Resolution
1. None to Report	

Financial

None to report	Within Budget	

Legend:

No corrective action required

Near-term corrective action required

Requires immediate attention

New Ukudu Power Plant Outreach

Overall Status	G	Risks & Issues	G	Schedule	G	Scope	G	Financial	G

Status

1. Developing and coordinating outreach of graphics for social media boosting campaign tiles (Facebook);
2. Developing and coordinating POS displays on benefits of new Ukudu Power Plant at Customer Service Fadian and satellite offices.
3. New Ukudu Power Plant Contract Signing Ceremony with KEPCO;
4. Developed New Energy Future Map graphic for GM presentation.

.

Accomplishments

1. Launched outreach campaign on social media (6k reached); and timely POS displays;
2. Successful media coverage of signing ceremony

Risks and Issues	Resolution
1. None to report	

Financial		
Within budget		

Legend:

No corrective action required

Near-term corrective action required

Requires immediate attention

LED Project Outreach

Overall Status	Risks & Issues	Schedule	Scope	Financial
G	G	G	G	G

Status

1. Developed and Coordinated LED Outreach Campaign to raise awareness on project benefits via boosted social media medium on Facebook;
2. Developed and Coordinated LED benefits outreach with distribution of LED lights for Halloween to promote project as collateral giveaway;

Accomplishments

1. Facebook boost campaign for month of September through October;
2. Distributed LED lightbulbs at Customer Service Business and satellite offices

Risks and Issues

1. None to report;

Resolution

Financial

Budget support for promotional collaterals

Legend:

No corrective action required

Near-term corrective action required

Requires immediate attention

Live Streaming of CCU Meetings & Work Sessions

Overall Status	Risks & Issues	Schedule	Scope	Financial
G	G	G	G	G

Status

1. Completion of AV Control Room construction.
2. Inventory and installation of equipment completed;
3. Ongoing testing of systems in progress;
4. Training of in-house staff being coordinated and ongoing;

Accomplishments

1. AV Control Room and equipment installation completed.

Risks and Issues	Resolution
1. None to report at this time	

Financial	
Funding with IT Division & GWA for audio & video equipment expected; Amendment to PO to include training on equipment;	

Legend:

No corrective action required

Near-term corrective action required

Requires immediate attention

Public Event Outreach Initiatives

Overall Status	Risks & Issues	Schedule	Scope	Financial
G	G	G	G	G

Status

1. Teen Life Expo Event Coordination and sponsorship with HR Division to promote apprenticeship program to island youths;

Accomplishments

Successful promotion of apprenticeship program in partnership with HR Division

Risks and Issues	Resolution
1. None to report at this time	

Financial	
None to report	

Legend:

No corrective action required

Near-term corrective action required

Requires immediate attention

Tumon Bay Underground Project

Overall Status	Risks & Issues	Schedule	Scope	Financial
G	G	G	G	G

Status

1. Developed and Coordinated Tumon UG project outreach with media releases, social media campaign;
2. Developed informational graphic for project areas of Tumon

Accomplishments

1. Successful media coverage of Tumon UG Project;
2. Posted social media tiles on Facebook page for additional promotion.

Risks and Issues	Resolution
1. None	

Financial	
1. None to report	

Legend:

No corrective action required

Near-term corrective action required

Requires immediate attention

Graphic Projects/Social Media

Overall Status	Risks & Issues	Schedule	Scope	Financial
G	G	G	G	G

Status

1. Veterans Day Graphic Project to promote inclusion of Veterans within GPA workforce on social media and POS displays at Fadian and satellite offices

All graphic projects are produced for social media and web page inclusion.

Accomplishments

1. Veterans Display executed prior to National Holiday; Positive feedback on social media

Risks and Issues	Resolution
1. None to report;	

Financial	
Budgeted for FY19	

Legend:

No corrective action required

Near-term corrective action required

Requires immediate attention

Miscellaneous Activities

Overall Status	G	Risks & Issues	G	Schedule	G	Scope	G	Financial	G

Status

1. GPA Web page redesign work online and updated as necessary
2. Monitoring of CS Business Centers
3. Standard Media Releases for outage and news reporting is on-going;
4. BEST Schools feature article coordination with GDOE;
5. Tree Safety Messages/Graphics with GM for approval
6. Distribution of Promotional Collaterals to employees completed.

Accomplishments

Financial

None to report	

Risks and Issues	Resolution
1. None to report at this time;	

Legend:

No corrective action required

Near-term corrective action required

Requires immediate attention

PLANNING & REGULATORY DIVISION REPORT

The following summarizes P&R's activities for the month of October 2019

INSPECTIONS/MONITORING

- Best Management Practices (BMP) Weekly Inspection/Report – Cabras Power Plant
- Monthly Spill Prevention, Control and Countermeasures (SPCC) Inspection/Report – Cabras Power Plant, Macheche, Dededo, Yigo CT, Talofofo, MDI, Tenjo Diesel, Piti 7 Power Plants, IP&E fuel Farm.
- Reviews monthly Continuous Emissions Monitoring System (CEMS) report and monitors TRC's O & M for Tenjo Diesel. Coordinates Operations and Maintenance with TRC.
- Inspected and trouble shoot RICE MACT monitoring equipment at Tenjo, Talofofo and MDI
- Reviewed TRC annual emission testing reports submitted by TRC
- Emissions and Limits Tracking for GPA and Aggreko Power Plants
    - Monitoring CO and NOx emissions of the Aggreko generators not to exceed the allowable limit.
    - GPA Plants Limits based on Hours and/or Fuel Use

ENIRONMENTAL RESPONSE

- Responded to bucket truck spill in East Agana

NEW POWER PLANT

- Attended conference call between US EPA, Guam EPA, and Ukudu Power Plant Contractors (KepCo, EWP, TG Eng'g) regarding Air Permitting as Minor Source

PROCUREMENT

- Prepared and submitted emergency response bid to procurement
- Prepared and submitted laboratory services bid to procurement
- MSB GPA-007-18 Renewable Energy Resource Phase III –
    - Reviewed and responded questions from bidders
    - Reviewed bid responded to bid protest and request for Information

REPORTING

- Submitted Monthly NSPS report to Guam EPA
- Submitted Fuel Switching Quarterly report to USEPA
- Submitted Quarterly DMR Report (July – September) to US EPA via NetDMR Web Application

STATE IMPLEMENTATION PLAN (SIP)

- Had conference calls and meetings with Guam EPA and TRC for finalizing SIP
- Worked with Guam EPA on revisions/editing

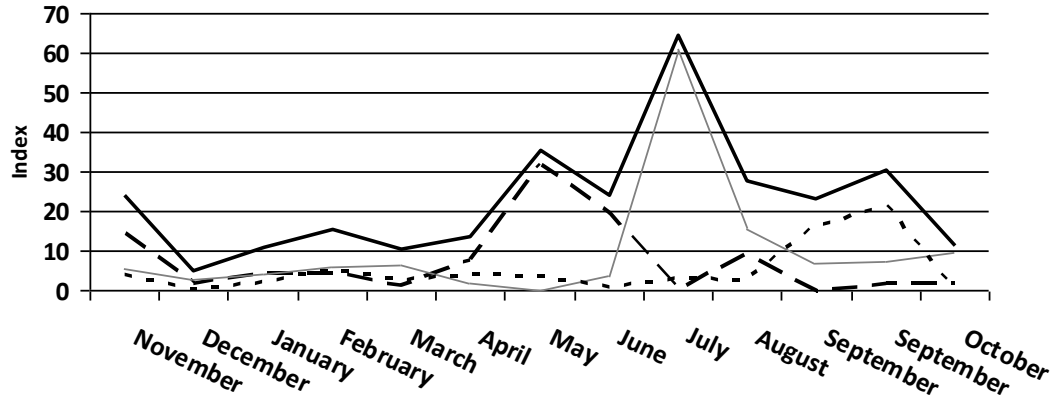
WASTE DISPOSAL

- Battery disposal for computer services

OTHERS

- Emergency Generator for Public Health, Mangilao
    - Reviewed standby generator short form
    - Performed air emissions calculations for Potential to Emit (PTE)
- Performed various emissions calculations and compiled data for AGMETS
    - 2018 GHG Emissions from GPA Power Plants plus MEC
    - CO2 Emissions from GPA vs Rest of Guam
    - Fuel Usage by GPA vs Rest of Guam
- Attended ETS meetings to discuss the Consent Decree (CD) and plan for its impacts
- Attended Marianas Island Contingency Plan (MAICP) at PAG.
- Attended Abandoned Derelict Vehicle (ADV) at PAG.

(Item 1.1,1.2,1.5) October 2019 SAIDI = 296.33 ↓ (300.44)



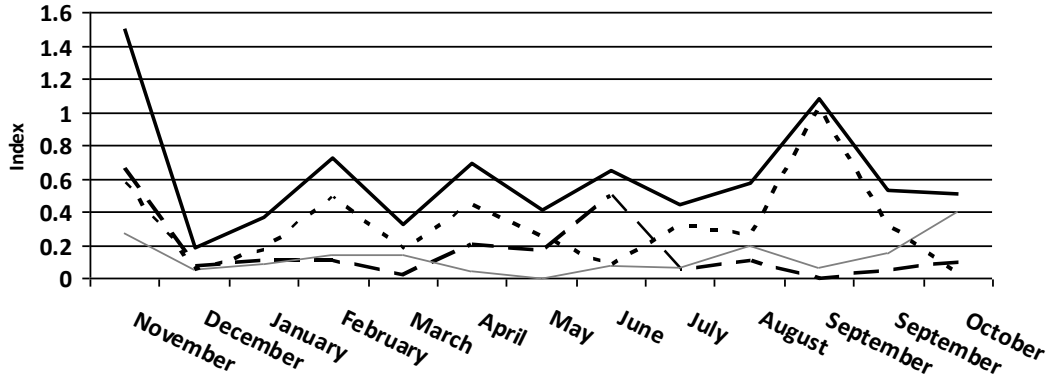
ALL

GEN=67.52 ↓ (70.10)

TRANS=99.08 ↓ (101.81)

DIST=129.73 ↑ (128.53)

(Item 1.1,1.2,1.5) October 2019 SAIFI = 7.98 ↓ (8.13)



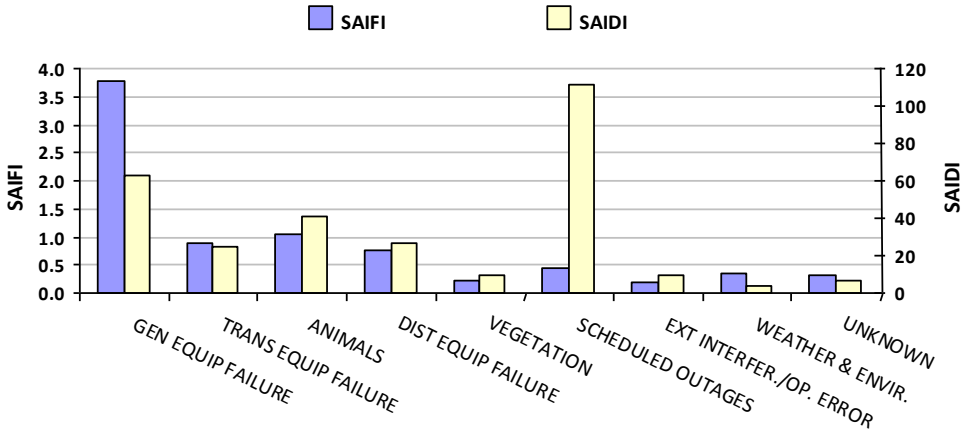
ALL

GEN=4.16 ↓ (4.53)

TRANS=2.14 ↓ (2.15)

DIST=1.67 ↑ (1.46)

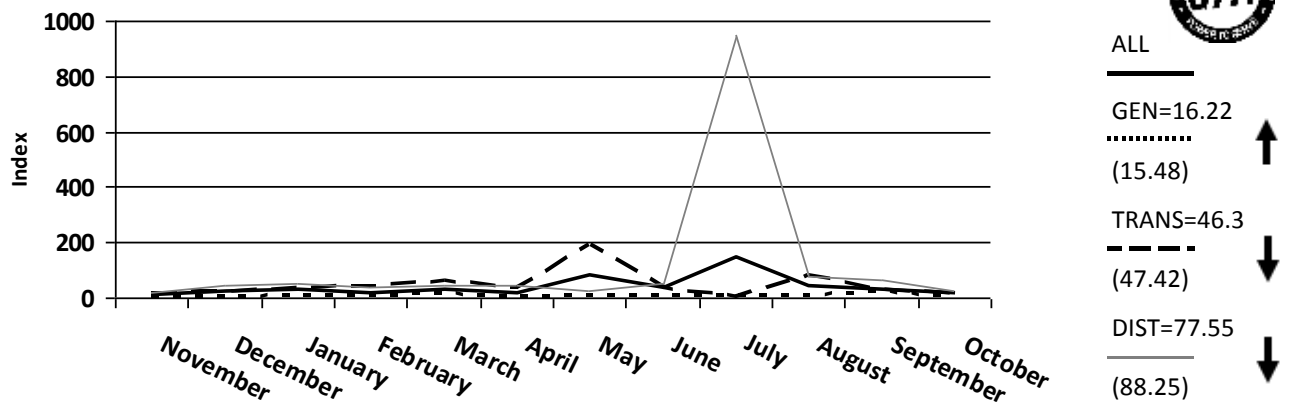
(Item 1.9) 12-Month Cause Contributions to Reliability



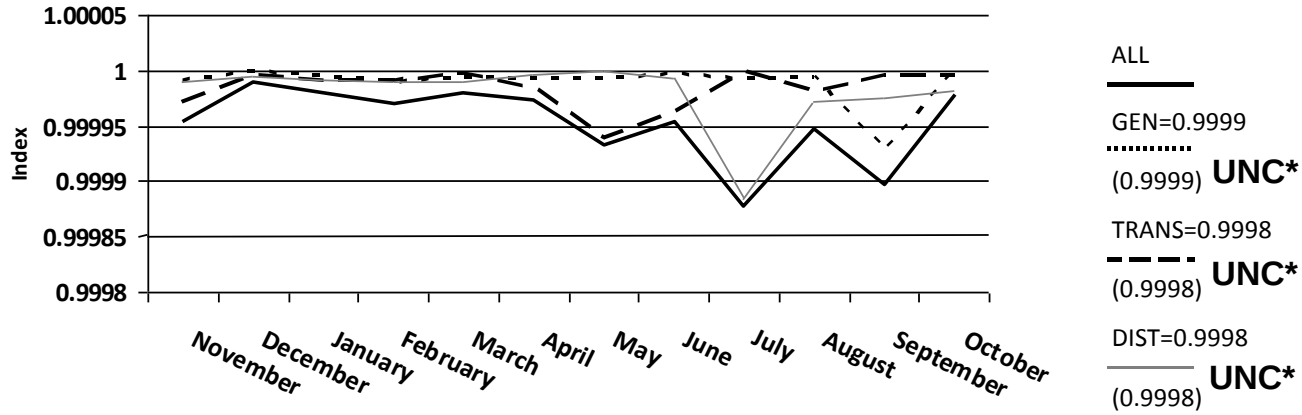
GEN EQUIP FAILURE
F:47.6% D:21.2%
TRANS EQUIP FAILURE
F:10.3% D:8.3%
ANIMALS
F:12.7% D:13.9%
DIST EQUIP FAILURE
F:9.0% D:9.0%
VEGETATION
F:3.1% D:3.3%
SCHEDULED OUTAGES
F:6.3% D:37.4%
EXT INTERFER./OP. ERROR
F:2.6% D:3.2%
WEATHER & ENVIR.
F:5.0% D:1.4%
UNKNOWN
F:3.5% D:2.3%

As of October 31, 2019

(Item 1.1,1.2,1.5) October 2019 CAIDI = 37.16 ↑ (36.95)



(Item 1.1,1.2,1.5) October 2019 ASAI = 0.9994 UNC* (0.9994)



(Item 1.4) Top 5 Worst Feeders Distribution Causes

#	Feeder	Outage Count
1	P261	10
2	P294	9
3	P280	7
4	P260	5
5	P262	5

(Item 1.4) Top 5 Distribution Outage Causes

#	Outage Cause	Count
1	Overhead Equipment	32
2	Wind	16
3	Vegetation	15
4	Substation Equipment	12
5	Snakes	8

(Item 1.3) Outage Count

TOTAL	UFLS	Non-UFLS
593	361	232

(Item 1.3) UFLS Contribution to Reliability

SAIDI	SAIFI	CAIDI
82.94	5.17	16.05

UNC* - Unchanged

As of October 31, 2019

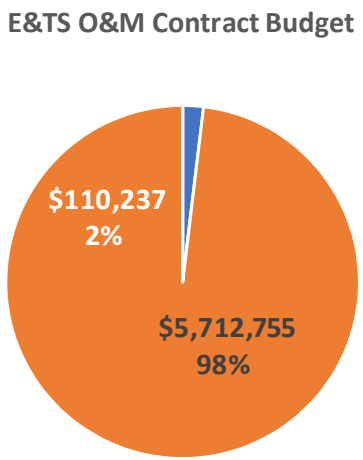
E&TS Divisional Report Summary

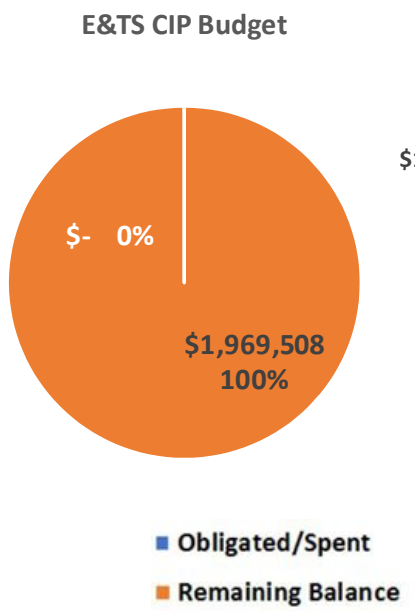
October 14, 2019

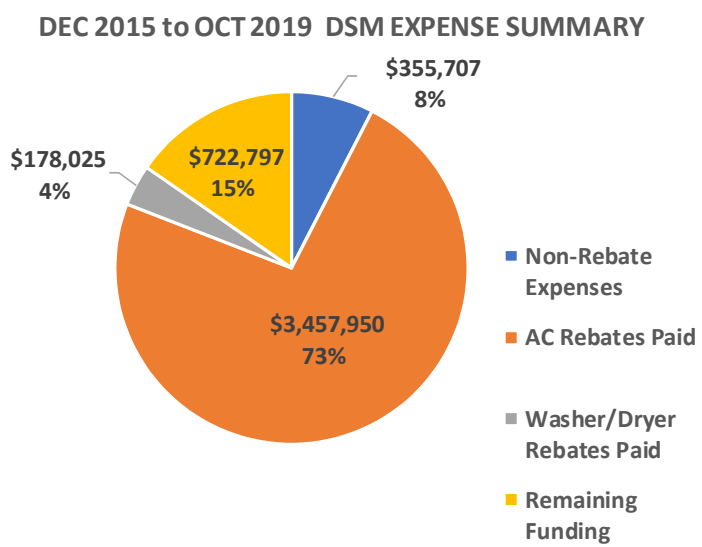
Contents

- E&TS Budget Execution Performance
  - O&M Contract Budget
  - CIP Budget
  - DSM Budget
- Environmental Compliance (SPCC and BMP Inspections)

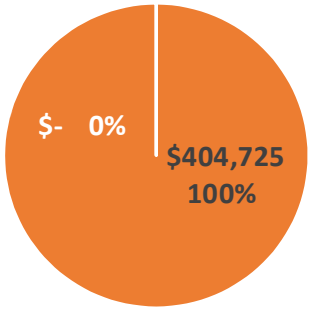
E&TS Budget Execution Performance



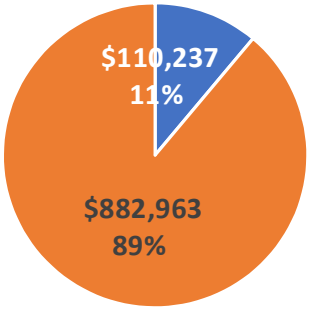




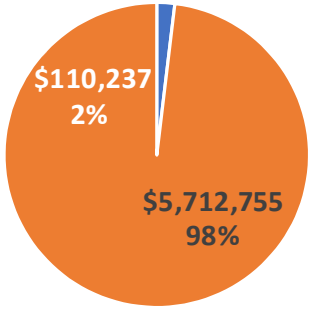
ENG O&M Contract Budget



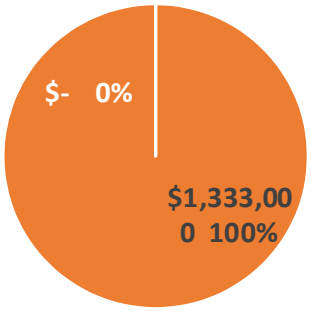
SPORD O&M Contract Budget



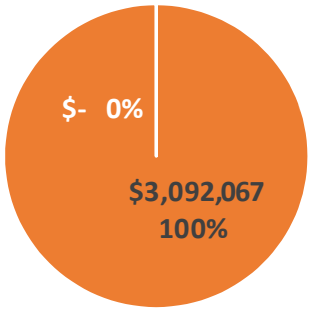
E&TS O&M Contract Budget



P&R O&M Contract Budget

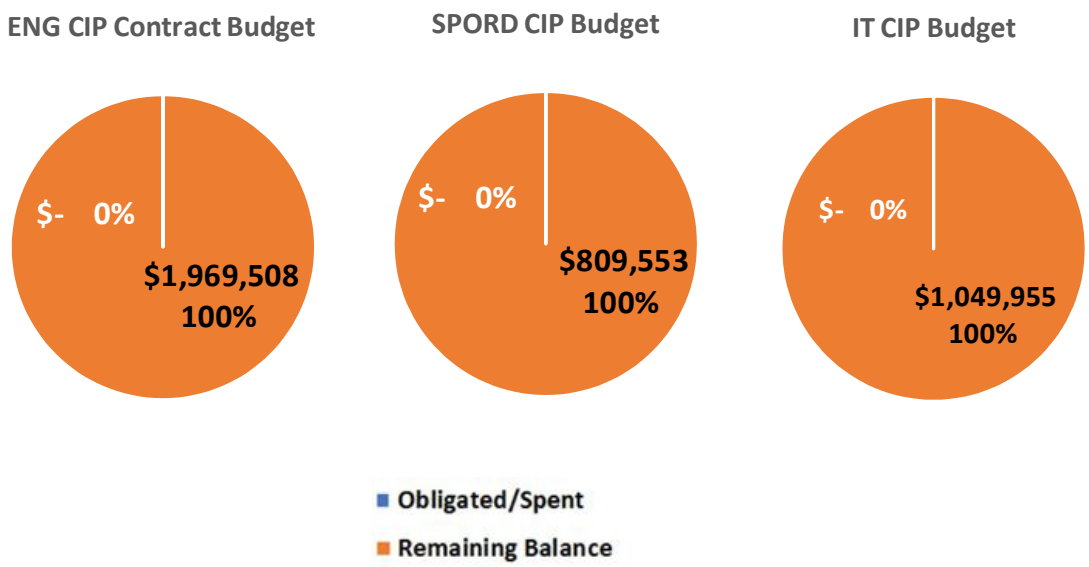


IT O&M Contract Budget



Obligated/Spent

Remaining Balance


ENG CIP Contract Budget
$- 0%
$1,969,508
100%
SPORD CIP Budget
$- 0%
$809,553
100%
IT CIP Budget
$- 0%
$1,049,955
100%
Obligated/Spent
Remaining Balance

FY 2019 Procurement Status

Business Unit	Current Type					Current Status			Planned			
	RFP	Bid	Multistep Bid	Total	Resolicited	QBL Established	Evaluation Completed	Award/NTP	RFP	Bid	Multistep Bid	Total
SPORD			1	1			6	2	2		6	8
Engineering	3	24		27			7	7	2	10		12
SPORD/Engineering				0								0
IT	3			3			1		3			3
P&R		2	3	5		2	2	0		2		2
Total	**6**	**26**	**4**	**36**	**0**	**2**	**16**	**9**	**7**	**12**	**6**	**25**

Environmental Compliance

P&R Inspections Status Ending September 30, 2019

Inspection Type	Organization Responsibility	Violations Not Remediated	Number
Spill Prevention, Control, and Countermeasure (SPCC)	Generation	New Violation Notifications Issued	1
		Remediations Past Due	14
		Remediations Not Past Due	0
	T&D	New Violation Notifications Issued	2
		Remediations Past Due	1
		Remediations Not Past Due	0
Best Management Practices (BMPs)	Generation	New Violation Notifications Issued	0
		Remediations Past Due	1
		Remediations Not Past Due	0

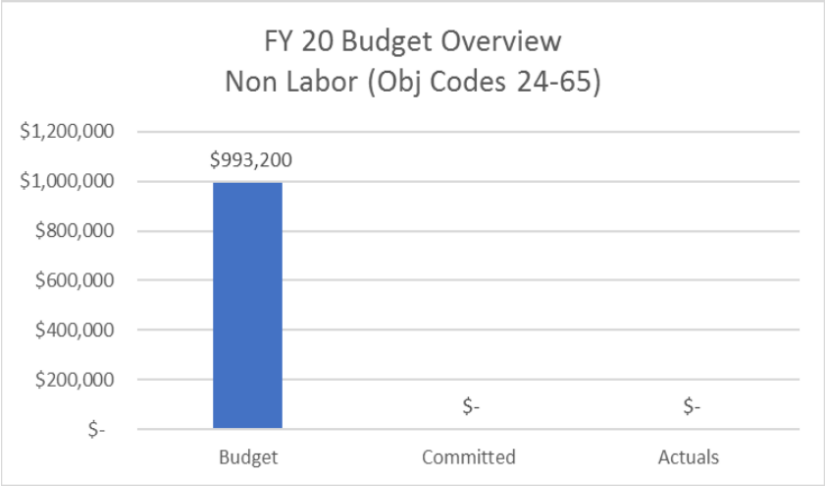
- SPCC rule purpose is to help facilities prevent oil discharges into navigable waters or adjoining shorelines
- BMP refers to a type of auxiliary pollution controls in the fields of industrial wastewater control and municipal sewage control, storm water management, and wetland management

