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, January 23, 2020

AGENDA

1. **ISSUES FOR DECISION**
   - 1.1 **NEM Policy Requiring Installation of ESS for New NEM Solar PV & Wind Turbine Customers / Resolution 2020-01**
   - 1.2 **Procurement of a Contractor for the Bulk Supply of Diesel Fuel Oil No. 2 for Power Generating Plants / Resolution 2020-02**
   - 1.3 **Extension of the Existing Contract for the Mgmt., Operations and Maint. of the Fuel Bulk Storage Facility with IP&E / Resolution 2020-03**
   - 1.4 **Recognizing & Congratulating GPA's Recent Professional Engineers / Resolution 2020-04**

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

3. **ISSUES FOR DISCUSSION**
   - 3.1 **Cost of Service Study - Condos**

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: January 28th**

7. **ADJOURNMENT**

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

Issues for Decision

Resolution No. 2020-01

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 MAY 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.

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RESOLUTION NO. 2020-01

AUTHORIZING MANAGEMENT TO REQUIRE ALL FUTURE NET METERING SOLAR PHOTOVOLTAIC (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; and

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; and

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 Photovoltaic (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, 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 **May 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 28TH DAY OF JANUARY, 2020.

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: _____

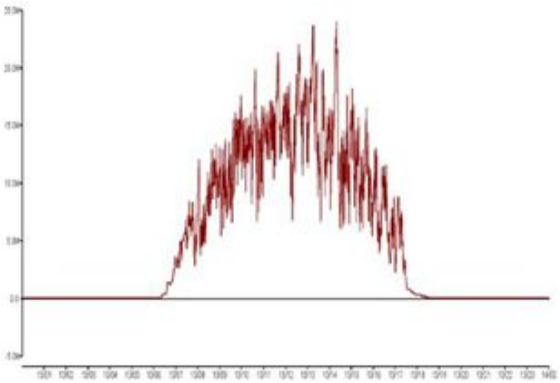
Exhibit A

NEM Customer Profile

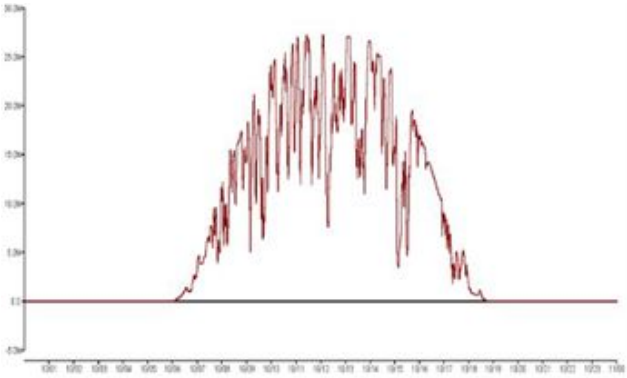
PV Output Looks Like This …

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		

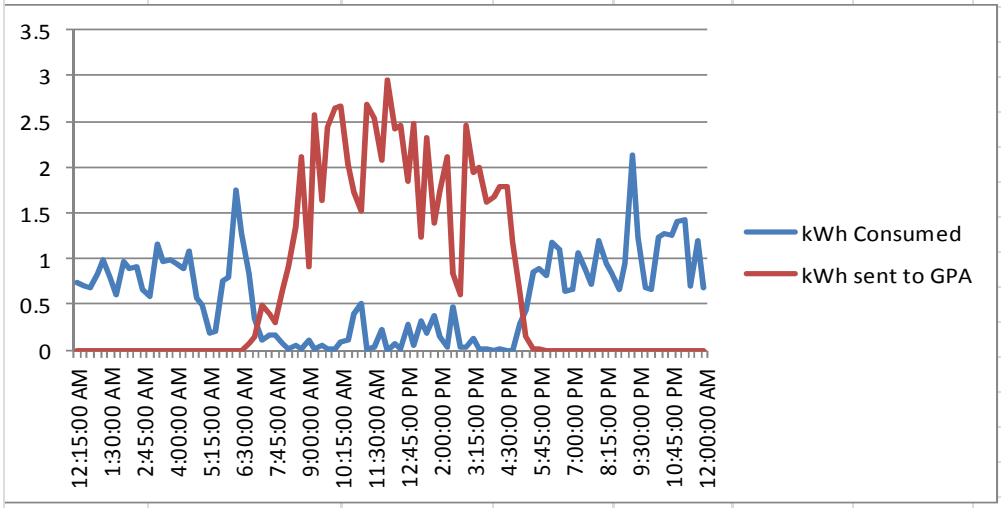


Exhibit B

Solar PV Production is Inconsistent and Requires Substantial Battery Reserves

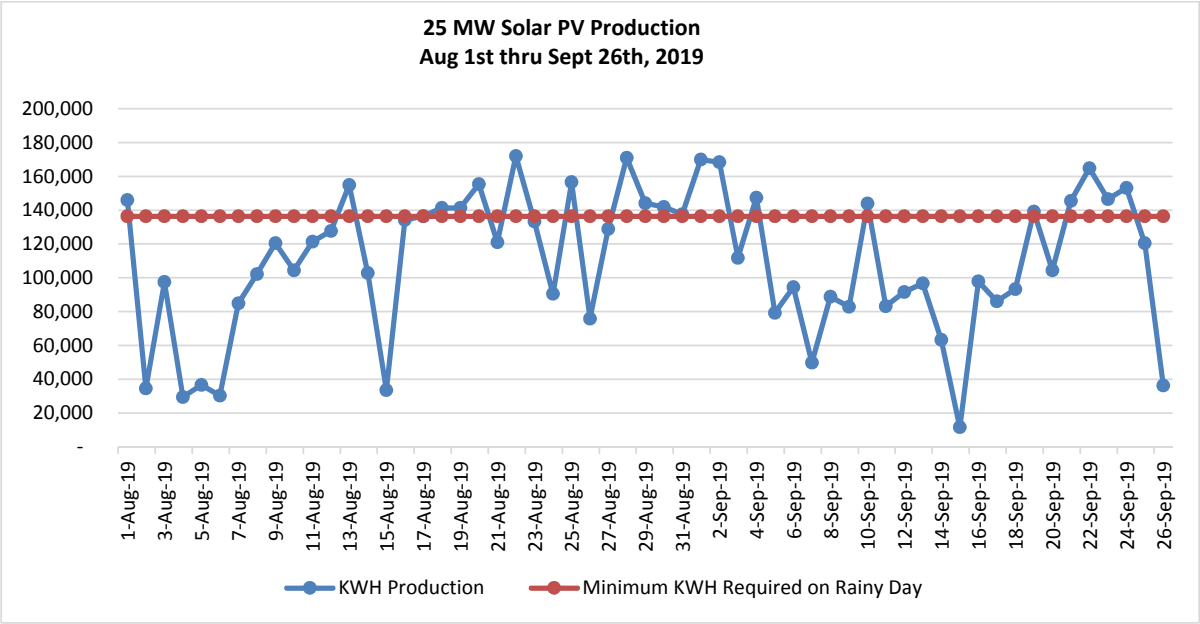
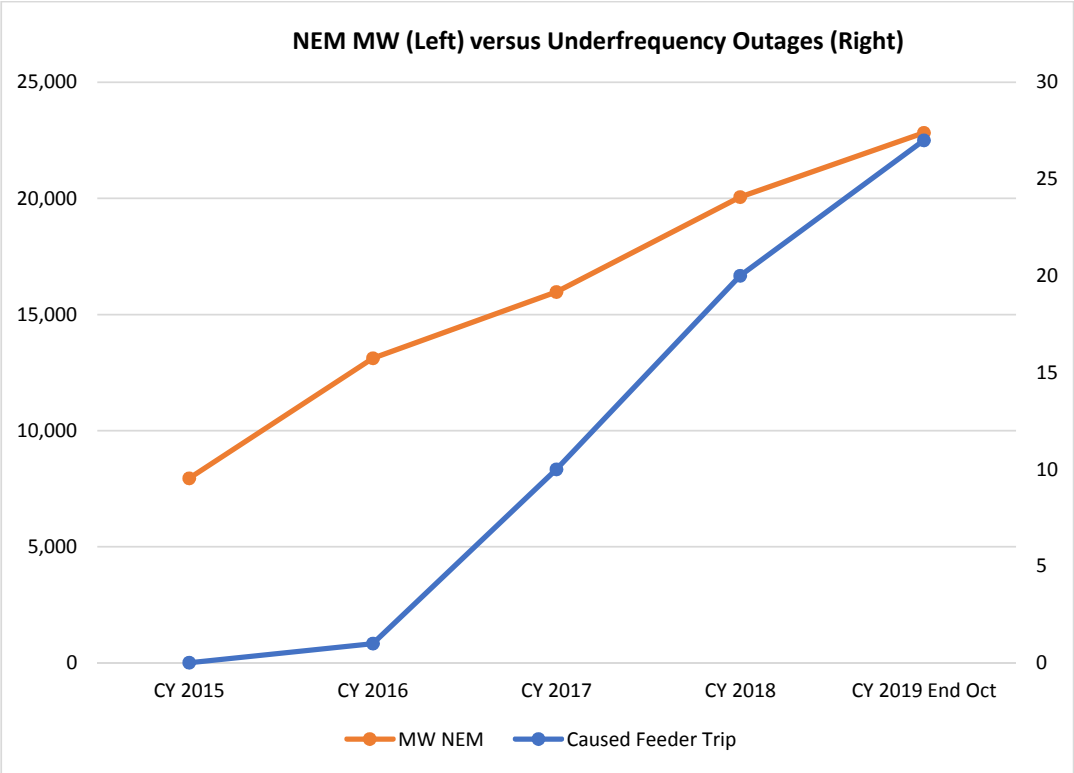


Exhibit C



STAKEHOLDER OUTREACH ON CCU NET METERING RESOLUTIONS

John M. Benavente, P.E.
General Manager

January 9, 2020
CCU Conference Room, 3rd Fl
Gloria B. Nelson Public Service Building
Fadian, Mangilao

OVERVIEW

GPA is proposing two (2) changes to the current Net Metering (NEM) program:

1. Require all future solar PV & wind turbine systems to have frequency control capability or energy storage systems (batteries) in order to be tied into GPA's grid; and

2. Remove the annual cash payment and credit roll-over options.

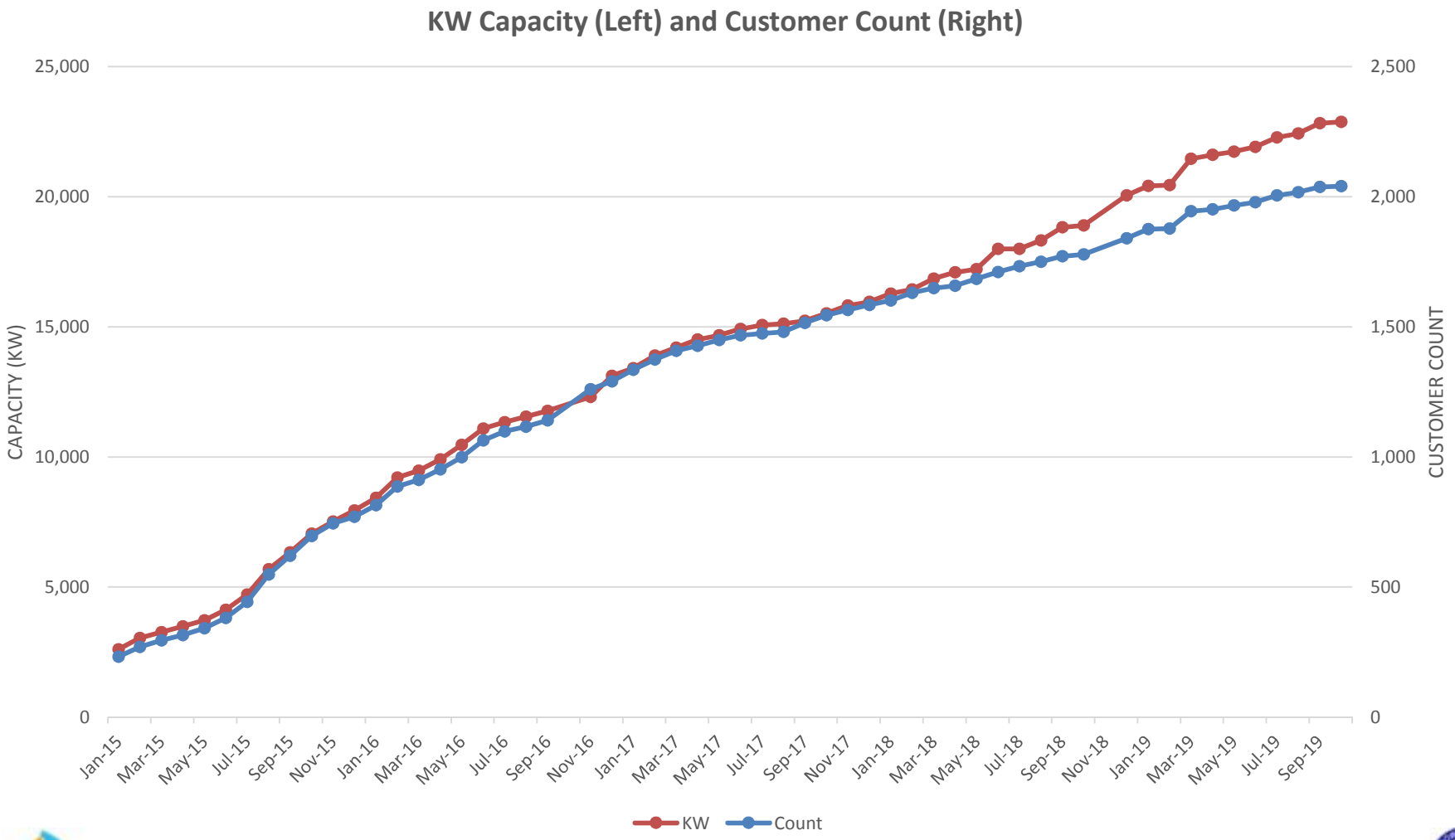
Brief summaries of the issues are provided in this presentation.