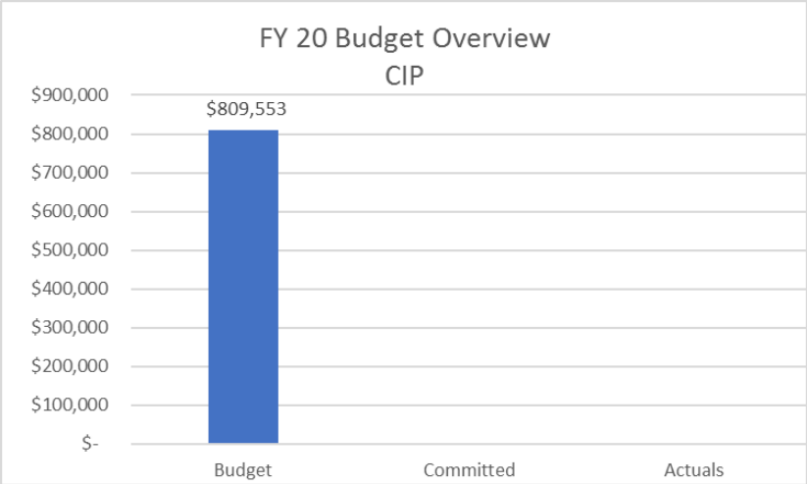
SPORD CCU Report

Update thru October 31, 2019

SPORD FY 2019 Budget Status

thru October 31, 2019





**Excludes DSM & Major Contracts (IPP, PPA, Fuel)*

SPORD FY 2019 Budget Status

- Major Contracts (Non-O&M) thru October 2019

	Budgeted Amount	Committed Amount	Actuals	PO Balance
Aggreko Contract	$ 13,227,886	$ 13,227,886	$ -	$ 13,227,886
Fuel Contracts	$ 270,418,228	$ 157,662,369	$ 4,308,479	$ 153,353,890
MEC IPP (Piti 8&9)	$ 18,446,737	$ 10,314,988	$ -	$ 10,314,988
NRG Contract (Renewable)	$ 10,184,494	$ 10,184,494	$ -	$ 10,184,494

** Since this is first month of FY 20 not all invoices have been received or processed prior to this report.*

SPORD FY 2019 Budget Status

Demand Side Management

Description	FY16	FY17	FY18	FY19	FY20 As of 10/31/19*	Total to Date
Regular/OT Pay	$11,348.80	$22,256.00	$26,121.83	$50,715.19	$414.15	$110,855.97
Other Contractual	$28,278.50	$85,550.05	$116,977.50	$3,025.00	-	$233,831.05
Ads & Radio Announcements	-	-	-	$7,500.00	-	$7,500.00
Paid Rebates-Split AC	$154,700.00	$557,275.00	$1,349,825.00	$1,254,550.00	$119,100.00	$3,435,450.00
Paid Rebates-Central AC	$3,400.00	$8,200.00	$4,400.00	$6,000.00	$500.00	$22,500.00
Paid Rebates-Washer/Dryer	$2,800.00	$7,425.00	$57,200.00	$100,000.00	$10,600.00	$178,025.00
Total Expenses	**$200,527.30**	**$680,706.05**	**$1,554,524.33**	**$1,421,790.19**	**$130,614.15**	**$3,988,162.02**
Bank Interest (+)	$1,676.42	$1,722.74	$1,222.29	$730.05	-	$5,351.50
Bank Fees	$155.00	$1,032.06	$1,085.08	$1,247.54	-	$3,519.68

**Expenses for October 19 are preliminary and may be subject to adjustment during reconciliation process.*

Ongoing Activities

- Contract Performance Management (IPP, Agrekko)
- Generation Fuel Supply & Fuel Farm Management
- DSM Rebate Processing & UESC Program
- Renewables (Wind Turbine Maint & DOAg MOA, GPS Invoicing, Phase II & III Projects)
- New Power Plant Procurement
- Smart Grid/Network Support
- Project Management
  - Procurement
  - *October Project Activities*

PROCUREMENT ACTIVITIES

PENDING AWARD / NTP

Responsible	PROJECT	Description	CCU Date Approved (Resolution No.)	PUC Date Approved (Docket No.)	Projected Start*	Projected Completion	Status
SPORD (RAC)	PLANNING	MV90 Integration Services		*not required*	TBD	TBD	Contract Negotiations
SPORD (LOS)	STUDIES	Power System Analyses and Studies			Nov-19	TBD	Pending Scope & Proposal for initial tasks
SPORD (RAC)	SCADA	DNP3 SA training			TBD	TBD	Price Negotiations Ongoing
SPORD (FJI)	NEW POWER PLANT	Build, Operate & Transfer Contract for 120-180MW of New Generation Capacity.	09/03/19 (2019-13)	Pending	11/1/2019	10/31/2022	CCU approved on 9/3/19. Petition submitted for PUC approval for Oct '19 PUC Meeting.
SPORD (ANF)	FUEL	Supply of Diesel Fuel Oil No. 2	07/23/19 (2019-10)	8/29/19 (Docket 19-12)	1/1/2020	12/31/21 (2 Yr Base)	

PROCUREMENT ACTIVITIES

ONGOING PROCUREMENT

Responsible	PROJECT	Description	Bid or RFP	Bid/RFP No	Announced	Bid Opening / Due	Notes
SPORD (JTL)	RENEWABLES	Renewable Energy Resource Phase III	MS Bid	GPA-007-18	11/16/2017	9/12/2019 (Price)	Notice of lowest bidder issued. Protest filed.
SPORD (MAT)	FUEL / OPERATIONS	Handling and Hauling of GPA Used Oil and Supply of GPA Used Oil Meeting GPA Specifications	MS Bid	GPA-118-18	Sep-18	12/31/2019	Further extensions, to accommodate deadline for Taskforce Report which may potentially impact bid requirements.
SPORD (RAC)	STUDIES	Consulting Services for Distribution Study using Smart Grid Analytics	RFP	RE-SOLICITATION RFP-19-002	Feb-19	3/28/2019	Price Negotiations
SPORD (RAC)	Tier 2 Network	ABB TropOs Network Services	RFP	GPA-RFP-19-010	Jul-19	TBD	Price Negotiations

DEVELOPING PROCUREMENT

Responsible	PROJECT	Description	Bid or RFP	Projected Start	Projected Completion	Status	
SPORD (MAT)	SPORD Software	Planning & Optimization Software	RFP	RFP-19-004		TBD	Finalizing bid requirements & may change from RFP to IFB.
SPORD (RAC)	ELECTRIC VEHICLE	Electric Vehicle Infrastructure	RFP	Oct-19	Jun-20	Developing Requirements (hold)	
SPORD (ANF/MAT)	FUEL	GPA Bulk Fuel Storage Facility PMC	Bid	FY2020	Jun-20	Developing Specifications to convert to PMC	
SPORD (ANF)	FUEL	Bulk ULSD Supply	Re- Bid	FY2020	Feb-20	Developing/revising specifications	
SPORD (ANF)	FUEL	WSD ULSD Supply	Re- Bid	FY2020	Mar-20	Developing/revising specifications	
SPORD (ANF)	FUEL	Petroleum Testing Services	Re- Bid	Nov-19	Mar-20	Developing/revising specifications	
SPORD (MAT)	RENEWABLES	Phase IV Renewable Resource Acquisition	(TBD)	Jan-20	Dec-20	Developing Scope of Work & Bid Documents	
SPORD (MAT)	OPERATIONS	Cabras 1&2 PMC	(TBD)	Nov-19	Sep-20	Under review & pending approval from GPA Executive Management	

PROJECT ACTIVITIES – October 2019

No.	Project Description	October 2019 Activities	Status / Est. Completion	RFP/Bid No
1	Energy Storage System (Phase I)	Final design completed. Clearing and grading permit work commenced in November 2017. Foundation permit work commenced in January 2018. Construction is 93% completed.	Talofofo - Jan 2020, Agana - Jan 2020	MS Bid GPA-082-15
2	Renewable Energy Resource Phase II	Completed review of Hanwha's interconnection design drawings (60%).	KEPCO PV plant COD is extended to January 21, 2022. Hanwha's COD is also extended to Aug 22, 2022.	MS Bid GPA-070-16
3	New Power Plant Bid (EPCM)	PUC approved ECA on October 31. Contract signing ceremony scheduled for November 5.	Projected Award (2019 Q3) COD (2022 Q2)	MS GPA-034-18
4	DSM Marketing	No additional activities funded for remaining of the year.	Continuous	
5	DSM Rebate Program	Processed about **430** applications for rebates totaling ~ $**130**k	Continuous	
6	Wireless Network Expansion	Commenced Southern Expansion in collaboration with GWA: 30% Router Equiqment and Accessories purchase Preparing next router order and installation documents	Dec-19 Dec 2019 Dec 2019	GPA-019-18
7	Electric Grid Analysis Software	Training on Planning and Analysis Cases	Jan-20	GPA-064-16
8	GDOE BEST Schools	**Pilot Project: Carbullido Elementary School & Lighting Grant Project:** **-** Carbullido 90% complete - BERT Energy Management System testing in Progress **Southern High and George Washington High** - retrofit activities 90% complete as of end of July - Audit check walk-throughs for Southern HS 70% complete,for George Washington HS 30% complete.	**Lighting Installations:** **Southern HS: 08/09/2019** **GWHS:** 08/04/2019 **Layouts, Audit Check & Substantial Completion:** 08/31/2019 **Close-Out:** 09/30/2019	GPA-RFP-16-013

No.	Project Description	October 2019 Activities	Status / Est. Completion	RFP/Bid No
9	Supervisory Control and Data Acquisition (SCADA) System	Project Substantially completed	Feb 2019 (Punchlist items by Nov 2019)	GPA-066-16
10	Mobile Workforce Management System	Design completed October 2019	Mar-20	GPA-RFP-18-013
11	Consulting Services for Smart Grid Analytics Enabled Distribution System Planning, Technical, and Economic Feasibility Studies	Price Negotiations	Dec 2019 (Contract Award)	RE-SOLICITATION GPA-RFP-19-002
12	MEC Piti &8 and #9 - ECA Extension	Contract Extension commenced 12:00 Noon January 29, 2019. (No issues) Reviewing Recapitalization Projects completed and in-progress. Possible project adjustments.	IN PROGRESS	
13	Cabars 1&2 PMC	Contract Extension expires 9/30/2020. Bid documents completed, under review & pending approval from GPA Executive Management. Will schedule for CCU and PUC Filing.	IN PROGRESS	
14	EV Infrastructure	Fast charge station scope for Mangilao offices. Developing fast charge station scope for Mangilao offices.	6/1/2020	
15	Renewable Energy Resource Phase III	Notice of Award sent to most qualified bidder w/ lowest cost. Undergoing Protest Period, commencing discussions week of Nov. 12.	12/31/2019	GPA-007-18
16	Utility Energy Services Contract (UESC)	Continued work with GDOE on Best Schools Program (Grant & Pilot) Continued discussions with Navy, KenCorp, Bank of Guam, UOG on potential scope.	Ongoing	
17	IFB for RFO Supply to Baseload Plants	Completed. 2-year Contract to commence on Dec 1, 2018 and will expire on August 31, 2020 with 3-1 year extention options	Completed	IFB GPA-009-18
18	GPA Fuel Farm RFO Pipeline Repair & Upgrade	c/o Engineering Project Mgt.	Project Implementation in progress. Estimated completion: FY 2019	IFB GPA-047-18
19	GPA Fuel Farm ULSD Pipeline Upgrade	c/o Engineering Project Mgt. Solicitation for Contractor(s) services in progress. Recommendation for award approved by CCU & PUC. For Final processing by Procurement.	Project Timeline: Estimated Start: October 2019 Est. Completion: Feb 2020	IFB GPA-027-19

No.	Project Description	October 2019 Activities	Status / Est. Completion	RFP/Bid No
20	Tk 1934 & Tk1935 API 653 Internal Inspection	c/o Engineering Project Mgt. Solicitation for Contractor(s) services in progress. Recommendation for award approved by CCU & PUC. For Final processing by Procurement.	Project Timeline: Estimated Start: Oct 2019 Est. Completion: Feb 2022	IFB GPA-028-19
21	Milsoft Systems Software Services	Engineering Analysis Training -January 2020	Continuous	GPA-RFP-18-003
22	MV90 Integration Services	Contract Negotiations		GPA-RFP-18-001
23	Grant Support	Continued grant development and execution. Initiated Kickoff meeting for project start in July. 1. Execution of GW & Southern HS Lighting Retrofit with Siemens (UESC Partner) 2. Guam Energy Office EnergySmart School Grant finalizing scope and MOU 3. Development & Submittal of USDA Revolving Loan Grant 4. Development & Submittal for Dept of Interior Energizing Insular Communities (EIC) Grant. 14 proposals submitted July 31, deadline	1) Close out: 09/30/19 2) GEO MOA Finalize: Sept '19 Grant Scope Completion: Dec. '20 3) Pending announcement 4) September 2019 (Award Announcement)	
24	Redesignation of Cabras-Piti / Guam	Re-designation received 12/2018. SIP Draft sent to Guam EPA week of 10/21/2019. Discussions with Guam EPA and TRC on-going.	Start: October 2011 Est. Completion: April 2020 *Submitted to EPA week of Oct. 21, 2019. Expecting final response from US EPA RIX on or before April 20, 2020.	RFP-11-001
25	GPA Fuel Farm- OWS Upgrading	c/o Engineering Project Mgt. Scope included in Tk 1934 & Tk1935 API 653 Internal Inspection and repair. Recommendation for award approved by CCU & PUC. For Final processing by Procurement.	Project Timeline: Estimated Start: Oct 2019 Est. Completion: Feb 2022	IFB GPA-028-19
26	GPA Fuel Farm- LD System Upgrading	c/o Engineering Project Mgt. Scope included in Tk 1934 & Tk1935 API 653 Internal Inspection and repair. Recommendation for award approved by CCU & PUC. For Final processing by Procurement.	Project Timeline: Estimated Start: Oct 2019 Est. Completion: Feb 2022	IFB GPA-028-19
27	MSB for Supply of Reprocessed Waste Oil Meeting GPA's ULSD Specifications	Multi-step Bid for the Supply of Reprocessed Waste Oil Meeting GPA's ULSD Specifications. Supplier will haul Waste Oil from GPA WOF, reprocess waste oil to meet GPA's ULSD Specifications, and supply to designated GPA Power Plants	Announced : Sept 19 2018 Est. Award: December 2019	MS GPA-118-18

No.	Project Description	October 2019 Activities	Status / Est. Completion	RFP/Bid No
28	Integrated Resource Plan	Initial discussions with consultant for resource options support.	9/20/2020	GPA-RFP-17-002
29	Energy Storage Development Support	Consultant preparing proposal for third-party commissioning services	Sept/Oct 2019	GPA-RFP-13-007
30	Wind Turbine Maintenance Supervision and Materials	Consultant to supervise turbine repairs & replacement parts.	Estimated Start: TBD Est. Completion: TBD	Sole Source
31	Planning Software Contract	Procurement of Planning Software, including installation, design, implemenation, training and consulting services. No bids received. Finalizing change to bid specifications & may change from RFP to IFB.	TBD	RFP-19-004
32	Strategic Planning	On-going discussions for final & detailed SOW with consultant. (c/o Finance Contract w/ Mark Beauchamp)	Estimated Start: TBD Est. Completion: TBD	
33	Power System Analyses and Studies	S&C selected as most qualified proponent. Pending contract finalization.	Estimated Start: Nov 2019 Est. Completion: TBD	

CCU Report- DSM

As of October, 2019

All Expenses – Fiscal Year

Description	FY16	FY17	FY18	FY19	FY20 As of 10/31/19*	Total to Date
Regular/OT Pay	$11,348.80	$22,256.00	$26,121.83	$50,715.19	$414.15	$110,855.97
Other Contractual	$28,278.50	$85,550.05	$116,977.50	$3,025.00	-	$233,831.05
Ads & Radio Announcements	-	-	-	$7,500.00	-	$7,500.00
Paid Rebates-Split AC	$154,700.00	$557,275.00	$1,349,825.00	$1,254,550.00	$119,100.00	$3,435,450.00
Paid Rebates-Central AC	$3,400.00	$8,200.00	$4,400.00	$6,000.00	$500.00	$22,500.00
Paid Rebates-Washer/Dryer	$2,800.00	$7,425.00	$57,200.00	$100,000.00	$10,600.00	$178,025.00
Total Expenses	**$200,527.30**	**$680,706.05**	**$1,554,524.33**	**$1,421,790.19**	**$130,614.15**	**$3,988,162.02**
Bank Interest (+)	$1,676.42	$1,722.74	$1,222.29	$730.05	-	$5,351.50
Bank Fees	$155.00	$1,032.06	$1,085.08	$1,247.54	-	$3,519.68

**Expenses for October 19 are preliminary and may be subject to adjustment during reconciliation process.*

DSM Funding

No.	Description	Amount
1	Initial DSM Budget FY 2016	$1,806,014.00
2	Interest Income as of October, 2019	$5,351.50
3	Bank Fees as of October, 2019	$3,519.68
4	Additional Budget: ▪ Bond Refinance 2017 ▪ Revenue Funds FY2019* ▪ Revenue Funds FY2020	 $1,139,189.00 $910,513.05 $300,000.00
5	Total Expense as of October, 2019	**$3,988,162.02**
	DSM Ending Balance	**$169,385.85**

**FY19 Revenue Fund total is preliminary and subject to adjustment during reconciliation process.*

FY 2017- Rebate Amount Paid Monthly

Month	Total	Split A/C Units	Central A/C Units	Washers/ Dryers
OCT '16	$ 25,250.00	$ 23,450.00	$ 800.00	$ 1,000.00
NOV '16	$ 57,525.00	$ 55,625.00	$ 1,600.00	$ 300.00
DEC '16	$ 19,625.00	$ 18,225.00	$ 800.00	$ 600.00
JAN '17	$ 49,650.00	$ 48,050.00		$ 1,600.00
FEB '17	$ 43,175.00	$ 42,850.00	$ 325.00	
MAR '17	$ 25,550.00	$ 25,875.00	$ (325.00)	
APR '17	$ 33,875.00	$ 30,950.00	$ 800.00	$ 2,125.00
MAY '17	$ 57,675.00	$ 54,275.00	$ 2,400.00	$ 1,000.00
JUN '17	$ 76,175.00	$ 74,675.00	$ 1,300.00	$ 200.00
JUL '17	$ 30,975.00	$ 30,975.00		
AUG '17	$ 69,400.00	$ 69,200.00		$ 200.00
SEP '17	$ 84,025.00	$ 83,125.00	$ 500.00	$ 400.00
TOTALS	$ 572,900.00	$ 557,275.00	$ 8,200.00	$ 7,425.00

FY 2018- Rebate Amount Paid Monthly

Month	Total	Split A/C Units	Central A/C Units	Washers/ Dryers
OCT '17	$186,850.00	$185,850.00	$800.00	$200.00
NOV '17	$41,900.00	$41,700.00		$200.00
DEC '17	$109,875.00	$108,475.00		$1,400.00
JAN '18	$31,175.00	$31,175.00		
FEB '18	$69,825.00	$68,825.00		$1,000.00
MAR '18	$121,100.00	$120,100.00		$1,000.00
APR '18	$99,700.00	$94,400.00	$500.00	$4,800.00
MAY '18	$133,350.00	$127,150.00		$6,200.00
JUN '18	$82,800.00	$77,600.00		$5,200.00
JUL '18	$60,475.00	$56,475.00	$1,000.00	$3,000.00
AUG '18	$139,750.00	$129,650.00	$1,300.00	$8,800.00
SEP '18	$334,625.00	$308,425.00	$800.00	$25,400.00
TOTALS	$1,411,425.00	$1,349,825.00	$4,400.00	$57,200.00

FY 2019- Rebate Amount Paid Monthly

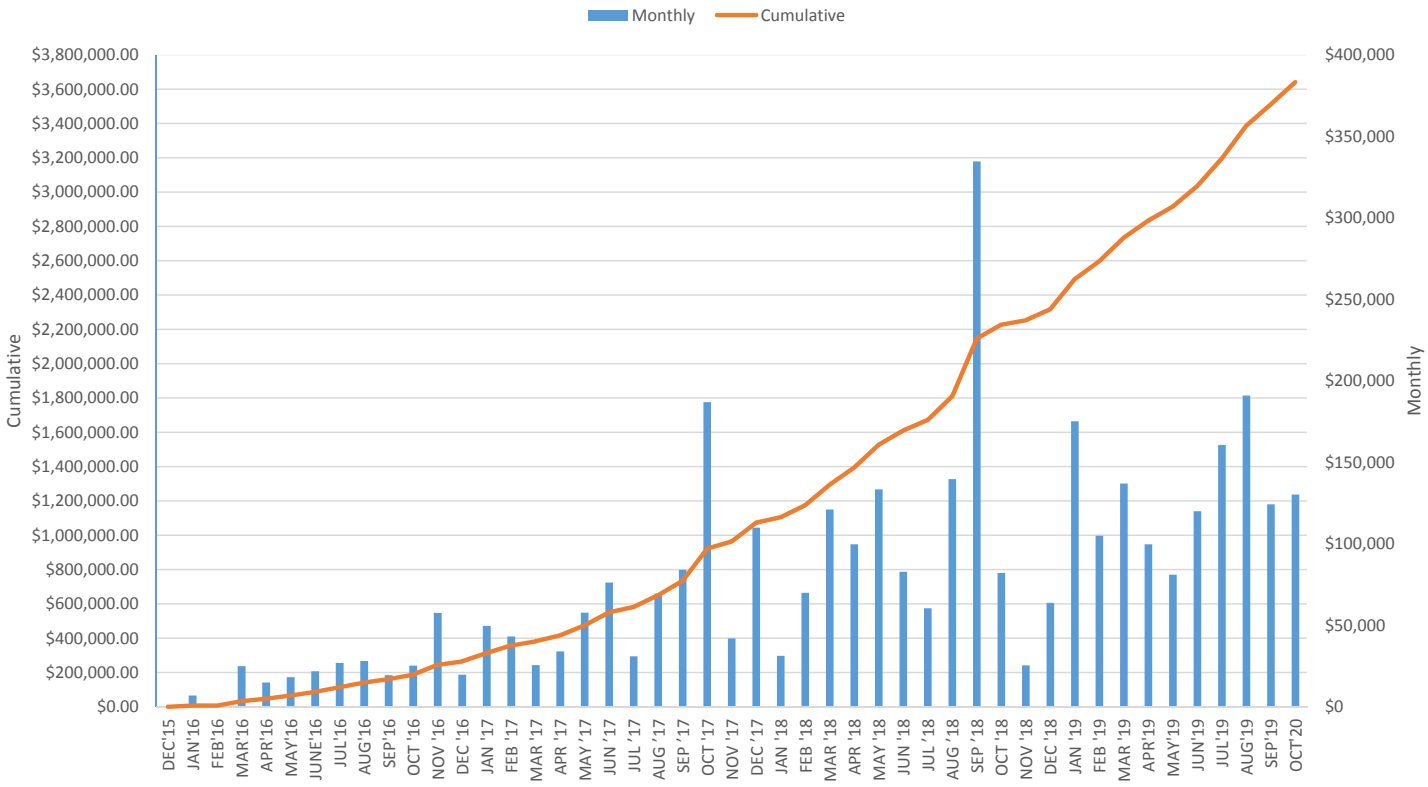
Month	Total	Split A/C Units	Central A/C Units	Washers/ Dryers
OCT '18	$ 82,000.00	$ 75,400.00	$ –	$ 6,600.00
NOV '18	$ 25,425.00	$ 23,425.00	$ –	$ 2,000.00
DEC '18	$ 63,925.00	$ 62,525.00	$ –	$ 1,400.00
JAN '19	$ 175,150.00	$ 158,150.00	$ –	$ 17,000.00
FEB '19	$ 104,925.00	$ 96,125.00	$ –	$ 8,800.00
MAR '19	$ 137,025.00	$ 119,825.00	$ 3,400.00	$ 13,800.00
APR '19	$ 99,650.00	$ 89,250.00	$ –	$ 10,400.00
*	$ (111,225.00)	$ (102,825.00)		$ (8,400.00)
MAY '19	$ 80,950.00	$ 72,950.00	$ –	$ 8,000.00
JUN '19	$ 120,525.00	$ 110,125.00	$ 800.00	$ 9,600.00
JUL '19	$ 162,350.00	$ 152,350.00	$ 800.00	$ 9,200.00
AUG '19	$ 191,175.00	$ 184,075.00	$ 500.00	$ 6,600.00
SEP '19	$ 124,200.00	$ 115,500.00	$ 500.00	$ 8,200.00
TOTALS	$ 1,256,075.00	$ 1,156,875.00	$ 6,000.00	$ 93,200.00

** FY18 Finance Adjustment*

FY 2020- Rebate Amount Paid Monthly

Month	Total	Split A/C Units	Central A/C Units	Washers/ Dryers
OCT '19	$ 130,200.00	$ 119,100.00	$ 500.00	$10,600.00
NOV '19	–	–	–	–
DEC '19	–	–	–	–
JAN '20	–	–	–	–
FEB '20	–	–	–	–
MAR '20	–	–	–	–
APR '20	–	–	–	–
MAY '20	–	–	–	–
JUN '20	–	–	–	–
JUL '20	–	–	–	–
AUG '20	–	–	–	–
SEP '20	–	–	–	–
TOTALS	$ 130,200.00	$ 119,100.00	$ 500.00	$10,600.00

FY'17- FY'20 Rebate Amount Paid



FY 2017- Number of Applications Received By Customer Service and Paid Monthly

Month	Rec'd By CS	Paid By Finance
OCT '16	92	77
NOV '16	68	160
DEC '16	141	54
JAN '17	109	138
FEB '17	92	120
MAR '17	144	84
APR '17	147	104
MAY ’17	215	178
JUN ’17	322	252
JUL ’17	295	105
AUG ’17	339	224
SEP ’17	270	282

FY 2018- Number of Applications Received By Customer Service and Paid Monthly

Month	Rec'd By CS	Paid By Finance
OCT '17	270	576
NOV '17	277	140
DEC ’17	302	360
JAN '18	333	99
FEB '18	289	231
MAR '18	326	380
APR '18	256	325
MAY '18	298	417
JUN '18	353	260
JUL ’18	449	197
AUG ’18	451	445
SEP ’18	343	717

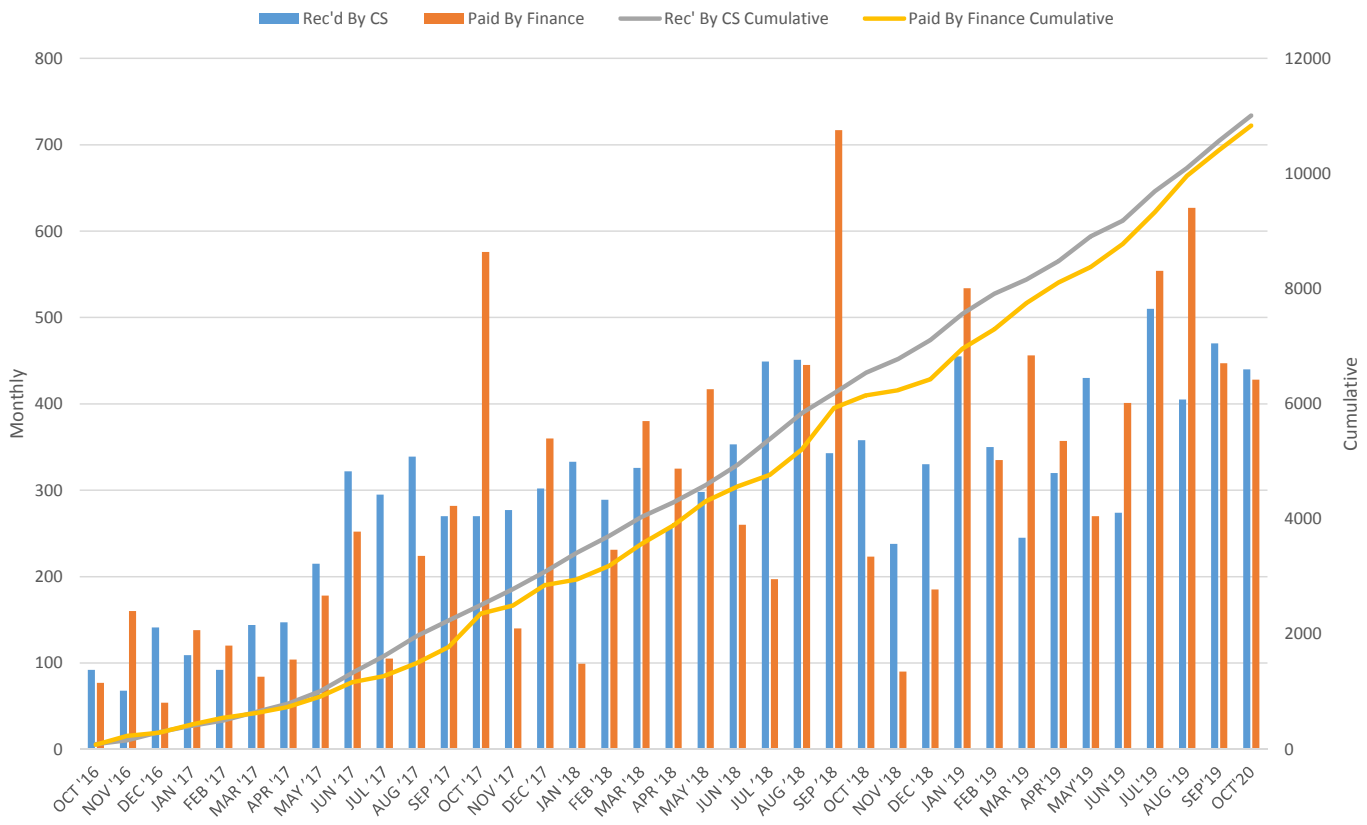
FY 2019 Number of Applications Received By Customer Service and Paid Monthly

Month	Rec'd By CS	Paid By Finance
OCT '18	358	223
NOV '18	238	90
DEC '18	330	185
JAN '19	455	534
FEB '19	350	335
MAR '19	245	456
APR '19	320	357
MAY '19	430	270
JUN '19	274	401
JUL '19	510	554
AUG '19	405	627
SEP '19	470	447

FY 2020 Number of Applications Received By Customer Service and Paid Monthly

Month	Rec'd By CS	Paid By Finance
OCT '19	440	428
NOV '19		
DEC '19		
JAN'20		
FEB '20		
MAR '20		
APR '20		
MAY '20		
JUN '20		
JUL '20		
AUG '20		
SEP '20		

FY'17- FY'20 Number of Applications Received By Customer Service and Paid

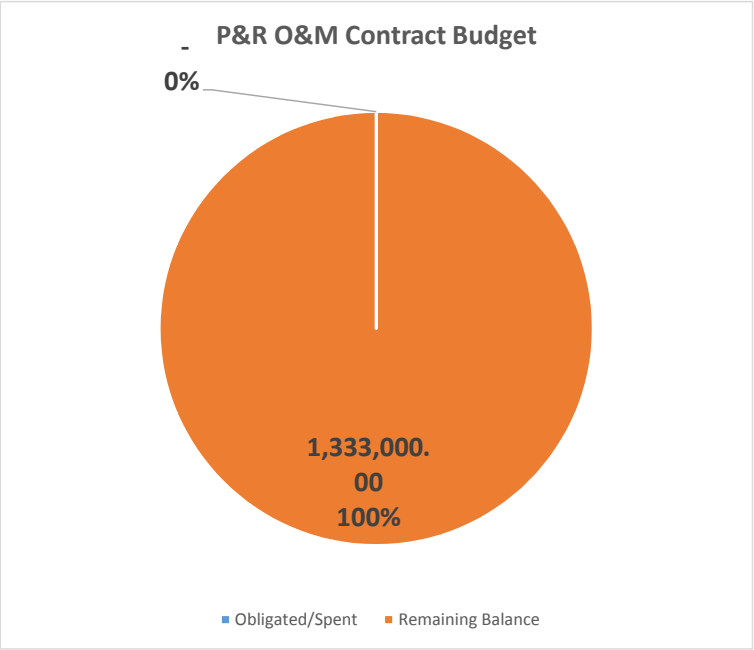


Planning & Regulatory CCU Report

October 31, 2019

Planning & Regulatory O&M Contract Budget

- Revenue Funded
- Target
  - 0.0% O&M Obligation as of October 31, 2019 (Actual)
  - 33% O&M Obligation by December 31, 2019



33

P&R Weekly & Monthly Inspection Reports

- Best Management Practices (BMP) Report Summary [Weekly]
- Generation Spill Prevention, Control, and Countermeasures (SPCC) Report Summary [Monthly]
- T&D Spill Prevention, Control, and Countermeasures (SPCC) Report Summary [Monthly]

- GPA is responsible to employees, the island environment, and the community to take all reasonable steps necessary to prevent spills from its facilities in order to protect human health and the environment

P&R Inspection Report Purpose

- The purpose of these inspections is to catch discrepancies and violations internally and correct them before inspections by Guam EPA and US EPA
- Regulatory Agencies can conduct scheduled or un-scheduled (surprise) inspections any time
- Any major discrepancies or violations cited can lead to issuance of a Notice of Violation (NOV), possible fines, and/or other enforcement action
- P&R conducts routine SPCC inspections in compliance with the requirements of 40CFR 112.7(a)(3)(ii), Discharge Prevention Measures

Weekly BMP Report

WEEKLY BMP REPORT SUMMARY
CABRAS POWER PLANT
MONTH OF OCTOBER 2019

LEGEND OF TRACKING

- Notification Date
- Completed
- Within Scheduled Remediation Period
- Deadline is Past Due

INSPECTOR: LORINA SABANGAN

LOCATION	WE 10/04/19 FINDINGS	WE 10/11/19 FINDINGS	WE 10/18/19 FINDINGS	WE 10/25/19 FINDINGS	WE 11/01/19 FINDINGS	RECOMMENDATION/ REMARKS	INITIAL FINDINGS DATE	DUE DATE	DATE COMPLETED	RESPONSE
Cabras 3&4 Grounds	Rainwater and algae inside drums with waste pads	Rainwater and algae inside drums with waste pads	Rainwater and algae inside drums with waste pads	Rainwater and algae inside drums with waste pads	Rainwater and algae inside drums with waste pads	Remove algae and water and dispose waste pads	10/4/2019	ASAP		
Fuel Pipeline	Corroded supply line	Corrective action completed				Regular/close monitoring is required	10/4/2019	ASAP	10/11/2019	

T&D SPCC Inspection Report

SUMMARY OF SPCC MONTHLY INSPECTION REPORT
MONTH OF OCTOBER, 2019

LEGEND OF TRACKING

- Notification Date
- Completed
- Within Scheduled Remediation
- Deadline is Past Due

SUBSTATIONS

LOCATIONS	FINDINGS		RECOMMENDATION/REMARKS	STATUS	RESPONSIBLE	COMPLETION DATE	DUE DATE	INITIAL FINDINGS DATE
DEDEDO SUBSTATION	*Facility Area*	NO CORRECTIVE ACTION						
DEDEDO SUBSTATION WAREHOUSE	*Facility Area*	NO CORRECTIVE ACTION						
MACHECHE SUBSTATION	*Secondary Containment*	NO CORRECTIVE ACTION						
TALOFOFO SUBSTATION	*Secondary Containment*	Water accumulation in sec. containment	Drain/remove water	Corrective action completed		October 2019	ASAP	July 2019
		Oil sheen in sec. containment	Remove oil sheen before draining water	Corrective action completed		October 2019	ASAP	September 2019
		Algae accumulation in sec. containment	Remove algae	Corrective action completed		October 2019	ASAP	July 2019
		Used absorbent pads in sec. containment	Conduct cleanup	Corrective action completed		October 2019	ASAP	September 2019
		Overgrown grass	Cut the grass				ASAP	October 2019
TENJO SUBSTATION	*Secondary Containment*	Algae accumulation	Conduct cleanup				ASAP	September 2019
	Facility Area	Overgrown grass	Cut the grass				ASAP	October 2019
YIGO SUBSTATION	*Secondary Containment*	NO CORRECTIVE ACTION						

Generation SPCC Inspection Report

SUMMARY OF SPCC MONTHLY INSPECTION REPORT
MONTH OF OCTOBER, 2019

LEGEND OF TRACKING

- Notification Date
- Completed
- Within Scheduled Remediation
- Deadline is Past Due

POWER PLANT

LOCATIONS	FINDINGS		RECOMMENDATION/REMARKS	STATUS	RESPONSIBLE	COMPLETION DATE	DUE DATE	INITIAL FINDINGS DATE
CABRAS POWER PLANT	*Secondary Containment Day Tank #2*	Exposed, worn-out insulation	Repair/replace insulation	Corrective action completed		October 2019	ASAP	August 2019
		Leaking filter drain valve	Verify/repair filter drain valve	Corrective action completed		October 2019	ASAP	August 2019
		Water leaking on steam trap	Verify/repair steam trap				ASAP	August 2019
	LS & HS Service Tanks	Rainwater and algae in sec. containment	Drain and remove algae				ASAP	August 2019
	Waste Oil Tank	Corroded railings	Repair/replace railings				ASAP	September 2019
		Drums with waste pads inside	Store in proper storage area	Corrective action completed		October 2019	ASAP	September 2019
		Rainwater accumulation & loading/unloading area	Drain water	Corrective action completed		October 2019	ASAP	September 2019
	Supply line 8" from the tank farm	No secondary containment	Regular monitoring is requred				ASAP	September 2019
	PSST Tank	Algae and oil leaking	Remove algae and repair lines				ASAP	October 2019
DEDEDO CT	*Raw Fuel Tank*	Heavily corroded 2" fuel line	Conduct repair				ASAP	May 2019

38

Generation SPCC Inspection Report (cont.)

SUMMARY OF SPCC MONTHLY INSPECTION REPORT
MONTH OF OCTOBER, 2019

LEGEND OF TRACKING

- Notification Date
- Completed
- Within Scheduled Remediation
- Deadline is Past Due

POWER PLANT

MACHECHE CT	Facility Area	Corroded tank shells at T-130/140	Chip corrosion and recoat				ASAP	October 2015
		Level gauge is not working (Tank 140)	Fix level gauge				ASAP	April 2019
		Improper storage of HCl	Store in proper chemical storage	Corrective action completed		October 2019	ASAP	June 2019
YIGO CT	Tanks 130 and 140	Corroded tank shells	Chip corrosion & recoat tanks				ASAP	February 2019
	Secondary Containment Trench	Algae, weeds accumulation	Conduct cleanup	Corrective action completed		October 2019	ASAP	November 2018
	Tank 120	Corroded drain line pipe	Chip corrosion and recoat				ASAP	April 2019
	Drums Storage Area	Corroded oil drums stored in drum storage area	Frequently monitor drums and use oil ASAP				ASAP	March 2019
	Secondary Containment	Water inside OWS	Drain water				ASAP	August 2019
MANENGGON DIESEL	Pipeline	Corroded fuel supply pipeline	Chip corrosion & recoat				ASAP	July 2019
	Secondary Containment	Water accumulation	Drain water	Corrective action completed		October 2019	ASAP	September 2019
		Algae & dried leaves in secondary containment	Conduct cleanup	Corrective action completed		October 2019	ASAP	July 2019
TALOFOFO DIESEL	Facility Area	Fuel tank coating is peeling off	Coating discrepancies must be corrected to prevent corrosion damage	Corrective action completed		October 2019	ASAP	August 2019

Generation SPCC Inspection Report (cont.)

SUMMARY OF SPCC MONTHLY INSPECTION REPORT
MONTH OF OCTOBER, 2019

LEGEND OF TRACKING

- Notification Date
- Completed
- Within Scheduled Remediation
- Deadline is Past Due

POWER PLANT

TENJO DIESEL	Facility Area	Corroded tank shell	Chip corrosion & recoat	Corrective action completed		October 2019	ASAP	July 2019
		Corroded supply pipe	Chip corrosion & recoat				ASAP	July 2019
PITI #7	Main Fuel Tank	Corrosion forming under pipes and pipe support	Chip corrosion and recoat	Corrective action completed		October 2019	ASAP	October 2018
	Old Piti Power plant structure	Improper storage of drums and wood pallets	Move or dispose drums and wood pallets				ASAP	May 2019

GPA INFORMATION TECHNOLOGY
OCTOBER 2019

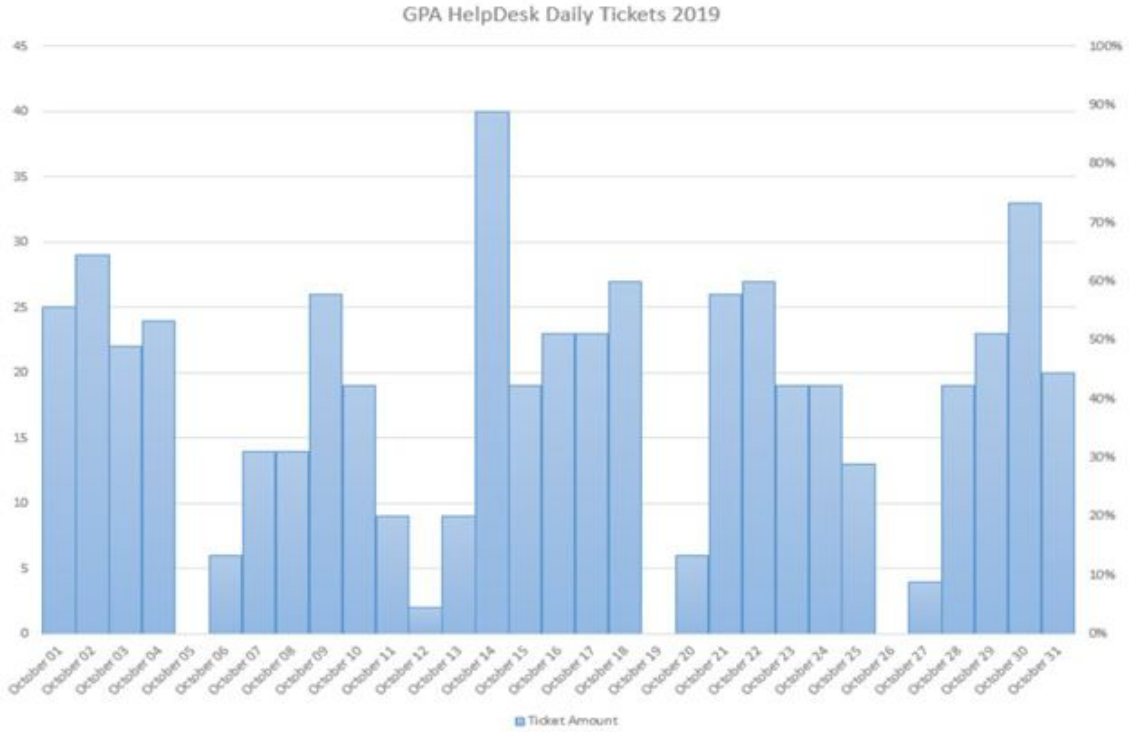
SUMMARY:

The Information Technology Department continues to improve services, monitoring processes and system infrastructure utilization as guided by Cyber-Security initiatives and regulatory compliance. We strive and continue to improve all areas. Computer Services continues to seek new technology with networking, system access and utilization. We also strive to meet target levels of uptime, to include the IBM i-Series AS400, Virtual Machine environment, (VMware V-Sphere), (Blade Servers and Disk Array Storage), and Physical Servers, (non-Virtual Machines).

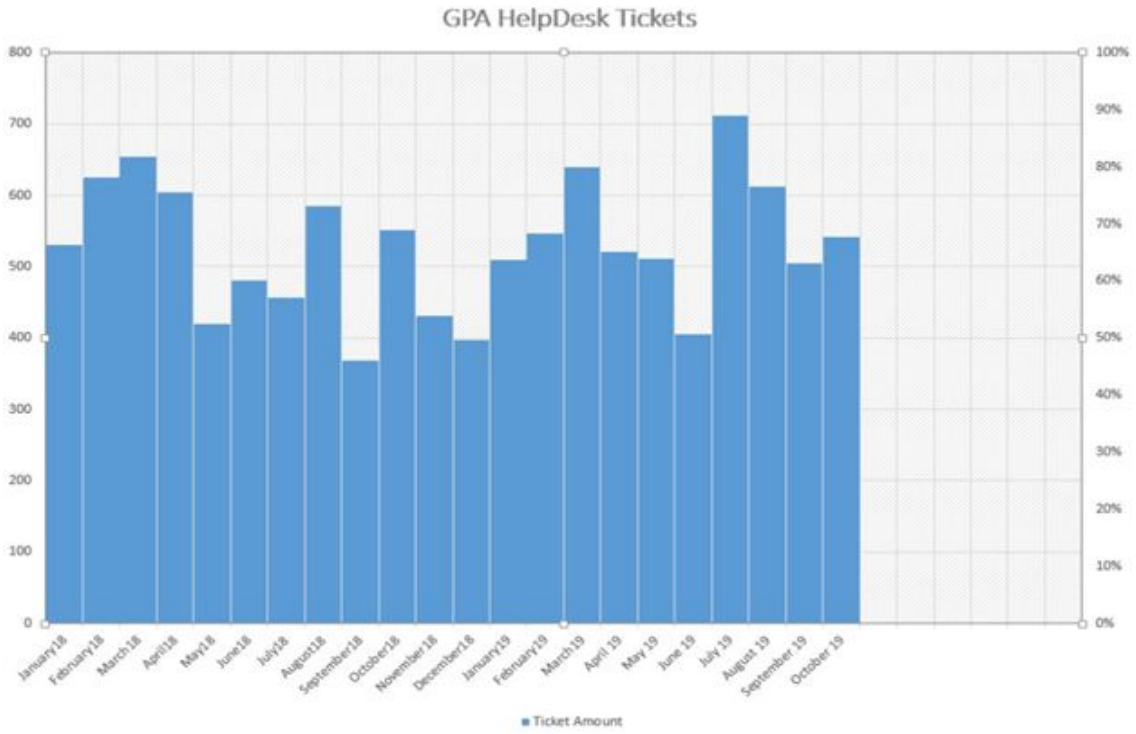
INCIDENT CALL SUMMARY:

The significance to record and utilize the Helpdesk Incident Handling Tool (ChangeGear) is to manage, track and measure workloads and assignments of customer reported IT incidents. The tracking of incidents is paramount. Measurements will be used for IT Customer Feedback survey in the future.

OCTOBER 2019 TICKETS



19 MONTH COMPARATIVE



For October 2019, Computer Services responded to 542 Help Desk calls from GPA internal and external customers. Breakdown as follows:

RESOLVED TICKETS BY PRIORITY

Low	Medium	High	Critical	Total
273	118	119	1	511

RESOLVED TICKET TYPES

End User	Hardware	Software	Network	Total
413	27	49	22	511

RESOLVED TICKETS REPORTED BY ORIGIN

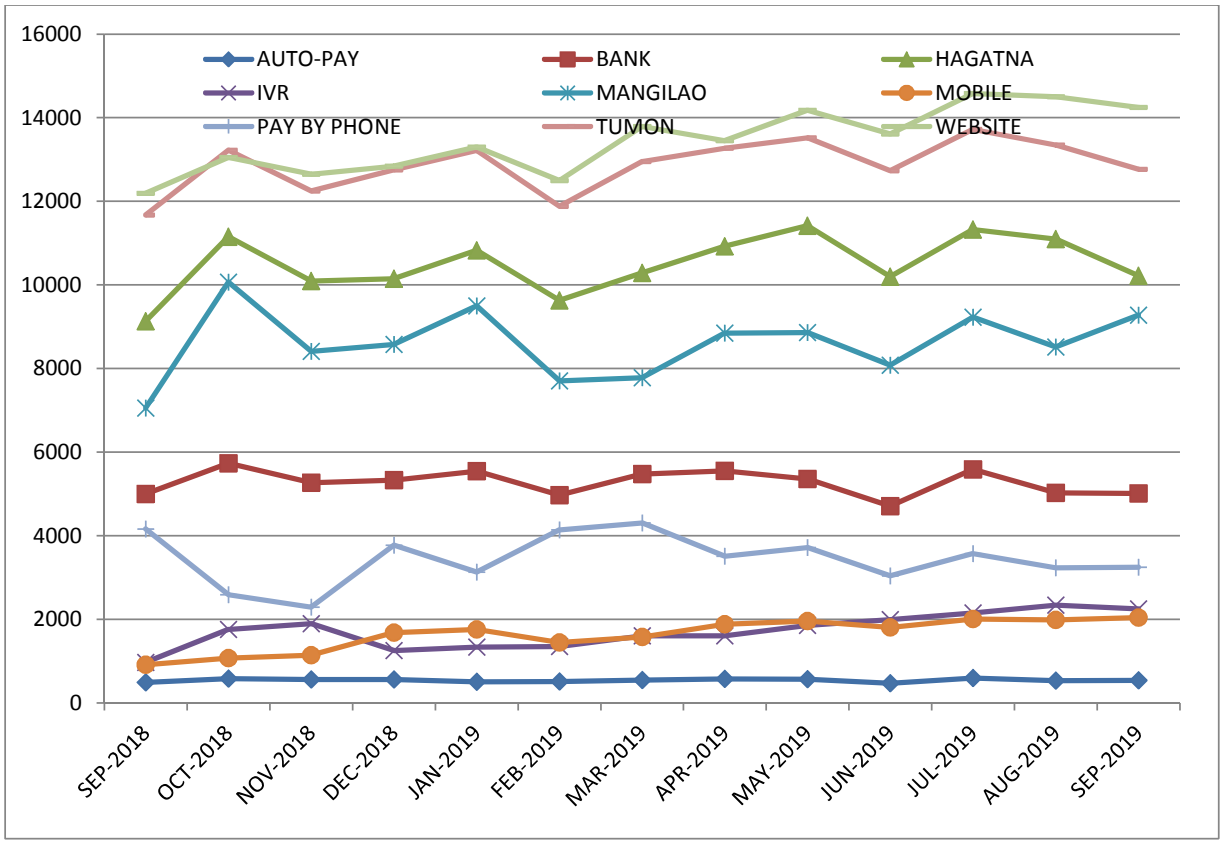
Phone	E-mail	Internal	Walk-In	Self Service Portal	Radio	Total
326	59	113	7	6	0	511

OPEN TICKETS BY PRIORITY

Low	Medium	High	Critical	Total
8	8	15	0	31

CC&B PAYMENT SUMMARY TRANSACTIONS:

Payment Transactions by On Site/Website/Auto-Pay/BANK/Mobile



Payment Transactions by Count:

Row Labels	AUTO-PAY	BANK	HAGATNA	IVR	MANG	MOBILE	PAY BY PHONE	TUMON	WEBSITE
SEP-2018	493	4995	9127	966	7050	916	4158	11668	12189
OCT-2018	582	5728	11151	1755	10067	1069	2587	13218	13047
NOV-2018	558	5266	10095	1893	8411	1139	2290	12246	12646
DEC-2018	562	5327	10148	1254	8574	1683	3775	12751	12840
JAN-2019	506	5544	10824	1333	9498	1758	3127	13215	13299
FEB-2019	513	4968	9627	1346	7706	1448	4140	11880	12494
MAR-2019	546	5474	10284	1608	7781	1577	4305	12948	13790
APR-2019	577	5548	10926	1608	8849	1882	3512	13267	13448
MAY-2019	568	5360	11415	1853	8861	1957	3717	13516	14179
JUN-2019	467	4705	10193	1993	8079	1806	3036	12731	13609
JUL-2019	592	5583	11327	2153	9229	2006	3570	13717	14576
AUG-2019	529	5022	11096	2339	8516	1983	3232	13346	14505
SEP-2019	541	5008	10219	2252	9272	2042	3244	12762	14245
Grand Total	**7034**	**68528**	**136432**	**22353**	**111893**	**21266**	**44693**	**167265**	**174867**

MAJOR APPLICATION ISSUES FOR OCTOBER 2019

1. ORACLE CUSTOMER CARE & BILLING
   No system issue reported.

2. LANDIS & GYR AMI METERS (SMART METERS)
   No system issue reported.

3. ORACLE JDE
   No system issue reported.

4. METER DATA MANAGEMENT SYSTEM (MDMS)
   No system issue reported.

5. SHORETEL VOIP PHONE SYSTEM
   No system issue reported.

6. EMAIL EXCHANGE SERVER
   No system issue reported.

7. ONLINE PAYMENT SYSTEM (PAYGPA.COM)
   No system issue reported.

8. GEOGRAPHIC INFORMATION SYSTEM (GIS)
   No system issue reported.

9. MILSOFT OUTAGE MANAGEMENT SYSTEM (OMS)
   No system issue reported.

10. ADVANCED GRID ANALYTICS (AGA)
    System is updated and running.

11. MOBILE APP PAYMENT PROGRAM
    No system issue reported.

12. IVR PHONE PAYMENT SYSTEM
    No system issue reported.

ONGOING PROJECT UPDATES:

Disaster Recovery Site: Project to procure a Disaster Recovery (DR) site to provide redundancy for critical GPA applications and databases in case of disruption of the primary Fadian Data Center.
Update: RFP is in protest with one of the vendors. Awaiting decision from OPA.

Physical Security: Project to provide additional surveillance monitoring for Fadian, T&D, Dededo CT and Transportation Warehouse. Kickoff meeting was on Oct. 9 and camera and PA system installation is scheduled to start in October and currently ongoing.

Public Announcement (PA) system testing has been completed at Fadian. Surveillance system at Fadian is 90% completed and Acceptance Testing is ongoing.