Resolution 2020-01

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

NET METERING (NEM) GROWTH

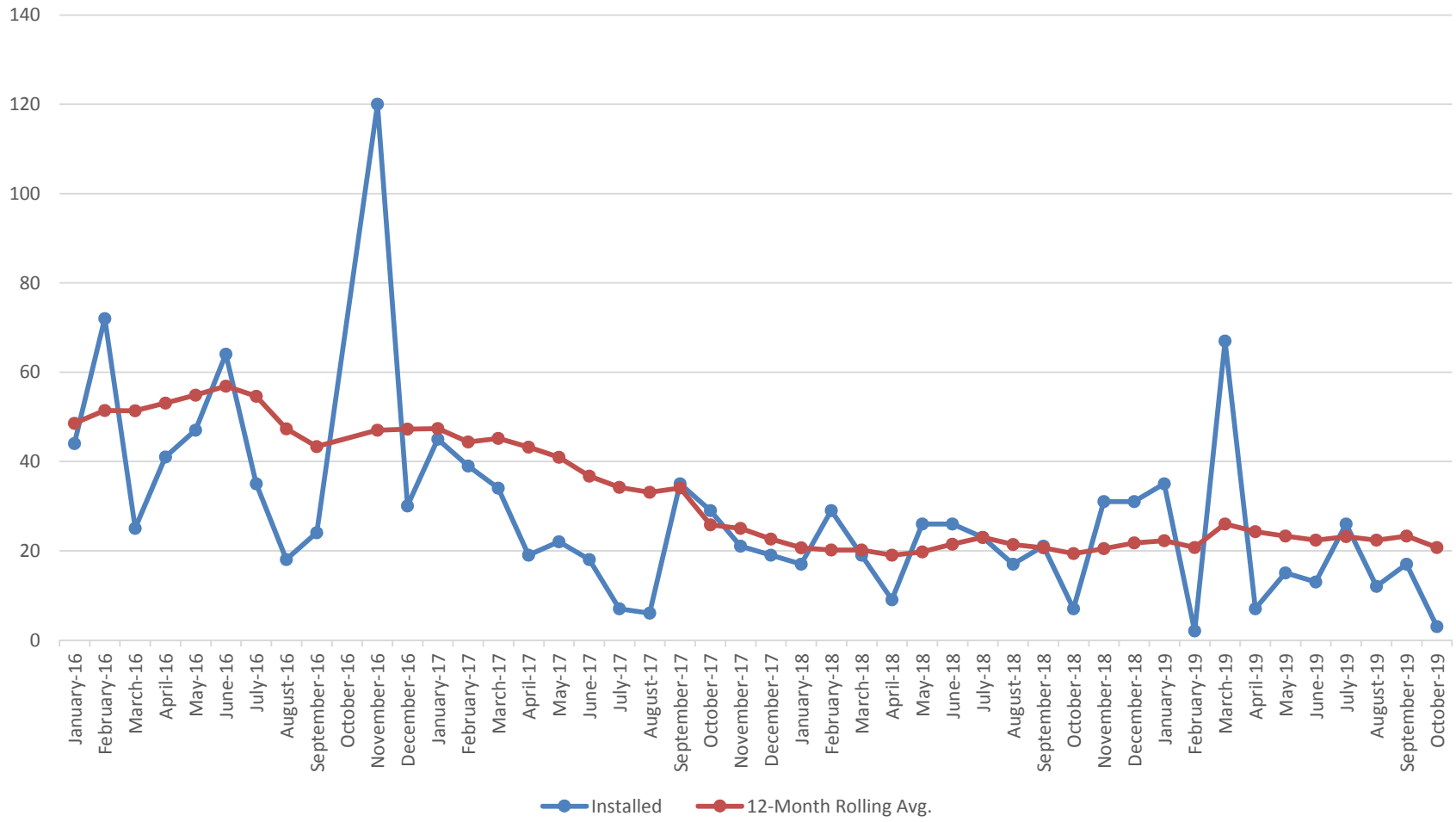
NEM Growth through October 2019



NET METERING (NEM) GROWTH

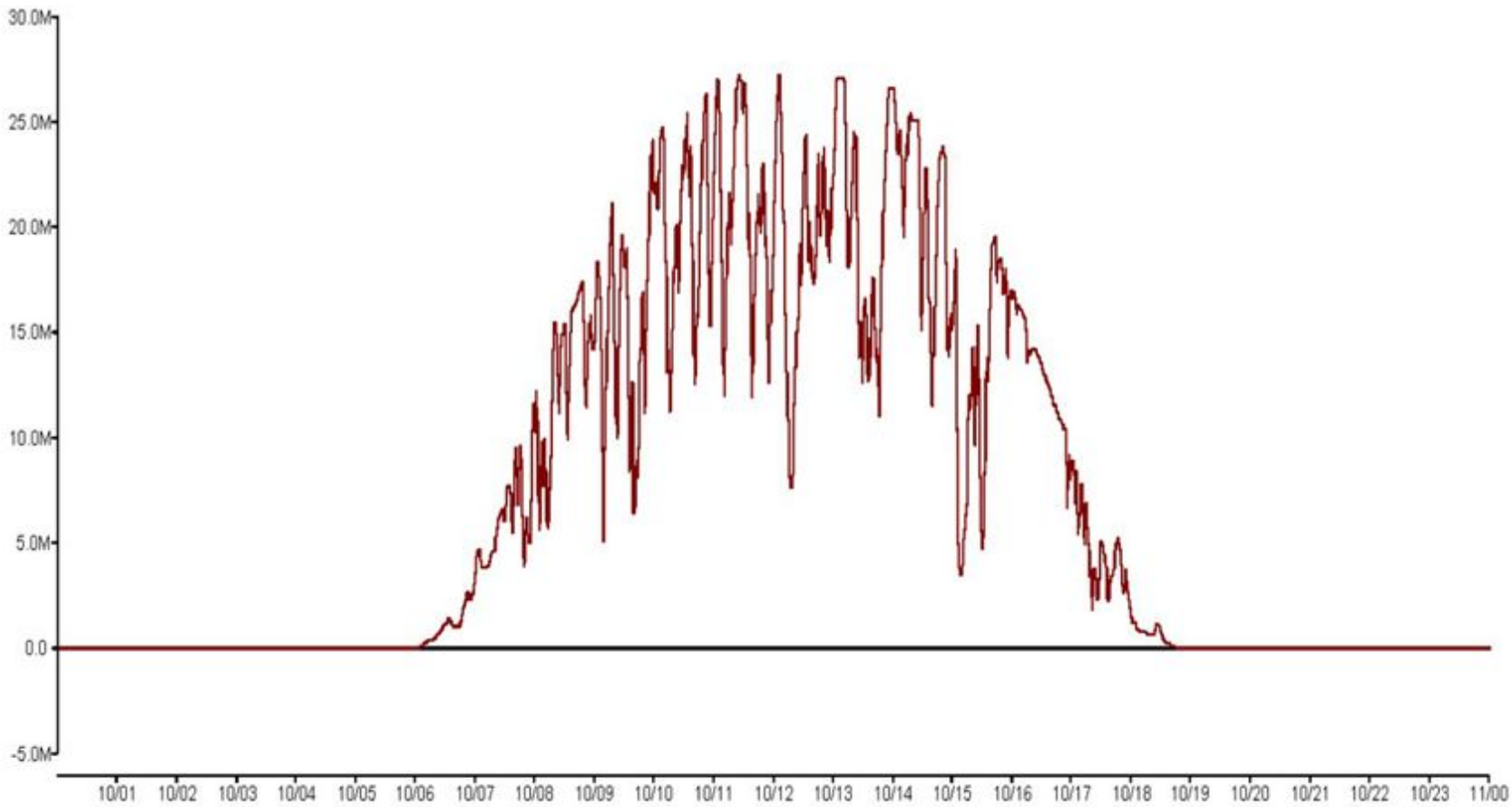
NEM Monthly Installations

Through October 2019



INTERMITTENCY DEGRADES RELIABILITY

GPA 25MW Solar PV Production Intermittent - Causing Reliability Issues



Solution: Installation of 16 MW Energy Storage Batteries in Talofofo

INTERMITTENCY DEGRADES RELIABILITY

NEM 22MW Solar PV Production Intermittent - Causing Reliability Issues

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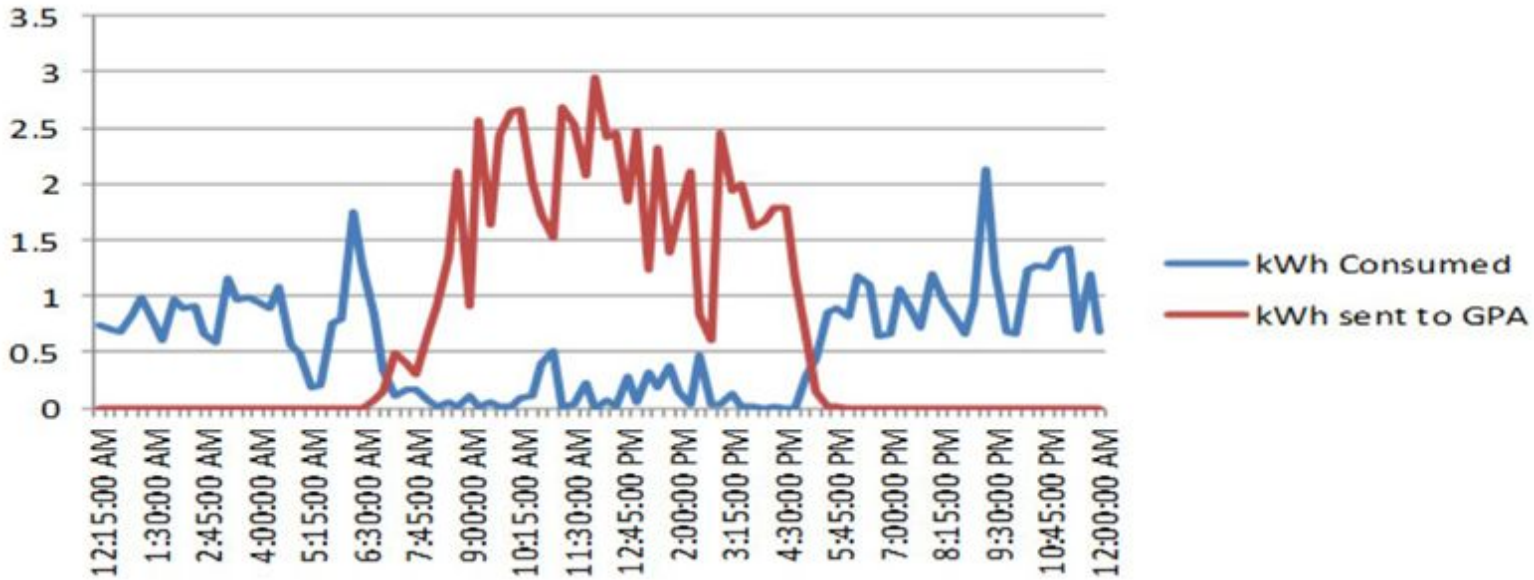
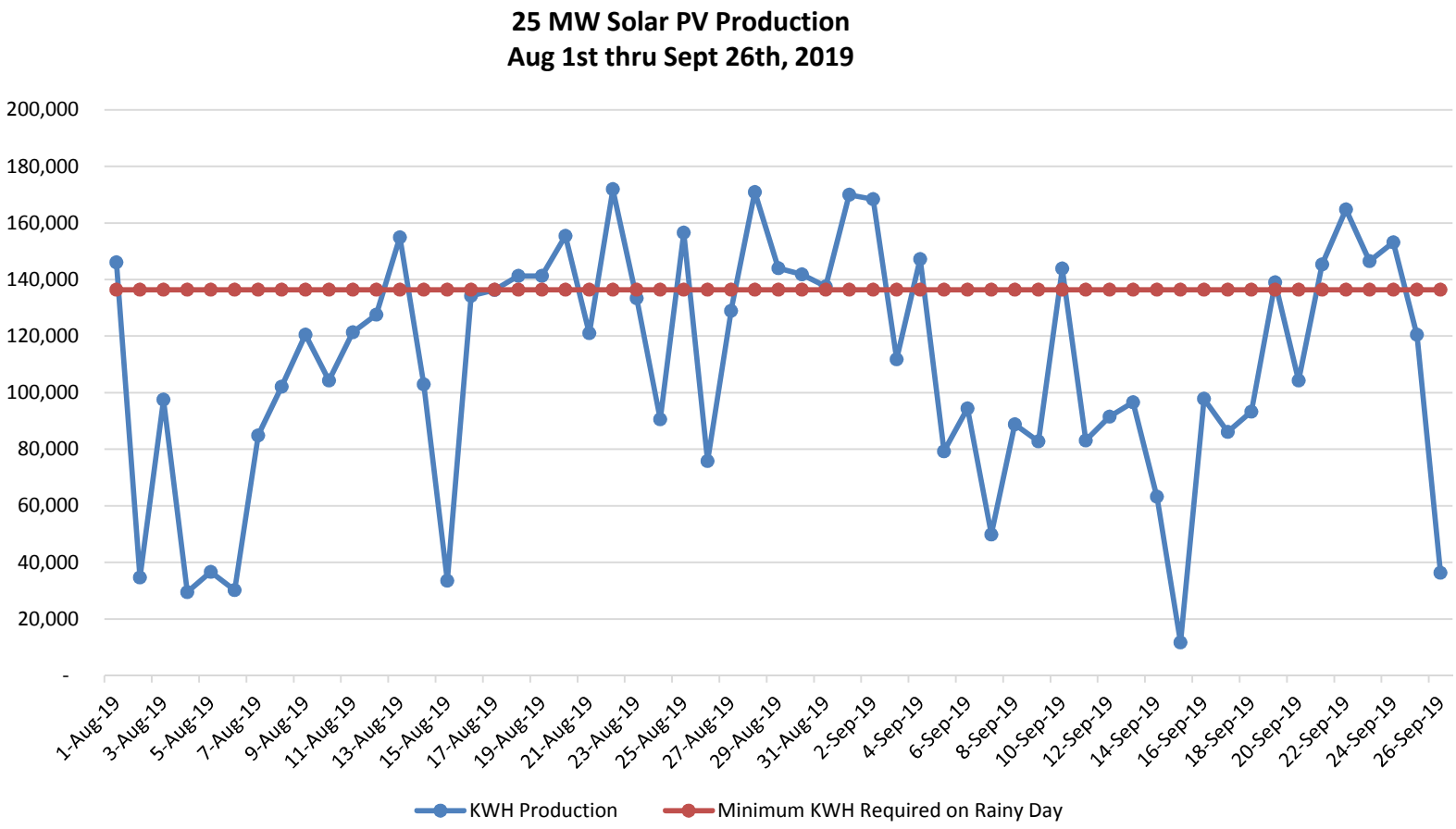
GPA KWH 6pm to 12am		**24.67**	**Evening Peak**	
NEM KWH 7am to 6pm		69.35		
Net GPA KWH		-14.68		



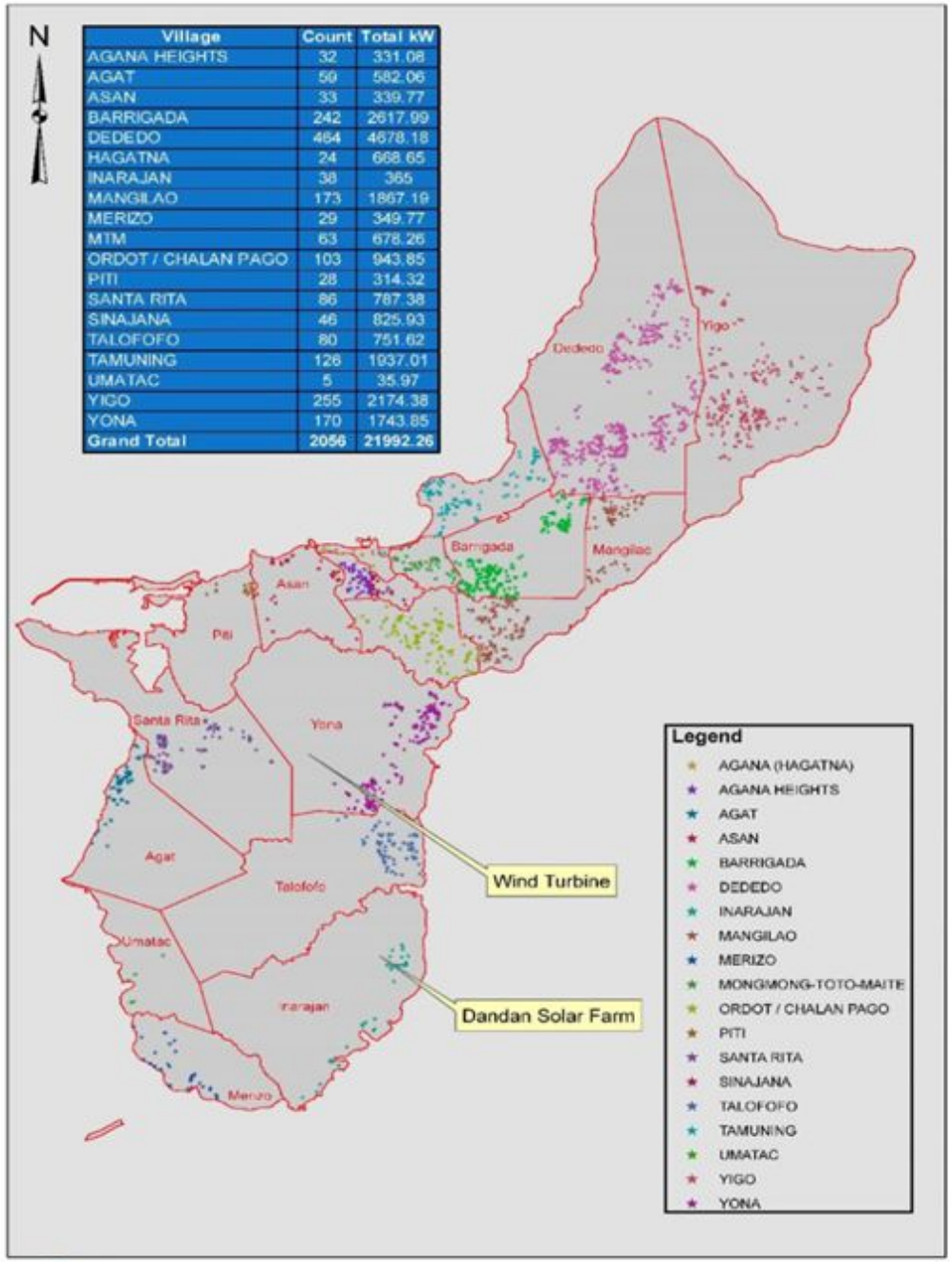
Solution: Installation of 24 MW Energy Storage Batteries in Hagåtña

SOLAR PV PRODUCTION INCONSISTENT

Solar PV Production Inconsistent & Depends on GPA System for Reliability



Solution: Inconsistency Mitigated by Availability of GPA Conventional Generators

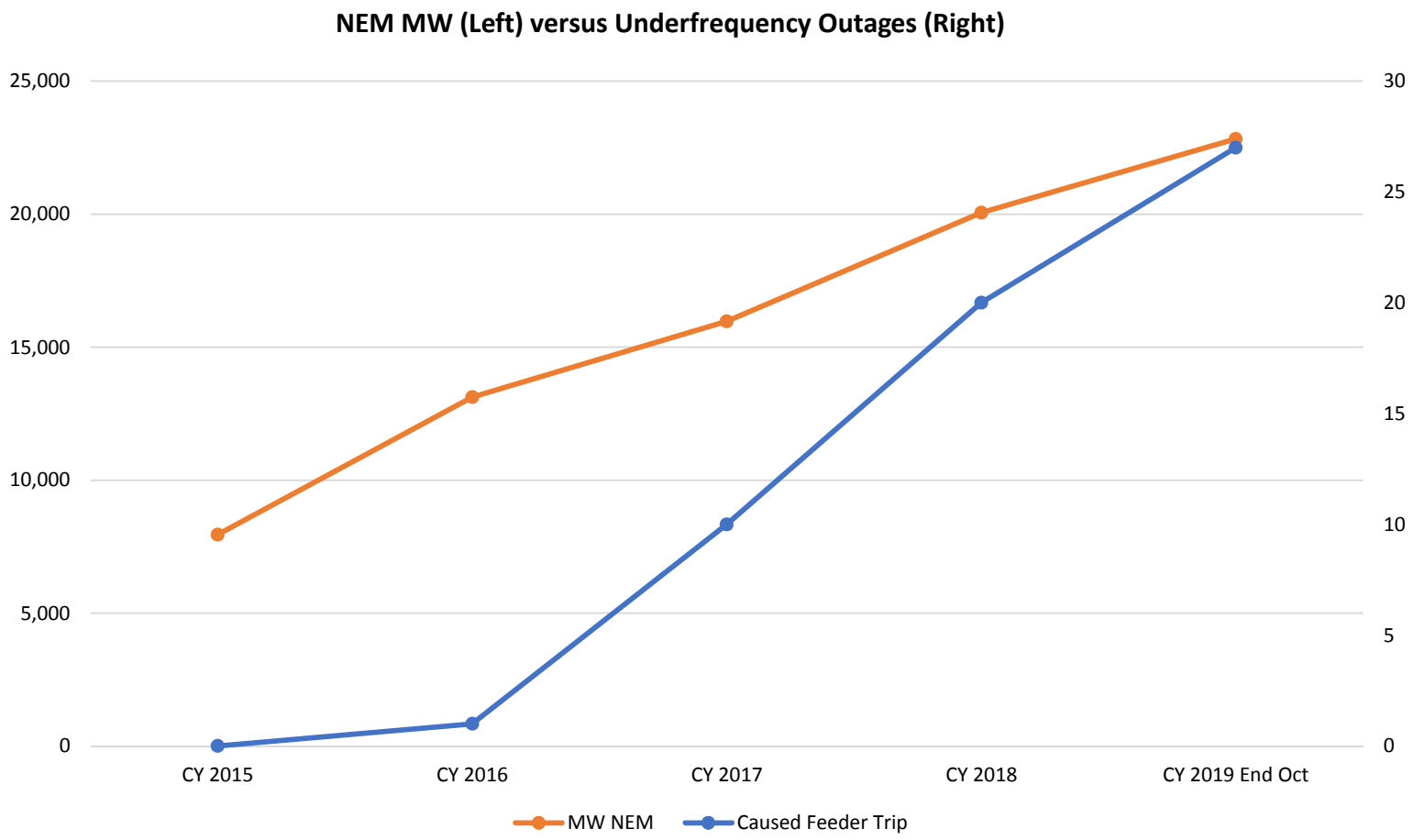


Village	Count	Total kW
AGANA HEIGHTS	32	331.08
AGAT	59	582.06
ASAN	33	339.77
BARRIGADA	242	2617.99
DEDEDO	464	4678.18
HAGATNA	24	668.65
INARAJAN	38	365
MANGILAO	173	1867.19
MERIZO	29	349.77
MTM	63	678.26
ORDOT / CHALAN PAGO	103	943.85
PITI	28	314.32
SANTA RITA	86	787.38
SINAJANA	46	825.93
TALOFOFO	80	751.62
TAMUNING	126	1937.01
UMATAC	5	35.97
YIGO	255	2174.38
YONA	170	1743.85
Grand Total	**2056**	**21992.26**

Guam Power Authority
Net Metering Locations

ENSURING SYSTEM RELIABILITY

Continued NEM Growth Without Batteries Will Significantly Degrade Reliability



Solution: Future NEM Customers Install Batteries

SUMMARY – Resolution 2020-01

- GPA is installing two Energy Storage System (ESS) batteries totaling 40 MW of batteries to address reliability issues when conventional generators trip off line.
  - The 40 MW ESS commissioning is within next two months.
- The continued addition of Solar PV Systems without batteries would result in continued degrading of reliability despite ratepayers paying for new $35M ESS to decrease outages.
- GPA has previously issued policy that all future utility-scale solar PV systems must be installed with batteries. GPA's Phase II and III projects include batteries.
- Net Metering Capacity without Batteries has grown to 22 MW. The continued uncontrolled growth without Batteries increases outages and must be curbed.
- CCU Resolution 2020–01, if passed, will require all future NEM customers to install batteries in order to connect to GPA grid.
  - GPA recommends the requirement be effective May 1, 2020.

Resolution 2019-20

AUTHORIZED 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

NET METERING (NEM) PROGRAM

NEM customers currently receive services from the grid including:

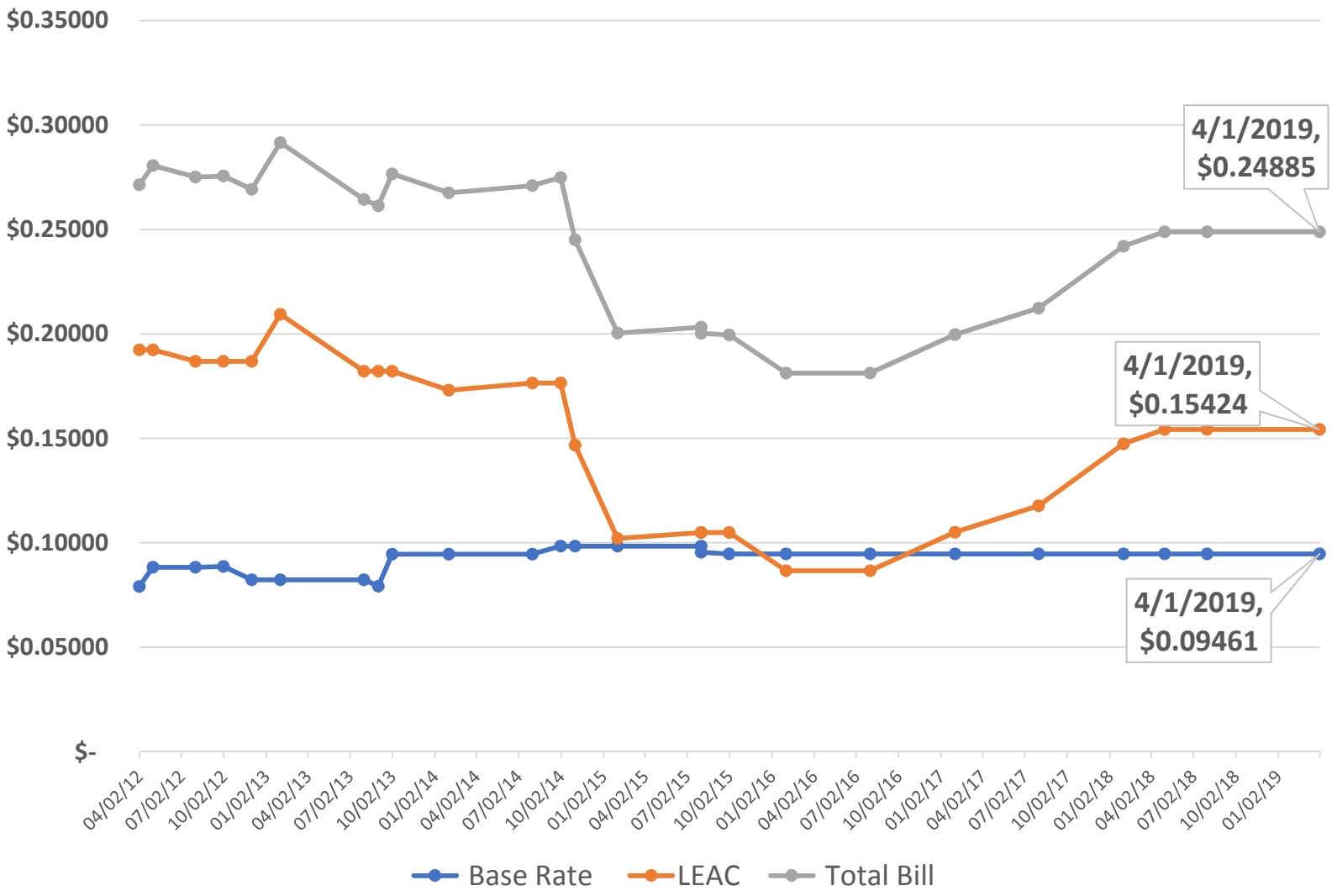
- Use the grid to sell power (get credit at full retail rate for excess production)
- Use the grid to energize their homes at night, but credited back from their production (uses GPA grid as storage)
- Using grid at night results in increased fuel cost to non-NEM Customers because costlier less efficient generation is used to generate their energy needs
- Frequency regulation absorbed by grid for intermittencies
- Reactive power supply
- Voltage regulation
- Stand-by power on overcast days when the sun does not shine

Monthly fixed charge of $15 does not recover cost to serve from grid

- Most of GPA fixed cost is recovered in the energy use (kWh) rate component which is typically zero for NEM customers

GPA continues to request PUC to set credit at avoided cost

HISTORIC RESIDENTIAL RATE



COST BURDEN ANALYSIS

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-NEM Ratepayer

Total GPA Ratepayers:	**52,000**	**$3,092**
Ratepayers Without Solar PV:	**50,000**	**$3,215**
Additional Cost Per Non-NEM Ratepayer:		**$123**

NEM Customers Not Paying for System
Non-Solar Customer Cost are Increased !!!

CONSEQUENCE OF NEM RIDER

GPA is requesting the PUC revert the current Net Metering Rider to the original language, which stated:

> "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."

This rider was revised by the PUC on December 10, 2015 to allow solar PV (NEM) customers the option to receive cash payments for excess credit or to carry over credits into the following calendar year.

NEM customers are already being provided an annual subsidy of ~$3,527,745. NEM programs elsewhere do not provide carry over credits.