GPWA Website Upgrades: Project to revamp GPA and GWA websites for the following, GUAMPOWERAUTHORITY.COM, PAYGPA.COM, GUAMWETERWORKS.ORG and PAYGWA.COM.
RFP Responses has been reviewed and awaiting clarification of proposals. PO has been awarded and project is ongoing.

Update: Project is ongoing.

Oracle CHAT-BOT: Project to provide Oracle Chat Bot services to GPA's PAYGPA.COM, Mobile APP and Facebook Program. This will allow customers to utilize a CHAT program to make inquiries to frequently asked questions and inquiries on their account. Project has started and expected completion by Oct. 31. Project has just completed testing and looking to transfer into production by Nov. 2018.

Update: Deployment to GuamPowerAuthority.com is online. Pending Facebook and PAYGPA.COM.

JDE OneWorld to E1 Upgrade: License review is currently being done for both GPA and GWA to determine software and hardware requirements. Meeting with Oracle scheduled for Sept. 17 to discuss options for E1 Deployment.

VPlex and Unity Storage and Replication Implementation: New data storage and replication solution that will be implemented in conjunction with GPA's new disaster recovery solution. This will allow GPA to retire existing Storage Area Network (SAN) devices which are End of Life (EOL) and will allow Active to Active data replication between the GPA Fadian Data Center and the proposed new Disaster Recovery (DR) site.

Substation Survellence Camera Installation (Proof of Concept): Installation and testing of remote cameras at substations to test GPA Tier 2 wireless network. An initial camera has been installed at the Umatac Substation with additional sites identified at Piti, Harmon, Agana and Tamuning Substation.

Submitted by:
Melvyn Kwek
Chief Information Technology Officer

Infrared Inspection Worksheet

	Circuit	Last Infrared Inspection	
		Fiscal Year	Quarter
1	X065-X183	FY2017	4
2	X038-X124	FY2017	4
3	X123-X143	FY2017	4
4	H710/H760 - H502	FY2017	4
5	X023-X043	FY2017	4
6	X087-X073	FY2018	1
7	X247-X140		
8	X082-X160	FY2017	4
9	X020-X311-X336	FY2017	4
10	X039-X250	FY2018	1
11	X161-X070		
12	X006-X015/X016		
13	X024-X110	FY2017	4
14	X054-X246	FY2017	4
15	X056-X185		
16	X394-X126		
17	X173-X245		
18	H322/H326 - H401/H404		
19	H342/H346 - H402/H403		
20	H362/H366 - H750/H760		
21	H403/H404 - H602	FY2017	4
22	H612 - H501	FY2017	4
23	X021-X315-X334		
24	X022-X037-X190	FY2017	4
25	X036-X305		
26	X040-X112	FY2017	4
27	X045-X055		
28	X053-X209	FY2017	4
29	X081-X178		
30	X088-X151/X154	FY2017	4
31	X134-X180		
32	X150/X152-X221		
33	X214-X263		
34	X222-X067	FY2017	4
35	X150/X155-X071		
36	X080-X260		
37	X086-X101		
38	X093-X103		
39	X097-X227		
40	X098-X130		
41	X133-X170		
42	X174-X175		
43	X210-X226		
44	X301-X324		
45	X309-X326		

Top 10 Worst Circuits
Underground Circuits

Infrared Inspection Worksheet

	Sector	Circuit	Last Infrared Inspection	
			Fiscal Year	Quarter
1	North	P332	FY2019	4
2		P403		
3		P089		
4		P244		
5		P111		
6		P271	FY2017	4
7		P330		
8		P322	FY2019	4
9		P270		
10		P046	FY2018	1
11		P087		
12		P321	FY2019	4
13		P088	FY2017	4
14		P331		
15		P323	FY2019	4
16		P245		
17		P272		
18		P240		
19		P242		
20	Central	P212	FY2019	4
21		P213	FY2019	4
22		P202	FY2019	4
23		P201	FY2019	4
24		P210	FY2019	4
25		P007		
26		P250	FY2019	4
27		P205	FY2019	4
28		P206	FY2019	4
29		P203	FY2019	4
30		P253	FY2019	4
31		P283	FY2019	4
32		P280	FY2019	4
33		P311	FY2019	4
34		P007		
35		P211	FY2019	4
36		P202	FY2019	4
37		P251	FY2019	4
38		P252	FY2019	4
39		P201		
40		P282	FY2019	4
41		P310	FY2019	4
42		P204	FY2019	4
43		P312	FY2019	4
44		P281	FY2019	4
45		P400		
46	South	P340	FY2019	4
47		P261	FY2019	4
48		P221	FY2019	4
49		P294	FY2019	4
50		P341	FY2019	4
51		P005	FY2019	4
52		P260		
53		P003	FY2019	4
54		P220	FY2019	4
55		P298		
56		P262	FY2019	4
57		P223	FY2019	4
58		P301	FY2019	4
59		P005		
60		P260	FY2019	4

Top 10 Worst Circuits

NET METERING
October 2019

	Quantity	Connected kVA
Completed	2,040	22,877
Pending	1	7
Grand Total	2,041	22,884

Rate Class and Technology

Technology	Schedule	Customer Count	Total kW
Solar Energy	R - Residential	1,927	18,057.67
	J - Gen Service Dmc	40	2,249.41
	K - Small Gov Dmd	9	317.80
	L - Large Governme	2	122.80
	P - Large Power	7	640.70
	G - Gen Serv Non-D	46	1,405.76
	S - Sm Gov Non-Dm	7	78.80
Wind Turbine	R - Residential	2	3.60
Grand Total		**2,040**	**22,876.53**

Projection Date Ending 12/31/2019

Customer Rate Class	Sum of Size (kW)	*Annual Projected kWh Generated	Non-Fuel Yield $/kWh	Estimated Annual Revenue Loss
R	18,061.27	29,128,630	0.087492	$ 2,548,522.93
J	2,249.41	3,304,281	0.125682	$ 415,288.73
K	317.80	523,052	0.133883	$ 70,027.73
L	122.80	205,378	0.129809	$ 26,659.90
P	640.70	1,051,985	0.109950	$ 115,665.83
G	1,405.76	2,289,647	0.145397	$ 332,907.83
S	78.80	126,250	0.147902	$ 18,672.63
Grand Total	**22,876.53**	**36,629,223**		**$ 3,527,745.58**

*Estimated number of hours from NREL for Guam (13.4 degrees North and 144 degrees East).

Estimated Annual Revenue Loss (prior to 2019 model changes)

Year	Estimated kWh	*Total Estimated Cost
2018	34,981,036	$ 3,521,130.12
2017	28,242,917	$ 2,828,834.71
2016	21,867,383	$ 2,200,794.56
2015	7,383,621	$ 856,921.27
2014	3,137,212	$ 410,558.94
2013	1,556,949	$ 178,996.00
2012	494,672	$ 58,545.89
2011	170,070	$ 18,177.13
2010	98,830	$ 8,483.27
20009	23,912	$ 1,656.87

*Source for effective yield rate from the Year End Revenue Reports (12 month Average Yield)

NET METERING
October 2019

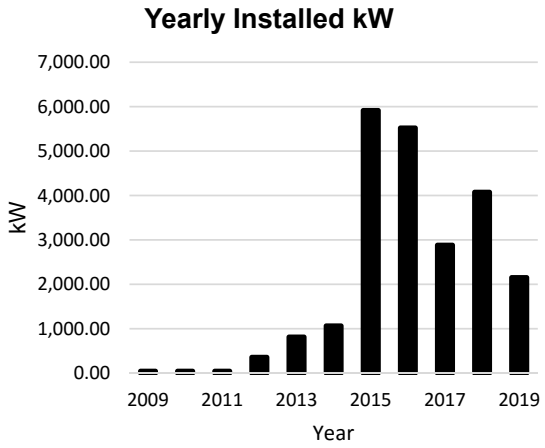
Customer Count and Connected kW by Feeder					
Status	**Feeder**	**Net Metering Connected kW**	**Customer Count**	**% of Feeder Maximum kW**	**% of Feeder Minimum Daytime kW**
Completed	P-005	302.73	27	17.5%	35.2%
	P-046	290.29	35	6.8%	10.4%
	P-088	707.64	76	11.8%	18.6%
	P-089	627.97	77	14.0%	33.8%
	P-111	190.00	3	3.5%	6.2%
	P-203	516.68	41	6.9%	19.6%
	P-204	150.38	17	3.2%	6.6%
	P-205	44.00	5	0.9%	1.6%
	P-210	601.94	57	11.8%	16.0%
	P-212	1,086.12	105	26.3%	68.0%
	P-213	322.13	13	12.3%	16.5%
	P-220	179.22	20	29.4%	92.4%
	P-221	598.28	61	13.6%	27.1%
	P-223	554.95	60	23.3%	33.3%
	P-240	58.55	2	0.9%	7.9%
	P-245	192.60	4	3.8%	8.2%
	P-250	1,311.40	122	20.2%	35.4%
	P-251	145.50	7	5.9%	9.0%
	P-253	599.03	61	13.3%	21.0%
	P-262	1,140.32	115	30.0%	71.8%
	P-270	447.39	38	8.8%	17.7%
	P-271	268.33	16	4.6%	9.7%
	P-272	280.91	20	11.0%	24.9%
	P-280	350.04	28	19.5%	36.2%
	P-281	204.90	5	7.3%	20.4%
	P-282	31.75	4	0.8%	2.6%
	P-283	620.05	56	17.1%	29.4%
	P-294	1,295.43	122	29.9%	59.3%
	P-301	233.76	24	16.5%	29.4%
	P-311	1,069.21	61	26.8%	45.9%
	P-322	1,667.93	112	22.0%	43.7%
	P-323	316.52	21	6.7%	20.8%
	P-330	689.01	86	12.7%	25.5%
	P-331	827.91	91	13.1%	21.2%
	P-332	632.10	69	11.2%	16.4%
	P-340	549.58	49	30.3%	66.7%
	P-087	1,435.85	146	36.6%	57.3%
	P-252	599.13	32	14.2%	29.0%
	P-321	374.86	35	6.7%	7.5%
	P-260	99.76	10	14.5%	49.9%
	P-067	86.20	10	1.0%	1.3%
	P-312	82.24	5	4.9%	5.7%
	P-206	26.08	3	2.7%	4.8%
	P-242	23.75	2	0.4%	1.1%
	P-310	181.57	8	6.6%	12.1%
	P-261	475.88	52	17.2%	29.5%
	P-201	60.35	8	1.7%	3.0%
	P-007	85.86	8	11.9%	25.3%
	P-244	36.56	2	2.1%	2.1%
	P-202	39.50	3	1.2%	2.9%
	P-341	4.30	1	0.4%	1.6%
	P-401	117.00	2	10.3%	17.3%
	P-400	43.14	3	4.5%	4.6%
Completed Total		**22,876.53**	**2,040**		
Pending	Pending	7.31	1	0.0%	0.0%
Pending Total		**7.31**	**1**	**0.0%**	**0.0%**
Grand Total		**22,883.84**	**2,041**		

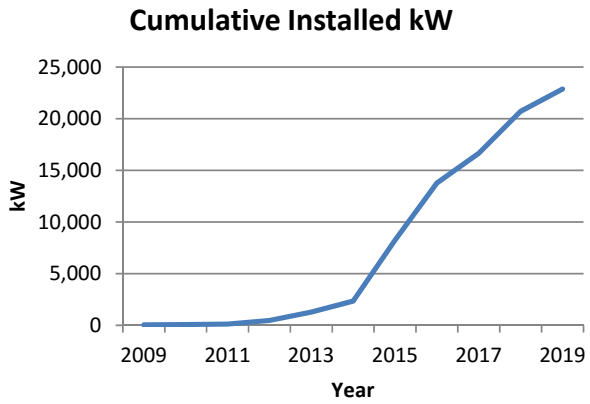
	Feeders highlighted in red indicates renewable energy capacity has exceeded 25% of feeder maximum load.
	Feeders highlighted in yellow indicates renewable energy capacity has reached 75% of minimum daytime load.

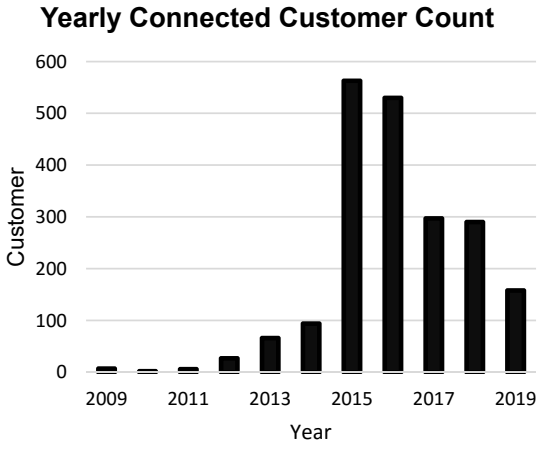
NET METERING
October 2019

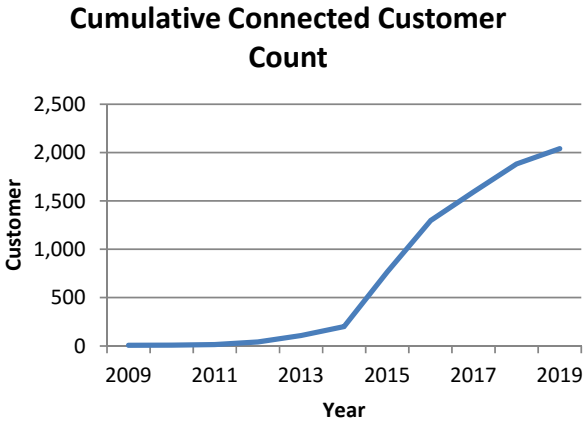
Installed kW by Year		
Year	Total	Cumulative
2009	39.46	39.46
2010	39.20	78.66
2011	41.61	120.27
2012	354.61	474.88
2013	808.15	1,283.03
2014	1,060.04	2,343.07
2015	5,914.07	8,257.14
2016	5,518.63	13,775.76
2017	2,880.40	16,656.16
2018	4,071.10	20,727.26
2019	2,149.27	22,876.53
Grand Total	22,876.53	

Customer Count by Year		
Year	Total	Cumulative
2009	7	7
2010	2	9
2011	6	15
2012	27	42
2013	66	108
2014	94	202
2015	563	765
2016	530	1,295
2017	297	1,592
2018	290	1,882
2019	158	2,040
Grand Total	2,040	









ENGINEERING WORK ORDERS

Engineering Work Order Summary - October 2019	
Work Orders Received from CSR	98
Work Orders Processed & Released to T&D	201
Work Orders Processed & Released to CSR	18
Work Orders Cancelled	18
Work Orders Pending Survey	27
Total Pending WO at Engineering	459

Engineering Large Customer and Net Metering Tracking

Date Received	Customer Name	Work Worder Numbers	Location	KVA	Meter Qty	Status
12/20/2013	CoreTech International	Multiple	Dededo	300	64	Lada Estates, 450 kVA, Phase I, II and III are 100% Completed - 308 units energized. Phase IV currently in Construction phase, 10% completed.
1/27/2015	TG Engineers	422182-85, 90-93, 96-98	Agana Heights	100	11	10 Unit Apartment, 100 kVA, 80% Completed. Work currently on hold.
5/13/2015	CoreTech International Towers, Tower 101, 102, 103, and 104	426021	Tamuning	3,300	45	New condominiums, 2-1500kVA and 1 300 kVA, Tower 101, 102, 103 and the community center are 100% Completed. Work on Tower 104 is ongoing and is 60% Completed.
6/1/2017	New Underground Line (P-047)	466064	Tumon	1,500	1	New Undergound line 95% completed. Mandrelling completed on completed sections. T&D started pulling wire and installing splices in August 2019. The Tsubaki Hotel is requesting GPA to hold off on the pending six outages due to their construction schedule.
3/1/2018	Docomo Pacific Inc., New Data Center	Pending Application	Talofofo	3,000	1	New Data Center. Planned to come off P-260 and P-262. 0% Completed. Still in Design Phase.
04/01/18	HG Northeast Inc	459085	Mangilao	100	14	New 14 Unit Subdivision, 25% Completed, 100 kVA, Pending Applications
12/13/18	Simpson, Henry M	466907, 8, 466658	Santa Rita			New Subdivision. Design Ongoing. Demand load pending completion of subdivision design.
11/19/18	Shieh, Thomas	466268	Tamuning	300	1	New Clinic, 95% completed, 300 kVA
10/10/18	Don Sadwahni	465341	Harmon	2,000	1	New Industrial Subdivision, Inspection of civil work only, Proposed 12 Pad Mounted Xfmrs 80% Completed.
11/19/18	TNN Guam Primary Meter	466064	Tumon	1,500	1	Permanent primary meter for Tsubaki Hotel and Nikko Hotel (1500 + 3000kVA Nikko), 92% Completed.
04/26/19	JohnDel International	469700-2,5, 6	Tamuning	225	5	New Office Building, 15% Completed, 225 kVA.
10/01/19	Don Don Donkey "Don Quijote" Shopping Center	Pending Application	Tamuning	2,000	1	New Shopping Center at the intersection of Route 1 and10A. Permiitting phase.
Varies	Pending Net Metering Customers	Varies	Various Locations Islandwide		1	Pending Net Metering Customers as of October 31, 2019.
			Total	**14,325**	**146**	

Production Data
31-Oct-19

SYSTEM											
YEAR	MONTH	# of DAYS	GROSS GENERATION	FUEL CONSUMPTION		GROSS FUEL EFFICIENCY (Target ≥ 15.99 kWh/gal)	COST per GROSS kWh	GROSS HEAT RATE (Baseloads) PUC Target less than 9,600	GROSS HEAT RATE (Peaking) PUC Target less than 13,600	Ave. MW	Peak MW
				(gal)	(bbl)						
2017	Sept	30	143,990,208	10,309,304	245,460	13.97	$ 0.1152	9,541.20	13,107.05	200	254
	Oct	31	147,122,071	9,774,857	232,735	15.05	$ 0.1079	9,590.71	11,375.81	198	254
	Nov	30	147,284,781	9,783,352	232,937	15.05	$ 0.1061	9,563.85	11,257.17	205	253
	Dec	31	151,600,064	9,925,003	236,310	15.27	$ 0.1122	9,607.13	11,035.82	204	250
2018	Jan	31	147,704,057	9,563,641	227,706	15.44	$ 0.1078	9,755.40	11,029.21	199	246
	Feb	28	131,329,470	8,660,044	206,192	15.16	$ 0.1150	9,763.94	11,125.15	195	241
	Mar	31	144,370,550	9,889,634	235,467	14.60	$ 0.1345	9,183.77	11,853.09	194	244
	Apr	30	142,493,891	9,636,757	229,447	14.79	$ 0.1232	9,558.86	11,901.02	198	247
	May	31	151,201,454	10,120,017	240,953	14.94	$ 0.1342	9,549.70	11,703.13	203	249
	June	30	142,902,259	9,674,924	230,355	14.77	$ 0.1399	9,563.51	11,494.36	198	246
	July	31	139,718,862	9,726,750	231,589	14.36	$ 0.1468	9,647.53	11,909.20	188	242
	Aug	31	141,640,237	9,834,936	234,165	14.40	$ 0.1437	9,817.09	13,623.96	190	238
	Sept	30	129,965,486	9,303,709	221,517	13.97	$ 0.1526	9,383.54	13,625.29	181	240
	Oct	31	149,090,501	10,752,842	256,020	13.87	$ 0.1592	9,870.49	12,783.94	200	243
	Nov	30	139,840,706	9,348,494	222,583	14.96	$ 0.1446	9,772.22	12,091.07	194	241
	Dec	31	144,799,157	9,756,460	232,297	14.84	$ 0.1497	9,443.41	11,943.41	195	237
2019	Jan	31	134,551,799	9,056,271	215,626	14.86	$ 0.1172	9,677.80	11,506.72	181	224
	Feb	28	122,596,954	8,257,791	196,614	14.85	$ 0.1152	9,592.63	11,923.40	182	226
	Mar	31	139,964,506	9,489,626	225,943	14.75	$ 0.1309	9,586.39	12,331.54	188	234
	Apr	30	143,583,892	9,385,611	223,467	15.30	$ 0.1249	9,597.50	11,794.45	199	244
	May	31	154,541,037	10,653,233	253,648	14.51	$ 0.1378	9,854.93	12,008.47	208	254
	June	30	152,035,851	10,394,927	247,498	14.63	$ 0.1378	9,756.34	11,985.93	211	255
	July	31	151,991,559	10,148,056	241,620	14.98	$ 0.1230	9,789.72	11,505.06	204	251
	Aug	31	147,598,476	9,960,397	237,152	14.82	$ 0.1259	9,622.68	11,430.55	198	253
	Sept	30	139,744,390	9,678,417	230,438	14.44	$ 0.1259	10,019.86	11,676.24	194	243
	Oct	31	147,131,892	9,789,114	233,074	15.03	$ 0.1294	9,742.17	12,670.15	198	247

T&D Vegetation Management
Percent Completion (per Sector Feeder)
Note: Feeders priority listing based on outages due to vegetation

Northern Sector

Feeder	Esitmated Distance (LF)	Distance Trimmed by T&D Crew (LF)	Distance Trimmed by Contractor (LF)	% Completion
P332	6,830	13,095	9,561	332%
P322	7,265	620	4,800	75%
P330	2,635		12,599	478%
P087	4,245	4,550		107%
P046	1,245	230		
P321	4,045	250		
P088	3,310	340		
P089	670	300		45%
P331	1,925	240		12%
P323	2,810			
P271	50	1,405		2810%
P270	300	1,595		532%
P245	1,660	1,200		72%
P272	150	430		287%
P111	500	475		95%
P244	920	940		102%
P240	430	430		100%
P242	290	160		55%
Total	39,280	26,260	26,960	135%

Central Sector

Feeder	Esitmated Distance (LF)	Distance Trimmed by T&D Crew (LF)	Distance Trimmed by Contractor (LF)	% Completion
P250	33,290	14,695	10,392	75%
P212	17,560	1,285		7%
P253	15,240	1,040		
P283	2,230	670	7,000	344%
P210	10,120	300		3%
P280	1,675	590		35%
P311	1,360			
P007	778			
P211	6,050			
P202	420	580		
P251	280			
P213	3,500	110		
P252	1,520		4,586	302%
P201	100			
P203	370			
P282	525			
P310	370	100		27%
P205	350			
P206	140	250		
P204	530			
P312	200			
P281	525			
P400	150			
Total	97,283	19,620	21,978	43%

Southern Sector

Feeder	Esitmated Distance (LF)	Distance Trimmed by T&D Crew (LF)	Distance Trimmed by Contractor (LF)	% Completion
P294	9,430	1,695	22,801	260%
P261	4,930	2,910	9,939	261%
P340	13,240	2,060	27,675	225%
P262	5,185	1,220	19,236	395%
P221	1,570	2,695		172%
P223	2,500	5,590		224%
P341	880	2,240	450	306%
P301	19,915	2,074	1,675	19%
P005	990	150		15%
P220	1,250	480		38%
P260	12,630	2,650		21%
Total	72,520	23,764	81,776	146%

GUAM POWER AUTHORITY
GOVERNMENT ACCOUNTS RECEIVABLE
Billing as of 10/31/2019 and Payments as of 11/13/2019

Current (10/19 Billing due 11/30/19)
30 days Arrears (9/30/19 due 10/31/19)
60 days and over Arrears (08/19 billing due 9/30/19)