Additionally in 2018, GPA issued $86,283 in cash payments to NEM customers, and carried forward $241,217 in excess credits under the current NEM program. These credits are more that what it cost to produce the same amount of energy thru GPA. This tends to encourage higher capacity systems in order to receive higher returns. Bad for Non-NEM customers

SUMMARY – Resolution 2019-20

The amended rider negatively impacts non-NEM customers because:

- Non-NEM ratepayers are burdened with a cost for a benefit not received
- Excess credits are paid out at higher cost than what it takes to produce same energy.
  - Excess credit being paid out at ~$0.25/kWh while it cost GPA only $0.154/kWh to produce.
- The current rider encourages NEM customers to install excess capacity in order to maximize their credits

Other jurisdictions zero-out excess credit at no cost to the utility and its non-NEM customers

CCU Resolution 2019–20 authorized GPA to petition the PUC to amend Docket 08-10. **This resolution was passed by the CCU on November 26, 2019.**

Summary of Testimonies

Testimonies – Jan 9th Stakeholder's Outreach Meeting

Speaker	Discussion Summary
Stan Wilson *Current NEM Customer who produces excess.*	1) Battery storage for his system will cost him $4,500 for batteries alone and if the resolution passes then solar will no longer be a feasible investment. 2) Mentioned PG&E in California and state law passed that all new homes be equipped with solar and they do not require battery storage and that the utility agency provides the energy storage. 3) Suggested that GPA explore other solutions where GPA provides the solar batteries to flatten the load. He gives a theoretical example of having the power system run its baseload units all day even at off peak or low demand times to continually charge batteries and use batteries during peak times. 4) He is okay with paying the $15/month fee or even doubling it. He is okay adjusting the price of solar from $0.24 to $0.10.
Brook Powers *Chief Engineer of Adventist World Radio (AWR), Interested in installing solar technology on facilities.*	1) Wanted information on what percentage of storage is required per production of solar? 2) What inverter technology will GPA be requiring to stabilize the frequency? 3) Is there any option where customer takes on the cost using batteries during peak times and gets additional compensation during those times? He is talking about Time-Of-Use modeling (TOU).
Paulette Coulter *Customer who owns a 9 year old system with a battery backup system.*	1) Wants to know what protections would GPA provide for customers who provide their own PV and battery storage systems? 2) What support or information will GPA provide to assist customers with the technical aspects and requirements of PV and energy storage.
Moneka De Oro **"***Policy and Curriculum Fellow"* *Micronesia Climate Change Alliance*	1) Concerned about the utilities impacts towards climate change and de-incentivizing renewables. 2) Requesting GPA and CCU to be more aggressive towards renewables. 3) Against the justification of the cost of the $640M new plant versus supporting of costs towards renewable energy.
Henry Simpson *Solar customer for 6 years and has an EV*	1) Feels solar customers will be an asset to GPA. 2) Recommends having solar distributed and not clustered throughout the island. 3) Suggests a phased in type of approach where customer gets 5 years to amortize their investment in their system then chose to do a battery or avoided fuel cost vs. upfront requirements. 4) Suggest for GPA to work with nonprofits to provide and advocate solar power with a long term 15 year deal at full retail rate, so he can get investors to invest in his race track for solar panels.
Rob Frohne *Adventist World Radio (AWR)*	1) Requesting more information for studies and specs on our requirements for inverters and other technologies. 2) Looking to work with GPA for ways AWR can connect to the grid with renewables and inverters and other requirements. 3) Doing a feasibility study for their company solar PV system.

Testimonies – Jan 9th Stakeholder's Outreach Meeting (Cont'd)

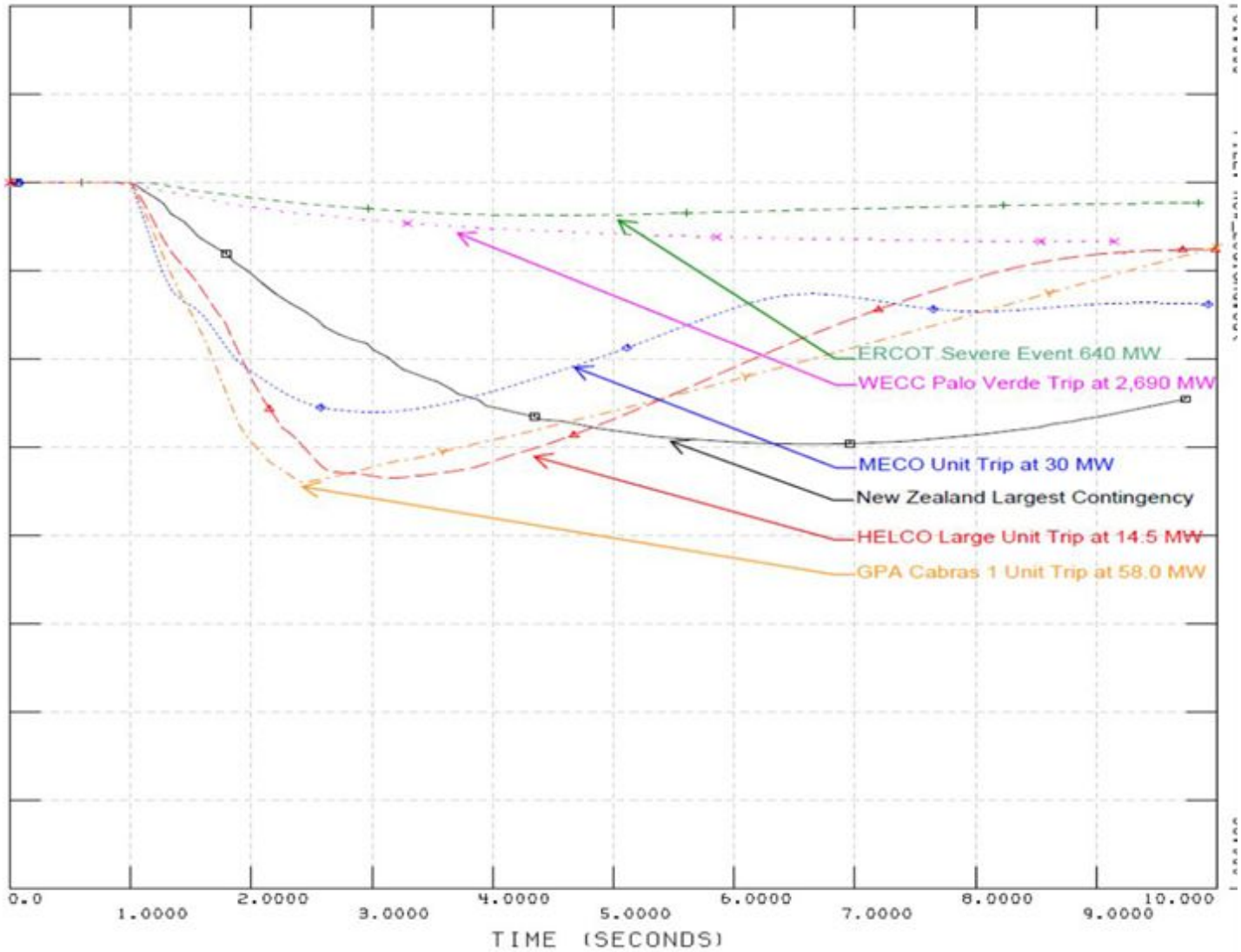
Speaker	Discussion Summary
Jeff Voacolo *COO of MRE*	1) Agrees with the issue on "Over-build" of PV systems. He uses New Jersey as a recommendation of how GPA should proceed to handle excess payments of NEM customers who over-build their PV systems. 2) Worried that resolution 2020-01 "de-incentivize" any business, home, or government entity from installing solar and feels that it will be counter-productive towards GPA's 50% renewable portfolio goal and other renewable aspects. 3) Concerned about it hindering solar in the schools. 4) Believes the widespread dysfunction caused by NEM customers on the GPA grid is true for the Dandan solar farm due to its concentration of solar arrays. 5) Concerned how the 25MW of Solar is having such a large impact on our grid and saying our Grid might be what is the issue instead of NEM customers. 6) Mentioned they have inverts that meet California rule 21 and the IEEE 1547-2018 requirements. States that the resolution is lacking requirements or parameters for frequency control and storage. 7) Feels there are disconnects between GPA and the Solar Industry and mentions FW Star Frequency ramp down rates. 8) Wants the industry and the utility to work together and provides three recommendations: a) Acquire a 3rd party independent engineering study be conducted on the grid to propose transformation grid changes and a root cause analysis for the issues and fit the support of PV. b) GPA work with the industry to establish timelines for introductions of PV and NEM. c) Battery rebate program should be established.

Previous Testimony of MRE

Date	Legislative Hearing	Witness	Summary of Testimony/Information
10/10/ 2019	Round Table Hearing with Industry Professionals about the type of renewable energy available on Guam	Jeffrey Voacolo, Chief Operations Officer Micronesia Renewable Energy, Inc. (MRE)	- Information provided on Battery Storage, MRE has been installing batteries for 2 years. In the last 2-3 years technology has come so far. Tesla & LG CAM Batteries, 2 batteries needed for average home (around 13.5 kWh for Tesla & 10 kWh for LG CAM) to fully power it through the night. - At wholesale level, cost is estimated around $5K to $6K per battery with 10-year warranty. Two batteries in a solar is cheaper than the utilities right now. - Utilities scale batteries been experiencing explosion, ongoing issue.
10/14/2019	Written Testimony on Bill 80-35, AN ACT TO AMEND § 8311 OF ARTICLE 3, CHAPTER 8, TITLE 12, GUAM CODE ANNOTATED, RELATIVE TO RAISING THE RENEWABLE PORTFOLIO STANDARDS OF THE GUAM POWER AUTHORITY	Jeffrey Voacolo, Chief Operations Officer Micronesia Renewable Energy, Inc. (MRE)	- Testimony provided regarding Sustainability as one of the three main parameters to reaching the bill's goal of reaching 50% renewable by 2015. - Advocating for greater Distributed Energy (DG) solar utilization on Guam and in favor to add a component of DG onto Bill 80-35. - In 2017, MRE invited CPS Energy's Executive team to Guam. CPS Energy is the nation's largest municipal/publicly owned energy company. - They met with GPA's Executive team & CCU members and spoke about Distributed Energy and Solar Farms. - There model is using existing commercial buildings and residential customers adding solar energy and now energy storage at the point of consumptions make more sense.
10/14/2019	Written Testimony on Bill 80-35, AN ACT TO AMEND § 8311 OF ARTICLE 3, CHAPTER 8, TITLE 12, GUAM CODE ANNOTATED, RELATIVE TO RAISING THE RENEWABLE PORTFOLIO STANDARDS OF THE GUAM POWER AUTHORITY	Joe Rosario, Business Dev Director Micronesia Renewable Energy, Inc. (MRE)	- Testimony provided advocating for greater DG solar utilization on Guam - He stated to imagine "40MW's of distributed generation developed by a local company in the solar industry and constructed by local companies in the solar industry. I can imagine a KWH rate of 13 cents (with storage)."

GPA Supplemental Data

Shows GPA System Most Affected by Loss of Generation



Comparison of Island Communities

	Guam	Oahu	Maui	Hawaii	Kauai
Land Area (sq mi) *(includes lakes and rivers)*	210	598	772	4,028	552
Population	167,930	953,207	144,444	200,983	66,921
Peak System Demand (kW)	256,000	1,206,000	202,000	192,000	78,000
Annual Energy Production (kWh)	1,566,000,000				
Electric Customers	51,400	304,948	71,352	85,925	37,705
NEM Customers	2,068	71,000			4,300
NEM kW	23,702	524,000	112,000	95,000	31,300
EV Count	20	7,989	1,136	562	316
Type Utility (IOU, Public, COOP)	Public	IOU	IOU	IOU	COOP
Annual Revenue	$378,300,000	$1,801,439,279	$368,184,936	$374,734,337	$162,659,638
Residential Average Rate ($/kWh) *Oct 2018*	$ 0.249	$ 0.482	$ 0.342	$ 0.552	$ 0.412
Latitude/Longitude	13.4443° N 144.7937° E	21.4389° N 158.0001° W	20.7984° N 156.3319° W	19.5429° N 155.6659° W	22.0964° N 159.5261° W
Income per capita	$ 16,549	$ 32,194	$ 30,599	$ 25,827	$ 28,791
Average kW/Customer	5.0	4.0	2.8	2.2	2.1
Average kW/Person	1.5	1.3	1.4	1.0	1.2
Average NEM kW/NEM Customer	11.5		10.3		7.3

GDOE Savings is a Ratepayer Subsidy!

GDOE DATA (FY2019)

Annual Energy Usage	43,411,121	**SOLAR PV**		**RATE**	**$/kWh**	**$/YEAR**
Annual kW Demand	68,260	*kWh Required*	43,411,121	LEAC	$ 0.154	$ 6,685,313
Annual Cost	$ 13,049,536.84	*Capacity Factor*	18.0%	Base	$ 0.147	$ 6,364,224
$/kWh	$ 0.301	*kW Required*	27,531			
GDOE Load Factor	7.3%					

SOLAR PV COST ANALYSIS

			WITHOUT ESS *(per kWh)*	**WITH FREQUENCY ESS** *(per kWh)*
Installation $/Watt	$ 3.00			
Total Watts	27,531,152			
Annual kWh	43,411,121	***FY2020 without Solar PV***	$ 0.285	$ 0.285
Investment Required	$ 82,593,456	***Solar PV $/kWh***	$ 0.178	$ 0.178
Life (years)	20	***ESS $/kWh***	$ -	$ 0.075
Interest Rate	5.0%	***Savings $/kWh***	$ 0.107	$ 0.032
Debt Service	$ 7,342,025	***Cost Reduction***	$ 4,645,833	$ 1,389,999
O&M @ 5% DS	$ 367,101			
Annual Cost	$ 7,709,126			
Cost/kWh	$ 0.178			

RESULT:

- **GPA System Cost Avoided**
- **$6,364,224 Burden Shifted to Non-NEM Customers**

GUAM POWER AUTHORITY
ATURIDÅT ILEKTRESEDÅT GUAHAN
P.O. BOX 2977, HÅGATÑA, GUAM 96932-2977

Issues for Decision

Resolution No. 2020-02:

Relative to: Authorizing the Management of Guam Power Authority to Solicit Bids (IFB) for the Supply of Diesel Fuel Oil No. 2 to the TENJO VISTA Power Plant.

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

The fuel supply contract is necessary to provide uninterrupted supply of fuel for TENJO VISTA Power Plant.

Where is the location?

TENJO VISTA Power Plant.

How much will it cost?

The 3-year contract is estimated to exceed $1.5M requiring prior approval from the PUC.

When will it be completed?

The contract is planned for an initial period of two years to commence on or about June 01, 2020 and to expire on May 31, 2023, with the option to extend for two (2) additional one-year terms.

What is its funding source?

Fuel revenue funds

The RFP/BID responses:

The IFB solicitation will commence after CCU & PUC approval.

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

RESOLUTION NO. 2020-02

AUTHORIZING THE MANAGEMENT OF THE GUAM POWER AUTHORITY TO PETITION THE PUBLIC UTILITIES COMMISSION FOR THE PROCUREMENT OF A CONTRACTOR FOR THE SUPPLY OF DIESEL FUEL OIL NO.2 FOR THE TENJO VISTA POWER PLANT

WHEREAS, GPA intends to issue an Invitation for Bid (IFB) for the procurement of a contractor for the Supply of Diesel Fuel Oil No.2 for the TENJO VISTA Power Plant; and

WHEREAS, the contract for the Supply of Diesel Fuel Oil No.2 for the TENJO VISTA Power Plant shall be for a base period of three (3) years, to commence on or about June 01, 2020 through May 31, 2023, with two (2) additional one-year extension options; and

WHEREAS, the draft bid solicitation documents for the procurement of a new Diesel Fuel Oil No.2 supply contract is hereby attached as **Exhibit A**; and

WHEREAS, the total cost for the new contract is anticipated to exceed $1.5M requiring GPA to seek authorization for this procurement from the PUC; and

WHEREAS, GPA is requesting the approval of the CCU to petition the PUC for the issuance of an Invitation for Bid for the Supply of Diesel Fuel Oil No.2 for the TENJO VISTA Power Plant.

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. GPA's request to solicit competitive bids for the Supply of Diesel Fuel Oil No.2 Supply for the TENJO VISTA Power Plant through a Multi-Step Bid process is reasonable, prudent and beneficial to its customers.

2. GPA is authorized to petition the Public Utilities Commission for approval to issue bids to procure a Contractor for the Supply of Diesel Fuel Oil No.2 for the TENJO VISTA Power Plant.

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

DULY AND REGULARLY ADOPTED AND APPROVED THIS 28th DAY OF JANUARY 2020.

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

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: _____

Invitation For Multi-Step Bid

No. GPA- -20

SUPPLY OF DIESEL FUEL OIL NO.2

TENJO VISTA POWER PLANT

Volume II

CONTRACT

(CONTRACTOR)

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CONTRACT

(CONTRACTOR)

GUAM POWER AUTHORITY

2020

IFB No. GPA- -20

SUPPLY OF DIESEL FUEL OIL NO.2

TENJO VISTA POWER PLANT

FORMAL CONTRACT

This Agreement and Formal Contract ("Contract"), is made and entered into on the _____ day of _____, 2020 by and between:

_____, hereinafter referred to as CONTRACTOR, duly organized, licensed, registered and qualified to do business in Guam with its principal address at

_____;

- And -

GUAM POWER AUTHORITY, hereinafter referred to as the **"Authority"** or **"GPA"**, a Public Corporation with its office located at the Gloria Nelson Public Service Complex, Fadian, Mangilao Guam;

R E C I T A L S

WHEREAS, **GPA** desires to maintain uninterrupted supply of Diesel Fuel Oil No.2 to the **TENJO VISTA** Power Plant; and

WHEREAS, **GPA** seeks to procure a new Diesel Fuel Oil No.2 Supply Contractor; and

WHEREAS, the Consolidated Commission on Utilities has determined that the (CONTRACTOR) is a preferred option for **GPA** to supply the Diesel Fuel Oil No.2 requirements for the Authority;

WHEREAS, the Guam Public Utilities Commission has ordered **GPA** to proceed with the procurement of a CONTRACTOR for the Supply of Diesel Fuel Oil No.2 to the **TENJO VISTA** Power Plant;

WHEREAS, **GPA** has issued an Invitation For a Multi-Step Bid under IFB GPA- -20 for the Supply of Diesel Fuel Oil No.2 for the **TENJO VISTA** Power Plant; and

WHEREAS, **CONTRACTOR** submitted a bid in response to the Invitation for Bid for the Supply of Diesel Fuel Oil No.2;

WHEREAS, **GPA**, upon evaluation of the submitted bid proposals, determined that **CONTRACTOR** is the lowest responsive and responsible bidder; and

WHEREAS, the Guam Consolidated Commission on Utilities (CCU) and the Guam Public Utilities Commission (PUC) has determined that the **CONTRACTOR** is the preferred option for **GPA** to supply the Fuel oil requirements for the Authority.

NOW, THEREFORE, in consideration of the above premises and the mutual promises set forth herein and the terms and conditions hereinafter set forth and for other good and valuable consideration, receipt of which is hereby acknowledged; **CONTRACTOR** and **GPA** hereby agree as follows:

SECTION 1. DEFINITIONS

"Fuel oil" means a liquid hydrocarbon product satisfying the specifications in **Schedule A**

"$" shall refer to currency in U.S. dollars.

"ASTM" shall mean the American Society for Testing and Materials.

"API" shall mean the American Petroleum Institute.

"Gallon" shall mean a U.S. standard gallon of 231 cubic inches at sixty degrees Fahrenheit.

"Barrel" shall mean a volume equivalent to 42 U.S. gallons.

"Contract" shall mean the Diesel Fuel Oil No.2 Supply Contract executed as a result of this IFB.

"Contract Agreement (Agreement)" shall mean the written agreement between **GPA** and **CONTRACTOR** covering the Supply of Diesel Fuel Oil No.2 any other Contract Documents either attached to the Agreement or made a part thereof by reference therein.

"Contract Documents" shall mean the Contract Agreement, Bonds (where required), these General Conditions, any Supplementary Conditions, the Specifications, and any other documents specifically identified in the Contract Agreement, together with all Modifications issued after execution of the Contract Agreement.

"Contracting Officer" shall mean the General Manager of the Guam Power Authority and shall include his authorized representatives.

"CONTRACTOR" shall mean the party or parties who or which shall have duly entered into a contract with the Guam Power Authority to perform the work herein contemplated or his or their authorized assignee.

"**Day"** shall mean a calendar day of twenty-four (24) hours measured from midnight to the next midnight.

"Delivery Time" shall mean the total number of days or the dates stated in the Agreement for furnishing the product.

"General Manager" shall mean the General Manager is the Chief Executive Officer of the Guam Power Authority. The office and title of General Manager shall apply to any person acting in a regular or in an acting capacity as the Chief Executive Officer of the Guam Power Authority.

"Notice" shall mean and include all written notice demands, instructions, claims, approvals and disapprovals required to obtain compliance with contract requirements. Any written notice by either party to the contract shall be sufficiently given if delivered to or at the last known business address of the person, firm, or corporation constituting the other party to the contract, or to his, their, or its duly authorized agent, representative, or officers, or when enclosed in a postage prepaid envelope addressed to such last known business address and deposited in a United States mail box. The CONTRACTOR must provide and maintain a post office address within Guam and file the same with the Contracting Officer.

"Procurement Officer" shall mean the General Manager of the Guam Power Authority or the General Manager's designee.

"PURCHASER" shall mean the Guam Power Authority with whom CONTRACTOR has entered into the Contract Agreement.

"Seller" shall mean the CONTRACTOR.

"Territory" shall mean the Territory of Guam.

"OPA'90" shall mean the Oil Pollution Act of 1990 by the U.S. Congress.

"Platt's Asia-Pacific/ Arab Gulf Marketscan" shall mean the reference source document for the fuel Contract pricing.

"Receiving facility" shall mean the **TENJO VISTA** Power Plant.

SECTION 2. FUEL OIL TO BE SUPPLIED

CONTRACTOR agrees to furnish and **GPA** agrees to accept and pay for all of **GPA**'s diesel fuel oil requirements for the **TENJO VISTA** Power Plant for the term of the Contract. The estimated annual consumption is approximately 2,000,000 to 3,000,000 gallons.

Fuel Oil to be supplied to **GPA** shall conform to the product quality requirements specified in **Schedule A** and shall come from reputable sources not sanctioned by the United States government.

Fuel Oil must be delivered from the **CONTRACTOR's** Guam storage facility to the GPA plant site covered in this Contract. The **CONTRACTOR** shall be available to deliver the Fuel Oil to the point of delivery as designated by **GPA** within twelve (12) hours of receiving a request. **CONTRACTOR** must be available to receive and accept delivery requests daily, including weekends and holidays.