CC&B ACCT NUMBER	CC&B New Acct Numer	DEPARTMENT	CC&B BALANCE 09/30/2019	CANCEL/REBILL/ SPEC CHARGE 11/13/2019	BILLING 10/31/2019	PAYMENT UP TO 11/13/2019	CC&B BALANCE 11/13/2019
		Line Agencies					
0237100000	1073430238	Dept. of Corrections	$ 78,657.41		$ 79,513.74	$ (78,657.41)	$ 79,513.74
0437100000	0040515913	Dept. of Parks & Rec.	$ 20,241.70	$ 152.58	$ 21,304.10	$ (20,241.70)	$ 21,456.68
0537100000	0453170939	Guam Fire Department	$ 17,362.14		$ 17,337.24	$ (17,362.14)	$ 17,337.24
6995000000	8564647941	DOA Supply Mgmt (NET METERED)	$ 1,326.77		$ 880.42	$ (1,326.77)	$ 880.42
7895000000	4211873236	Dept. of Administration	$ 3,500.62		$ 3,520.48	$ (3,500.62)	$ 3,520.48
1337100000	4554808900	Nieves Flores Library	$ 10,895.44	$ 81.71	$ 11,779.69	$ (13,739.18)	$ 9,017.66
2206200000	9541109130	General Services Agency	$ 261.33		$ 272.57	$ (261.33)	$ 272.57
2237100000	1621790133	DOA-Data Processing	$ 9,185.38		$ 9,382.87	$ (9,185.38)	$ 9,382.87
2337100000	1896187753	Dept. of PH&SS	$ 68,863.95	$ 20.67	$ 72,699.73	$ (66,107.31)	$ 75,477.04
3237100000	7252821074	Dept. of Education	$ 2,230,764.53	$ 16,730.77	$ 1,165,008.15		$ 3,412,503.45
3337100000	0266069082	Guam Police Department	$ 48,499.10	$ 363.74	$ 50,529.80	$ (48,499.10)	$ 50,893.54
3569100000	6069461950	Dept of Youth Affairs (Federal)	$ 637.70		$ 638.84	$ (637.70)	$ 638.84
4437100000	2913461537	Dept. of Youth Affair* (Local)	$ 11,803.32		$ 12,987.63	$ (11,803.32)	$ 12,987.63
4737100000	3404311949	Guam Environmental Protect	$ 14,004.92		$ 7,262.38	$ (14,004.92)	$ 7,262.38
5437100000	3227759982	Mental Health/Subst.	$ 49,537.41		$ 47,744.94	$ (49,537.41)	$ 47,744.94
	6841080463	Guam Behavioral Health & Wellness	$ 1,667.93		$ 1,688.46	$ (1,667.93)	$ 1,688.46
7200300000	0070861777	Veteran Affairs	$ 2,096.52		$ 2,194.02	$ (2,096.52)	$ 2,194.02
	6243861917	Guam Veterans Affairs Office	$ 0.00		$ -		$ 0.00
7437100000	8300435373	Civil Defense (Military Affairs)	$ 23,717.95	$ 91.79	$ 12,786.51	$ (11,479.36)	$ 25,116.89
7463300000	7813165805	Pacific Energy Resource Center	$ 707.11	$ 5.30	$ 770.43	$ (707.11)	$ 775.73
8137100000	1595188609	Dept. of Agriculture	$ 9,800.28		$ 9,673.17	$ (9,800.28)	$ 9,673.17
8337100000	2535590089	DPW-FAC Adm Account	$ 30,987.27	$ 232.42	$ 32,083.15	$ (30,987.27)	$ 32,315.57
8437100000	7928924534	Guam Visitors Bureau	$ 4,343.18		$ 4,510.11	$ (4,343.18)	$ 4,510.11
8446300000	7663706771	Yona Senior Citizen Center	$ 1,159.84	$ 8.70	$ 1,060.45		$ 2,228.99
9437100000	4129948191	Dept of Chamorro Affairs/Chamorro Village	$ 3,464.00	$ 26.00	$ 3,493.10	$ (3,464.00)	$ 3,519.10
	3558733700	Dept of Chamorro Affairs/Chamorro Village (NET METERED)	$ 141.91	$ 1.06	$ 140.85	$ (141.91)	$ 141.91
5247210000	5247210000	Mayors Council	$ 6,563.66	$ 401.78	$ 6,678.28		$ 13,643.72
6293410000	6293410000	Office of the Governor	$ 37,796.00		$ 25,871.39	$ (37,796.00)	$ 25,871.39
8555858369	8555858369	Dept of Chamorro Affairs (Guam Museum)	$ 22,830.77		$ 22,654.12	$ (22,830.77)	$ 22,654.12
	1099514147	Dept of Chamorro Affairs/Repository	$ 400.43		$ 422.88	$ (400.43)	$ 422.88
		Sub Total	**$ 2,711,218.57**	**$ 18,116.52**	**$ 1,624,889.50**	**$ (460,579.05)**	**$ 3,893,645.54**
		MAYORS					
0637100000	3832327736	Santa Rita Mayor	$ 3,602.10	$ 77.03	$ 3,674.30		$ 7,353.43
0737100000	9351070242	Ordot/Chalan Pago Mayor	$ 1,117.33	$ 8.38	$ 1,096.30		$ 2,222.01
1537100000	6393530237	Hagatna Mayor	$ 696.72	$ 5.23	$ 556.44		$ 1,258.39
1637100000	3293808984	Piti Mayor	$ 1,107.68	$ 8.31	$ 1,171.66		$ 2,287.65
1737100000	8715052935	Mongmong/Toto/Maite Mayor	$ 1,690.69	$ (135.20)	$ 1,623.59		$ 3,179.08
2637100000	0492244686	Asan/Maina/Adelup Mayor	$ 638.68	$ 4.80	$ 634.27		$ 1,277.75
2737100000	8433959204	Sinajana Mayor	$ 3,846.27	$ 28.85	$ 3,894.03		$ 7,769.15
3637100000	8041715847	Dededo Mayor	$ 6,170.24	$ 46.27	$ 7,028.55		$ 13,245.06
4637100000	7037924246	Yigo Mayor	$ 4,639.60	$ 34.80	$ 4,539.66		$ 9,214.06
5637100000	7202265287	Umatac Mayor	$ 1,357.76	$ 10.20	$ 1,400.51		$ 2,768.47
6537100000	8472200165	Agana Hts. Mayor	$ 3,884.14	$ 29.14	$ 4,487.93		$ 8,401.21
6637100000	4469579998	Merizo Mayor	$ 1,152.39	$ 8.65	$ 1,474.45		$ 2,635.49
6737100000	5763167341	Barrigada Mayors Office	$ 2,158.60	$ 16.19	$ 2,607.59		$ 4,782.38
7537100000	7247791682	Agat Mayor	$ 2,656.38	$ 71.40	$ 3,023.25		$ 5,751.03
7637100000	6078244037	Inarajan Mayor	$ 2,331.63	$ 17.50	$ 2,476.43		$ 4,825.56
8537100000	6957205325	Tamuning Mayor	$ 6,597.76	$ 49.49	$ 6,851.47		$ 13,498.72
8637100000	1880297633	Talofofo Mayor	$ 2,191.21	$ 16.47	$ 2,129.37		$ 4,337.05
9537100000	3631627996	Mangilao Mayor	$ 4,418.74	$ 33.15	$ 4,474.20		$ 8,926.09
9637100000	1837525565	Yona Mayor	$ 1,363.36	$ 10.23	$ 1,426.13		$ 2,799.72
		Sub Total	**$ 51,621.28**	**$ 340.89**	**$ 54,570.13**	**$ -**	**$ 106,532.30**
		DPW ACCOUNTS				$ -	
4337100000	3045433600	DPW-Village St. Lights	$ 358,016.83	$ 2,685.23	$ 382,056.59		$ 742,758.65
5337100000	0930959866	DPW- Primary St. Lights	$ 172,812.96	$ 1,304.53	$ 89,284.83		$ 263,402.32
6337100000	3088040552	DPW-Sec/Coll St. Lights	$ 25,626.83	$ 192.20	$ 27,079.39		$ 52,898.42
7337100000	0832698062	DPW-Signal Lights	$ 10,455.10	$ 78.37	$ 10,499.45	$ (10,455.10)	$ 10,577.82
		Sub Total	**$ 566,911.72**	**$ 4,260.33**	**$ 508,920.26**	**$ (10,455.10)**	**$ 1,069,637.21**
		(B) AUTONOMOUS/PUBLIC CORP					
1437100000	1540692986	Retirement Fund	$ 6,633.58		$ 7,038.83	$ (6,633.58)	$ 7,038.83
1915500000	0563872892	Guam Housing Corp Rental Division	$ 1,399.19	$ 49.43	$ 1,406.28	$ (1,399.19)	$ 1,455.71
2437100000	5434075703	University of Guam	$ 187,921.51		$ 190,836.22	$ (187,921.51)	$ 190,836.22
4237100000	7736362694	Guam Airport Authority	$ 529,454.08	$ (5,155.44)	$ 546,967.52	$ (529,454.08)	$ 541,812.08
5357510000	5357510000	University of Guam (NET METERED)	$ 83,156.21		$ 84,116.14	$ (83,156.21)	$ 84,116.14
6237100000	1699407298	G H U R A	$ 14,169.35	$ (24.80)	$ 25,022.47	$ (25,688.81)	$ 13,478.21
6437100000	6518220019	Guam Community College	$ 55,279.35	$ 50.00	$ 55,445.15	$ (55,329.35)	$ 55,445.15
7237100000	8302337726	Guam Memorial Hospital	$ 39,980.94		$ 40,013.88	$ (39,980.94)	$ 40,013.88
8426836906	8426836906	Guam Memorial Hospital (NET METERED)	$ 154,367.30		$ 156,510.82	$ (154,367.30)	$ 156,510.82
9137100000	4474308144	Port Authority of Guam	$ 92,555.45		$ 102,950.18	$ (92,555.45)	$ 102,950.18
9157510000	9157510000	Guam Community College (NET METERED)	$ 39,055.67		$ 39,144.24	$ (39,055.67)	$ 39,144.24
9173210000	9173210000	Guam Solid Waste Authority	$ 7,061.41		$ 7,527.02	$ (7,061.41)	$ 7,527.02
9337100000	0838495949	Guam Waterworks Authority	$ 1,402,866.03	$ (8,497.05)	$ 1,383,784.72	$ (1,402,866.03)	$ 1,375,287.67
8237100000	4075914809	GPA	$ -	$ (100,747.25)	$ 100,747.25		$ -
		Sub Total	**$ 2,613,900.07**	**$ (114,325.11)**	**$ 2,741,510.72**	**$ (2,625,469.53)**	**$ 2,615,616.15**
		(C) OTHERS					

0337100000	7541928173	Guam Legislature	$ 516.12		$ 488.12	$ (516.12)	$ 488.12
9503154359	9503154359	Guam Legislature (NET METERED)	$ 8,304.59		$ 8,657.65	$ (8,304.59)	$ 8,657.65
1237100000	8353274954	Superior Court of Guam	$ 67,623.84		$ 67,483.39	$ (67,623.84)	$ 67,483.39
2537100000	8108458168	Guam Post Office (Agana)	$ 6,545.82		$ 6,076.24	$ (6,545.82)	$ 6,076.24
2570200000	8972267005	Customs & Quarantine Agency	$ 571.74		$ 638.64	$ (571.74)	$ 638.64
3537100000	4530787043	U.S. Post Office	$ 41,590.92		$ 40,640.66	$ (41,590.92)	$ 40,640.66
5537100000	8607446612	Dept. of Military Affairs	$ 157,970.94	$ 595.47	$ 81,658.79	$ (157,970.94)	$ 82,254.26
3209463043	3209463043	Dept. of Military Affairs (NET METERED)	$ 35,878.41	$ 135.42	$ 18,119.82	$ (35,878.41)	$ 18,255.24
5737100000	6000770566	KGTF	$ 7,545.39	$ 56.59	$ 6,702.21		$ 14,304.19
7281000000	6602566745	Tamuning Post Office	$ 5,103.61		$ 5,203.17	$ (5,103.61)	$ 5,203.17
		Sub Total	**$ 331,651.38**	**$ 787.48**	**$ 235,668.69**	**$ (324,105.99)**	**$ 244,001.56**
		GRAND TOTAL	**$ 6,275,303.02**	**$ (90,819.89)**	**$ 5,165,559.30**	**$ (3,420,609.67)**	**$ 7,929,432.76**

GUAM POWER AUTHORITY
ATURIDAT ILEKTRESEDAT GUAHAN
P O BOX 2977, AGANA, GUAM 96932-2977
Telephone: (671) 648-3066 Fax: (671) 648-3168

GUAM POWER AUTHORITY
FINANCIAL STATEMENT OVERVIEW
September 2019

Attached are the financial statements and supporting schedules for the month and fiscal year ended September 30, 2019.

Summary
The increase in net assets for the year ended was $21.2 million as compared to the anticipated net increase of $8.0 million projected at the beginning of the year. The total kWh sales for the year were 2.71% less than projected and non-fuel revenues were $4.1 million less than the estimated amount. O & M expenses for the year were $66.9 million which was $10.0 million less than our projections for this year. Other expenses for the year such as interest expense, IPP costs, (net of interest income and other income) totaled to $41.3 million, which was $1.5 less than the projected amounts. There were no other significant departures from the budget during the period.

Analysis

Description	**Previous Month**	**Current Month**	**Target**
Quick Ratio	2.40	2.62	2
Days in Receivables	39	39	52
Days in Payables	30	23	30
LEAC (Over)/Under Recovery Balance -YTD	$9,721,856	$9,943,732	$10,344,443
T&D Losses	5.35%	5.32%	<7.00%
Debt Service Coverage	1.63	1.64	1.75
Long-term equity ratio	0.36%	0.52%	30 – 40%
Days in Cash	215	216	60

The Quick Ratio has been a challenge for GPA historically. However, the influx of cash from insurance proceeds continued to improve this ratio. GPA has current obligations of approximately $75 million and approximately $196 million in cash and current receivables. After a year of fluctuating fuel prices, the net LEAC under-recovery for the year was $1.6 million. Debt Service Coverage ratio is calculated using the methodology in use before the Fiscal Year 2002 change in accounting practice.

Financial Statements
September 2019

Significant Assumptions

The significant assumptions in the financial statements are as follows:

- Accrual cutoff procedures were performed at month end
- An inventory valuation is performed at year-end only
- Accounts Receivable includes accruals based on prior months' usage.

Prepared by:	Reviewed by:	Approved by:
_____	_____	_____
Lenora M. Sanz	John J.E. Kim	John M. Benavente, P.E.
Controller	Chief Financial Officer	General Manager

GUAM POWER AUTHORITY
(A COMPONENT UNIT OF THE GOVERNMENT OF GUAM)
Statements of Net Position
September 30, 2019 and September 30, 2018

	Unaudited September 2019	Audited September 2018	Change from Sept 30 2018
ASSETS AND DEFERRED OUTFLOWS OF RESOURCES			
Current assets:			
Cash and cash equivalents:			
Held by trustee for restricted purposes:			
Interest and principal funds	$ 33,053,886	$ 17,997,927	$ 15,055,959
Bond indenture funds	29,168,116	49,970,719	(20,802,603)
Held by Guam Power Authority:			
Bond indenture funds	154,027,791	142,583,470	11,444,321
Self insurance fund-restricted	19,378,387	19,258,353	120,034
Energy sense fund	333,528	1,085,472	(751,944)
Total cash and cash equivalents	235,961,708	230,895,941	5,065,767
Accounts receivable, net	41,867,589	37,851,906	4,015,683
Total current receivables	41,867,589	37,851,906	4,015,683
Materials and supplies inventory	12,521,306	12,812,072	(290,766)
Fuel inventory	41,214,022	67,993,103	(26,779,081)
Prepaid expenses	2,066,278	979,828	1,086,450
Total current assets	333,630,903	350,532,850	(16,901,947)
Utility plant, at cost:			
Electric plant in service	1,084,434,067	1,063,192,955	21,241,112
Construction work in progress	37,592,719	28,021,290	9,571,429
Total	1,122,026,786	1,091,214,245	30,812,541
Less: Accumulated depreciation	(633,190,295)	(597,426,905)	(35,763,390)
Total utility plant	488,836,491	493,787,340	(4,950,849)
Other non-current assets:			
Investment - bond reserve funds held by trustee	48,599,853	48,600,660	(807)
Unamortized debt issuance costs	2,221,160	2,503,448	(282,288)
Total other non-current assets	50,821,013	51,104,108	(283,095)
Total assets	873,288,407	895,424,298	(22,135,891)
Deferred outflow of resources:			
Deferred fuel revenue	9,943,732	8,370,542	1,573,190
Unamortized loss on debt refunding	24,733,104	27,093,636	(2,360,532)
Pension	8,932,987	8,932,987	0
Other post employment benefits	13,798,017	13,798,017	0
Unamortized forward delivery contract costs	318,638	477,998	(159,360)
Total deferred outflows of resources	57,726,478	58,673,180	(946,702)
	$ 931,014,885	$ 954,097,478	$ (23,082,593)

GUAM POWER AUTHORITY
(A COMPONENT UNIT OF THE GOVERNMENT OF GUAM)
Statement of Net Position, Continued
September 30, 2019 and September 30, 2018

	Unaudited September 2019	Audited September 2018	Change from Sept 30 2018
LIABILITIES, DEFERRED INFLOWS OF RESOURCES AND NET POSITION			
Current liabilities:			
Current maturities of long-term debt	$ 16,130,000	$ 1,630,000	$ 14,500,000
Current obligations under capital leases	3,304,531	13,613,066	(10,308,535)
Accounts payable			
Operations	27,385,427	47,761,928	(20,376,501)
Others	23,036	662,541	(639,505)
Accrued payroll and employees' benefits	2,348,815	1,949,080	399,735
Current portion of employees' annual leave	2,153,583	2,101,168	52,415
Interest payable	14,733,265	14,745,285	(12,020)
Customer deposits	8,912,096	9,387,519	(475,423)
Total current liabilities	74,990,753	91,850,587	(16,859,834)
Regulatory liabilities:			
Provision for self insurance	19,345,291	19,345,291	0
Total regulatory liabilities	19,345,291	19,345,291	0
Long term debt, net of current maturities	584,892,990	604,881,434	(19,988,444)
Obligations under capital leases, net of current portion	7,664,664	10,808,951	(3,144,287)
Net Pension liability	72,866,989	76,554,735	(3,687,746)
Other post employment benefits liability	145,955,861	145,955,861	0
DCRS sick leave liability	1,331,151	1,331,151	0
Employees' annual leave net of current portion	1,204,085	1,204,085	0
Customer advances for construction	394,540	385,293	9,247
Total liabilities	908,646,324	952,317,388	(43,671,064)
Deferred inflows of resources:			
Unearned forward delivery contract revenue	1,168,036	1,752,053	(584,017)
Pension	3,532,642	3,532,642	0
Other post employment benefits	14,804,043	14,804,043	0
Total deferred inflows of resources	19,504,721	20,088,738	(584,017)
Commitments and contigencies			
Net Position:			
Net investment in capital assets	(45,782,266)	(38,960,024)	(6,822,241)
Restricted	51,357,358	47,856,103	3,501,255
Unrestricted	(2,711,253)	(27,204,727)	24,493,474
Total net position	2,863,839	(18,308,648)	21,172,489
	$ 931,014,885	$ 954,097,478	$ (23,082,593)

GUAM POWER AUTHORITY
(A COMPONENT UNIT OF THE GOVERNMENT OF GUAM
Statement of Revenues, Expenses and Changes in Net Assets

	September 30			Twelve Months Ending September 30		
	Unaudited 2019	Audited 2018	% of change Inc (dec)	Unaudited 2019	Audited 2018	% of change Inc (dec)
Revenues						
Sales of electricity	$ 32,007,594	$ 31,097,639	3	$ 399,732,814	$ 378,328,873	6
Miscellaneous	312,821	194,101	61	3,219,002	2,217,201	45
Total	32,320,415	31,291,740	3	402,951,816	380,546,074	6
Bad debt expense	(91,500)	285,382	(132)	(1,098,000)	(677,870)	62
Total revenues	32,228,915	31,577,122	2	401,853,816	379,868,204	6
Operating and maintenance expenses						
Production fuel	18,934,501	18,632,810	2	238,868,150	217,567,040	10
Other production	2,061,399	2,011,427	2	16,811,224	17,414,541	(3)
	20,995,900	20,644,237	2	255,679,374	234,981,581	9
Depreciation	3,140,500	1,863,562	69	37,343,782	37,184,129	0
Energy conversion cost	1,003,343	1,414,314	(29)	13,966,499	17,552,373	(20)
Transmission & distribution	671,955	498,676	35	12,737,530	12,338,144	3
Customer accounting	605,955	738,210	(18)	5,674,859	5,676,402	(0)
Administrative & general	3,366,365	5,557,813	(39)	31,633,974	33,971,436	(7)
Total operating and maintenance expense	29,784,018	30,716,812	(3)	357,036,018	341,704,065	4
Operating income	2,444,897	860,310	184	44,817,798	38,164,139	17
Other income (expenses)						
Interest income	893,830	524,246	70	4,997,411	3,260,341	53
Interest expense and amortization	(2,524,146)	(2,308,449)	9	(29,171,021)	(31,429,008)	(7)
Bond issuance costs	89,022	38,498	131	1,056,264	(1,738,239)	(161)
Allowance for funds used during construc	0	123,062	(100)	0	1,686,379	(100)
Losses due to typhoon	(1,169,934)	(151,777)	0	(1,861,935)	(939,676)	0
Other expense	(4,293)	(4,291)	0	(51,499)	(51,492)	0
		0				
Total other income (expenses)	(2,715,521)	(1,778,711)	53	(25,030,780)	(29,211,695)	(14)
Income (loss) before capital contributions	(270,624)	(918,401)	(71)	19,787,018	8,952,444	121
Capital contributions	1,169,934	(116,175)	0	1,385,471	0	0
Increase (decrease) in net assets	899,310	(1,034,576)	(187)	21,172,489	8,952,444	136
Total net assets at beginning of period (resta	1,964,529	120,163,577	0	(18,308,650)	110,176,557	(117)
Total net assets at end of period	$ 2,863,839	$ 119,129,001	(98)	$ 2,863,839	$ 119,129,001	(98)

GUAM POWER AUTHORITY
(A COMPONENT UNIT OF THE GOVERNMENT OF GUAM)
Statements of Cash Flows
Period Ended September 30, 2019

	Month Ended 9/30/2019	YTD Ended 9/30/2019
Increase(decrease) in cash and cash equivalents		
Cash flows from operating activities:		
Cash received from customers	$ 30,839,974	$ 397,293,543
Cash payments to suppliers and employees for goods and services	24,734,214	317,342,280
Net cash provided by operating activities	$ 6,105,760	$ 79,951,263
Cash flows from investing activities:		
Interest and dividends on investments and bank accounts	893,830	4,997,411
Net cash provided by investing activities	893,830	4,997,411
Cash flows from non-capital financing activities		
Interest paid on short term debt	19,940	(57,105)
Provision for self insurance funds	(48,113)	(120,034)
Net cash provided by noncapital financing activities	(28,173)	(177,139)
Cash flows from capital and related financing activities		
Acquisition of utility plant	(3,589,239)	(32,392,930)
Principal paid on bonds and other long-term debt	-	(1,630,000)
Interest paid on bonds(net of capitalized interest)	-	(28,066,875)
Interest paid on capital lease obligations	(102,742)	(1,059,065)
Interest & principal funds held by trustee	(4,196,073)	(15,055,959)
Reserve funds held by trustee	(28,319)	807
Bond funds held by trustee	1,369,504	20,802,603
Principal payment on capital lease obligations	(628,857)	(13,452,822)
Grant from DOI/FEMA	1,169,934	1,385,471
Debt issuance costs/loss on defeasance	(322,537)	(3,858,444)
Net cash provided by (used in) capital and related financing activities	(6,328,329)	(73,327,214)
Net (decrease) increase in cash and cash equivalents	643,088	11,444,321
Cash and cash equivalents, beginning	153,384,703	142,583,470
Cash and cash equivalents-Funds held by GPA, September 30, 2019	**$ 154,027,791**	**$ 154,027,791**

GUAM POWER AUTHORITY
(A COMPONENT UNIT OF THE GOVERNMENT OF GUAM)
Statements of Cash Flows, continued
Period Ended September 30, 2019

	Month Ended 9/30/2019	YTD Ended 9/30/2019
Reconciliation of operating earnings to net cash provided by operating activities:		
Operating earnings net of depreciation expense and excluding interest income	$ 2,444,897	$ 44,817,798
Adjustments to reconcile operating earnings to net cash provided by operating activities:		
Depreciation and amortization	3,140,500	37,343,782
Other expense	(1,085,205)	(857,170)
(Increase) decrease in assets:		
Accounts receivable	(818,908)	(4,015,683)
Materials and inventory	157,364	290,766
Fuel inventory	11,460,655	26,779,081
Prepaid expenses	504,139	(1,086,450)
Unamortized debt issuance cost	23,524	282,288
Deferred fuel revenue	(221,876)	(1,573,190)
Unamortized loss on debt refunding	196,711	2,360,532
Unamortized forward delivery contract costs	13,280	159,360
Increase (decrease) in liabilities:		
Accounts payable-operations	(5,388,224)	(20,376,501)
Accounts payable-others	(3,955,960)	112,439
Accrued payroll and employees' benefits	173,672	399,735
Net pension liability	(273,722)	(3,687,746)
Employees' annual leave	11,772	52,415
Customers deposits	(228,191)	(475,423)
Customer advances for construction	-	9,247
Unearned forward delivery contract revenue	(48,668)	(584,017)
Net cash provided by operating activities	**$ 6,105,760**	**$ 79,951,263**

Guam Power Authority
Financial Analysis
9/30/2019

Quick Ratio

Reserve Funds Held by GPA		154,027,791
Current Accounts Receivable		42,340,072
Total Cash and A/R (A+B)		196,367,863
Total Current Liabilities		74,990,753
Quick Ratio (F/G)		**2.62**

Days in Receivables

FY 18 Moving 12 Mos.-Actual		399,732,812
No. of Days		365
Average Revenues per day (A/B)		1,095,158
Current Accounts Receivable		42,340,072
Days in Receivables (D/C)		**39**

Days in Payables

FY 18 Moving 12 Months-Actual		429,169,747
No. of Days		365
Average Payables per day (A/B)		1,175,808
Current Accounts Payables		27,408,463
Days in Payables (D/C)		**23**

Long term equity ratio

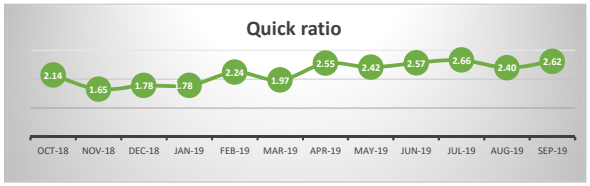
Equity	$	2,863,839.00
Total Long term Liability	$	545,071,711.00
Total Equity and liability	$	547,935,550.00
Long term equity ratio (A/C)		**0.52%**

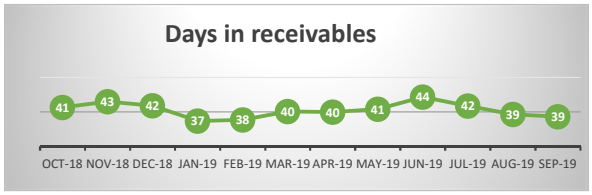
Days cash on hand

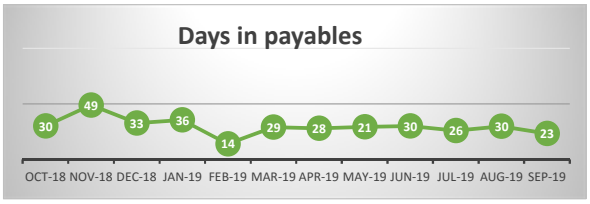
Unresctricted cash & cash equivalents		154,028
No. of Days -YTD		365
A x B		56,220,144
Total Operating expenses excluding depreciation		319,692
Days cash on hand		**176**

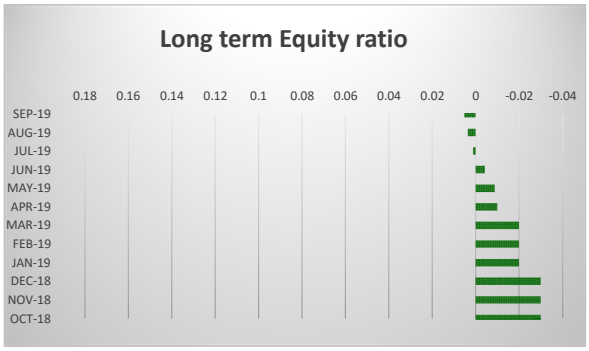
Days' Liquidity

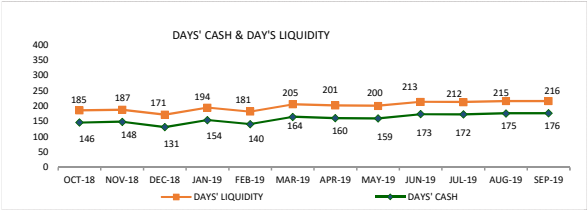
Unresctricted cash , cash equivalents & revolving Credit		189,028
No. of Days -YTD		365
A x B		68,995,144
Total Operating expenses excluding depreciation		319,692
Days liquidity		**216**