The **CONTRACTOR** shall provide transfer pumps and/or whatever else may be necessary to deliver Fuel Oil to **GPA** plant storage tanks to the height of 45 feet. Fuel Oil deliveries shall be on an "on call" basis. **CONTRACTOR** must closely coordinate with the plants and shall exercise its best efforts to deliver Fuel Oil to **GPA** to meet operational requirements regardless of the estimates provided by **GPA.**

CONTRACTOR must also be able to provide sufficient fleet to deliver the quantities as required by GPA.

SECTION 3. CONTRACT TERM

The Contract Term shall be for THREE (3) years and shall commence on or about June 01, 2020. GPA has the option to extend the contract for TWO (2) years renewable annually with mutual consent of parties.

SECTION 4. CONTRACT PRICE

The **CONTRACT PRICE** in U.S. dollars per Gallon ($/gal) for all Fuel Oil delivered to **GPA** shall be

inclusive of all costs and liabilities required to fulfill the contract.

The **CONTRACT PRICE** is the sum of the **REFERENCE PRICE** plus the **FIXED SERVICE FEE**.

The **CONTRACT PRICE** shall increase or decrease on a cent-for-cent basis with the **REFERENCE PRICE**.

The **REFERENCE PRICE** for the Fuel Oil supplied and delivered by CONTRACTOR from the **CONTRACTOR**'s Guam storage facility into the GPA's designated plant site location shall be the mean average of the previous month's daily Mid-of-Platts (MOPS) price postings. MOPS is the average of high and low price assessments reported in the Platt's Asia-Pacific/Arab Gulf Marketscan FOB Singapore Price Assessment for Gasoil 10 ppm.

The **FIXED SERVICE FEE** for all Fuel Oil supplied and delivered by **CONTRACTOR** to the **TENJO VISTA** Power Plant hereto shall be as follows:

CONTRACT FIXED SERVICE FEE	THREE (3) YEAR BASE PERIOD			TWO (2) YEAR EXTENSION OPTION	
	1st year $/gal (in 3 decimals)	2nd year $/gal (in 3 decimals)	3rd year $/gal (in 3 decimals)	1st yr Extn $/gal (in 3 decimals)	2nd yr Extn $/gal (in 3 decimals)
SITE LOCATION: TENJO VISTA POWER PLANT					

SECTION 5. INVOICE PRICE DETERMINATION

Sample Delivery Month: **January 2020**

(1) Sample Calculation of **REFERENCE PRICE**:

REFERENCE PRICE= Average of Previous Month's Daily MOPS

Previous Month: December 2019

Average of the Daily MOPS for December 2019: $79.206 per Barrel

Average Price: $1.886 per Gallon (rounded to three decimal places)

REFERENCE PRICE for **January 2020**: $1.886 per Gallon

(2) Sample **FIXED SERVICE FEE**:

FIXED SERVICE FEE= $0.200 per Gallon (sample price)

(3) CONTRACT PRICE

CONTRACT PRICE = Reference Price + Fixed Service Fee

CONTRACT PRICE = ($1.886 + $0.200) per gallon

CONTRACT PRICE = $2.086 per gallon

This is the **CONTRACT PRICE** for fuel supplied and delivered by **CONTRACTOR** to GPA for the sample month.

For invoice calculation purposes, quantity shall be reported in barrels and gallons at standard sixty degrees Fahrenheit (60°F) as declared in the Bill of Lading.

SECTION 6. TITLE, CUSTODY AND RISK OF LOSS

Title and custody to the Fuel Oil supplied by **CONTRACTOR** and delivered to the **GPA** plants thereof shall pass from the **CONTRACTOR** to **GPA** when:

a. The Fuel Oil has passed the GPA pipeline flange at the GPA plant storage tanks connecting the **CONTRACTOR**'s hose if delivered by tanker truck.
b. The Fuel Oil has passed the **GPA** meter flange or pipeline flange at the **GPA** plant storage tanks connecting the **CONTRACTOR**'s pipeline flange if delivered by pipeline.

All risk of loss, cost and liabilities prior to the time of passage of title of the fuel oil shall be on the **CONTRACTOR**.

SECTION 7. TERMS OF PAYMENT

Invoices for Fuel Oil delivered pursuant to quantity (Fuel Oil receipts) and quality prescribed under the terms of this contract shall be submitted no more frequently than weekly, based on the number of Gallons of Fuel Oil delivered to **GPA** during the preceding period. The invoices must be supported by Fuel Oil receipts or receiving tickets including a receipt acknowledgement from a **GPA** representative. The payment terms are 30 days (net) beginning on the date the invoice is received by the **GPA** accounts payable section. All payments shall be based on the delivered quantity,

corrected to volume (net) at 60 °F.

SECTION 8. PAYMENT OF TAXES AND OTHER GOVERNMENT CHARGES

All fuels under the terms of this Contract are exempt from the Government of Guam Liquid Fuel Tax and the Government of Guam Gross Receipts Tax as provided by 12 G.C.A., Section 8115.
In the event that any cargoes shall be liable to the payment of Import Duty, such Import Duty shall be to the CONTRACTOR's account.

CONTRACTOR shall be responsible for filing appropriate tax returns or other filings and requesting rebates, credits, drawbacks or exemptions.
CONTRACTOR shall be solely responsible for filings and payment of income tax or taxes measured on net income.

CONTRACTOR shall be solely responsible for filings and payment of income tax or taxes measured on net income.

SECTION 9. WARRANTY AND CLAIMS

CONTRACTOR warrants that it has the facilities and resources sufficient to meet CONTRACTOR's obligations under this Contract. Cost for the use of such resources shall be borne by the CONTRACTOR.

CONTRACTOR agrees, represents and warrants as follows:

a. **Ability to Supply.**
   CONTRACTOR warrants that the fuel oil shall meet the specification prescribed herein under Schedule A, and other pertinent sections. If the fuel oil fails to meet the specifications herein, CONTRACTOR shall be liable for any direct damages resulting therefrom.

b. **Ability to Deliver to the GPA Plants**
   CONTRACTOR shall own, lease, sub-lease, or have the right to use tanker trucks, storage tanks, loading racks and gantries and other facilities sufficient to meet CONTRACTOR's obligations for delivering the fuel oil to the GPA plants under this Contract.

CONTRACTOR shall be solely responsible for any damages caused by the CONTRACTOR or its agents during the process of oil shipment and delivery.

Claims against the CONTRACTOR for direct costs incurred on account of their non-performance or negligent actions shall be given in writing together with all supporting documents, invoices and correspondence by GPA within thirty days (30) from date of delivery of fuel oil as specified in Section 4.

SECTION 10. PRODUCT AND QUALITY

The fuel oil delivered hereunder shall have the physical and chemical characteristics as described in **Schedule A**.

The Authority reserves the right to require the supplier to add and to conduct additional tests as may be required.

SECTION 11. QUANTITY AND QUALITY ASSURANCE

a. **Delivery by Tanker Truck.**

CONTRACTOR, at its sole expense, shall utilize its terminal truck loading rack and metering system to determine the quantity of Diesel Fuel Oil No.2 delivered by tanker truck to GPA. Quantity of product delivered by CONTRACTOR at CONTRACTOR's nominated tanker truck(s) to the GPA plants shall be determined at the time of each delivery by CONTRACTOR, converted in each instance to volume at 60 degrees Fahrenheit by the automated rack control system and shall be the basis for the Bill of Lading (BOL).

Contractor at it sole expense, shall provide a pump and unload the product from the tanker truck into the GPA fuel receiving facility.

CONTRACTOR shall have such meters calibrated no less than annually and shall furnish GPA a copy of the certificate of newly calibrated meter(s) within 10 days after the calibration date.

In the event of a dispute over the accuracy of the CONTRACTOR's meters, an independent third party mutually agreeable to both parties will be brought in to perform a recalibration. In the event of a miscalibration, the costs shall be borne by the CONTRACTOR. Any loss incurred by GPA as a result of miscalibration of meters shall be negotiated and returned to the AUTHORITY.

CONTRACTOR is required to install security seals on valves and compartments of the delivery tanker trucks after Fuel Oil loading is completed. Seals shall remain intact upon inspection by the GPA receiving facility. Seal numbers shall be recorded in the delivery receipt and initialed by an authorized terminal representative. GPA reserves the right to reject deliveries with tampered or missing seals.

b. Delivery By Pipeline Transfer

Quantity of product delivered by the **CONTRACTOR** by pipeline transfer to **GPA** shall be determined utilizing the meter installed at the pipeline into the **GPA** plant storage tank.

i. In the event that a meter is not installed or is defective, quantity of the product delivered by the **CONTRACTOR** shall be determined by the **CONTRACTOR** meter. **CONTRACTOR** shall have such meters calibrated no less than annually and shall furnish **GPA** a copy of the certificate of newly calibrated meter(s) within 10 days after the calibration date. In the event of a dispute over the accuracy of the meter, an independent third party mutually agreeable to both parties will be brought in to perform a recalibration. In the event of a miscalibration, the costs shall be borne by the **CONTRACTOR**. Any loss incurred by **GPA** as a result of miscalibration of meters shall be negotiated and returned to **GPA**.

ii. In the event that the **CONTRACTOR** meter is defective or is not installed, quantity of the product delivered by the **CONTRACTOR** shall be determined by an Independent Third Party Inspector by gauging the receiving tanks before and after delivery. Cost shall be borne by the **CONTRACTOR.**

Quantity shall be corrected to the volume at sixty degrees Fahrenheit. Conversion shall be made in accordance with the ASTM-IP Petroleum Measurement Tables (IP-200), Table 6B (latest edition).

Appropriate Certificate of Quality (COQ) reports shall also accompany each delivery and must be presented to the **GPA** receiving facility. Quality must conform with the requirements specified in **Schedule A** as a condition for acceptance of delivery.

In the event of a dispute over the quality of Fuel Oil received by **GPA**, an inspection of Fuel Oil will be conducted by an appointed third party inspector mutually acceptable to **GPA** and the **CONTRACTOR**.

CONTRACTOR shall provide a comprehensive summary of the Fuel Oil delivery reports. **CONTRACTOR** shall tailor its reports to **GPA's** needs. **CONTRACTOR** shall submit copy(ies) of all Certificates of Quality (COQ) for the delivery month. Reports shall be submitted to the **GPA** weekly and monthly, within five (5) working days after each report month. **CONTRACTOR** shall also submit other reports and/or documentations that is relevant to the contract as may be required by the Authority.

SECTION 12. QUANTITY DETERMNATION

GPA reserves the right to require the intervention of a third party independent inspector for quantity determination. Such inspector shall be mutually acceptable to **GPA** and the **CONTRACTOR.** Cost shall be borne by the **CONTRACTOR.** All quantities shall be corrected to volume at sixty degrees Fahrenheit (60 ^{o}F) in accordance with the ASTM-IP Petroleum Measurement Table, Table 6B, the latest edition published shall be applicable.
Quantity certification prepared by independent inspector shall be final and binding upon both parties. Inspection report shall be submitted by **CONTRACTOR** to **GPA** no later than two (2) calendar days after completion of inspection and shall provide **GPA** unrestricted access to records or reports as may be required.

In the event of the variances between the B/L quantity and the discharge port (shore tanks) receipts, The AUTHORITY shall pay (absorb) a quantity shortfall up to ONE-FOURTH PERCENT (0.25 %) of the barrel established quantity; shortages beyond the 0.25% shall be covered by the CONTRACTOR.

SECTION 13. SECURITY OF SUPPLY

CONTRACTOR reserves the right to supply fuel oil meeting **GPA** quality requirements specified in Schedule A and may come from any sources not sanctioned by the United States government. In the

event that supplies are taken from such other places, then the price to Guam will remain the same as established in **Section 4** above.

CONTRACTOR is required to maintain a minimum of thirty (30) days inventory at the **CONTRACTOR**'s storage facility.

For security of supply in the event of unexpected, unplanned or forced baseload outages, severe typhoon or other calamities. **CONTRACTOR** shall prioritize delivery to the **GPA** plants and guarantee uninterrupted supply and delivery of Fuel Oil during the recovery period. **CONTRACTOR** must also be able to provide sufficient fleet to deliver the quantities as may be required by **GPA**.

CONTRACTOR must submit weekly and monthly fuel inventory and delivery report to **GPA**.

GPA reserves the right to audit the **CONTRACTOR** for safety fuel inventory stock compliance. Such audit shall be in accordance with generally accepted accounting practices.

SECTION 14. GOVERNMENT LAWS AND REGULATIONS

(a) If at any time during the term of the Contract the Government of the United States or the Territory of Guam enacts laws or issues regulations which would prevent **GPA** from burning the type of fuel oil to be supplied hereunder, **GPA** shall use its best efforts to obtain an exemption. In the event **GPA** cannot obtain an exemption from such laws and regulations, **CONTRACTOR** shall use his best efforts to furnish **GPA** substitute fuel oil which complies with such governmental laws and regulations at the same price set out herein, or if unreasonable, at a price to be renegotiated by the parties. If the substitute fuel oil causes an increase or decrease in **CONTRACTOR** 's cost of performance of the Contract, an equitable adjustment shall be made and the Contract modified in writing accordingly. Any claim of **CONTRACTOR** for adjustment under this section must be asserted in writing within thirty (30) days from date of receipt by **CONTRACTOR** of the notification of substitute fuel oil in compliance with Government laws, rules and regulations. Failure to agree to any adjustment shall be a dispute concerning a question of fact within the meaning of the clause of this Contract entitled "Governing Law and Disputes" (Section 21). However, nothing in this clause shall excuse the **CONTRACTOR** from proceeding with the Contract fuel oil specifications as changed in order to comply with Government laws, rules and regulations. Only in the event that the parties

cannot mutually agree upon the price at which **CONTRACTOR** is to furnish such substitute fuel oil, and **CONTRACTOR** refuses to provide such substitute fuel oil at the Contract price set out herein shall **GPA** then have the option of purchasing from other sources fuel oil at a lower price than that offered by **CONTRACTOR** in such negotiations which complies with such laws and regulations, but in any event, the **CONTRACTOR** shall have no recourse, other than those specified herein.

(b) **CONTRACTOR** shall at all times comply with all applicable laws and regulations of the Territory of Guam and the Federal Government and their respective agencies.

SECTION 15. PERMITS AND RESPONSIBILITIES

The **CONTRACTOR** shall, without additional expense to **GPA**, be responsible for obtaining any necessary licenses and permits, and for complying with any applicable Federal and Territorial laws, codes and regulations necessary for performance of the Contract by **CONTRACTOR**.

SECTION 16. FORCE MAJEURE

No failure or omission by either party to carry out or to observe any of the terms, provisions or conditions of the Contract shall, except in relation to obligations to make payments under the Contract, give rise to any claim by one party against the party in question or be deemed to be a breach of the Contract if such failure or omission arises from any cause reasonably beyond the control of the party, including but without prejudice to the generality of the foregoing:

(a) War, etc. War, hostilities, acts of public enemy or belligerents, sabotage, blockade, revolution, insurrection, riot or disorder;

(b) Restraints. Arrest or restraint of princes, rulers or peoples;

(c) Confiscation. Expropriation, requisition, confiscation or nationalization;

(d) Rationing. Embargoes, export or import restrictions or rationing or allocation, whether imposed by law, decree or regulation or by voluntary cooperation of industry at the insistence or request of any governmental authority or person purporting to act therefore;

(e) Regulations. Interference by restriction or onerous regulations imposed by civil or military authorities, whether legal or de facto and whether purporting to act under some constitution, decree, law or otherwise;

(f) Acts of God. Acts of God, fire, frost or ice, earthquake, storm, lightning, tide, tidal wave, or peril of the sea, accident of navigation or breakdown or injury of vessels;

(g) Loss for Tankers. Loss of tanker tonnage due to sinking by belligerents or to governmental taking whether or not by formal requisition;

(h) Accidents. Accidents to or adjuncts of shipping navigation;

(i) Strikes. Epidemics, quarantine, strikes or combination of workmen, lockouts, or other labor disturbances;

(j) Explosions. Explosion, accidents by fire or otherwise to wells, pipes, storage facilities, refineries, installations, machinery;

(k) Taking by Government. Unavailability of fuel because of the election of the government of the country of its origin to take royalty product in kind;

(l) Other Events. Any event, matter or thing wherever occurring and whether or not of the same class or kind as those set forth, which shall not be reasonably within the control and without the fault or negligence of the party affected thereby.

No failure or omissions to carry out or to observe any of the terms, provisions or conditions of the Contract shall give rise to any claim by one party against the other, or be deemed to be a breach of the Contract from the time of and to the extent occasioned by the Force Majeure, not from the date of notice of the Force Majeure is received.

SECTION 17. NOTICE TO OTHER PARTY

Either party whose obligations may be affected by any of the forces or causes set out in **Section 16**, supra, shall promptly notify the other party in writing, giving full particulars thereof as soon as possible after the occurrence of such force or cause. Such party shall exercise due diligence

to remove such cause with all reasonable dispatch and to resume performance at the earliest practicable time.

SECTION 18. PAYMENT REQUIRED

Notwithstanding the provisions of **Section 16**, supra, **GPA** shall not be relieved of any obligation to make payments for any fuel delivered to Guam dock/**GPA** tanks hereunder; however, during the force majeure condition the obligation shall be suspended, except for fuel oil deliveries made prior to the force majeure condition.

SECTION 19. PRORATION OR EQUITABLE ALLOATION

If any of the events enumerated in **Section 16**, supra, have occurred, **CONTRACTOR** shall prorate or otherwise allocate in a fair and equitable manner among its customers, including **GPA**, the supplies of fuel oil **CONTRACTOR** has available for delivery at the time of the occurrence or for the duration of such event taking into account **GPA**'s unique situation as Guam's total dependence on fuel oil. **CONTRACTOR** shall also seek an alternative source of fuel oil to fulfill its contractual obligations.

SECTION 20. RESUMPTION OF PERFORMANCE

If **CONTRACTOR** is prevented from delivering or **GPA** is prevented from receiving all or any fuel to be sold under the Contract for the reasons which fall within the provisions of **Section 16**, supra, then the party so prevented shall, as to the remainder of the fuel not affected thereby, promptly resume performance of the Contract. No curtailment or suspension of deliveries or payment under the causes listed in **Section 16**, supra, shall operate to extend the term of or terminate the Contract unless the occurrence of force majeure will materially impair, for an indefinite period of time, the parties' ability to perform the Contract.

SECTION 21. GOVERNING LAW AND DISPUTES

This CONTRACT shall in all respects be governed by the Laws of Guam. The provisions of the United Nations Convention on Contracts for the International Sale of Goods are expressly excluded.

This CONTRACT shall not be construed to confer any benefit on any person not being a party to this Contract not shall it provide any rights to such person to enforce any of its provisions. The provisions of the English Contracts (Rights of Third Parties) Act 1999 are expressly excluded.

In the event of any controversies, dispute or difference of any nature (a "Dispute") between the parties arising from or in connection with this Contract, either party may give notice to the other in writing of the existence of such dispute specifying its nature and the points at issue. If the dispute shall not have been amicably resolved within thirty (30) days from the date of the said notice, then the same shall be exclusively and definitely resolved through final and binding arbitration in Guam, by the AMERICAN ARBITRATION ASSOCIATION ('AAA'), in accordance with the rules of arbitration of such institution in effect as of the date the existence of the controversy is notified by one of the parties. The arbitration shall be conducted by three arbitrators, unless all parties to the dispute agree to a sole arbitrator within thirty (30) days after the filing of the arbitration. Each party to the dispute shall appoint one arbitrator within thirty (30) days of the filing of the arbitration, and the two arbitrators so appointed shall select the presiding arbitrator within thirty (30) days after the latter of the two arbitrators have been appointed by the parties to the dispute. If a party to the dispute fails to appoint its party-appointed arbitrators or if the two party-appointed arbitrators cannot reach an agreement on the presiding arbitrator within the applicable time period, then LCIA shall appoint the remainder of the three arbitrators. The arbitration proceedings shall be conducted in English and the arbitrator(s) shall be fluent in the English language. The award of the arbitral tribunal shall be final and binding. Judgment on the award of the arbitral tribunal may be entered and enforced in any court having jurisdiction thereof. The cost of the arbitration proceedings, including attorneys' fees, shall be borne in the manner determined by the arbitral tribunal. Any right to appeal or challenge any arbitral decision or award is hereby waived. The parties may seek a preliminary injunction or other preliminary judicial relief, if in its judgment such action is necessary to avoid irreparable damage. It is expressly agreed that indirect, special, punitive and consequential damages shall not be awarded.

SECTION 22. CONTRACTOR'S INSURANCE

CONTRACTOR shall not commence work under this Contract until he has obtained all insurance required under this section and such insurance has been approved by **GPA**, nor shall the

CONTRACTOR allow any Subcontractor to commence work on his subcontract until all similar insurance required of the Subcontractor has been so obtained and approved.

The **CONTRACTOR** shall provide a copy of their Insurance Policy to **GPA** within the period prescribed by **GPA**. All updates or revisions after contract commencement shall also be forwarded to **GPA**. Failure on the part of the **CONTRACTOR** to provide the required documents and/or to enter into a contract with **GPA** shall be sufficient grounds for the annulment of the award. **GPA** may determine the bidder to be non-responsive to the bid, and may proceed with sending a Notice of Intent to Award to the next most qualified BIDDER.

A. WORKMEN'S STATUTORY COMPENSATION INSURANCE AND EMPLOYER'S LIABILITY INSURANCE: The **CONTRACTOR** shall take out and maintain during the life of this Contract the applicable statutory Workmen's Compensation Insurance with an insurance company authorized to write such insurance and in the applicable State or Territory including the Territory of Guam covering all his employees, and in the case of any work sublet, the **CONTRACTOR** shall require the Subcontractor similarly to provide statutory Workmen's Compensation Insurance for the latter's employees. The **CONTRACTOR** shall secure and maintain, during the life of this Contract, Employer's Liability Insurance with a limit of $1,000,000 with an insurance company authorized to write such insurance in all states or territories including the Territory of Guam where the Contractor will have employees located in the performance of this Contract. **CONTRACTOR** shall provide a Waiver of Subrogation in favor of **GPA** via endorsement to the Workers Compensation policy. This coverage shall be on a primary and non-contributory basis.

B. COMMERCIAL GENERAL LIABILTY:

1. The **CONTRACTOR** shall maintain, during the life of this Contract, such Commercial General Liability as shall protect him against claims for damages resulting from (a) bodily injury, including wrongful death, and (b) property damage, which may arise from operations under this Contract whether such operations be by himself or by any Subcontractor or anyone directly or indirectly employed by either of them. The minimum acceptable limits of liability to be provided Liability Insurance shall be as follows:

Bodily Injury Limits:	$ 1,000,000 Each Person
Property Damage Limits:	$ 1,000,000 Each Occurrence

$ 2,000,000 Aggregate

2. The Commercial General Liability required by the preceding Subparagraph 1 shall include the following extensions of coverage:

i. The property damage coverage shall include a Broad Form Property Damage Endorsement.

ii. Contractual Liability coverage shall be included.

iii. Protective Liability coverage shall be included to protect the **CONTRACTOR** against claims arising out of operations performed by his Subcontractors.

iv. Products Liability and/or Completed Operations coverage shall be included.

v. **GPA** shall be an additional insured on the Commercial General Liability policy.

vi. This coverage shall be on a primary and non-contributory basis.

vii. **CONTRACTOR** shall grant Waiver of Subrogation in favor of **GPA**.

C. AUTOMOBILE LIABILITY INSURANCE:

The **CONTRACTOR** shall take out and maintain during the life of the Contract, such Automobile Liability insurance as shall protect him against claims for damages resulting from (a) bodily injury, including wrongful death, and (b) property damage, which may arise from the operations of any owned, hired or non-owned automobiles used by or for him in any capacity in connection with the carrying out of this Contract. **GPA** shall be an additional insured on Auto Liability policy. **CONTRACTOR** will grant Waiver of Subrogation in favor of **GPA**. The minimum acceptable limits of liability to be provided by such Automobile Liability Insurance shall be as follows:

Bodily Injury Limits:	$ 1,000,000 Each Person
	$ 1,000,000 Each Occurrence
Property Damage Limits:	$ 1,000,000 Each occurrence

This coverage shall be on a primary and non-contributory basis.

D. POLLUTION LIABILITY INSURANCE:

The **CONTRACTOR** shall take out and maintain during the life of the Contract, Pollution Liability Insurance with minimum limits of $5,000,000 that provides coverage for third party bodily injury, third party property damage, and clean-up cost whether ordered by a government entity or not ordered by a government entity. Grant waiver of subrogation in favor of **GPA**. **GPA** is to be an additional insured.

This coverage shall be on a primary and non-contributory basis.

E. EXCESS LIABILITY

Excess Liability with limits of $5,000,000 over the General Liability, Auto Liability, and workers compensation policies. **GPA** shall be named as an additional insured. **CONTRACTOR** shall grant Waiver of Subrogation in favor of **GPA**. This coverage shall be on a primary and non-contributory basis.

Cancellation Clause:

All policies above shall contain the following Cancellation clause:

The insurance company shall notify in writing the Guam Power Authority (insured) a minimum of 60 days prior to any material changes or cancellation of coverage.

F. CERTIFICATE OF INSURANCE:

The **CONTRACTOR** shall furnish **GPA** with two (2) copies of a Certificate of Insurance evidencing policies required in Paragraphs A, B, C, D, and E above. Such certificates shall specifically indicate that the Commercial General Liability Insurance includes all extensions of coverage required in Paragraph B., Subparagraph 2. above. Such certificate shall specifically state that the insurance company or companies issuing such insurance policies shall give **GPA** at least sixty (60) days written notice in the event of cancellation of or material change in any of the policies. If coverage on said certificate(s) is shown to expire prior to completion of all terms of this Contract, the **CONTRACTOR** shall furnish a Certificates of Insurance evidencing renewal of such coverage to **GPA**. The Certificates of Insurance shall clearly show this Contract number.

The **CONTRACTOR** shall provide a copy of their Insurance Policy to **GPA** as part of the bid requirements. All updates or revisions after contract commencement shall also be forwarded to **GPA**.

G. SUBCONTRACTOR'S INSURANCE:

The **CONTRACTOR** shall require each of his Subcontractors to take out and maintain during the life of his Subcontract, the same insurance coverage required of the **CONTRACTOR** under Paragraphs A, B, C, D, and E above, including the extensions of coverage required under Paragraph B., Subparagraph 2, above. Each Subcontractor shall furnish to the **CONTRACTOR** two (2) copies of a Certificate of Insurance and such certificate shall contain the same information

required in Paragraph B. above. The **CONTRACTOR** shall furnish one (1) copy of the certificate to **GPA**.

H. INSURANCE COMPANY AND AGENT:

All insurance policies herein required of the **CONTRACTOR** shall be written by a company duly authorized to do business in the Territory of Guam and where supply under this Contract is being performed and be executed by some agent thereof duly licensed as an agent in said State or Territory.

SECTION 23. INDEMNITY

CONTRACTOR shall indemnify and hold **GPA** harmless from all damages to persons or property or to receiving facilities and delivery facilities, regardless of ownership, including the cost of enforcement of the indemnity, actually and proximately caused by **CONTRACTOR** or its agents in making deliveries hereunder. **CONTRACTOR** shall be responsible for cleaning up any oil spillage caused by it or its agent or **CONTRACTOR**s during the process of oil delivery. **CONTRACTOR** shall carry at all times appropriate levels of insurance as determined by **GPA** to cover any such damage. The **CONTRACTOR** shall ensure that any vessel owned or chartered by the Contractor for deliveries under this agreement shall meet the requirements of the U.S. Oil Pollution Act of 1990 (OPA 90).

SECTION 24. TRANSPORTATION

CONTRACTOR shall arrange for the transportation of the Fuel Oil to the **GPA** storage facilities.
All risk of loss, cost and liabilities prior to the time of passage of title of the Fuel Oil shall be on the **CONTRACTOR**.

CONTRACTOR 's and **GPA**'s rights and duties under **Section 24** and **Section 25** do not supersede or control the provisions of **Section 16** Force Majeure.

SECTION 25. FAILURE TO SUPPLY

If the CONTRACTOR refuses or fails to perform any of the provisions of this Contract with such diligence as will ensure the timely delivery of fuel oil supply or commits any other substantial breach or non-performance of this Contract, CONTRACTOR must provide GPA at least five (5) days prior

notice of its inability to supply and/or deliver fuel to GPA. GPA reserves the right to procure fuel oil supply from another source immediately upon issuance of such notification or whenever it deems appropriate for a period to be determined solely by GPA. If the cost of fuel supply and/or delivery during such period shall exceed the Contract price as provided in Section 4, the CONTRACTOR shall reimburse GPA for the difference and other damages, which may be taken from the Performance Bond or applied as a deduction to payments due from current and future invoices.

If not cured within THIRTY (30) days of the date of notification, GPA may terminate the Contract in whole or such part of the Contract as to which there has been a delay or a failure to properly perform. In the event of termination in whole or in part, GPA reserves the right to procure fuel oil supply from another source.

SECTION 26. FAILUE TO PAY

Failure to pay an invoice and any late penalties, if any, within a period of THIRTY (30) days from the due date of such invoice, shall be a default and should such a default not be cured within THIRTY (30) days of default, **CONTRACTOR** may, at its option, do either of the following:

(a) Terminate the Contract forthwith or forthwith suspend delivery under the contract until further notice, on notifying **GPA** orally or by notice in writing; or

(b) Continue to supply fuel oil and bring suit in the Superior Court of Guam for amounts past due and as they become due.

SECTION 27. FAILURE TO COMPLY WITH LAWS

In the event the **CONTRACTOR** or any person or entity identified as principals in the offer submitted in connection with the bid shall be found by any court or administrative agency having jurisdiction over the subject matter of the violation, to have violated any law, rule or regulation in connection with **CONTRACTOR** 's performance of the obligations under the Contract in any manner whatsoever directly or indirectly which violation shall constitute a breach of the peace, or an act involving moral turpitude or otherwise constitute endangerment of the health, safety and welfare of the citizens of the Territory of Guam, **GPA** may at its sole discretion terminate this Contract upon THRITY (30) days written notice.

SECTION 28. PENALTY CLAUSES

(a) Quality Outside Contractual Specifications

In the event that any fuel, according to the analysis results has one or more quality characteristics outside the contractual specifications set in Schedule A, then in addition to any other rights or remedies available to the GPA under this contract a penalty will be imposed according to the following:

(1) If the bottom sediment and water exceeds the specification limit, then a price reduction shall be made for all water and non-petroleum sediment in excess of maximums specified in Schedule A multiplied by the Bill of Lading Quantity.

(2) If the heating value is less than the specification limit, then there will be a price reduction calculated as the ratio of the Out-of-Specification heating value and the Guaranteed Heating Value specified in Schedule A, multiplied by the Bill of Lading Quantity. If any other quality parameter (besides the ones stated in) exceeds the specifications' limits, then a penalty will be agreed between GPA and CONTRACTOR.

It is expressly agreed that the present penalty clauses shall be imposed regardless of whether damages were or not suffered by the GPA due to the delay in delivering the fuel and fuel quality outside contractual specifications, and that the GPA reserves the right to claim cumulatively both the amount of the penalty clauses and indemnification for every direct damage suffered by him due to CONTRACTOR non-contractual actions or omissions.

If during the period of this contract the GPA is forced to purchase fuel oil in order to maintain the GPA's Power Stations on full commercial load as a result of failure on the part of the CONTRACTOR to supply and/or deliver fuel oil in accordance with the terms of this contract (save for events of Force Majeure) any additional cost borne by the GPA over and above the price provided for in this Contract, CONTRACTOR will be liable to refund GPA either by payment of the CONTRACTOR or by way of reduction from GPA debts to the CONTRACTOR or deduction from the CONTRACTOR's Good Performance Bond of the Contract, or partially from both.

GPA reserves the right to retain the amount of the penalty clauses from his debts to the

CONTRACTOR or from the Good Performance Bond of the Contract, or partially from both.

(b) **Quality Outside Contractual Specifications**

In the event that any fuel, according to the analysis results has one or more quality characteristics outside the contractual specifications set in **Schedule A**, then in addition to any other rights or remedies available to the **GPA** under this contract a penalty will be imposed according to the following:

(1) If the bottom sediment and water exceed the specification limit, then a price reduction shall be made for all water and non-petroleum sediment in excess of maximums specified in **Schedule A** multiplied by the Bill of Lading Quantity.

(2) If the heating value is less than the specification limit, then there will be a price reduction calculated as the ratio of the Out-of- Specification heating value and the Guaranteed Heating Value specified in **Schedule A**, multiplied by the Bill of Lading Quantity.

If any other quality parameter (besides the ones stated in) exceeds the specifications' limits, then a penalty will be agreed between **GPA** and **CONTRACTOR**.

It is expressly agreed that the present penalty clauses shall be imposed regardless of whether damages were or not suffered by the **GPA** due to the delay in delivering the fuel and fuel quality outside contractual specifications, and that the **GPA** reserves the right to claim cumulatively both the amount of the penalty clauses and indemnification for every direct damage suffered by him due to **CONTRACTOR** non-contractual actions or omissions. If during the period of this contract the **GPA** is forced to purchase fuel oil in order to maintain the **GPA**'s Power Stations on full commercial load as a result of failure on the part of the **CONTRACTOR** to supply and/or deliver fuel oil in accordance with the terms of this contract (save for events of Force Majeure) any additional cost borne by the **GPA** over and above the price provided for in this Contract, **CONTRACTOR** will be liable to refund **GPA** either by payment of the **CONTRACTOR** or by way of reduction from **GPA** debts to the **CONTRACTOR** or deduction from the **CONTRACTOR's** Good Performance Bond of the Contract, or partially from both.

GPA reserves the right to retain the amount of the penalty clauses from his debts to the **CONTRACTOR** or from the Good Performance Bond of the Contract, or partially from both.

SECTION 29. DEFAULT

If the PARTY refuses or fails to perform any of their obligations under this agreement, non-breaching PARTY shall notify the PARTY either by e-mail or in writing within thirty (30) days of the breach. If the PARTY does not remedy the breach within thirty (30) days after the date of notification, non-breaching PARTY may by giving notice to the other PARTY terminate the Agreement in whole or suspend taking of delivery under the Contract.

In the event of partial termination or suspension under this provision, **GPA** reserves the right to procure fuel supply from another source upon notification to CONTRACTOR either by e-mail or in writing. Fuel to be procured shall be at the prevailing market price at the time of partial termination or suspension.

The CONTRACTOR shall be liable for the difference between the contract price and the prevailing market price at the time of termination.

SECTION 30. ATTORNEYS FEES

Should a default by either party result in litigation, the successful party shall be entitled to recover its reasonable attorney's fees from the defaulting party.

SECTION 31. TERMINATION FOR CONVENIENCE

(a) **Termination**.

The delivery of fuel oil supply under this Contract may be terminated by **GPA** in accordance with this clause in whole, or from time to time in part.

Any such termination shall be effected by delivery to the **CONTRACTOR** of a written Notice of Termination specifying the extent to which supply of fuel oil under the Contract is terminated.

In the case of termination of this Contract, **GPA** shall reimburse the CONTRACTOR of all the expenses related to the period of the Performance Bond that were not used.

(b) **CONTRACTOR's Obligations.**

The **CONTRACTOR** shall incur no further obligations in connection with the terminated fuel oil supply delivery and on the date set in the Notice of Termination the **CONTRACTOR** will stop delivery of fuel oil to the extent specified. The **CONTRACTOR** shall also terminate outstanding orders and Contracts, if any, as they relate to the terminated Contract for fuel oil supply. The **CONTRACTOR** shall settle the liabilities and claims arising out of the termination of orders and Contracts, if any, connected with the terminated fuel oil supply delivery. **GPA** may direct the **CONTRACTOR** to assign the Contractor's right, title and interest under the terminated orders or Contracts to **GPA**. The **CONTRACTOR** must still deliver fuel oil supply not terminated by the Notice of Termination and may incur obligations as are necessary to do so.

(c) **Right to Supplies.**

GPA may require the **CONTRACTOR** to transfer title of fuel oil cargo in transit to Guam at the time of receipt by Contractor of **GPA**'s Notice of Termination.

(d) **Compensation.**

(1) The **CONTRACTOR** shall submit a termination claim specifying the amounts due because of the termination for convenience. If the **CONTRACTOR** fails to file a termination claim within ONE (1) year from effective date of termination, **GPA** may pay the **CONTRACTOR**, if at all, an amount set in accordance with subparagraph (3) of this paragraph.

(2) **GPA** and the **CONTRACTOR** may agree to a settlement provided the **CONTRACTOR** has filed a termination claim supported by cost or pricing data to the extent required by Section 3-403 (Cost or Pricing Data) of the Guam Procurement Regulations and that the settlement does not exceed the total Contract price plus settlement costs reduced by payments previously made by **GPA**, the proceeds of any sales of supplies and manufacturing materials under the Guam Uniform Commercial Code, and the Contract price of the fuel supply not terminated.

(3) Absent complete agreement under subparagraph (1) of this paragraph, **GPA** may pay the **CONTRACTOR** the following amounts, provided payments agreed to under subparagraph (2) shall not duplicate payments under this subparagraph:

(i) Fuel oil Contract prices for supplies or services accepted under the Contract by **GPA**;

(ii) Costs incurred in preparing to perform and performing the terminated portion of the delivery of fuel oil plus a fair and reasonable profit on such portion of the delivery (such profit shall not include anticipatory profit or consequential damages) less amounts paid or to be paid for accepted fuel oil supplies or services; provided, however, that if it appears that the **CONTRACTOR** would have sustained a loss if the entire Contract would have been completed, no profit shall be allowed or included and the amount of compensation shall be reduced to reflect the anticipated rate of loss;

(iii) Costs of settling and paying claims arising out of the termination of Contracts or orders pursuant to paragraph (2) of this clause. These costs must not include costs paid in accordance with subparagraph (3)(ii) of this paragraph;

(iv) The reasonable settlement costs of the **CONTRACTOR** including accounting, legal, clerical, and other expenses reasonably necessary for the preparation of settlement claims and supporting data with respect to the terminated portion of the Contract for the termination and settlement of Contracts thereunder, together with reasonable storage, transportation, and other costs incurred in connection with the protection or disposition of property allocable to the terminated portion of this Contract. The total sum to be paid the **CONTRACTOR** under this subparagraph shall not exceed the total Contract price plus the reasonable settlement costs of the **CONTRACTOR** reduced by the amount of payments otherwise made, the proceeds of any sales of supplies and manufacturing materials under the Uniform Commercial Code.

SECTION 32. REMEDIES CUMMULATIVE

Each and all remedies available to a party in the event of the other party's failure to comply timely with any or all the terms and conditions of the Contract may be exercised independently or in combination (such rights being nonexclusive one with the other). The remedies set forth in the Contract are in addition to, and not in lieu of, all of the remedies available at law or in equity.

SECTION 33. COVENANT AGAINST CONTIGENT FEES

The **CONTRACTOR** warrants no person or selling agency has been employed or retained to solicit or secure the Contract upon agreement or understanding for a commission, percentage, brokerage, or contingent fee, excepting bona fide employees or bona fide established commercial or selling agency maintained by the **CONTRACTOR** for the purpose of securing business. For breach or violation of this warranty, **GPA** shall have the right to annul the Contract without liability or, in its discretion, to deduct from the Contract price or consideration, or otherwise recover, the full amount of such commission, percentage, brokerage, or contingent fee.

SECTION 34. NOTICE

Except as otherwise expressly specified herein, any notice to be given hereunder by either party to the other shall be deemed sufficiently given if in writing and enclosed in an envelope properly stamped and addressed to the party at the address set forth in this section, and deposited in the United States mail. Either party may change its address by giving FIFTEEN (15) days prior written notice to the other party. Such address until further notice shall be:

GPA: General Manager
Guam Power Authority
Post Office Box 2977
Hagatna, Guam 96932-2977
TELEFAX: (671) 648-9225

CONTRACTOR: _____
_____
_____
_____

SECTION 35. INTEREST OF OTHER PARTIES

CONTRACTOR warrants that no member of the governing body of **GPA**, and no other officer, employee, or agent of **GPA** who exercises any functions or responsibilities in connection with the work to which the Contract pertains, and no employee, agent or member of the Guam Legislature or other public official of the Government of Guam, has or shall have any personal economic or financial interest, direct or indirect, in the Contract.

SECTION 36. ASSIGNMENT

CONTRACTOR declares that the only persons or parties interested in the Contract as principals are named herein and that the Contract is made without participation by or benefit to any other person, firm or corporation, except as specified herein.

CONTRACTOR agrees that it will not assign to nor permit Contract participation in whole or in part by any other person, firm or corporation not specified as a principal without the prior written consent of **GPA**. If such assignment is permitted, **CONTRACTOR** will guarantee the performance of all terms and obligations of the Contract, and such assignment shall not alter **CONTRACTOR**'s obligations hereunder. No assignee of **CONTRACTOR** shall have the right to assign the Contract without **GPA**'s consent which may be given or refused at **GPA**'s absolute discretion.

SECTION 37. TIME

Time is of the essence in the Contract and in every part hereof.

SECTION 38. AMENDMENT AND WAIVER

Neither the Contract nor any provision hereof may be changed, waived, altered, amended, discharged or terminated orally, but only by an instrument in writing signed by the party against whom enforcement of the change, waiver, alteration, amendment, discharge or termination is sought. For purposes of this Contract, the signature of the Chairman or his designee, of the Consolidated Commission on Utilities is required to bind the **AUTHORITY**.

Failure by either party to object to any failure of performance by the other party of any provision of the Contract shall not constitute a waiver of, or estoppel against, the right of such party to require such performance by the other. Nor shall any such failure to object constitute a waiver or estoppel with respect to any succeeding failure of performance.

SECTION 39. DESCRIPTIVE HEADINGS

The descriptive headings of the several Sections and Subsections in this Invitation are inserted for convenience only and shall not be deemed to affect the meaning or construction of any provision hereof.

SECTION 40. RELATIONSHIP OF PARTIES

Nothing contained in the Contract shall be deemed or construed by the parties or by any third person to create the relationship of principal and agent or of partnership or of joint venture or of any association between **CONTRACTOR** and **GPA**, and no provisions contained in the Contract nor any acts of the parties shall be deemed to create any relationship between **GPA** and **CONTRACTOR**, other than the relationship of buyer and seller.

SECTION 41. NUMBER AND GENDER

In the Contract the masculine gender includes the feminine and neuter, the singular number includes the plural, and the word "person" includes corporation, partnership, firm or association wherever the context so requires.

SECTION 42. SUCCESSORS IN INTEREST

Each and all of the covenants, conditions, and restrictions in the Contract shall inure to the benefit of and shall be binding upon the permitted assignees and successors in interest of either party.

SECTION 43. PARTIAL INVALIDITY

Should any part of the Contract for any reason be declared to be invalid, such decision shall not affect the validity of any remaining portion thereof, which remaining portion shall remain in force

and effect as if the Contract had been executed with the invalid portion thereof eliminated, and it is hereby declared the intention of the parties that they would have executed the remaining portion of the Contract without including any such part, parts, or portions which may, for any reason, be hereafter declared invalid.

SECTION 44. EQUAL OPPORTUNITY CLAUSE

During the performance of the Contract the **CONTRACTOR** agrees as follows:

(a) The **CONTRACTOR** will not discriminate against any employee or applicant for employment because of race, color, religion, sex, political opinion or affiliation, or national origin. The **CONTRACTOR** will take affirmative action to ensure that applicants are employed, and that employees are treated during employment, without regard to their race, color, religion, sex, political opinion or affiliation, or national origin. Such action shall include, but not be limited to, the following: employment, upgrading, demoting, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The **CONTRACTOR** agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the **GPA** setting forth the provisions of this equal opportunity clause.

(b) The **CONTRACTOR** will, in all solicitations or advertisements for employees placed by or on behalf of the **CONTRACTOR**, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, political opinion or affiliation, or national origin.

SECTION 45. PROHIBITION AGAINST GRATUITIES, KICKBACKS, AND FAVORS TO THE TERRITORY

GCA 5 §5630(c) prohibits the CONSULTANT against gratuities, kickbacks, and favors to the Territory.