GPA 302

GUAM POWER AUTHORITY
ACCRUED REVENUE
SEPTEMBER 2019

	FOR THE MONTH ENDED SEPTEMBER		TWELVE MONTHS ENDED SEPTEMBER	
	2019	2018	2019	2018
KWH SALES:				
Residential	39,850,588	37,207,511	496,772,627	495,346,749
Small Gen. Non Demand	5,281,337	6,128,698	76,100,951	81,419,604
Small Gen. Demand	16,034,273	14,018,162	187,640,074	184,605,153
Large General	24,400,150	23,573,240	301,278,928	307,368,249
Independent Power Producer	47,591	29,708	398,257	479,714
Private St. Lights	32,707	34,933	396,459	403,056
Sub-total	85,646,645	80,992,253	1,062,587,295	1,069,622,525
Government Service:				
Small Non Demand	733,348	1,089,787	12,770,354	14,326,985
Small Demand	8,706,945	7,082,161	97,901,061	92,945,937
Large	6,031,079	5,873,776	71,987,379	74,650,307
Street Lighting	711,804	734,966	9,241,597	9,046,218
Sub-total	16,183,177	14,780,690	191,900,391	190,969,447
Total	101,829,822	95,772,942	1,254,487,686	1,260,591,972
U. S. Navy	25,184,246	23,161,867	313,798,066	306,460,172
GRAND TOTAL	127,014,068	118,934,809	1,568,285,752	1,567,052,144
REVENUE:				
Residential	10,007,200	9,335,975	124,466,118	117,823,431
Small Gen. Non Demand	1,579,415	1,793,407	22,305,464	22,678,840
Small Gen. Demand	4,422,371	3,892,588	51,467,910	48,253,949
Large General	6,283,768	6,170,948	77,543,313	74,919,062
Independent Power Producer	13,738	8,392	110,188	117,110
Private St. Lights	25,616	26,392	309,708	309,040
Sub-total	22,332,107	21,227,703	276,202,701	264,101,431
Government Service:				
Small Non Demand	232,567	335,723	3,918,769	4,157,890
Small Demand	2,491,735	2,104,471	28,131,688	25,540,259
Large	1,671,314	1,680,530	19,963,299	19,852,611
Street Lighting	471,713	477,638	5,809,543	5,557,483
Sub-total	4,867,330	4,598,362	57,823,299	55,108,243
Total	27,199,437	25,826,065	334,026,000	319,209,674
U. S. Navy	4,808,157	5,271,574	65,706,812	59,119,199
GRAND TOTAL	32,007,594	31,097,639	399,732,812	378,328,873
NUMBER OF CUSTOMERS:				
Residential	44,479	43,887	44,226	44,006
Small Gen. Non Demand	4,087	4,159	4,173	4,158
Small Gen. Demand	1,080	982	1,002	984
Large General	120	118	119	119
Independent Power Producer	2	2	2	3
Private St. Lights	520	525	522	529
Sub-total	50,288	49,673	50,044	49,798
Government Service:				
Small Non Demand	644	677	671	685
Small Demand	382	353	360	351
Large	44	47	43	47
Street Lighting	618	627	624	489
Sub-total	1,688	1,704	1,698	1,573
Total	51,976	51,377	51,742	51,371
US Navy	1	1	1	1
	51,977	51,378	51,743	51,372

GPA403

GUAM POWER AUTHORITY
ACCRUED REVENUE

	TWELVE MONTHS ENDED	SEPTEMBER 2019	AUGUST 2019	JULY 2019	JUNE 2019	MAY 2019	APRIL 2019	MARCH 2019	FEBRUARY 2019	JANUARY 2019	DECEMBER 2018	NOVEMBER 2018	OCTOBER 2018
KWH SALES:													
Residential	496,772,627	39,850,588	41,847,978	45,512,584	46,454,816	45,901,332	42,026,049	40,399,698	33,484,048	36,661,215	41,291,151	41,148,899	42,194,270
Small General Non Demand	76,100,951	5,281,337	5,043,909	6,192,199	7,135,817	6,785,836	7,066,118	6,549,399	5,421,847	6,252,665	6,871,789	6,712,433	6,787,602
Small General Demand	187,640,074	16,034,273	16,546,802	17,132,421	16,196,923	16,473,837	15,551,604	15,250,813	13,414,678	14,926,054	15,425,672	15,054,686	15,632,311
Large General	301,278,928	24,400,150	25,901,704	25,960,590	25,905,882	25,831,230	24,717,184	24,793,966	22,118,423	24,846,497	25,790,483	26,074,017	24,938,803
Private Outdoor Lighting	396,459	32,707	34,326	31,882	34,779	33,473	30,560	32,171	32,766	32,878	33,401	33,984	33,531
Independent Power Producer	398,257	47,591	31,920	34,342	33,644	31,329	28,130	34,407	25,891	36,117	28,494	35,867	30,526
Sub-Total	1,062,587,295	85,646,645	89,406,638	94,864,018	95,761,862	95,057,036	89,419,645	87,060,454	74,497,653	82,755,426	89,440,990	89,059,886	89,617,042
Government Service:													
Small Non Demand	12,770,354	733,348	792,642	745,870	1,225,034	1,265,906	1,195,401	1,192,582	1,019,279	1,066,520	1,218,540	1,096,422	1,218,809
Small Demand	97,901,061	8,706,945	8,790,473	8,806,768	7,970,826	8,650,402	8,019,578	8,144,760	7,207,579	7,752,635	8,107,721	7,758,614	7,984,760
Large	71,987,379	6,031,079	6,328,596	6,026,050	5,952,146	6,344,614	5,914,002	5,983,823	5,273,740	5,782,397	6,098,140	5,989,384	6,263,407
Street Lighting (Agencies)	9,241,597	711,804	864,386	763,574	710,958	838,818	763,841	710,856	791,792	714,935	805,684	744,605	820,343
Sub-Total	191,900,391	16,183,177	16,776,096	16,342,261	15,858,964	17,099,740	15,892,823	16,032,021	14,292,390	15,316,487	16,230,084	15,589,026	16,287,320
Total	1,254,487,686	101,829,822	106,182,735	111,206,280	111,620,826	112,156,776	105,312,468	103,092,475	88,790,044	98,071,914	105,671,074	104,648,912	105,904,362
U.S. Navy	313,798,066	25,184,246	27,239,150	27,997,548	27,082,742	28,255,054	27,083,234	26,077,843	22,368,909	24,517,651	26,518,827	24,888,490	26,584,373
Grand Total	1,568,285,752	127,014,068	133,421,884	139,203,828	138,703,568	140,411,830	132,395,702	129,170,318	111,158,952	122,589,564	132,189,902	129,537,402	132,488,734
REVENUE:													
Residential	124,466,118	10,007,200	10,470,951	11,397,991	11,569,285	11,457,009	10,559,992	10,171,326	8,491,117	9,109,499	10,347,514	10,286,420	10,597,812
Small General Non Demand	22,305,464	1,579,415	1,492,266	1,835,976	2,060,263	1,943,284	2,086,044	1,927,366	1,599,494	1,844,100	2,002,603	1,938,660	1,995,993
Small General Demand	51,467,910	4,422,371	4,572,505	4,665,289	4,374,426	4,442,708	4,275,919	4,237,399	3,714,204	4,135,462	4,234,344	4,091,967	4,301,317
Large General	77,543,313	6,283,768	6,671,085	6,607,718	6,673,278	6,615,844	6,321,363	6,456,767	5,778,637	6,433,966	6,618,506	6,715,109	6,367,272
Private Outdoor Lighting	309,708	25,616	26,038	25,412	26,200	25,670	25,155	25,651	25,784	26,100	25,860	26,021	26,201
Independent Power Producer	110,188	13,738	9,248	8,337	8,701	8,600	7,310	9,896	7,681	10,117	7,355	10,699	8,507
Sub-Total	276,202,701	22,332,107	23,242,093	24,540,723	24,712,154	24,493,115	23,275,783	22,828,405	19,616,918	21,559,243	23,236,182	23,068,875	23,297,103
Government Service:													
Small Non Demand	3,918,769	232,567	250,901	235,628	373,461	383,585	361,853	364,404	311,171	328,284	373,332	335,403	368,179
Small Demand	28,131,688	2,491,735	2,527,222	2,494,451	2,319,401	2,465,281	2,284,016	2,363,416	2,065,940	2,248,023	2,372,119	2,230,742	2,269,343
Large	19,963,299	1,671,314	1,754,837	1,655,430	1,659,702	1,743,611	1,632,794	1,668,683	1,492,275	1,614,932	1,688,786	1,646,650	1,734,285
Street Lighting (Agencies)	5,809,543	471,713	503,316	482,461	471,543	497,965	482,529	472,435	488,836	465,560	498,967	479,197	495,021
Sub-Total	57,823,299	4,867,330	5,036,276	4,867,971	4,824,107	5,090,441	4,761,191	4,868,938	4,358,222	4,656,799	4,933,204	4,691,993	4,866,827
Total	334,026,000	27,199,437	28,278,369	29,408,694	29,536,261	29,583,556	28,036,974	27,697,343	23,975,139	26,216,042	28,169,387	27,760,868	28,163,930
U.S. Navy	65,706,812	4,808,157	5,647,382	5,623,735	6,373,008	5,183,974	4,925,354	5,245,421	5,307,473	5,221,857	5,266,617	6,152,798	5,951,036
Grand Total	399,732,812	32,007,594	33,925,751	35,032,429	35,909,269	34,767,531	32,962,328	32,942,764	29,282,613	31,437,899	33,436,004	33,913,666	34,114,966
NUMBER OF CUSTOMERS:													
Residential	44,226	44,479	44,497	44,408	44,329	44,640	44,200	44,144	44,018	44,091	43,920	43,876	44,112
Small General Non Demand	4,173	4,087	4,122	4,197	4,211	4,213	4,185	4,183	4,173	4,180	4,166	4,176	4,183
Small General Demand	1,002	1,080	1,086	1,014	971	983	985	985	984	986	987	981	984
Large General	119	120	121	120	119	119	118	121	119	119	118	119	117
Private Outdoor Lighting	522	520	518	519	520	520	522	523	521	522	523	524	527
Independent Power Producer	2	2	2	2	2	2	2	2	2	2	2	3	3
Sub-Total	50,044	50,288	50,346	50,260	50,152	50,477	50,012	49,958	49,817	49,900	49,716	49,679	49,926
Government Service:													
Small Non Demand	671	644	648	671	676	676	672	675	678	679	683	667	686
Small Demand	360	382	382	381	356	355	356	357	357	356	360	327	352
Large	43	44	44	43	43	42	42	42	42	42	47	38	47
Street Lighting (Agencies)	624	618	618	619	618	618	621	629	628	628	628	628	629
Sub-Total	1,698	1,688	1,692	1,714	1,693	1,691	1,691	1,703	1,705	1,705	1,718	1,660	1,714
Total	51,742	51,976	52,038	51,974	51,845	52,168	51,703	51,661	51,522	51,605	51,434	51,339	51,640
U.S. Navy	1	1	1	1	1	1	1	1	1	1	1	1	1
Grand Total	51,743	51,977	52,039	51,975	51,846	52,169	51,704	51,662	51,523	51,606	51,435	51,340	51,641

GPA303

GUAM POWER AUTHORITY
ACCRUED REVENUE
SEPTEMBER

RATE	NUMBER OF CUSTOMERS	KWH SALES	TOTAL REVENUE AMOUNT	TOTAL REVENUE C/KWH	BASE RATE REVENUE C/KWH	BASE RATE REVENUE AMOUNT	AVERAGE PER CUSTOMER KWH	AVERAGE PER CUSTOMER REVENUE	NON-FUEL C/KWH	NON-FUEL AMOUNT	0.154242 OIL C/KWH	OIL AMOUNT
Month												
R Residential	44,479	39,850,588	$ 10,007,200	$ 25.11	$ 25.11	$ 10,007,200	896	$ 225	$ 9.69	$ 3,860,566	$ 15.42	$ 6,146,634
G Small Gen. Non Demand	4,087	5,281,337	$ 1,579,415	$ 29.91	$ 29.91	$ 1,579,415	1,292	$ 386	$ 14.48	$ 764,811	$ 15.42	$ 814,604
J Small Gen. Demand	1,080	16,034,273	$ 4,422,371	$ 27.58	$ 27.58	$ 4,422,371	14,847	$ 4,095	$ 12.16	$ 1,950,367	$ 15.42	$ 2,472,003
P Large General	120	24,400,150	$ 6,283,768	$ 25.75	$ 25.75	$ 6,283,768	203,335	$ 52,365	$ 10.41	$ 2,538,980	$ 15.35	$ 3,744,788
I Independent Power Producer	2	47,591	$ 13,738	$ 28.87	$ 28.87	$ 13,738	23,795	$ 6,869	$ 14.02	$ 6,675	$ 14.84	$ 7,063
H Private St. Lights	520	32,707	$ 25,616	$ 78.32	$ 78.32	$ 25,616	63	$ 49	$ 62.89	$ 20,571	$ 15.42	$ 5,045
Sub-Total	50,288	85,646,645	$ 22,332,107	$ 26.07	$ 26.07	$ 22,332,107	1,703	$ 444	$ 10.67	$ 9,141,970	$ 15.40	$ 13,190,137
Government Service:												
S Small Non Demand	644	733,348	$ 232,567	$ 31.71	$ 31.71	$ 232,567	1,139	$ 361	$ 16.29	$ 119,454	$ 15.42	$ 113,113
K Small Demand	382	8,706,945	$ 2,491,735	$ 28.62	$ 28.62	$ 2,491,735	22,793	$ 6,523	$ 13.19	$ 1,148,759	$ 15.42	$ 1,342,977
L Large	44	6,031,079	$ 1,671,314	$ 27.71	$ 27.71	$ 1,671,314	137,070	$ 37,984	$ 12.47	$ 752,344	$ 15.24	$ 918,970
F Street Lighting (Agencies)	618	711,804	$ 471,713	$ 66.27	$ 66.27	$ 471,713	1,152	$ 763	$ 50.85	$ 361,923	$ 15.42	$ 109,790
Sub-Total	1,688	16,183,177	$ 4,867,330	$ 30.08	$ 30.08	$ 4,867,330	9,587	$ 2,883	$ 14.72	$ 2,382,480	$ 15.35	$ 2,484,850
	51,976	101,829,822	$ 27,199,437	$ 56.15	$ 56.15	$ 27,199,437	1,959	$ 523	$ 11.32	$ 11,524,450	$ 15.39	$ 15,674,987
U.S. Navy	1	25,184,246	$ 4,808,157	$ 19.09	$ 19.09	$ 4,808,157			$ 6.15	$ 1,548,643	$ 12.94	$ 3,259,514
TOTAL	**51,977**	**127,014,068**	**$ 32,007,594**	**$ 25.20**	**$ 25.20**	**$ 32,007,594**	**2,444**	**$ 616**	**$ 10.29**	**$ 13,073,093**	**$ 14.91**	**$ 18,934,501**
Twelve Months Ending September 2019												
R Residential	44,226	496,772,627	$ 124,466,118	$ 25.05	$ 25.05	$ 124,466,118	11,233	$ 2,814	$ 9.63	$ 47,842,914	$ 15.42	$ 76,623,203
G Small Gen. Non Demand	4,173	76,100,951	$ 22,305,464	$ 29.31	$ 29.31	$ 22,305,464	18,237	$ 5,345	$ 13.89	$ 10,567,501	$ 15.42	$ 11,737,963
J Small Gen. Demand	1,002	187,640,074	$ 51,467,910	$ 27.43	$ 27.43	$ 51,467,910	187,234	$ 51,357	$ 12.01	$ 22,538,652	$ 15.42	$ 28,929,258
P Large General	119	301,278,928	$ 77,543,313	$ 25.74	$ 25.74	$ 77,543,313	2,528,215	$ 650,713	$ 10.39	$ 31,292,377	$ 15.35	$ 46,250,936
I Independent Power Producer	2	398,257	$ 110,188	$ 27.67	$ 27.67	$ 110,188	183,811	$ 50,856	$ 12.79	$ 50,936	$ 14.88	$ 59,253
H Private St. Lights	522	396,459	$ 309,708	$ 78.12	$ 78.12	$ 309,708	760	$ 594	$ 62.69	$ 248,557	$ 15.42	$ 61,151
Sub-Total	50,044	1,062,587,295	$ 276,202,701	$ 25.99	$ 25.99	$ 276,202,701	21,233	$ 5,519	$ 10.59	$ 112,540,937	$ 15.40	$ 163,661,764
Government Service:												
S Small Non Demand	671	12,770,354	$ 3,918,769	$ 30.69	$ 30.69	$ 3,918,769	19,025	$ 5,838	$ 15.26	$ 1,949,044	$ 15.42	$ 1,969,725
K Small Demand	360	97,901,061	$ 28,131,688	$ 28.73	$ 28.73	$ 28,131,688	271,884	$ 78,125	$ 13.31	$ 13,031,233	$ 15.42	$ 15,100,456
L Large	43	71,987,379	$ 19,963,299	$ 27.73	$ 27.73	$ 19,963,299	1,674,125	$ 464,263	$ 12.49	$ 8,994,374	$ 15.24	$ 10,968,925
F Street Lighting (Agencies)	624	9,241,597	$ 5,809,543	$ 62.86	$ 62.86	$ 5,809,543	14,822	$ 9,318	$ 47.44	$ 4,384,101	$ 15.42	$ 1,425,442
Sub-Total	1,698	191,900,391	$ 57,823,299	$ 30.13	$ 30.13	$ 57,823,299	113,027	$ 34,057	$ 14.78	$ 28,358,751	$ 15.35	$ 29,464,548
U.S. Navy	1	313,798,066	$ 65,706,812	$ 20.94	$ 20.94	$ 65,706,812			$ 6.36	$ 19,964,974	$ 14.58	$ 45,741,838
TOTAL	**51,743**	**1,568,285,752**	**$ 399,732,812**	**$ 25.49**	**$ 25.49**	**$ 399,732,812**	**30,309**	**$ 7,725**	**$ 10.26**	**$ 160,864,662**	**$ 15.23**	**$ 238,868,150**
Twelve Months Ending September 2019												
R Residential	44,226	496,772,627	$ 124,466,118	$ 25.05	$ 25.05	$ 124,466,118	11,233	$ 2,814	$ 9.63	$ 47,842,914	$ 15.42	$ 76,623,203
G Small Gen. Non Demand	4,173	76,100,951	$ 22,305,464	$ 29.31	$ 29.31	$ 22,305,464	18,237	$ 5,345	$ 13.89	$ 10,567,501	$ 15.42	$ 11,737,963
J Small Gen. Demand	1,002	187,640,074	$ 51,467,910	$ 27.43	$ 27.43	$ 51,467,910	187,234	$ 51,357	$ 12.01	$ 22,538,652	$ 15.42	$ 28,929,258
P Large General	119	301,278,928	$ 77,543,313	$ 25.74	$ 25.74	$ 77,543,313	2,528,215	$ 650,713	$ 10.39	$ 31,292,377	$ 15.35	$ 46,250,936
I Independent Power Producer	2	398,257	$ 110,188	$ 27.67	$ 27.67	$ 110,188	183,811	$ 50,856	$ 12.79	$ 50,936	$ 14.88	$ 59,253
H Private St. Lights	522	396,459	$ 309,708	$ 78.12	$ 78.12	$ 309,708	760	$ 594	$ 62.69	$ 248,557	$ 15.42	$ 61,151
Sub-Total	50,044	1,062,587,295	$ 276,202,701	$ 25.99	$ 25.99	$ 276,202,701	21,233	$ 5,519	$ 10.59	$ 112,540,937	$ 15.40	$ 163,661,764
Government Service:												
S Small Non Demand	671	12,770,354	$ 3,918,769	$ 30.69	$ 30.69	$ 3,918,769	19,025	$ 5,838	$ 15.26	$ 1,949,044	$ 15.42	$ 1,969,725
K Small Demand	360	97,901,061	$ 28,131,688	$ 28.73	$ 28.73	$ 28,131,688	271,884	$ 78,125	$ 13.31	$ 13,031,233	$ 15.42	$ 15,100,456
L Large	43	71,987,379	$ 19,963,299	$ 27.73	$ 27.73	$ 19,963,299	1,674,125	$ 464,263	$ 12.49	$ 8,994,374	$ 15.24	$ 10,968,925
F Street Lighting (Agencies)	624	9,241,597	$ 5,809,543	$ 62.86	$ 62.86	$ 5,809,543	14,822	$ 9,318	$ 47.44	$ 4,384,101	$ 15.42	$ 1,425,442
Sub-Total	1,698	191,900,391	$ 57,823,299	$ 30.13	$ 30.13	$ 57,823,299	113,027	$ 34,057	$ 14.78	$ 28,358,751	$ 15.35	$ 29,464,548
	51,742	1,254,487,686	$ 334,026,000	$ 26.63	$ 26.63	$ 334,026,000	24,245	$ 39,576	$ 11.23	$ 140,899,688	$ 15.39	$ 193,126,312
U.S. Navy	1	313,798,066	$ 65,706,812	$ 20.94	$ 20.94	$ 65,706,812			$ 6.36	$ 19,964,974	$ 14.58	$ 45,741,838
TOTAL	**51,743**	**1,568,285,752**	**$ 399,732,812**	**$ 25.49**	**$ 25.49**	**$ 399,732,812**	**30,309**	**$ 7,725**	**$ 10.26**	**$ 160,864,662**	**$ 15.23**	**$ 238,868,150**

GPA-318

318Sep19

ENERGY ACCOUNT

FY 2019 Versus FY 2018

FOR INTERNAL USE ONLY

	September 2019		September 2018		Y T D 2019		Y T D 2018		MOVING TWELVE MONTHS	
Gross Generation										
Number of days in Period	**30**		**30**		**365**		**61**		**365**	
Peak demand	**243**		**240**		**255**		**254**		**255**	
Date	**09/24/19**		**09/18/18**		**06/06/19**		**10/30/17**		**06/06/19**	
	KWH	**% change**	**KWH**	**% change**	**KWH**	**% change**	**KWH**	**% change**	**KWH**	**% change**
Energy Account:										
Kilowatt hours GPA:										
Cabras 1 & 2	73,007,000		39,547,000		757,816,000		651,235,000		757,816,000	
Cabras No. 3	0		0		0		0		0	
Cabras No. 4	0		0		0		0		0	
MEC (ENRON) Piti 8 (IPP)	24,329,900		27,038,800		278,448,200		318,373,900		278,448,200	
MEC (ENRON) Piti 9 (IPP)	9,937,400		25,348,200		291,081,370		323,835,900		291,081,370	
TEMES Piti 7 (IPP)	2,301,638		8,794,652		49,357,195		40,313,497		49,357,195	
Tanguisson 2	0		0		0		0		0	
Tanguisson 1	0		0		0		0		0	
Diesels/CT's & Others:							0			
MDI 10MW	0		314,391		702,690		1,300,258		702,690	
NRG Solar Dandan	3,221,221		3,343,655		47,970,525		46,301,346		47,970,525	
Dededo CT #1	0		4,290,780		4,891,810		11,806,070		4,891,810	
Dededo CT #2	86,570		4,817,040		7,678,240		12,226,470		7,678,240	
Macheche CT	5,014,161		2,912,826		53,874,184		48,354,741		53,874,184	
Yigo CT (Leased)	3,920,599		6,487,000		49,270,425		48,913,165		49,270,425	
Tenjo	2,866,360		2,514,900		28,243,370		41,498,130		28,243,370	
Talofofo 10 MW	577,480		0		8,815,890		13,311,900		8,815,890	
Aggreko	14,175,180		4,880,536		149,419,646		160,728,090		149,419,646	
Wind Turbine*	20,055		337		144,798		312,304		144,798	
Orote	0		0		0		0		0	
Marbo	0		0		0		0		0	
	139,457,563		**130,290,117**		**1,727,714,342**		**1,718,510,771**		**1,727,714,342**	
Ratio to last year		107.04		89.98		100.54		**97.47**		**100.54**
Station use	5,736,984		4,705,562		66,890,463		62,715,940		66,890,463	
Ratio to Gross generation		4.11		3.61		3.87		3.65		**3.87**
Net send out	133,720,579		125,584,555		1,660,823,880		1,655,794,831		1,660,823,880	
Ratio to last year		106.48		89.96		100.30		**97.56**		**100.30**
KWH deliveries:										
Sales to Navy (@34.5kv)	**25,184,246**		**23,161,867**		**313,798,067**		**306,460,172**		**313,798,067**	
Ratio to last year		108.73		86.08		102.39		**96.19**		**102.39**
GPA-metered	**108,536,333**		**102,422,688**		**1,347,025,813**		**1,349,334,659**		**1,347,025,813**	
Ratio to last year		105.97		90.88		99.83		**97.88**		**99.83**
Power factor adj.	0		0		0		0		0	
Adjusted	108,536,333		102,422,688		1,347,025,813		1,349,334,659		1,347,025,813	
GPA KWH Accountability:										
Sales to civilian customers-accrual basis	**101,829,822**		**95,772,942**		**1,254,487,687**		**1,260,591,970**		**1,254,487,687**	
Ratio to last year		106.32		90.28		99.52		**97.61**		**99.52**
GPA use-KWH	343,250		289,813		4,139,793		3,887,569		4,139,793	
Unaccounted For	6,363,261		6,359,933		88,398,333		84,855,120		88,398,333	
Ratio to deliveries		5.86		6.21		6.56		6.29		6.56
Ratio to Gross Generation		4.56		4.88		5.12		4.94		5.12
Ratio to Net Send Out		4.76		5.06		5.32		5.12		5.32

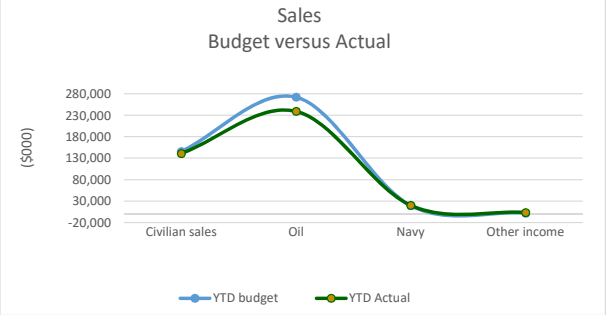
GPA-317Sep19

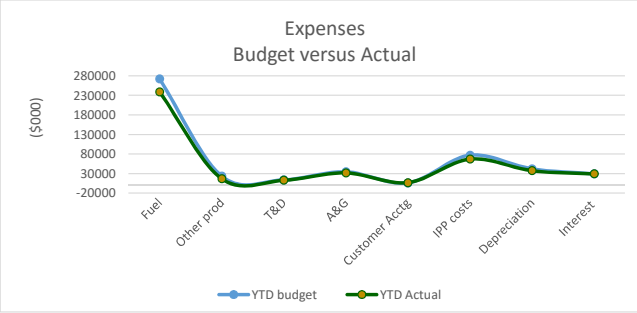
Guam Power Authority
Fuel Consumption
FY 2019