SECTION 46. RESTRICTION AGAINST CONTRACTOR EMPLOYING CONVICTED SEX OFFENDERS FROM WORKING AT GOVERNMENT OF GUAM VENUES

GCA 5 §5253(b) restricts the CONTRACTOR against employing convicted sex offenders from working at Government of Guam venues. It states:

> (b) All contracts for services to agencies listed herein shall include the following provisions: (1) warranties that no person providing services

on behalf of the CONTRACTOR has been convicted of a sex offense under the provisions of Chapter 25 of Title 9 GCA or an offense as defined in Article 2 of Chapter 28, Title 9 GCA, or an offense in another jurisdiction with, at a minimum, the same elements as such offenses, or who is listed on the Sex Offender Registry; and (2) that if any person providing services on behalf of the CONTRACTOR is convicted of a sex offense under the provisions of Chapter 25 of Title 9 GCA or an offense as defined in Article 2 of Chapter 28, Title 9 GCA or an offense in another jurisdiction with, at a minimum, the same elements as such offenses, or who is listed on the Sex Offender Registry, that such person will be immediately removed from working at said agency and that the administrator of said agency be informed of such within twenty-four (24) hours of such conviction.

SECTION 47. CONTRACT BINDING EFFECT

All EXHIBITS attached hereto are incorporated herein by reference in its entirety.

This Contract is binding upon the **CONTRACTOR** only if **CONTRACTOR** has been awarded the Contract in response to the **IFB-GPA- -20**. This Contract is subject to the approval of **GPA** and the Public Utilities Commission and it shall not be binding on part of **GPA** until such approval is made as evidenced by the signatories below.

For the **Guam Power Authority** (**GPA**):

_____ _____

John M. Benavente, P.E. **DATE**
General Manager

For **CONTRACTOR** :

(Company Name and Seal)

_____ _____

DATE

APPROVED AS TO FORM:

_____ _____

Graham Botha, General Counsel **DATE**
GUAM POWER AUTHORITY

PERFORMANCE AND PAYMENT BONDS

KNOW ALL MEN BY THESE PRESENTS that _____

_____

(Name of CONTRACTOR)

herein after called the CONTRACTOR and _____

_____

_____

(Name of Surety)

a corporation duly organized under the laws of the State of _____

_____

(hereafter referred to as: "Surety") authorized to transact business in Guam as Surety, are held and firmly bound unto the Guam Power Authority, as obligee, for use and benefit of claimants as herein below defined, in the amount of _____

_____Dollars (US$_____) for the payment whereof the CONTRACTOR and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, the CONTRACTOR has by written agreement dated _____, 20____, entered into a Contract with the Guam Power Authority for the **Supply of Diesel Fuel Oil No.2** in accordance with the Specifications prepared by the Guam Power Authority, which Contract is by reference made a part hereof, and is hereafter referred to as the Contract.

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION is such that, if the CONTRACTOR shall promptly and faithfully perform said Contract, and shall promptly make payment to all claimants as hereinafter defined for all labor and material used or reasonably required for use in the performance of the Contract, then this obligation shall be void; otherwise it shall remain in full force and effect, subject, however, to the following conditions:

A. The Surety hereby waives notice of any alteration or extension of the time made by the Guam Power Authority provided the same is within the scope of the Contract.

B. Whenever CONTRACTOR shall be and is declared to be in default under the Contract by the Guam Power Authority, and the Guam Power Authority has performed its Contract obligations, the Surety may promptly remedy the default or shall promptly:

1. Complete the Contract in accordance with its terms and conditions; or
2. Obtain a bid or bids for completing the Contract in accordance with its terms and conditions, and upon determination by the Guam Power Authority and the Surety of the lowest responsive, responsible bidder, arrange for a Contract between such bidder and the Authority, and make available as work progresses (even though there should be a default or a succession of defaults under the Contract or Contracts of completion arranged under this paragraph) sufficient funds to pay the cost of completion less than balance of the Contract price, but not exceeding, including other costs and damages for which the Surety may be liable hereunder, the amount set forth in the first paragraph hereof. The term "balance of the contract price", as used in this paragraph shall mean the total amount payable by the Guam Power

Authority to CONTRACTOR under the Contract and any amendments thereto, less the amount properly paid by the Guam Power Authority to CONTRACTOR. No right of action shall accrue on this bond to or for the use of any person or corporation other than the Guam Power Authority or successors of the Authority.

C. A claimant is defined as one having a direct contract with the CONTRACTOR, or with a sub-CONTRACTOR of the CONTRACTOR for labor, material, or both, used or reasonably required for use in the performance of the Contract labor and material being construed to include that part of water, gas, power, light, heat, oil, gasoline, telephone service or rental of equipment directly applicable to the Contract.

D. The above-named CONTRACTOR and Surety hereby jointly and severally agree with the Guam Power Authority that every claimant as herein defined, who has not been paid in full before the expiration of a period of ninety (90) calendar days after the date on which the last of such claimant's work or labor was done or performed, or materials were furnished by such claimant, may sue on this bond for use of such claimant, prosecute the suit to final judgment for such sum or sums as may be justly due claimant, and have execution thereon. The Guam Power Authority shall not be liable for the payment of any costs or expenses of any such suit.

E. No suit or action shall be commenced hereunder by a claimant:

1. Unless claimant, other than one having a direct contract with the CONTRACTOR, shall have given written notice to any two of the following:

   The CONTRACTOR, the Guam Power Authority, or the Surety above named, within ninety (90) calendar days after such claimant did or performed that last of the work

or labor, or furnished the last of the materials for which said claim is made, stating with substantial accuracy the amount claimed and the name of the party to whom the materials were furnished, or for whom the work or labor was done or performed. Such notice shall be personally served by mailing the same by registered mail or certified mail, postage prepaid, in an envelope addressed to the CONTRACTOR at any place the principal maintains an office or conducts its business.

2. After the expiration of one (1) year following the date on which the last of the labor was performed or material was supplied by the party bringing suit.

3. Other than in a court of competent jurisdiction in and for Guam.

F. The amount of the payment bond shall be reduced by and to the extent of any payment or payments made in good faith hereunder, inclusive of the payment by Surety of mechanics' liens, which may be filed of record against said improvement, whether or not claim for the amount of such lien be presented under and against this bond.

SIGNED AND SEALED THIS _____ day of _____ 20___ .

IN THE PRESENCE OF:

(Note: If the Principles are Partners, each must execute the Bond)

_____ _____

(WITNESS) (CONTRACTOR) (SEAL)

_____

(TITLE)

_____

(MAJOR OFFICER OF SURETY)

_____

(TITLE)

_____

(MAJOR OFFICER OF SURETY)

_____

(TITLE)

_____

SCHEDULE A: PRODUCT QUALITY SPECIFICATION

DIESEL FUEL Oil No. 2

Property	ASTM Test Method [B]	Alternate Method ASTM	Unit of Measure	Limits
Flash Point	D93		°C	60 Min
Water & Sediment	D2709		% vol	0.05 Max
Distillation Temp, °C 90%, recovered	D86		°C	282 Min 360 Max
Kinematic Viscosity	D-445		mm^2 at 40°C	1.9 Min 4.1 Max
Total Aromatic Hydrocarbons	IP 391		% mass	15 Min 35 Max
Polycyclic Aromatic Hydrocarbons	IP 391		% mass	11 Max
Ash	D482		% mass	0.01 Max
Sulfur	D5453	D-7039	ppm (µg/g)	14 Max
Sulfur Mercaptan	D3227		ppm (µg/g)	3 Max
Copper Strip Corrosion Rating (3hrs min at 50°C)	D130			No.1 Max
Cetane Index	D 613	D976-80 D 4737		46 Min
Micro Carbon Residue on 10% distillation residue	D524	D4530 D6371	% mass	0.20 Max
Lubricity, HFRR @ 60°C	D6079		Micron	400 Max
Conductivity	D2624	D4308	pS/m	100 Min 600 Max
Density @ 15°C	D1298	D4052	Kg/m^3	820 Min 850 Max
Gravity, API @ 60°F	D1295	D4052		35 Min 41 Max
Color	D1500		ASTM	2.0 Max
Hydrogen Sulfide in Liquid	IP 570A		Mg/kg	2.0 Max
Strong Acid No.	D974		mg KOH/g	NIL
Total Acid No.	D974		mg KOH/g	0.20 Max
Stability (Oxidation), 16Hrs	D2274		mg/L	25 Max
Appearance @ ambient temp	Visual			Report
Haze Rating	D4176		Haze Rating	1 Max
Particulate Matter	D6217		mg/L	10 Max
Filter Blocking Tendency (FBT)	D2068	IP 387		1.35 Max
Fatty Acid Methyl Ester (FAME)	D 7371-14	EN 14078	% vol	0.1 Max
Guaranteed Heating Value (HHV)	D240		MMBTU/bbl	5.70 Min
Static Dissipation Additives (Stadis 450)	Declared		Mg/L	Report
Lubricity Additive	Declared		Mg/kg	Report

The Authority may require the supplier to conduct additional test as necessary for plant's performance/efficiency evaluation.

Exhibit B- Historical Consumption

Tenjo Vista	(Actual) FY 2016	(Actual) FY 2017	(Actual) FY 2018	(Actual) FY 2019
Gallons	3,474,324	3,328,458	2,990,526	2,086,644

Range	
Min	Max
2,000,000	3,000,000

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

Issues for Decision

Resolution No. 2020-03:

Relative to Authorizing the Management of Guam Power Authority for the second (2nd) and third (3rd) year extension the Contract for the Management, Operation and Maintenance of GPA's Fuel Bulk Storage Facility with IP&E.

What is the project's objective? Is it necessary and urgent?
The first (1st) year extension of the contract with IP&E for the Management, Operation, and Maintenance of the GPA Fuel Bulk Storage Facility under GPA-014-17 is set to expire on September 30, 2020. This contract includes up to three optional one-year extensions.

The objective is to continue and exercise the second (2nd) and third (3rd) year extension of the contract to ensure uninterrupted, reliable operation of the facility for the supply of fuel to the GPA plants.

Where is the location?
GPA Bulk Fuel Storage Facility.

How much will it cost?
The second (2nd) year contract extension is estimated to cost about $885,108.88 and the third (3rd) year contract extension is estimated to cost about $911,662.13 for the required services under the contract (Exhibit A).

When will it be completed?
The contract extension shall be for a period of two (2) consecutive years, commencing in October 1, 2020 and will expire in September 30, 2022.

What is its funding source?
The contract fees for the Management, Operation, and Maintenance of the facility will be funded under the fuel budget. Other services will be funded through O&M, and some through CIP if it involves procurement of equipment, construction, modification and others.

The RFP/BID responses:
IP&E Guam LLC has been awarded the contract through a multi-step IFB process.

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

RESOLUTION NO. 2020-03

AUTHORIZING THE MANAGEMENT OF THE GUAM POWER AUTHORITY TO PETITION THE PUBLIC UTILITIES COMMISSION FOR THE EXTENSION OF THE EXISTING CONTRACT FOR THE MANAGEMENT, OPERATION AND MAINTENANCE OF THE GUAM POWER AUTHORITY'S FUEL BULK STORAGE FACILITY WITH ISLA PETROLEUM & ENERGY, LLC. (IP&E)

WHEREAS, the first (1st) year extension of the contract with IP&E for the Management, Operation, and Maintenance of the GPA Fuel Bulk Storage Facility under GPA-014-17 will expire on September 30, 2020;

WHEREAS, the contract does include up to three optional one-year extensions; and

WHEREAS, it would be in GPA's best interest to have a continuity of this contract to avoid complications that could occur as GPA converts the facility to ULSD for use with the new power plant and for compliance with USEPA requirements; and

WHEREAS, GPA negotiated and mutually agreed for the remaining 2 years extension of the existing contract with IP&E commencing in October 1, 2020; and

WHEREAS, the total requirement for the second (2nd) year contract extension is estimated to cost $885,108.88 and the total requirement for the third (3rd) year contract extension is estimated to cost $911,662.13 **(Exhibit A)**; and

WHEREAS, GPA has determined that the 3% annual increase in the contract fee is reasonable; and

WHEREAS, the aggregate total cost for the 2-Year base period thru the 3-Year extension period of the contract is about $4,300,400.01; and

WHEREAS, GPA is requesting for the approval of the second (2nd) and third (3rd) year extension of the contract with IP&E.

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

1. The Guam Power Authority is hereby authorized to execute an agreement with IP&E for the second (2nd) and third (3rd) year extension of the contract for the Management, Operation, and Maintenance of the GPA Fuel Bulk Storage Facility commencing in October 01, 2020 and terminating in September 30, 2022.

2. The General Manager of the Guam Power Authority is hereby authorized an increase in obligating authority to the annual value of the contract over $750,000.00 and execute such agreements and documents necessary for a contract extension with IP&E.

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

DULY AND REGULARLY ADOPTED AND APPROVED THIS 28th DAY OF JANUARY 2020.

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

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: _____

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

EXHIBIT A

GPA-014-17: GPA BULK FUEL FARM MANAGEMENT, OPERATION, AND MAINTENANCE CONTRACT

IP &E Contract Price	2 YEAR BASE PERIOD (MANDATORY)			3-YEAR EXTENSION OPTION				2 YEAR BASE + 3 YEAR EXTENSION OPTION
	1st Year Oct2017-Sep2018	2nd Year Oct2018-Sep2019	Total	1st Yr Extn Oct2019-Sep2020	2nd Yr Extn Oct2020-Sep2021	3rd Yr Extn Oct2021-Sep2022	Total	Over-all
Item 1	$ 516,560.00	$ 532,056.80	$ 1,048,616.80	$ 548,018.50	$ 564,459.06	$ 581,392.83	$ 1,693,870.39	$ 2,742,487.19
Item 2	$ 144,540.00	$ 148,876.20	$ 293,416.20	$ 153,342.49	$ 157,942.76	$ 162,681.04	$ 473,966.29	$ 767,382.49
Item 3	$ 35,000.00	$ 36,050.00	$ 71,050.00	$ 37,131.50	$ 38,245.45	$ 39,392.81	$ 114,769.76	$ 185,819.76
Item 4	$ 20,400.00	$ 21,012.00	$ 41,412.00	$ 21,642.36	$ 22,291.63	$ 22,960.38	$ 66,894.37	$ 108,306.37
Item 5	$ 2,500.00	$ 2,575.00	$ 5,075.00	$ 2,652.25	$ 2,731.82	$ 2,813.77	$ 8,197.84	$ 13,272.84
Item 6	$ 91,000.00	$ 93,730.00	$ 184,730.00	$ 96,541.90	$ 99,438.16	$ 102,421.30	$ 298,401.36	$ 483,131.36
TOTAL (Items 1 thru 6)	**$ 810,000.00**	**$ 834,300.00**	**$ 1,644,300.00**	**$ 859,329.00**	**$ 885,108.88**	**$ 911,662.13**	**$ 2,656,100.01**	**$ 4,300,400.01**
Variance vs. Previous year		**3%**		**3%**	**3%**	**3%**		
Contract Status	**Completed**	**Completed**		**In Progress**	**For Approval**	**For Approval**		
Aggregate Total Cost	**$ 810,000.00**	**$ 1,644,300.00**		**$ 2,503,629.00**	**$ 3,388,737.88**	**$ 4,300,400.01**		

Legend: Bid Price Proposal Parameters for Mandatory Items		Remarks:
Item 1	Management and Administration Fees (Include all expenses for staffing, office maintenance, expenses for utilities and communications, management fees and administration fees)	Fixed Cost
Item 2	Security Contractor	Fixed Cost
Item 3	Spill Response Company Membership Fees	Fixed Cost
Item 4	Insurance Fees (Volume I - 5.41A)	Fixed Cost
Item 5	Inventory - Environmental / Oil Spill Equipment *Oil Spill Response & Environmental Compliance (OPA 90, SPCC and FRP, etc.)	Fixed Cost
Item 6	Operation and Maintenance Budget	Reimbursible Cost

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

Issues for Decision

Resolution No. 2020-04

Relative to Recognizing and Congratulating GPA's Recent Professional Engineers (PE); and Un Dångkulu Na Yu'os Ma'åse' to the Professional Engineers (PE) Who Continue to Mentor and Guide Other Prospective Engineers to Attain Professional Licensure

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

GPA requires highly skilled professionals especially in the area of Engineering. GPA Engineers provide professional and technical engineering expertise in planning, designing and managing projects required for the upgrade and maintenance of transmission and distribution lines, substation and generation facilities and for renewable energy production. Engineers communicate effectively, oversee special projects, develop economical solutions to technical problems and improve the reliability of electricity and power grids.

GPA currently has a total of 45 Engineers throughout the organization performing electrical, civil, mechanical, and environmental/regulatory work. Of the 45 Engineers in GPA, 14 Engineers are licensed Professional Engineer (PE). According to the National Society of Professional Engineers, a Professional Engineer is an individual, who has fulfilled education and experience requirements and passed a rigorous exam that, under State licensure laws, permits them to offer engineering services directly to the public.

A Professional Engineer (PE) license matters if you work in the electric power and renewable energy industry. Only a licensed Professional Engineer, may prepare, sign, seal and submit engineering plans and drawings to any public authority for approval, or to seal engineering work for public and private clients. The National Society of Professional Engineers best summarizes the power of the PE designation stating: "Licensure is the mark of a professional. It's a standard recognized by employers and their clients, by governments and by the public as an assurance of dedication, skill and quality." It tells the public that you have mastered the critical elements of your profession.

Within the last 5 years, **3 GPA Engineer employees have achieved the distinct designation of Professional Engineer (P.E.), they include Mr. Louis C. Camacho, P.E., Engineer III with the Distribution Section of Engineering, Mrs. Kristy C. Cuenca, Engineer III with the Substation/Transmission section of Engineering, and Special Projects Engineer, Mrs. Paz A. Tison with SPORD.**

There is an additional team of 11 other current professional engineers on staff at GPA who continue to mentor and guide other prospective engineers to attain professional licensure. All of GPA's professional engineers' level of expertise contribute to the progress GPA has made and will continue to make to provide outstanding energy solutions to benefit our ratepayers and island community.

The number of GPA professional engineers is the largest concentration within the Government of Guam and is competitive with the concentration of registered professional engineers employed by the federal government and engineering firms on Guam.

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

RESOLUTION NO. 2020-04

Recognizing and Congratulating GPA's Recent Professional Engineers (PE); and Un Dångkulu Na Si Yu'os Ma'åse' to the Professional Engineers (PE) Who Continue to Mentor and Guide Other Prospective Engineers to Attain Professional Licensure

WHEREAS, GPA requires highly skilled professionals especially in the area of Engineering. GPA Engineers provide professional and technical engineering expertise in planning, designing and managing projects required for the upgrade and maintenance of transmission and distribution lines, substation and generation facilities and for renewable energy production. Engineers communicate effectively, oversee special projects, develop economical solutions to technical problems and improve the reliability of electricity and power grids; and

WHEREAS, GPA currently has a total of **45** Engineers throughout the organization performing electrical, civil, mechanical, and environmental/regulatory work; and

WHEREAS, of the **45** Engineers in GPA, **14** Engineers are licensed Professional Engineer (PE). According to the National Society of Professional Engineers, a Professional Engineer is an individual, who has fulfilled education and experience requirements and passed a rigorous exam that, under State licensure laws, permits them to offer engineering services directly to the public; and

WHEREAS, a Professional Engineer (PE) license matters if you work in the electric power and renewable energy industry; and

WHEREAS, only a licensed Professional Engineer, may prepare, sign, seal and submit engineering plans and drawings to any public authority for approval, or to seal engineering work for public and private clients; and

WHEREAS, the National Society of Professional Engineers best summarizes the power of the PE designation stating: "Licensure is the mark of a professional. It's a standard recognized by employers and their clients, by governments and by the public as an assurance of dedication, skill and quality." It tells the public that you have mastered the critical elements of your profession; and

WHEREAS, more and more with each passing day, government agencies, educational institutions and private industries are requiring that they hire and contract only with licensed professional engineers; and

WHEREAS, within the last 5 years, 3 GPA Engineer employees have achieved the distinct designation of Professional Engineer (P.E.), they include **Mr. Louis C. Camacho, P.E., Engineer III** with the Distribution Section of Engineering, **Mrs. Kristy C. Cuenca, Engineer III** with the Substation/Transmission section of Engineering, and **Special Projects Engineer, Mrs. Paz A. Tison** with SPORD; and

WHEREAS, there is an additional team of **11** other current professional engineers on staff at GPA who continue to mentor and guide other prospective engineers to attain professional licensure; and

WHEREAS, all of GPA's professional engineers' level of expertise contribute to the progress GPA has made and will continue to make to provide outstanding energy solutions to benefit our ratepayers and island community; and

WHEREAS, the number of GPA professional engineers is the largest concentration within the Government of Guam and is comparable with the concentration of registered professional engineers employed by the federal government and engineering firms on Guam.

NOW, THEREFORE BE IT RESOLVED BY THE CCU, AS THE GOVERNING BODY OF GPA, AS FOLLOWS:

1. Recognizes and extends a sincere **CONGRATULATIONS** to the most recent Engineers at GPA, **Mr. Louis C. Camacho, P.E., Engineer III**, **Mrs. Kristy C. Cuenca, P.E., Engineer III** and **Mrs. Paz A. Tison, P.E., Special Projects Engineer** for becoming a licensed Professional Engineer (PE).

2. Recognizes and extends Un Dångkulu Na Si Yu'os Ma'åse' to the licensed Professional Engineers (PE) of GPA (list attached) who continue to mentor and guide other prospective Engineers to attain Professional Licensure in service to the people of Guam.

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 28TH DAY OF JANUARY, 2020.

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: _____

106

107

108

109

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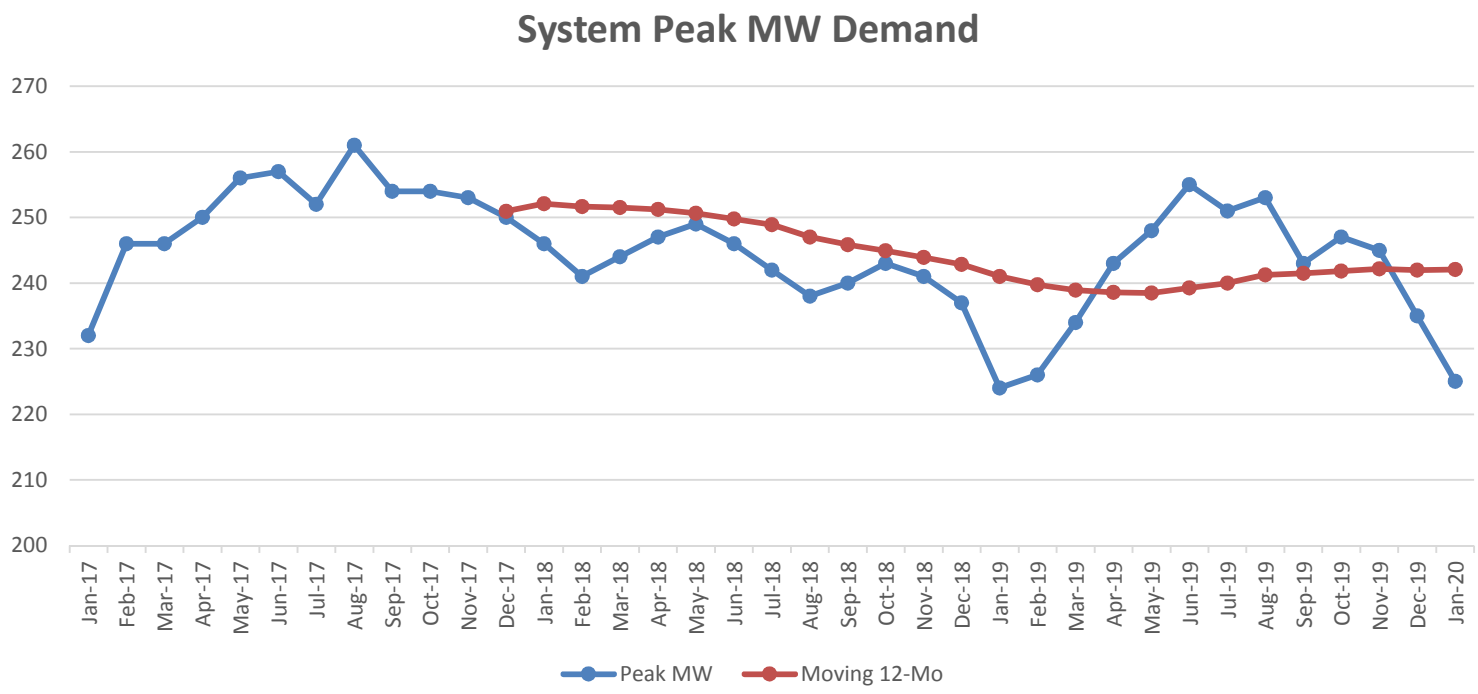
GENERAL MANAGER'S REPORT

JANUARY 2020

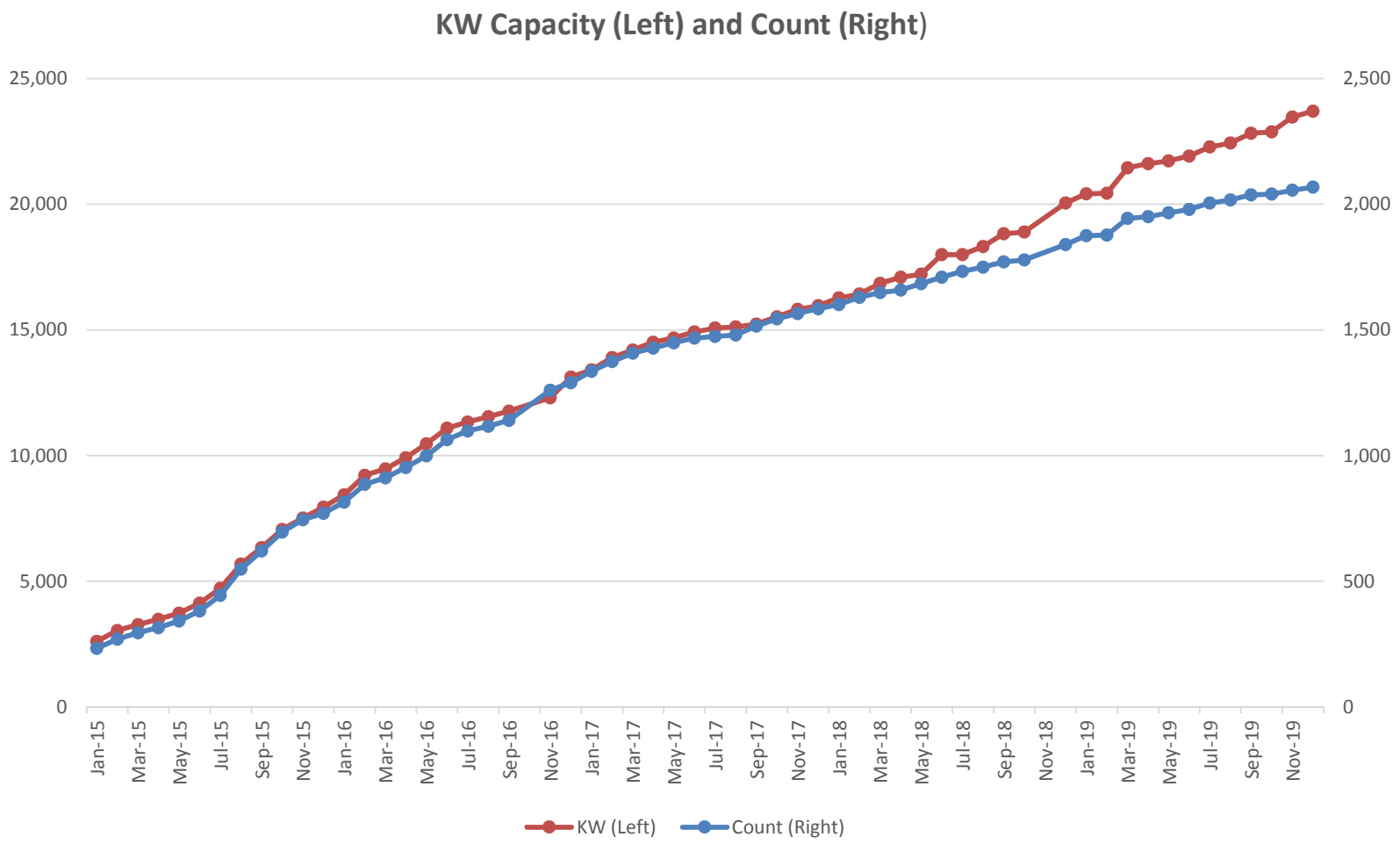
1. **Generation System:** The following is the generation forecast for February 2020:

Projected Available Capacity:	352 MW
Projected Demand:	228 MW
Anticipated Reserve Margin:	124 MW

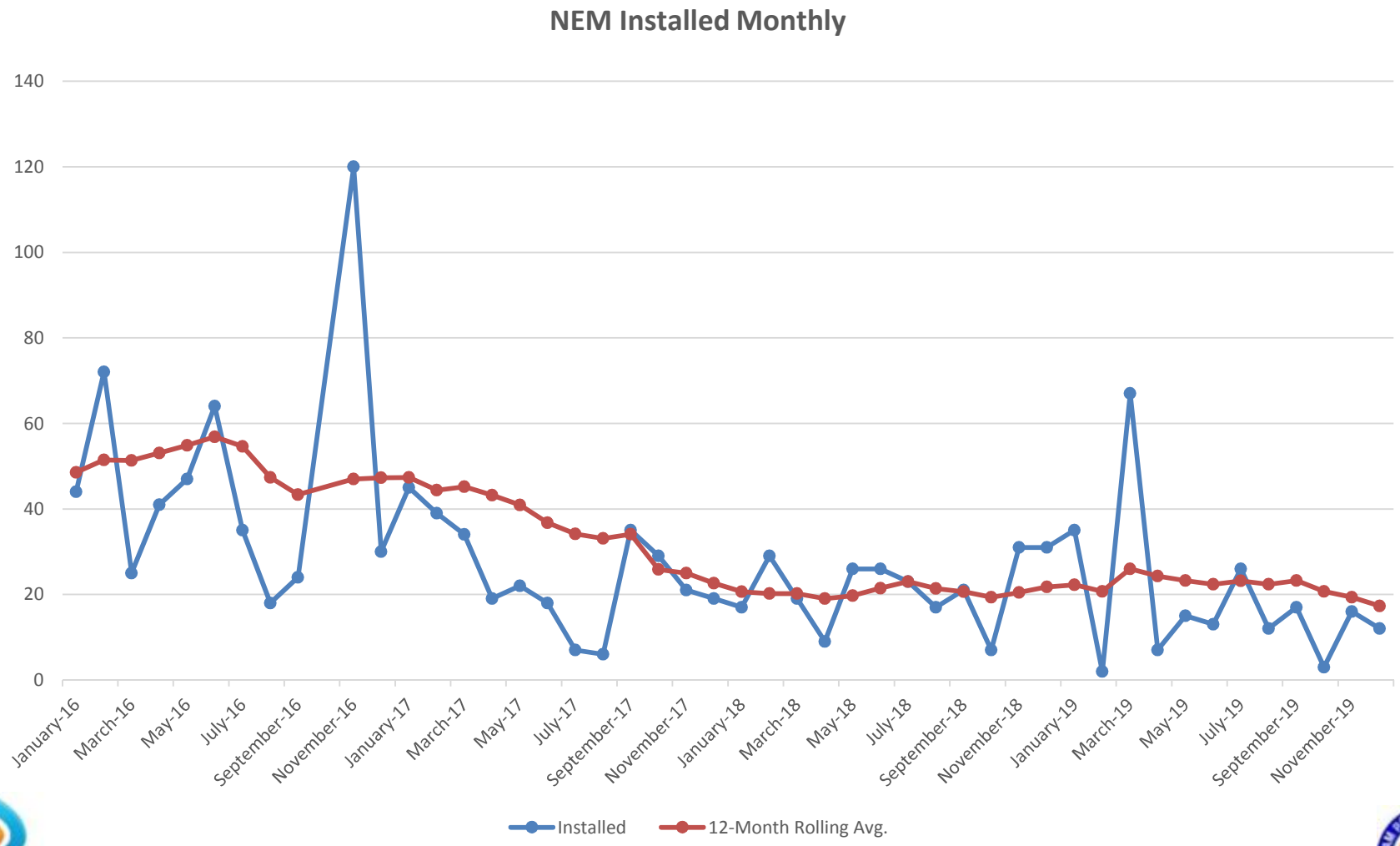
- The following updates monthly peak MW demand ending January 14, 2020:



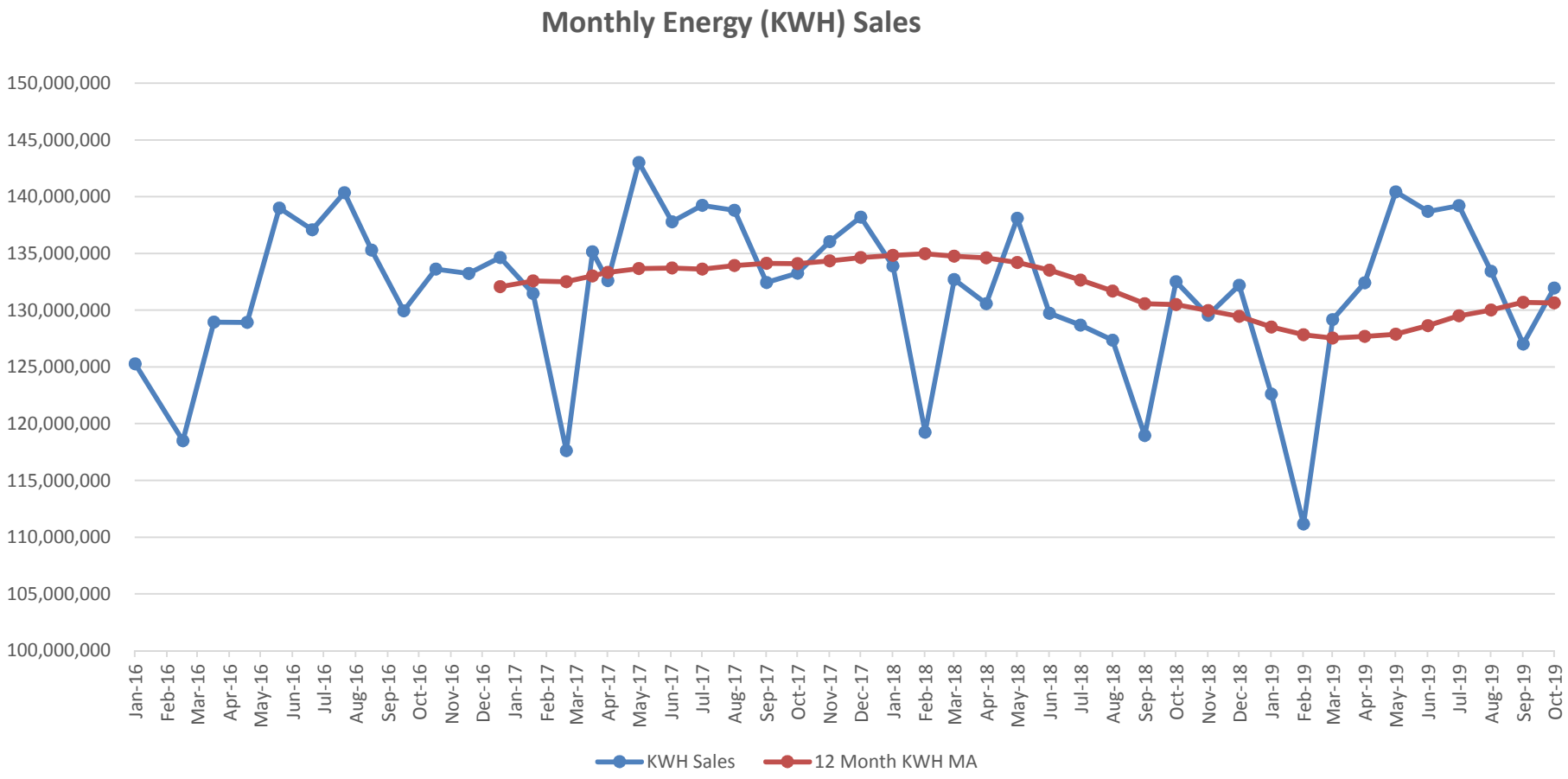
2. Net Metering (NEM) Growth Thru December 2019:



2. Net Metering (NEM) Growth Thru December 2019 (Cont'd):



3. Energy Sales Thru October 2019:



Demand Side Management (DSM)

4. Program directly reduces energy cost to customer at a one time fixed rebate. These expenses funded from base rate. I have added $500K from FY 2020 budget to cover expenses thru March 2020 in order to provide time for PUC to approve placing DSM under LEAC.

DSM PROGRAM SUMMARY

Description	FY16	FY17	FY18	FY19	FY20 Thru December 31, 2019	Total to Date
Regular/OT Pay	$11,348.80	$22,256.00	$26,121.83	$50,715.19	$6,059.80	$116,501.62
Other Contractual	$28,278.50	$85,550.05	$116,977.50	$3,025.00	$0.00	$233,831.05
Ads & Radio Announcements	-	-	-	$7,500.00	$1,500.00	$9,000.00
Paid Rebates-Split AC	$154,700.00	$557,275.00	$1,349,825.00	$1,374,650.00	$237,925.00	$3,674,375.00
Paid Rebates-Central AC	$3,400.00	$8,200.00	$4,400.00	$6,500.00	$1,000.00	$23,500.00
Paid Rebates-Washer/Dryer	$2,800.00	$7,425.00	$57,200.00	$110,800.00	$21,200.00	$199,425.00
Total Expenses	$200,527.30	$680,706.05	$1,554,524.33	$1,553,190.19	$267,684.80	$4,256,632.67
Bank Interest (+)	$1,676.42	$1,722.74	$1,222.29	$730.05	$127.57	$5,479.07
Bank Fees	$155.00	$1,032.06	$1,085.08	$1,247.54	$145.00	$3,664.68

5. PUC DOCKETS:
   - GPA Docket 20-01: The PUC approved the proposed Consent Decree with USEPA at their meeting on December 5, 2019. Both MEC and myself have signed the approved Consent Decrees.

6. Award of Phase III:
   - Notice of Intent to Award, subject to CCU and PUC approvals to Engie Solar was made on October 4, 2019. A protest was filed by GlidePath on October 9, 2019. GPA denied the protest and the procurement is currently before the OPA for hearings and decision.

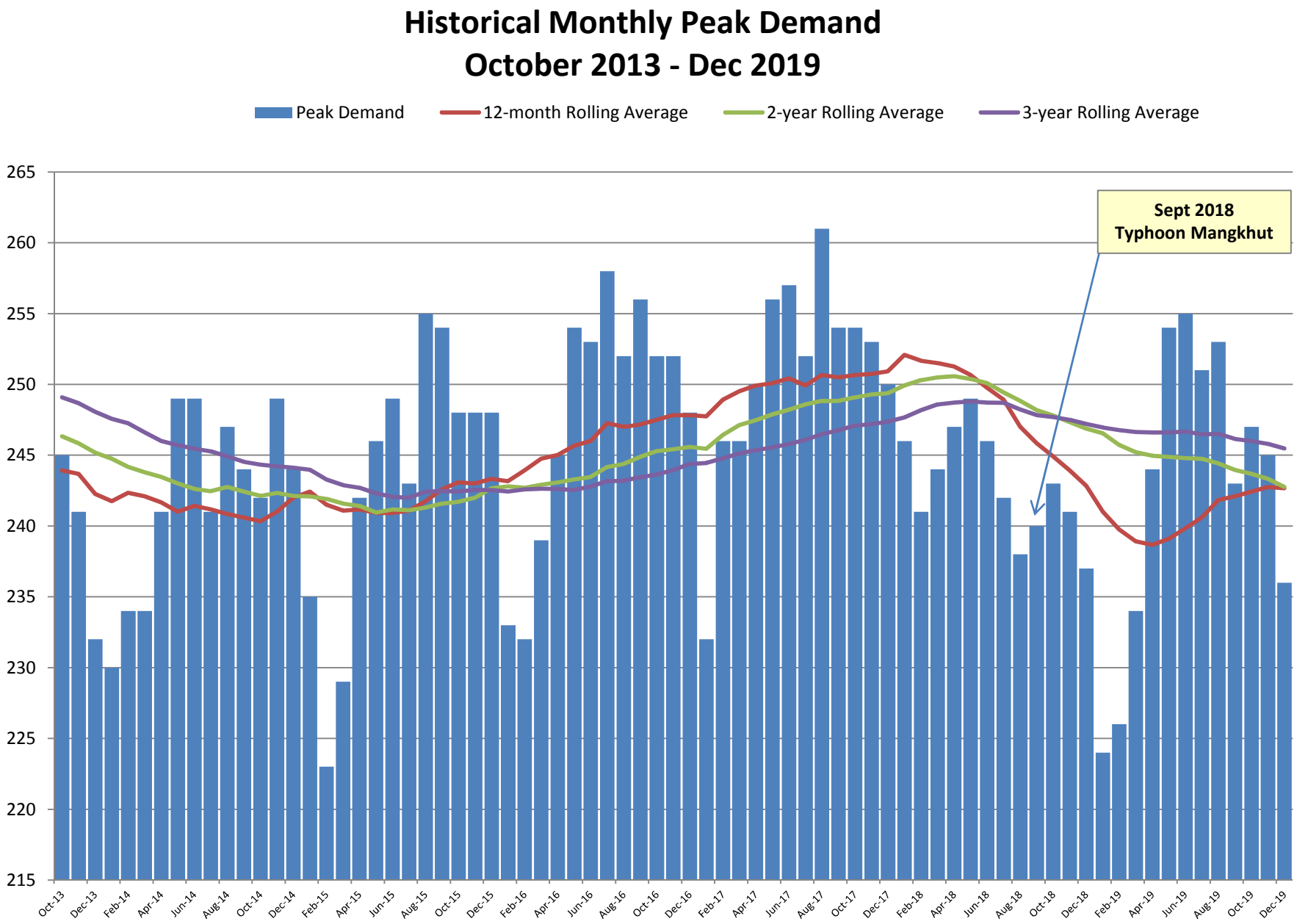
7. Informational Briefings Conducted:
   - Powering the Future to Members, Guam Association of Government Accountants (AGA) was conducted on Wednesday January 22, 2020.

8. Integrated Resource Plan:
   - GPA has begun the process of updating the IRP considering that almost all the significant task within the current IRP have been achieved or contracted for. The AGMET has begun the process which would include stakeholder participation. We hope to complete a draft for the CCU consideration this summer. The key features of the updated IRP include an updated load forecast, fuel forecast, conventional generation mix, renewable generation mix, diversified fuel source, reliability amongst other factors including investments required to support the updated IRP.

9. Bond Ratings:
   - **GPA bond rating was upgraded by Fitch from BBB- to BBB Stable this week.** This is a significant upgrade which will save ratepayers borrowing cost when in the near future we look at refinancing our 2012 bonds or if we had to issue bonds for upgrades in the transmission system to accommodate more renewables.

   - We also recently had a conference call with Moody's updating them on the latest accomplishments similar to the presentation we did for Fitch. However, because one of Moody's criteria is that GPA bond ratings will not be rated more than two notches above the GovGuam ratings, we don't anticipate any upgrades from Moody's because this is currently the situation.