Description	September 2019 BARRELS	September 2019 AMOUNT	YEAR-TO-DATE BARRELS	YEAR-TO-DATE AMOUNT	MOVING 12 MONTHS BARREL S	MOVING 12 MONTHS AMOUNT
FUEL FURNISHED:						
NAVY:						
Diesel	0	0	0	0	0	0
Low Sulfur	0	0	0	0	0	0
	0	**0**	**0**	**0**	**0**	**0**
GPA:						
RFO	77,620	$5,295,499	1,367,123	$ 100,293,854	1,367,123	$ 100,293,854
Diesel	58,589	$5,184,019	735,941	$ 69,128,493	735,941	$ 69,128,493
Low Sulfur	93,581	$7,169,192	670,382	$ 53,124,922	670,382	$ 53,124,922
Deferred Fuel Costs	0	-$221,876	0	$ (1,573,190)	0	$ (1,573,190)
Fuel Adjustments	0	$182,296		$ 237,063	0	$ 237,063
Fuel Handling Costs	0	$1,325,372	0	$ 17,657,008	0	$ 17,657,008
	229,791	**$18,934,501**	**2,773,446**	**$ 238,868,150**	**2,773,446**	**$ 238,868,150**
IWPS:						
GPA RFO	77,620	$5,295,499	1,367,123	$ 100,293,854	1,367,123	$ 100,293,854
Diesel	58,589	$5,184,019	735,941	$ 69,128,493	735,941	$ 69,128,493
Low Sulfur	93,581	$7,169,192	670,382	$ 53,124,922	670,382	$ 53,124,922
Deferred Fuel Costs	0	-$221,876	0	$ (1,573,190)	0	$ (1,573,190)
Fuel Variance	0	$182,296	0	$ 237,063		$ 237,063
Fuel Handling Costs	0	$1,325,372	0	$ 17,657,008	0	$ 17,657,008
	229,791	**$18,934,501**	**2,773,446**	**$ 238,868,150**	**2,773,446**	**$ 238,868,150**
AVERAGE COST/Bbl.						
GPA RFO		**$68.22**		**$73.36**		**$73.36**
Diesel		**$88.48**		**$93.93**		**$93.93**
Low Sulfur		**$76.61**		**$79.25**		**$79.25**
AS BURNED						
Cabras 1 & 2						
RFO	54,276	$ 3,687,879	930,441	$ 68,725,037	930,441	$ 68,725,037
Low Sulfur	71,747	$ 5,476,609	348,001	$ 26,992,160	348,001	$ 26,992,160
Diesel	84	$ 7,015	1,789	$ 167,675	1,789	$ 167,675
	126,107	$ 9,171,503	1,280,231	$ 95,884,872	1,280,231	$ 95,884,872
Cabras 3 & 4						
RFO	0	$ -	0	$ -	0	$ -
Low Sulfur	0	$ -	0	$ -	0	$ -
Diesel	0	$ -	0	$ -	0	$ -
	0	$ -	0	$ -	0	$ -
MEC (Piti Units 8&9)						
RFO	23,344	$ 1,607,620	436,682	$ 31,568,817	436,682	$ 31,568,817
Low Sulfur	21,834	$ 1,692,582	322,380	$ 26,132,762	322,380	$ 26,132,762
Diesel	4	$ 263	42	$ 2,994	42	$ 2,994
	45,182	$ 3,300,465	759,104	$ 57,704,573	759,104	$ 57,704,573
Diesel & CT's - GPA:						
MDI Dsl	0	$ -	1,072	$ 89,260	1,072	$ 89,260
Macheche CT	10,953	$ 950,870	117,171	$ 10,908,620	117,171	$ 10,908,620
Yigo CT	8,895	$ 765,695	107,420	$ 9,983,450	107,420	$ 9,983,450
Talofofo 10 MW	974	$ 84,514	15,564	$ 1,419,959	15,564	$ 1,419,959
Aggreko	26,136	$ 2,240,813	276,159	$ 25,322,663	276,159	$ 25,322,663
Tenjo	4,911	$ 533,406	49,682	$ 5,280,958	49,682	$ 5,280,958
TEMES (IPP)	6,334	$ 572,126	128,038	$ 12,239,610	128,038	$ 12,239,610
GWA Generators	41	$ 5,249	995	$ 128,325	995	$ 128,325
	58,502	$ 5,176,741	734,110	$ 68,957,824	734,110	$ 68,957,824
Deferred Fuel Costs	0	$ (221,876)		$ (1,573,190)		$ (1,573,190)
Adjustment		$ 182,296		$ 237,063		$ 237,063
Fuel Handling Costs	0	$ 1,325,372		$ 17,657,008		$ 17,657,008
TOTAL	**229,791**	**$ 18,934,501**	**2,773,446**	**$ 238,868,150**	**2,773,446**	**$ 238,868,150**

Statement of operations
Comparison-Budget versus Actual
For the month and year to date ended September 30, 2019

	Budget	Actual September-19	Variance	YTD Budget	YTD Actual	Variance
KwH Sales-Civilian	107,020	101,830	5,190	1,302,611	1,254,488	48,123
Non-fuel yield	$ 0.105505	$ 0.113169	$ (0.007664)	$ 0.105467	$ 0.112317	$ (0.006850)
KwH Sales-Navy	26,130	25,184	946	309,392	313,798	(4,406)
Non-fuel yield	$ 0.062350	$ 0.061507	$ 0.000843	$ 0.062350	$ 0.063627	$ (0.001277)
Operating revenue						
Civilian sales	$ 11,961	$ 11,524	$ 437	$ 145,711	$ 140,900	$ 4,811
Oil	23,422	18,935	4,487	272,011	238,870	33,141
Navy	1,629	1,549	80	19,291	19,966	(675)
Other income	168	313	(144)	2,020	3,219	(1,199)
	$ 37,181	$ 32,321	$ 4,860	$ 439,033	$ 402,955	$ 36,078
Bad debts expense	92	92	-	1,098	1,098	-
Total operating revenues	$ 37,090	$ 32,229	$ 4,860	$ 437,935	$ 401,857	$ 36,078
Operating expenses:						
Production fuel	$ 23,422	$ 18,935	$ 4,488	$ 272,011	$ 238,868	$ 33,143
O & M expenses:						
Other production	1,836	2,061	(225)	23,652	16,811	6,841
Transmission distribution	529	672	(143)	13,856	12,738	1,118
Administrative expense	3,286	3,366	(81)	34,428	31,634	2,794
Customer accounting	429	606	(177)	4,930	5,675	(745)
	6,079	6,706	(626)	76,866	66,858	10,008
IPP costs	1,347	1,003	344	16,168	13,966	2,201
Depreciation	3,501	3,141	361	42,016	37,344	4,672
	$ 34,350	$ 29,784	$ 4,566	$ 407,061	$ 357,036	$ 50,025
Operating income	$ 2,739	$ 2,445	$ 294	$ 30,874	$ 44,821	$ (13,947)
Other revenue (expenses):						
Investment income	177	894	(717)	2,124	4,997	(2,873)
Interest expense	(2,414)	(2,524)	110	(29,124)	(29,171)	47
AFUDC	202	-	202	2,420	-	2,420
Losses due to typhoon	-	(1,171)	1,171	-	(1,863)	1,863
Bond issuance costs/Other expenses	142	85	58	1,708	1,005	703
Net income before capital contribution	847	(271)	1,117	8,002	19,789	(11,788)
Grants from the U.S. Government	-	1,170	(1,170)	-	1,385	(1,385)
Increase (decrease) in net assets	$ 847	$ 899	$ (53)	$ 8,002	$ 21,174	$ (13,173)





Guam Power Authority
Debt service coverage
September 30, 2019

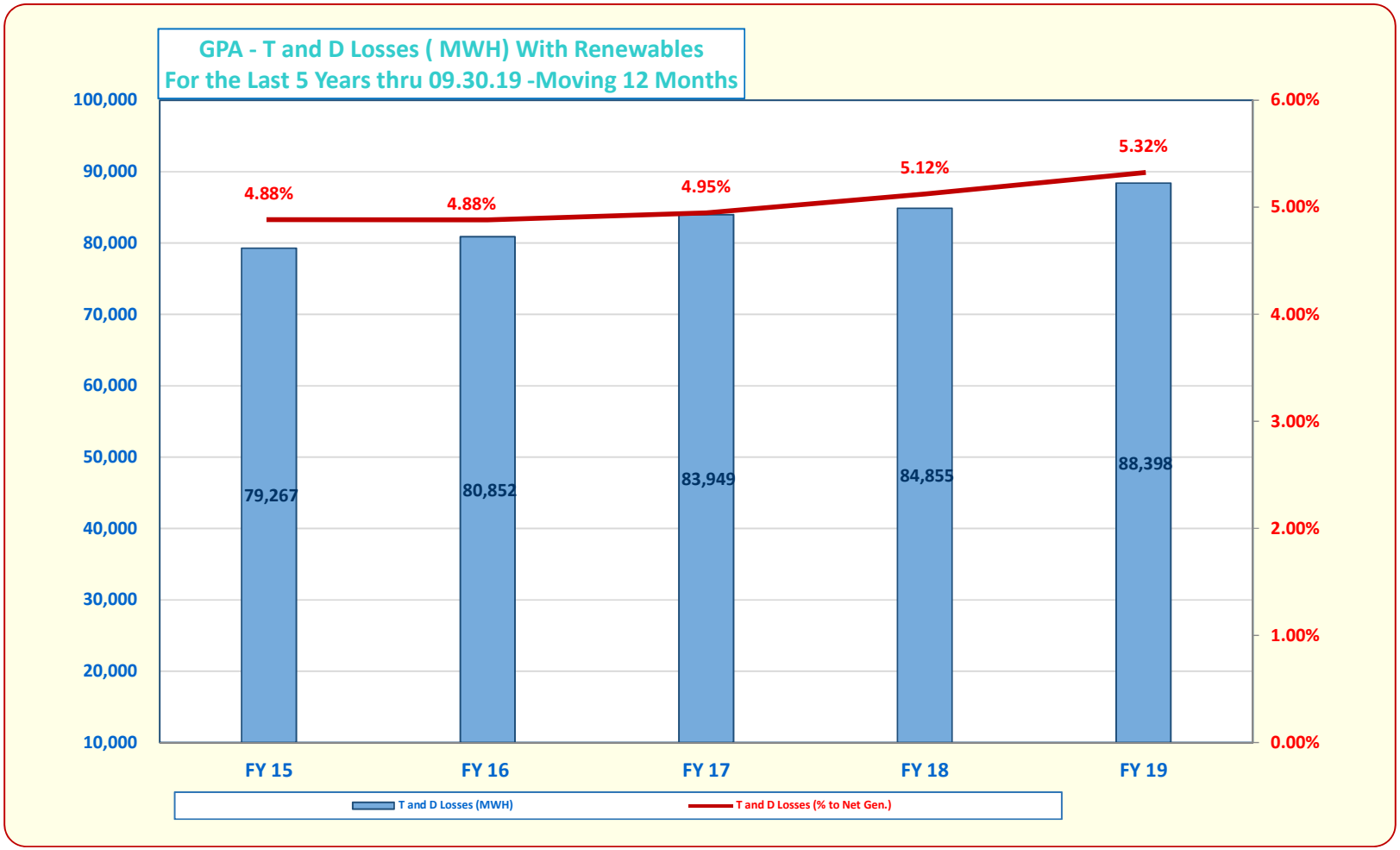
	2015	2016	Restated 2017	Audited 2018	YTD Unaudited 2019
Funds Available for Debt Service					
Earnings from Operations	$ 48,758	$ 37,981	$ 36,522	$ 38,164	$ 44,818
Interest Income	256	57	122	620	5,008
Depreciation Expense	41,766	44,240	44,292	37,184	37,344
Balance Available for Debt Service	$ 90,780	$ 82,278	$ 80,936	$ 75,968	$ 87,170
IPP - Capital Costs					
Principal	$ 18,144	$ 14,819	$ 20,796	$ 23,210	$ 13,470
Interest	8,478	5,970	5,609	3,159	1,068
Total IPP Payments	$ 26,622	$ 20,789	$ 26,400	$ 26,369	$ 14,538
Bond Debt Service					
Principal (1993 & 1999 Revenue Bond)	$ -	$ -	$ -	$ -	$ -
Interest (1993 & 1999 Revenue Bond)	-	-	-	-	-
Principal and Interest (2010 Subordinate Bond)	9,605	-	-	-	-
Principal and Interest (2010 Senior TE Bond)	7,999	7,999	7,999	2,000	-
Principal and Interest (2012 Senior TE Bond)	17,096	17,098	17,449	17,086	31,467
Principal and Interest (2014 Senior TE Bond)	-	10	5,084	5,083	5,084
Principal and Interest (2017 Senior TE Bond)				5,916	7,607
Total	$ 34,700	$ 25,107	$ 30,532	$ 30,086	$ 44,158
Debt Service Coverage (DSC) Calculation					
Existing DSC Methodology (Senior)	2.56 x	2.45 x	1.79 x	1.65 x	1.64
Existing DSC Methodology (Senior+Subordinate)	1.85 x	2.45 x	1.79 x	1.65 x	1.64
Bond Covenant DSC	3.62 x	3.28 x	2.65 x	2.53 x	1.97
Debt Service Coverage Requirements					
Existing Ratemaking DSC Target	1.75 x	1.75 x	1.75 x	1.75 x	1.75
Minimum Bond Covenant Requirement (Senior Bond)	1.30 x	1.30 x	1.30 x	1.30 x	1.30
Minimum Bond Covenant Requirement (Subordinate Bond	1.20 x	1.20 x	1.20 x	1.20 x	1.20

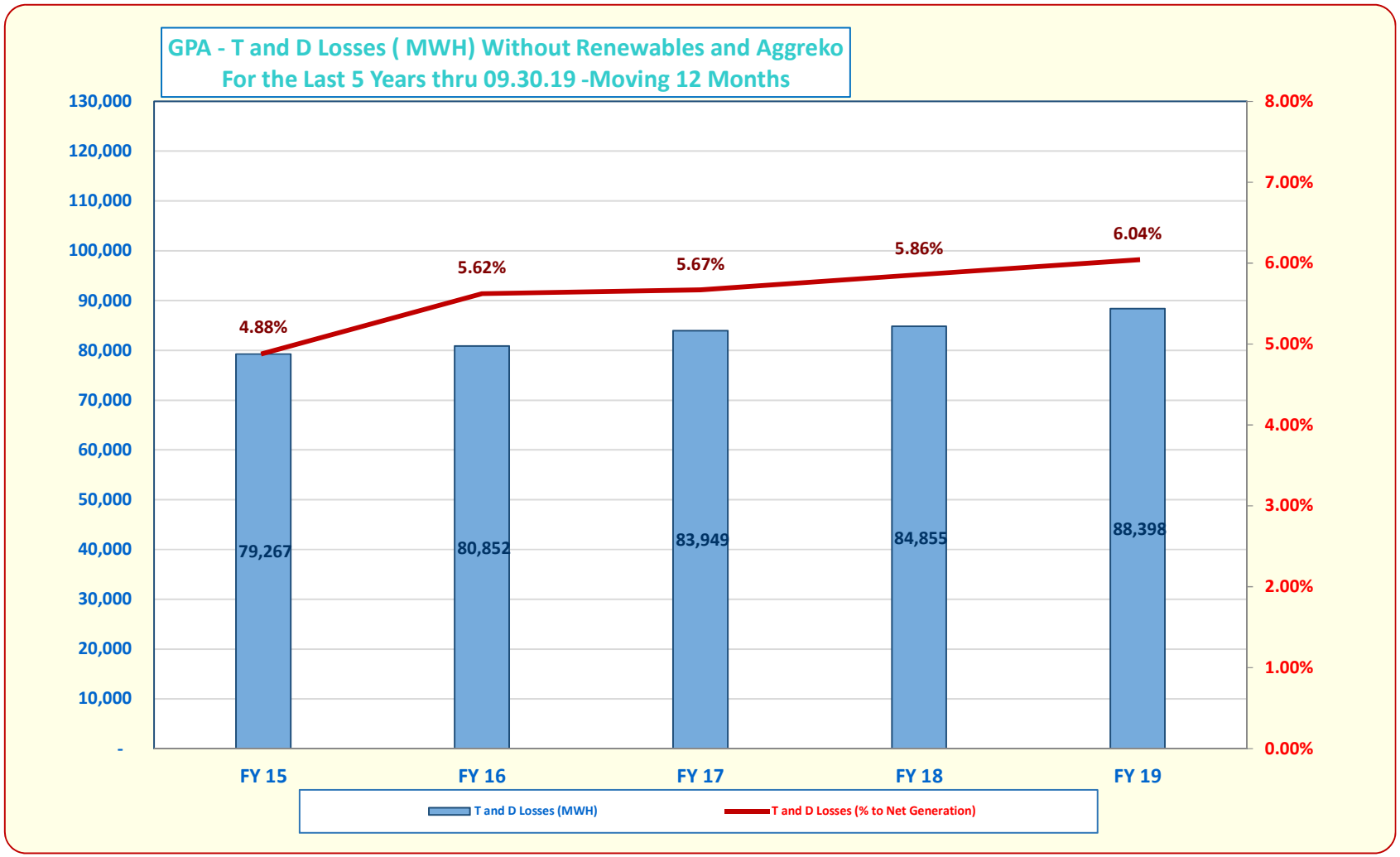
Notes:
(1) Source: Guam Power Authority, 2014 - 2018 Audited Financial Statements
(2) Interest income is net of interest earnings in the Construction Fund and the amortization of deferred credit
(3) Existing DSC Methodology (Rating Agency Method):
(Operating Earnings + Depreciation Expense - IPP Principal & Interest Payments)/
(Senior and Subordinate Bond Principal & Interest Payments)
(4) Bond Covenant DSC Methodology: (Operating Earnings + Depreciation Expense)/
(Senior and Subordinate Bond Principal & Interest Payments)

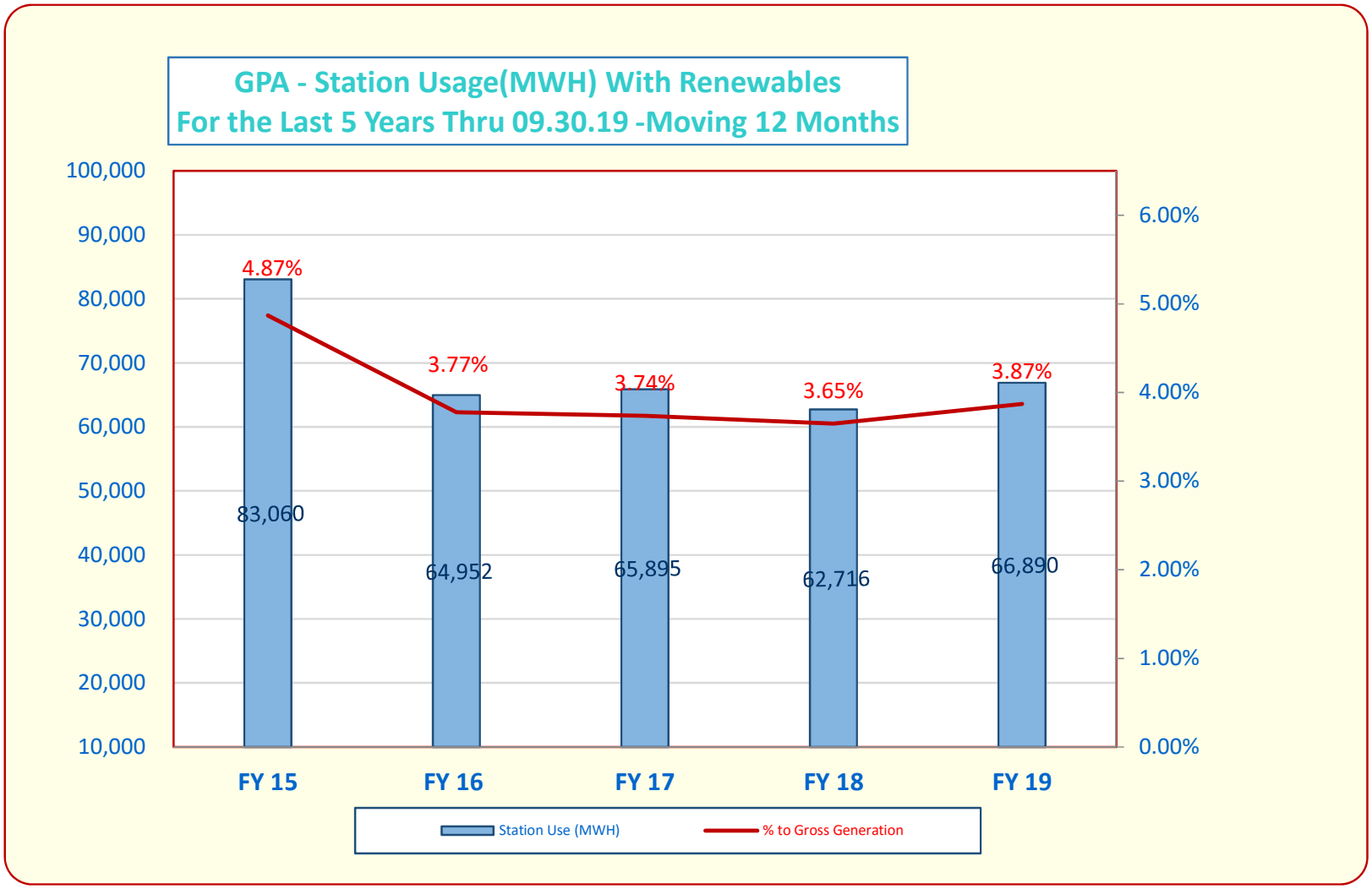
REVENUES-ACTUAL VS PROJECTIONS

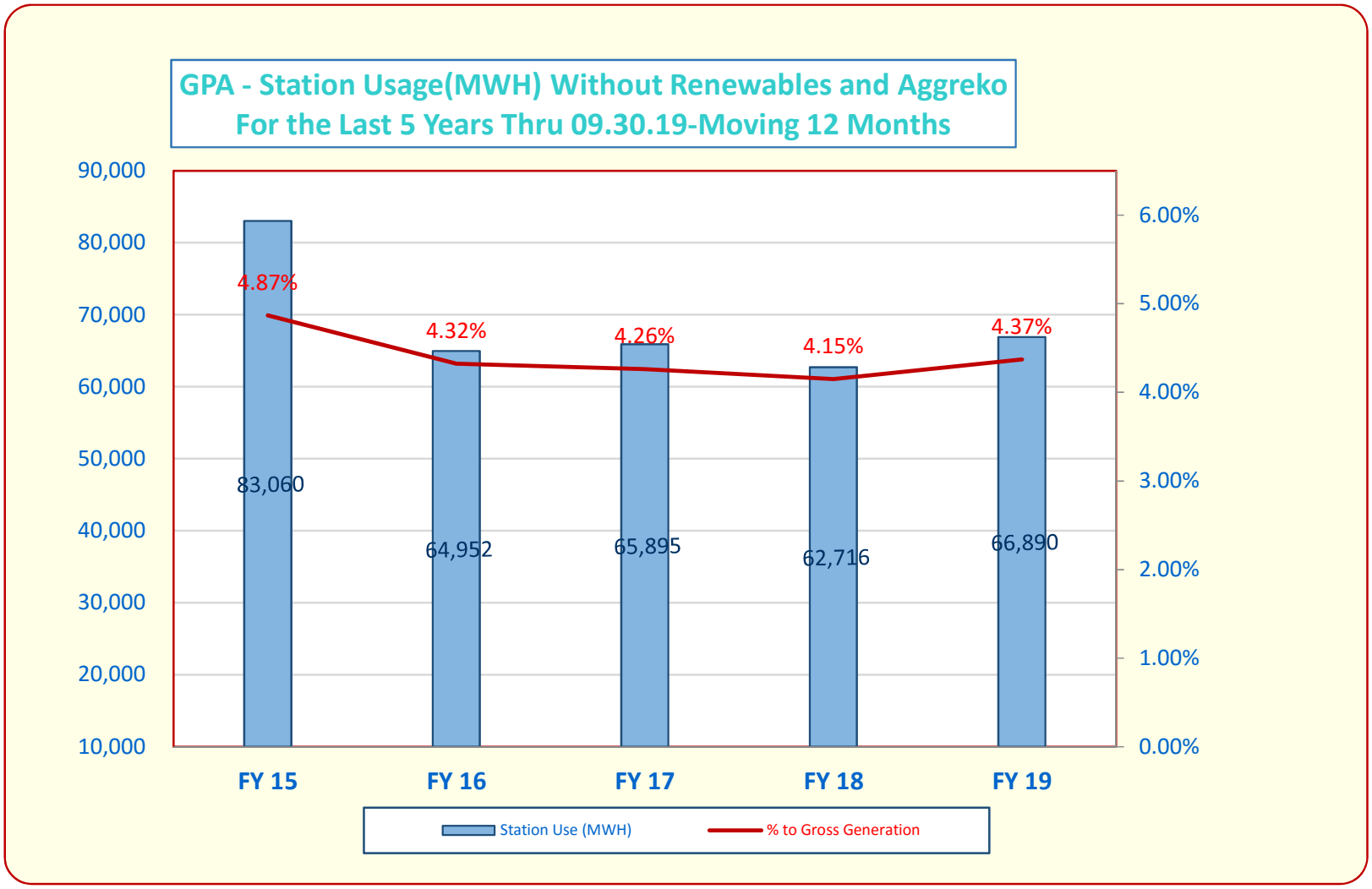
	MONTHLY - SEPTEMBER 2019				YTD THRU 09/30/19			
	PROJECTIONS	ACTUAL	VARIANCE	% VARIANCE	PROJECTIONS	ACTUAL	VARIANCE	% VARIANCE
KWH								
Residential	42,264,435	39,850,588	(2,413,847)	-5.71%	515,774,022	496,772,627	(19,001,396)	-3.68%
Small General-Non-Demand	7,164,486	5,281,337	(1,883,149)	-26.28%	85,601,024	76,100,951	(9,500,073)	-11.10%
Small General-Demand	15,197,022	16,034,273	837,251	5.51%	186,222,983	187,640,074	1,417,090	0.76%
Large	25,736,344	24,400,150	(1,336,194)	-5.19%	318,337,293	301,278,928	(17,058,365)	-5.36%
Independent Power Producers	44,969	47,591	2,622	5.83%	556,231	398,257	(157,973)	-28.40%
Private St. Lites	29,145	32,707	3,562	12.22%	379,599	396,459	16,860	4.44%
Sub-total	**90,436,401**	**85,646,645**	**(4,789,756)**	**-5.30%**	**1,106,871,152**	**1,062,587,295**	**(44,283,856)**	**-4.00%**
Government								
Small_Non Demand	1,298,216	733,348	(564,867)	-43.51%	14,483,611	12,770,354	(1,713,257)	-11.83%
Small-Demand	8,024,956	8,706,945	681,989	8.50%	96,166,646	97,901,061	1,734,416	1.80%
Large	6,621,909	6,031,079	(590,830)	-8.92%	76,379,683	71,987,379	(4,392,305)	-5.75%
Public St. Lites	638,059	711,804	73,745	11.56%	8,709,989	9,241,597	531,607	6.10%
Sub-total	**16,583,140**	**16,183,177**	**(399,964)**	**-2.41%**	**195,739,929**	**191,900,391**	**(3,839,539)**	**-1.96%**
Total-Civilian	**107,019,542**	**101,829,822**	**(5,189,720)**	**-4.85%**	**1,302,611,081**	**1,254,487,686**	**(48,123,395)**	**-3.69%**
USN	26,129,839	25,184,246	(945,592)	-3.62%	309,391,923	313,798,066	4,406,143	1.42%
Grand Total	**133,149,380**	**127,014,068**	**(6,135,312)**	**-4.61%**	**1,612,003,004**	**1,568,285,752**	**(43,717,252)**	**-2.71%**
					-	-		
Non-Oil Yield								
Residential	0.096102	0.096876	0.000774	0.81%	0.096102	0.096307	0.000205	0.21%
Small General-Non-Demand	0.136352	0.144814	0.008462	6.21%	0.136352	0.138862	0.002510	1.84%
Small General-Demand	0.119289	0.121637	0.002348	1.97%	0.119289	0.120116	0.000827	0.69%
Large	0.103671	0.104056	0.000385	0.37%	0.103671	0.103865	0.000194	0.19%
Independent Power Producers	0.120485	0.140249	0.019764	0.00%	0.120485	0.127897	0.007412	0.00%
Private St. Lites	0.568458	0.628938	0.060480	10.64%	0.568458	0.626943	0.058485	10.29%
Sub-total	**0.105505**	**0.106741**	**0.001235**	**1.17%**	**0.105467**	**0.105912**	**0.000445**	**0.42%**
Government					-			
Small_Non Demand	0.150024	0.162888	0.012864	8.57%	0.150024	0.152623	0.002599	1.73%
Small-Demand	0.134359	0.131936	(0.002423)	-1.80%	0.134359	0.133106	(0.001253)	-0.93%
Large	0.126658	0.124745	(0.001913)	-1.51%	0.126658	0.124944	(0.001714)	-1.35%
Public St. Lites	0.482817	0.508459	0.025642	5.31%	0.482817	0.474388	(0.008429)	-1.75%
Sub-total	**0.145918**	**0.147220**	**0.001302**	**0.89%**	**0.148019**	**0.147778**	**(0.000240)**	**-0.16%**
Total-Civilian	**0.175911**	**0.113174**	**(0.062738)**	**-35.66%**	**0.168765**	**0.112317**	**(0.056449)**	**-33.45%**
USN	0.062350	0.061493	(0.000857)	-1.38%	0.062350	0.063624	0.001274	2.04%
Grand Total	**0.102070**	**0.102926**	**0.000857**	**0.84%**	**0.102358**	**0.102574**	**0.000215**	**0.21%**
Non-Oil Revenues								
Residential	4,061,697	3,860,566	(201,131)	-4.95%	49,566,915	47,842,914	(1,724,001)	-3.48%
Small General-Non-Demand	976,892	764,811	(212,081)	-21.71%	11,671,871	10,567,501	(1,104,370)	-9.46%
Small General-Demand	1,812,838	1,950,367	137,530	7.59%	22,214,353	22,538,652	324,299	1.46%
Large	2,668,113	2,538,980	(129,132)	-4.84%	33,002,346	31,292,377	(1,709,969)	-5.18%
Independent Power Producers	5,418	6,675	1,256	23.19%	67,017	50,936	(16,082)	-24.00%
Private St. Lites	16,568	20,571	4,003	24.16%	215,786	248,557	32,771	15.19%
Sub-total	**9,541,525**	**9,141,970**	**(399,555)**	**-4.19%**	**116,738,288**	**112,540,937**	**(4,197,351)**	**-3.60%**
Government								
Small_Non Demand	194,764	119,454	(75,310)	-38.67%	2,172,889	1,949,044	(223,845)	-10.30%
Small-Demand	1,078,225	1,148,759	70,534	6.54%	12,920,854	13,031,233	110,378	0.85%
Large	838,718	752,344	(86,373)	-10.30%	9,674,098	8,994,374	(679,724)	-7.03%
Public St. Lites	308,066	361,923	53,857	17.48%	4,205,331	4,384,101	178,770	4.25%
Sub-total	**2,419,772**	**2,382,480**	**(37,292)**	**-1.54%**	**28,973,172**	**28,358,751**	**(614,421)**	**-2.12%**
Total-Civilian	**11,961,297**	**11,524,450**	**(436,847)**	**-3.65%**	**145,711,461**	**140,899,688**	**(4,811,773)**	**-3.30%**
USN	1,629,195	1,548,643	(80,553)	-4.94%	19,290,586	19,964,974	674,387	3.50%
Grand Total	**13,590,492**	**13,073,093**	**(517,399)**	**-3.81%**	**165,002,047**	**160,864,662**	**(4,137,385)**	**-2.51%**
% of Total Revenues	36.72%	40.84%			37.76%	40.24%		
Oil Revenues								
Residential	7,434,795	6,146,634	(1,288,160)	-17.33%	87,116,623	76,623,203	(10,493,420)	-12.05%
Small General-Non-Demand	1,260,315	814,604	(445,711)	-35.37%	14,453,980	11,737,963	(2,716,017)	-18.79%
Small General-Demand	2,673,329	2,472,003	(201,326)	-7.53%	31,418,617	28,929,258	(2,489,358)	-7.92%
Large	4,527,316	3,744,788	(782,528)	-17.28%	53,680,636	46,250,936	(7,429,699)	-13.84%
Independent Power Producers	7,911	7,063	(847)	-10.71%	93,796	59,253	(34,543)	-36.83%
Private St. Lites	5,127	5,045	(82)	-1.60%	63,520	61,151	(2,370)	-3.73%
Sub-total	**15,908,791**	**13,190,137**	**(2,718,654)**	**-17.09%**	**186,827,171**	**163,661,765**	**(23,165,407)**	**-12.40%**
Government								
Small_Non Demand	228,371	113,113	(115,258)	-50.47%	2,445,756	1,969,725	(476,031)	-19.46%
Small-Demand	1,411,681	1,342,977	(68,704)	-4.87%	16,209,455	15,100,456	(1,108,999)	-6.84%
Large	1,164,869	918,970	(245,899)	-21.11%	12,888,726	10,968,925	(1,919,801)	-14.90%
Public St. Lites	112,242	109,790	(2,452)	-2.18%	1,464,173	1,425,442	(38,730)	-2.65%
Sub-total	**2,917,163**	**2,484,850**	**(432,313)**	**-14.82%**	**33,008,110**	**29,464,548**	**(3,543,562)**	**-10.74%**
Total-Civilian	**18,825,954**	**15,674,987**	**(3,150,967)**	**-16.74%**	**219,835,281**	**193,126,313**	**(26,708,969)**	**-12.15%**
USN	4,596,536	3,259,514	(1,337,021)	-29.09%	52,175,832	45,741,838	(6,433,994)	-12.33%
Grand Total	**23,422,490**	**18,934,501**	**(4,487,989)**	**-19.16%**	**272,011,114**	**238,868,151**	**(33,142,963)**	**-12.18%**
% of Total Revenues	63.28%	59.16%			62.24%	59.76%		
Grand Total								
Residential	11,496,491	10,007,200	(1,489,291)	-12.95%	136,683,538	124,466,118	(12,217,421)	-8.94%
Small General-Non-Demand	2,237,207	1,579,415	(657,791)	-29.40%	26,125,851	22,305,464	(3,820,387)	-14.62%
Small General-Demand	4,486,167	4,422,371	(63,796)	-1.42%	53,632,970	51,467,910	(2,165,060)	-4.04%
Large	7,195,428	6,283,768	(911,660)	-12.67%	86,682,981	77,543,313	(9,139,668)	-10.54%
Independent Power Producers	13,329	13,738	409	3.07%	160,814	110,189	(50,624)	-31.48%
Private St. Lites	21,695	25,616	3,921	18.07%	279,306	309,708	30,401	10.88%
Sub-total	**25,450,316**	**22,332,107**	**(3,118,209)**	**-12.25%**	**303,565,460**	**276,202,701**	**(27,362,758)**	**-9.01%**
Government					-			
Small_Non Demand	423,134	232,567	(190,568)	-45.04%	4,618,645	3,918,769	(699,876)	-15.15%
Small-Demand	2,489,906	2,491,735	1,829	0.07%	29,130,309	28,131,688	(998,621)	-3.43%
Large	2,003,587	1,671,314	(332,273)	-16.58%	22,562,824	19,963,299	(2,599,526)	-11.52%
Public St. Lites	420,308	471,713	51,406	12.23%	5,669,503	5,809,543	140,040	2.47%
Sub-total	**5,336,935**	**4,867,330**	**(469,605)**	**-8.80%**	**61,981,282**	**57,823,299**	**(4,157,983)**	**-6.71%**
Total-Civilian	**30,787,251**	**27,199,437**	**(3,587,814)**	**-11.65%**	**365,546,742**	**334,026,001**	**(31,520,741)**	**-8.62%**
USN	6,225,731	4,808,157	(1,417,574)	-22.77%	71,466,419	65,706,812	(5,759,607)	-8.06%
Grand Total	**37,012,982**	**32,007,594**	**(5,005,388)**	**-13.52%**	**437,013,161**	**399,732,813**	**(37,280,348)**	**-8.53%**
	-	-	-					

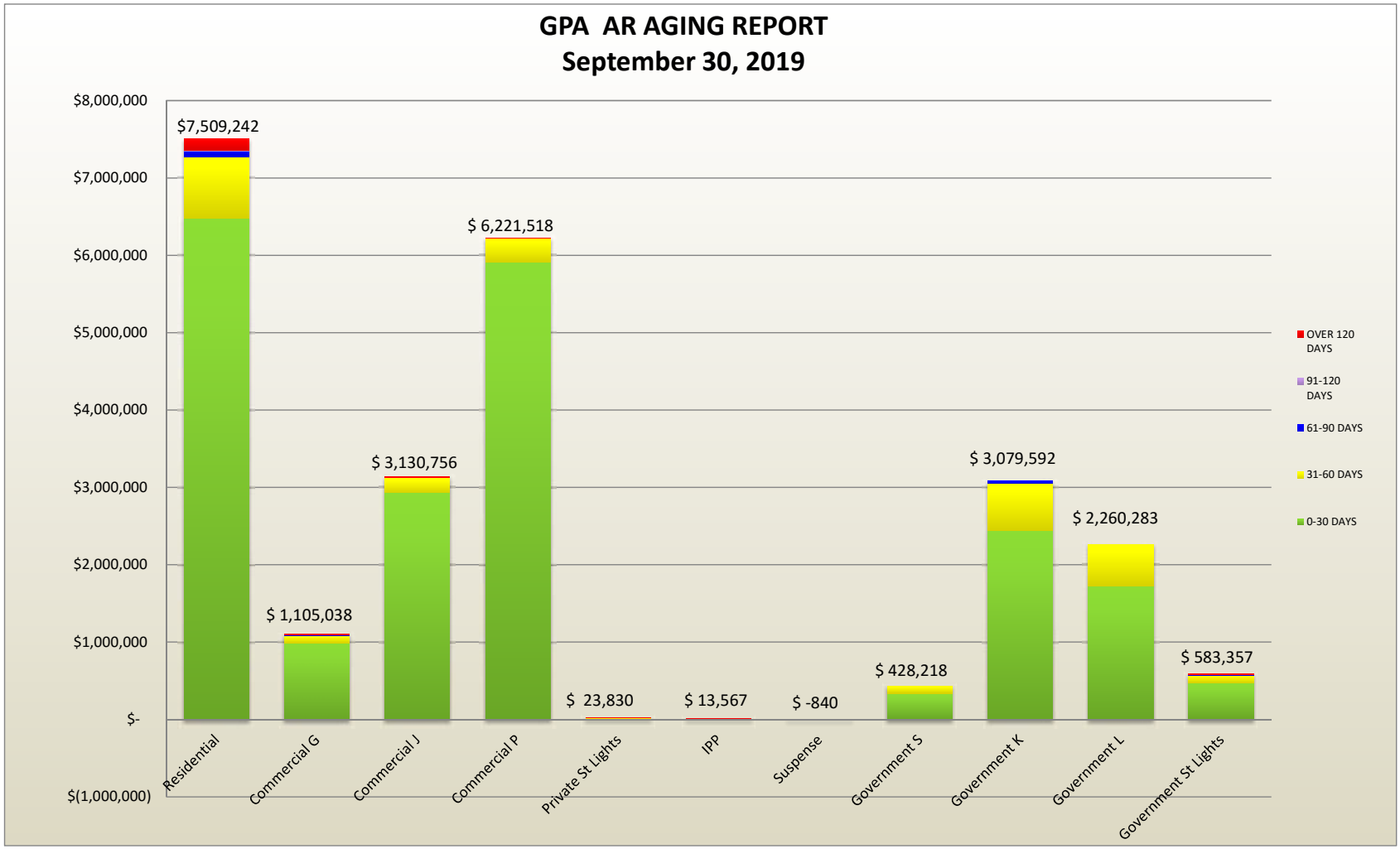
	YTD REVENUES - CURRENT YEAR VS PRIOR YEAR				MTD REVENUES - CURRENT YEAR VS PRIOR YEAR			
	ACTUALS - 12 MONTHS ENDED SEPTEMBER 30				ACTUALS - MONTH ENDED SEPTEMBER 30			
	2019	2018	VARIANCE	% VARIANCE	2019	2018	VARIANCE	% VARIANCE
KWH								
Residential	496,772,627	495,346,749	1,425,878	0.29%	39,850,588	37,207,511	2,643,076	7.10%
Small General-Non-Demand	76,100,951	81,419,604	(5,318,654)	-6.53%	5,281,337	6,128,698	(847,361)	-13.83%
Small General-Demand	187,640,074	184,605,153	3,034,921	1.64%	16,034,273	14,018,162	2,016,111	14.38%
Large	301,278,928	307,368,249	(6,089,320)	-1.98%	24,400,150	23,573,240	826,910	3.51%
Independent Power Producers	398,257	479,714	(81,457)	-16.98%	47,591	29,708	17,882	60.19%
Private St. Lites	396,459	403,056	(6,598)	-1.64%	32,707	34,933	(2,226)	-6.37%
Sub-total	**1,062,587,295**	**1,069,622,525**	**(7,035,230)**	**-0.66%**	**85,646,645**	**80,992,253**	**4,654,393**	**5.75%**
Government								
Small_Non Demand	12,770,354	14,326,985	(1,556,630)	-10.87%	733,348	1,089,787	(356,439)	-32.71%
Small-Demand	97,901,061	92,945,937	4,955,124	5.33%	8,706,945	7,082,161	1,624,784	22.94%
Large	71,987,379	74,650,307	(2,662,929)	-3.57%	6,031,079	5,873,776	157,303	2.68%
Public St. Lites	9,241,597	9,046,218	195,378	2.16%	711,804	734,966	(23,162)	-3.15%
Sub-total	**191,900,391**	**190,969,447**	**930,944**	**0.49%**	**16,183,177**	**14,780,690**	**1,402,487**	**9.49%**
Total-Civilian	**1,254,487,686**	**1,260,591,972**	**(6,104,286)**	**-0.48%**	**101,829,822**	**95,772,942**	**6,056,880**	**6.32%**
USN	313,798,066	306,460,172	7,337,894	2.39%	25,184,246	23,161,867	2,022,379	8.73%
Grand Total	**1,568,285,752**	**1,567,052,144**	**1,233,608**	**0.08%**	**127,014,068**	**118,934,809**	**8,079,259**	**6.79%**
Non-Oil Yield								
Residential	0.096307	0.096264	0.000043	0.04%	0.096876	0.096674	0.000202	0.21%
Small General-Non-Demand	0.138862	0.136877	0.001985	1.45%	0.144814	0.138383	0.006431	4.65%
Small General-Demand	0.120116	0.120054	0.000063	0.05%	0.121637	0.123493	-0.001856	-1.50%
Large	0.103865	0.104208	-0.000343	-0.33%	0.104056	0.108133	-0.004077	-3.77%
Independent Power Producers	0.127897	0.114929	0.012968	11.28%	0.140249	0.133213	0.007035	5.28%
Private St. Lites	0.626943	0.626462	0.000481	0.08%	0.628938	0.601263	0.027675	4.60%
Sub-total	**0.105912**	**0.105952**	**-0.000040**	**-0.04%**	**0.106741**	**0.108039**	**-0.001298**	**-1.20%**
Government								
Small_Non Demand	0.152623	0.150486	0.002137	1.42%	0.162888	0.153821	0.009067	5.89%
Small-Demand	0.133106	0.135060	-0.001954	-1.45%	0.131936	0.142909	-0.010973	-7.68%
Large	0.124944	0.127855	-0.002911	-2.28%	0.124745	0.133653	-0.008909	-6.67%
Public St. Lites	0.474388	0.473421	0.000967	0.20%	0.508459	0.495635	0.012824	2.59%
Sub-total	**0.147778**	**0.149429**	**-0.001650**	**-1.10%**	**0.147220**	**0.157575**	**-0.010355**	**-6.57%**
Total-Civilian	**0.112317**	**0.112539**	**-0.000222**	**-0.20%**	**0.113174**	**0.115683**	**-0.002510**	**-2.17%**
USN	0.063624	0.062452	0.001172	1.88%	0.061493	0.070049	-0.008557	-12.22%
Grand Total	**0.102574**	**0.102743**	**-0.000170**	**-0.17%**	**0.102926**	**0.106796**	**-0.003870**	**-3.62%**
Non-Oil Revenues								
Residential	47,842,914	47,684,300	158,614	0.33%	3,860,566	3,597,014	263,551	7.33%
Small General-Non-Demand	10,567,501	11,144,442	(576,940)	-5.18%	764,811	848,105	(83,293)	-9.82%
Small General-Demand	22,538,652	22,162,504	376,148	1.70%	1,950,367	1,731,150	219,217	12.66%
Large	31,292,377	32,030,195	(737,818)	-2.30%	2,538,980	2,549,051	(10,071)	-0.40%
Independent Power Producers	50,936	55,133	(4,197)	-7.61%	6,675	3,958	2,717	68.65%
Private St. Lites	248,557	252,499	(3,942)	-1.56%	20,571	21,004	(433)	-2.06%
Sub-total	**112,540,937**	**113,329,073**	**(788,136)**	**-0.70%**	**9,141,970**	**8,750,282**	**391,688**	**4.48%**
Government								
Small_Non Demand	1,949,044	2,156,006	(206,962)	-9.60%	119,454	167,632	(48,179)	-28.74%
Small-Demand	13,031,233	12,553,263	477,969	3.81%	1,148,759	1,012,105	136,654	13.50%
Large	8,994,374	9,544,414	(550,040)	-5.76%	752,344	785,049	(32,705)	-4.17%
Public St. Lites	4,384,101	4,282,666	101,434	2.37%	361,923	364,275	(2,352)	-0.65%
Sub-total	**28,358,751**	**28,536,350**	**(177,598)**	**-0.62%**	**2,382,480**	**2,329,061**	**53,419**	**2.29%**
Total-Civilian	**140,899,688**	**141,865,423**	**(965,734)**	**-0.68%**	**11,524,450**	**11,079,343**	**445,107**	**4.02%**
USN	19,964,974	19,138,937	826,037	4.32%	1,548,643	1,622,468	(73,826)	-4.55%
Grand Total	**160,864,662**	**161,004,359**	**(139,697)**	**-0.09%**	**13,073,093**	**12,701,811**	**371,282**	**2.92%**
% of Total Revenues								
Oil Revenues								
Residential	76,623,203	70,139,131	6,484,073	9.24%	6,146,634	5,738,961	407,673	7.10%
Small General-Non-Demand	11,737,963	11,534,398	203,565	1.76%	814,604	945,303	(130,699)	-13.83%
Small General-Demand	28,929,258	26,091,445	2,837,813	10.88%	2,472,003	2,161,438	310,565	14.37%
Large	46,250,936	42,888,867	3,362,069	7.84%	3,744,788	3,621,896	122,891	3.39%
Independent Power Producers	59,253	61,977	(2,724)	-4.40%	7,063	4,435	2,629	59.27%
Private St. Lites	61,151	56,540	4,610	8.15%	5,045	5,388	(343)	-6.37%
Sub-total	**163,661,765**	**150,772,358**	**12,889,406**	**8.55%**	**13,190,137**	**12,477,421**	**712,716**	**5.71%**
Government								
Small_Non Demand	1,969,725	2,001,884	(32,159)	-1.61%	113,113	168,091	(54,978)	-32.71%
Small-Demand	15,100,456	12,986,996	2,113,460	16.27%	1,342,977	1,092,367	250,610	22.94%
Large	10,968,925	10,308,197	660,728	6.41%	918,970	895,481	23,489	2.62%
Public St. Lites	1,425,442	1,274,816	150,626	11.82%	109,790	113,363	(3,572)	-3.15%
Sub-total	**29,464,548**	**26,571,893**	**2,892,655**	**10.89%**	**2,484,850**	**2,269,301**	**215,549**	**9.50%**
Total-Civilian	**193,126,313**	**177,344,252**	**15,782,061**	**8.90%**	**15,674,987**	**14,746,722**	**928,265**	**6.29%**
USN	45,741,838	39,980,262	5,761,576	14.41%	3,259,514	3,649,106	(389,592)	-10.68%
Grand Total	**238,868,151**	**217,324,513**	**21,543,637**	**9.91%**	**18,934,501**	**18,395,828**	**538,673**	**2.93%**
% of Total Revenues								
Grand Total								
Residential	124,466,118	117,823,431	6,642,686	5.64%	10,007,200	9,335,975	671,225	7.19%
Small General-Non-Demand	22,305,464	22,678,840	(373,376)	-1.65%	1,579,415	1,793,407	(213,992)	-11.93%
Small General-Demand	51,467,910	48,253,949	3,213,961	6.66%	4,422,371	3,892,588	529,782	13.61%
Large	77,543,313	74,919,062	2,624,251	3.50%	6,283,768	6,170,948	112,820	1.83%
Independent Power Producers	110,189	117,110	(6,921)	-5.91%	13,738	8,392	5,346	63.70%
Private St. Lites	309,708	309,040	668	0.22%	25,616	26,392	(777)	-2.94%
Sub-total	**276,202,701**	**264,101,431**	**12,101,270**	**4.58%**	**22,332,107**	**21,227,703**	**1,104,404**	**5.20%**
Government								
Small_Non Demand	3,918,769	4,157,890	(239,121)	-5.75%	232,567	335,723	(103,156)	-30.73%
Small-Demand	28,131,688	25,540,259	2,591,429	10.15%	2,491,735	2,104,471	387,264	18.40%
Large	19,963,299	19,852,611	110,688	0.56%	1,671,314	1,680,530	(9,216)	-0.55%
Public St. Lites	5,809,543	5,557,483	252,060	4.54%	471,713	477,638	(5,924)	-1.24%
Sub-total	**57,823,299**	**55,108,243**	**2,715,057**	**4.93%**	**4,867,330**	**4,598,362**	**268,968**	**5.85%**
Total-Civilian	**334,026,001**	**319,209,674**	**14,816,327**	**4.64%**	**27,199,437**	**25,826,065**	**1,373,372**	**5.32%**
USN	65,706,812	59,119,199	6,587,613	11.14%	4,808,157	5,271,574	(463,417)	-8.79%
Grand Total	**399,732,813**	**378,328,873**	**21,403,940**	**5.66%**	**32,007,594**	**31,097,639**	**909,955**	**2.93%**
	-	-				-		


GPA - T and D Losses (MWH) With Renewables
For the Last 5 Years thru 09.30.19 -Moving 12 Months
100,000
90,000
80,000
70,000
60,000
50,000
40,000
30,000
20,000
10,000
6.00%
5.00%
4.00%
3.00%
2.00%
1.00%
0.00%
4.88%
4.88%
4.95%
5.12%
5.32%
79,267
80,852
83,949
84,855
88,398
FY 15
FY 16
FY 17
FY 18
FY 19
T and D Losses (MWH)
T and D Losses (% to Net Gen.)


GPA - T and D Losses (MWH) Without Renewables and Aggreko
For the Last 5 Years thru 09.30.19 -Moving 12 Months
130,000
120,000
110,000
100,000
90,000
80,000
70,000
60,000
50,000
40,000
30,000
20,000
10,000
-
8.00%
7.00%
6.00%
5.00%
4.00%
3.00%
2.00%
1.00%
0.00%
4.88%
5.62%
5.67%
5.86%
6.04%
79,267
80,852
83,949
84,855
88,398
FY 15
FY 16
FY 17
FY 18
FY 19
T and D Losses (MWH)
T and D Losses (% to Net Generation)


GPA - Station Usage(MWH) With Renewables
For the Last 5 Years Thru 09.30.19 -Moving 12 Months
100,000
90,000
80,000
70,000
60,000
50,000
40,000
30,000
20,000
10,000
6.00%
5.00%
4.00%
3.00%
2.00%
1.00%
0.00%
4.87%
3.77%
3.74%
3.65%
3.87%
83,060
64,952
65,895
62,716
66,890
FY 15
FY 16
FY 17
FY 18
FY 19
Station Use (MWH)
% to Gross Generation


GPA - Station Usage(MWH) Without Renewables and Aggreko
For the Last 5 Years Thru 09.30.19-Moving 12 Months
90,000
80,000
70,000
60,000
50,000
40,000
30,000
20,000
10,000
6.00%
5.00%
4.00%
3.00%
2.00%
1.00%
0.00%
4.87%
4.32%
4.26%
4.15%
4.37%
83,060
64,952
65,895
62,716
66,890
FY 15
FY 16
FY 17
FY 18
FY 19
Station Use (MWH)
% to Gross Generation


GPA AR AGING REPORT
September 30, 2019
$8,000,000
$7,000,000
$6,000,000
$5,000,000
$4,000,000
$3,000,000
$2,000,000
$1,000,000
$-
$(1,000,000)
$7,509,242
$ 1,105,038
$ 3,130,756
$ 6,221,518
$ 23,830
$ 13,567
$ -840
$ 428,218
$ 3,079,592
$ 2,260,283
$ 583,357
Residential
Commercial G
Commercial J
Commercial P
Private St Lights
IPP
Suspense
Government S
Government K
Government L
Government St Lights
OVER 120 DAYS
91-120 DAYS
61-90 DAYS
31-60 DAYS
0-30 DAYS