10. **The following graphs show the updated system information:**


Historical Monthly Peak Demand
October 2013 - Dec 2019
Peak Demand
12-month Rolling Average
2-year Rolling Average
3-year Rolling Average
Sept 2018
Typhoon Mangkhut
265
260
255
250
245
240
235
230
225
220
215
Oct-13
Dec-13
Feb-14
Apr-14
Jun-14
Aug-14
Oct-14
Dec-14
Feb-15
Apr-15
Jun-15
Aug-15
Oct-15
Dec-15
Feb-16
Apr-16
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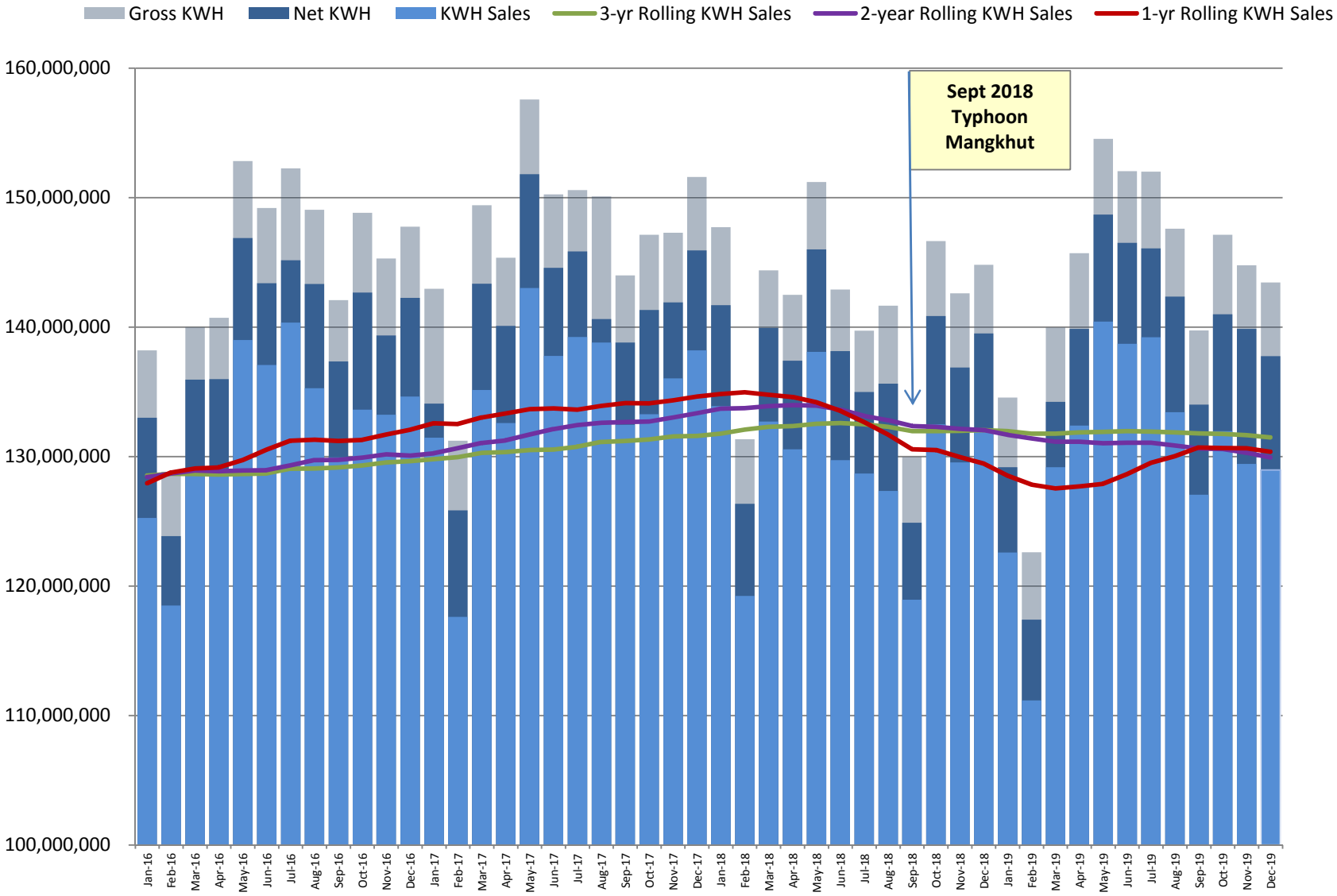
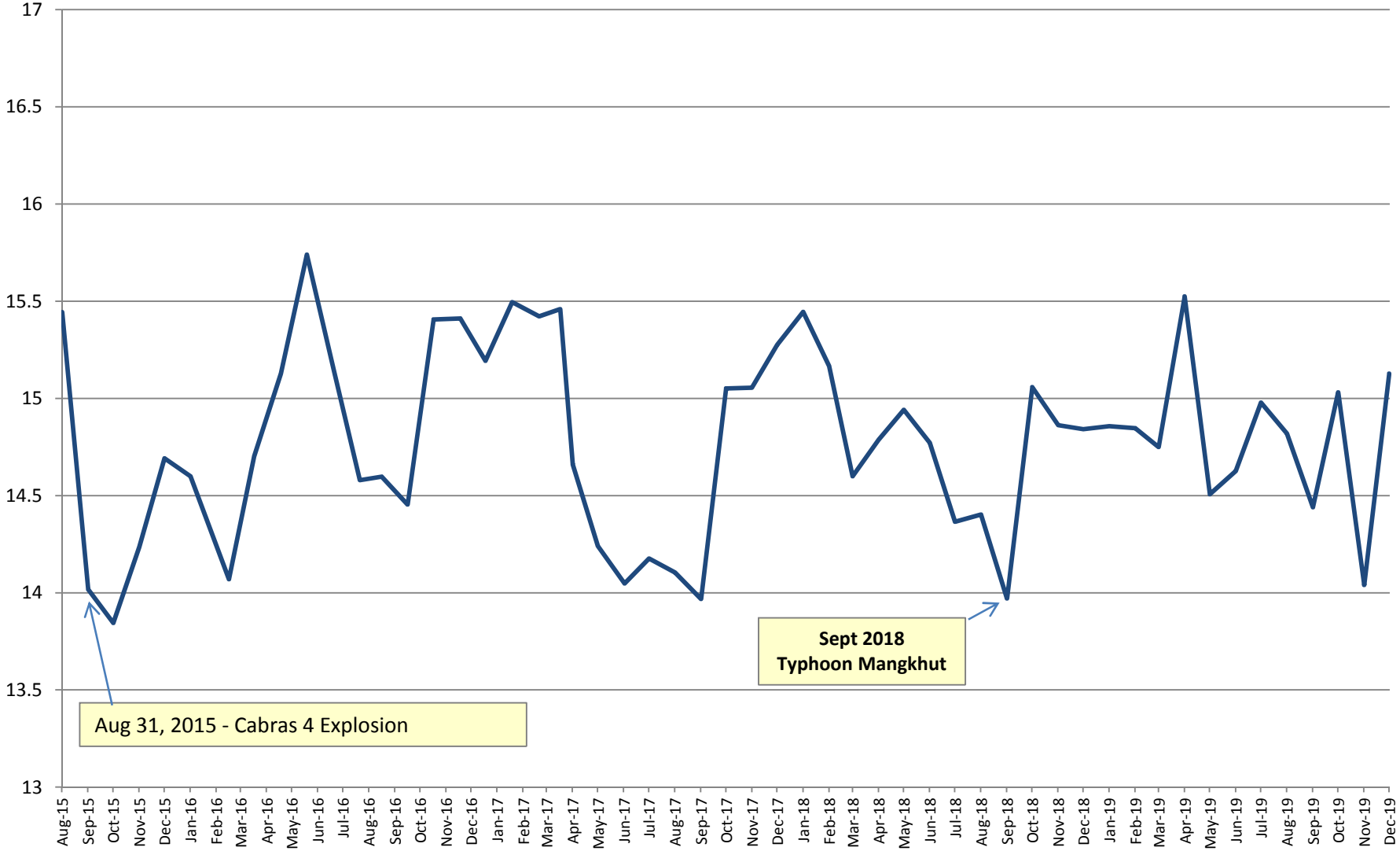
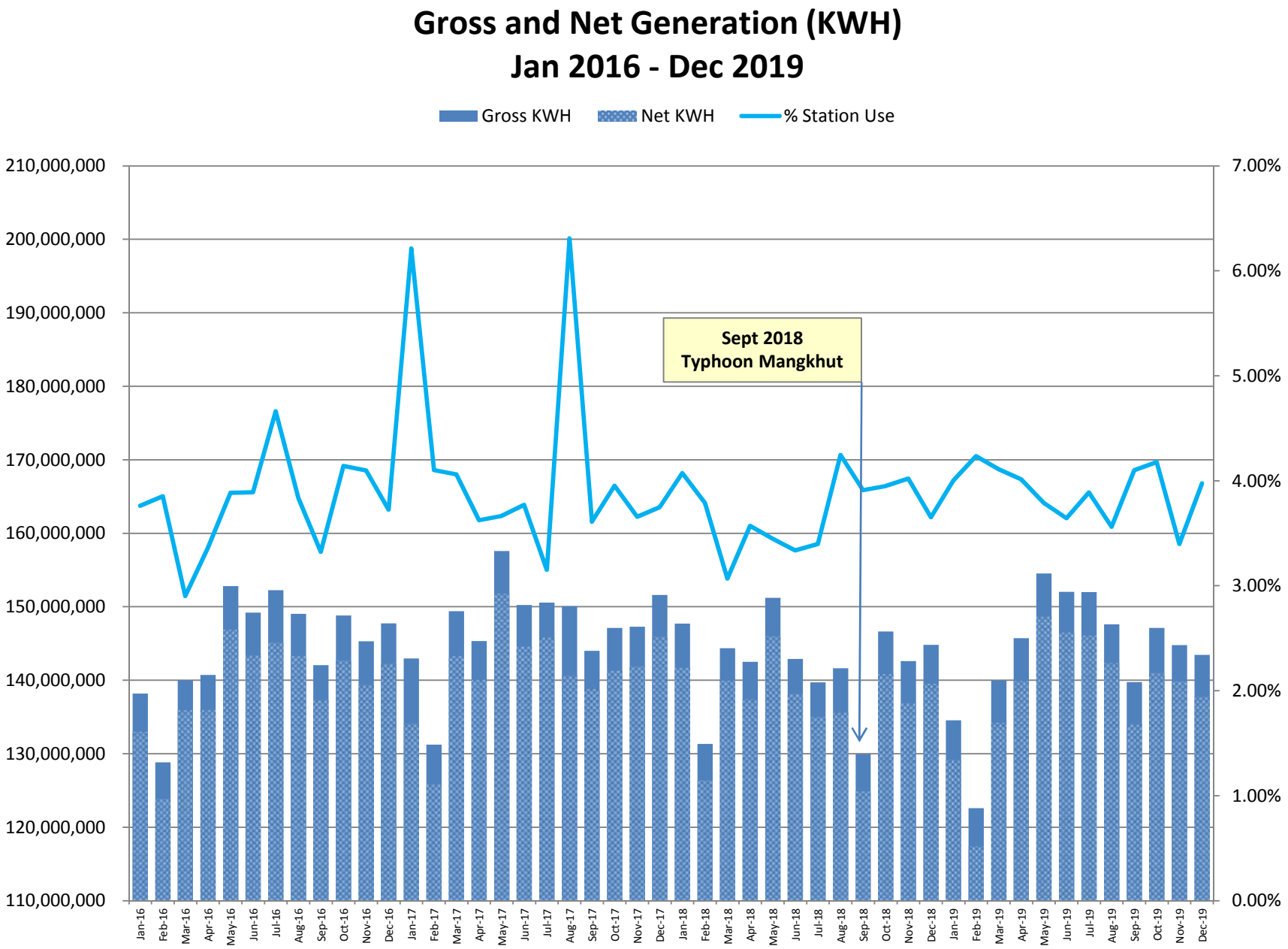
Aug-17
Oct-17
Dec-17
Feb-18
Apr-18
Jun-18
Aug-18
Oct-18
Dec-18
Feb-19
Apr-19
Jun-19
Aug-19
Oct-19
Dec-19

Historical KWH Sales
Jan 2016 - Dec 2019



SYSTEM GROSS HEAT RATE
(KWH/Gal)
Aug 2015 - Dec 2019




Gross and Net Generation (KWH)
Jan 2016 - Dec 2019
Gross KWH
Net KWH
% Station Use
Sept 2018
Typhoon Mangkhut
210,000,000
200,000,000
190,000,000
180,000,000
170,000,000
160,000,000
150,000,000
140,000,000
130,000,000
120,000,000
110,000,000
7.00%
6.00%
5.00%
4.00%
3.00%
2.00%
1.00%
0.00%
Jan-16
Feb-16
Mar-16
Apr-16
May-16
Jun-16
Jul-16
Aug-16
Sep-16
Oct-16
Nov-16
Dec-16
Jan-17
Feb-17
Mar-17
Apr-17
May-17
Jun-17
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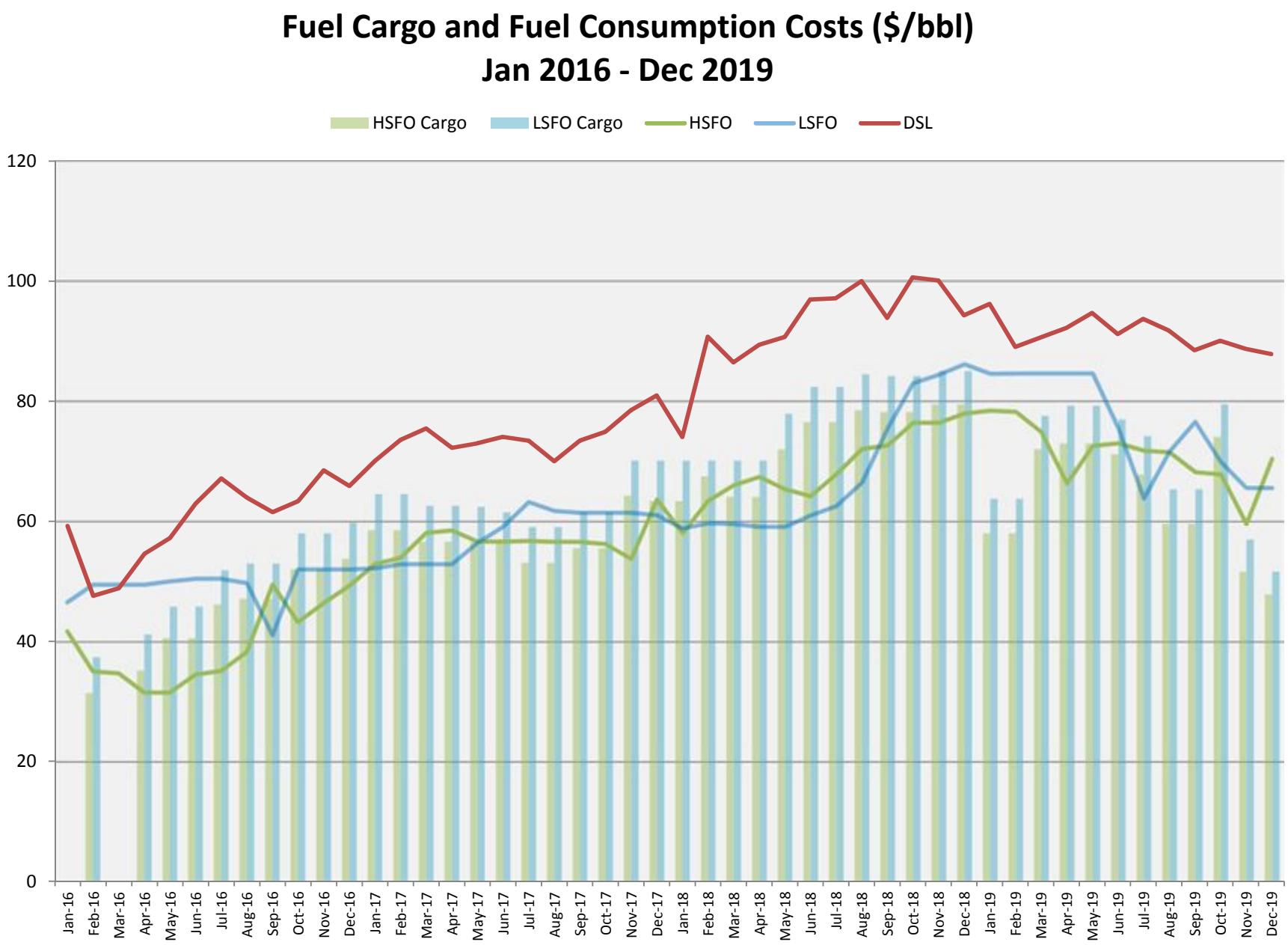
Nov-19
Dec-19


Fuel Cargo and Fuel Consumption Costs ($/bbl)
Jan 2016 - Dec 2019
HSFO Cargo
LSFO Cargo
HSFO
LSFO
DSL
120
100
80
60
40
20
0
Jan-16
Feb-16
Mar-16
Apr-16
May-16
Jun-16
Jul-16
Aug-16
Sep-16
Oct-16
Nov-16
Dec-16
Jan-17
Feb-17
Mar-17
Apr-17
May-17
Jun-17
Jul-17
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Jan-19
Feb-19
Mar-19
Apr-19
May-19
Jun-19
Jul-19
Aug-19
Sep-19
Oct-19
Nov-19
Dec-19

Customer Service Division

December 2019

SITE	Less than 10 Mins.	%	10-15 Mins.	%	15-30 Mins.	%	30-45 Mins.	%	TOTAL	Location %
FADIAN	1,022	67%	230	15%	199	13%	73	5%	1,524	29%
HAGATNA	1,255	74%	206	12%	191	11%	45	3%	1,697	32%
UPPER TUMON	1,375	66%	274	13%	267	13%	157	8%	2,073	39%
TOTAL:	3,652	69%	710	13%	657	12%	275	5%	5,294	100%

Government Accounts Receivable: CSD reports invoices for the month of November 2019, for 75 active government accounts with an overall total of $9,441,992.33, and 37 accounts were current (49%), 38 accounts with arrears (51%). 29 fax/emails issued to government accounts totaling $4,383,574.69. Oct 2019 invoices, 28 accounts paid in full.

Credit and Collection

Delinquent Ratio: As of October 2019, the authority reported a total 48,490, active customers. The "Delinquent Ratio" was recorded at 6.12% with 2,969 total delinquent accounts, total arrears of 1,656,687.43; 1,423,613.61; 2,752(5.68% / 28-45 days) category; 92,084.38; 451(0.93% / 46-60 days); 48,762.04; 143(0.29% 61-90 days); and 92,227.40; 251(0.52% / Over 90 days).

Bankruptcy: The Authority reports no Bankruptcy for the month of December 2019.

Damage Claim: The Damage claim committee received two (2) Damage claims at $988.00 for the month of December 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 839 customers; 632(75%) were disconnected; 196(23%) deferred; 11(1%) incompletes.

3 Phase Meters: Credit and Collection issued orders to Disconnect Reconnect crew to perform truck roll out disconnect/reconnect for a total of 45 customers; 19(42%) were disconnected; 26(58%) deferred; 0(0%) incompletes.

FY 2020 (Dec 01-31, 2019)

	Scheduled	Disc	Deferred	Complete Vs. Scheduled	Incomplete Disconnections	Disc Vs. Scheduled	Deferred Vs. Scheduled	Incomplete Vs. Scheduled
Dec-19	884	651	222	873 99%	11	74%	25%	1%
Nov-19	307	217	89	306 100%	1	71%	29%	0%
Oct-19	778	490	271	761 98%	17	63%	35%	2%
TOTAL:	1,969	1,358	582	1,940 99	29	69%	30%	1%

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 Dec 2019.

Respectfully submitted,
Marissa Fernandez
Marissa Fernandez, Admin. Officer

Reviewed / Approved by:
Richard J. Bersamin, ACSM

Run Date: 1/8/2020
Run Time: 12:01:50AM

Guam Power Authority
Delinquent Active Accounts Summary Report
As of - 01/08/2020

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)	42,701	2,665	2,474	391	109	205	5,113,873.97	573,769.44	73,005.27	34,060.21	65,135.70	745,970.62	5,859,844
		6.24%	5.79%	0.92%	0.26%	0.48%							
Small Gen Non Demand(EGEN-G)	4,065	209	187	43	23	31	807,409.33	85,947.23	16,114.02	7,897.23	13,963.25	123,921.73	931,331
		5.14%	4.60%	1.06%	0.57%	0.76%							
Small Gen Demand(EGEND-J)	1,092	56	54	6	1	4	2,613,770.91	168,268.29	2,521.34	6,400.00	2,572.33	179,761.96	2,793,532
		5.13%	4.95%	0.55%	0.09%	0.37%							
Large General(ELPS-P)	119	13	12	0	0	1	6,322,283.61	594,795.49	0.00	0.00	5,527.55	600,323.04	6,922,606
		10.92%	10.08%	0.00%	0.00%	0.84%							
Private Streetlight(EPOL-H)	513	26	25	11	10	10	16,595.47	833.16	443.75	404.60	5,028.57	6,710.08	23,305
		5.07%	4.87%	2.14%	1.95%	1.95%							
Sub-Total (Private)	**48,490**	**2,969**	**2,752**	**451**	**143**	**251**	**14,873,933.29**	**1,423,613.61**	**92,084.38**	**48,762.04**	**92,227.40**	**1,656,687.43**	**16,530,620**
		6.12%	**5.68%**	**0.93%**	**0.29%**	**0.52%**							
Small Gov Non Demand(ESGS-S)	668	301	293	146	17	29	665,491.53	180,773.63	113,960.37	10,203.36	8,660.95	313,598.31	979,089
		45.06%	43.86%	21.86%	2.54%	4.34%							
Small Gov Demand(ESGSD-K)	359	146	145	96	0	2	3,735,380.64	795,706.64	640,267.64	0.00	2,806.64	1,438,780.92	5,174,161
		40.67%	40.39%	26.74%	0.00%	0.56%							
Large Government(ELGS-L)	44	25	25	22	0	0	2,890,327.50	594,144.79	577,702.19	0.00	0.00	1,171,846.98	4,062,174
		56.82%	56.82%	50.00%	0.00%	0.00%							
Gov Streetlight(ESTL-F)	617	458	442	448	60	422	1,864,511.41	447,617.09	494,188.16	78,286.14	463,632.62	1,483,724.01	3,348,235
		74%	71.64%	72.61%	9.72%	68.40%							
Sub-Total (Government)	**1,688**	**930**	**905**	**712**	**77**	**453**	**9,155,711.08**	**2,018,242.15**	**1,826,118.36**	**88,489.50**	**475,100.21**	**4,407,950.22**	**13,563,661**
		55.09%	**53.61%**	**42.18%**	**4.56%**	**26.84%**							
GRAND TOTAL	**50,178**	**3,899**	**3,657**	**1,163**	**220**	**704**	**24,029,644.37**	**3,441,855.76**	**1,918,202.74**	**137,251.54**	**567,327.61**	**6,064,637.65**	**30,094,282**
		7.77%	**7.29%**	**2.32%**	**0.44%**	**1.40%**							

Guam Power Authority

Customer Service Division

Employee Month-To-Date (MTD) Consolidated Report

Dec 2019

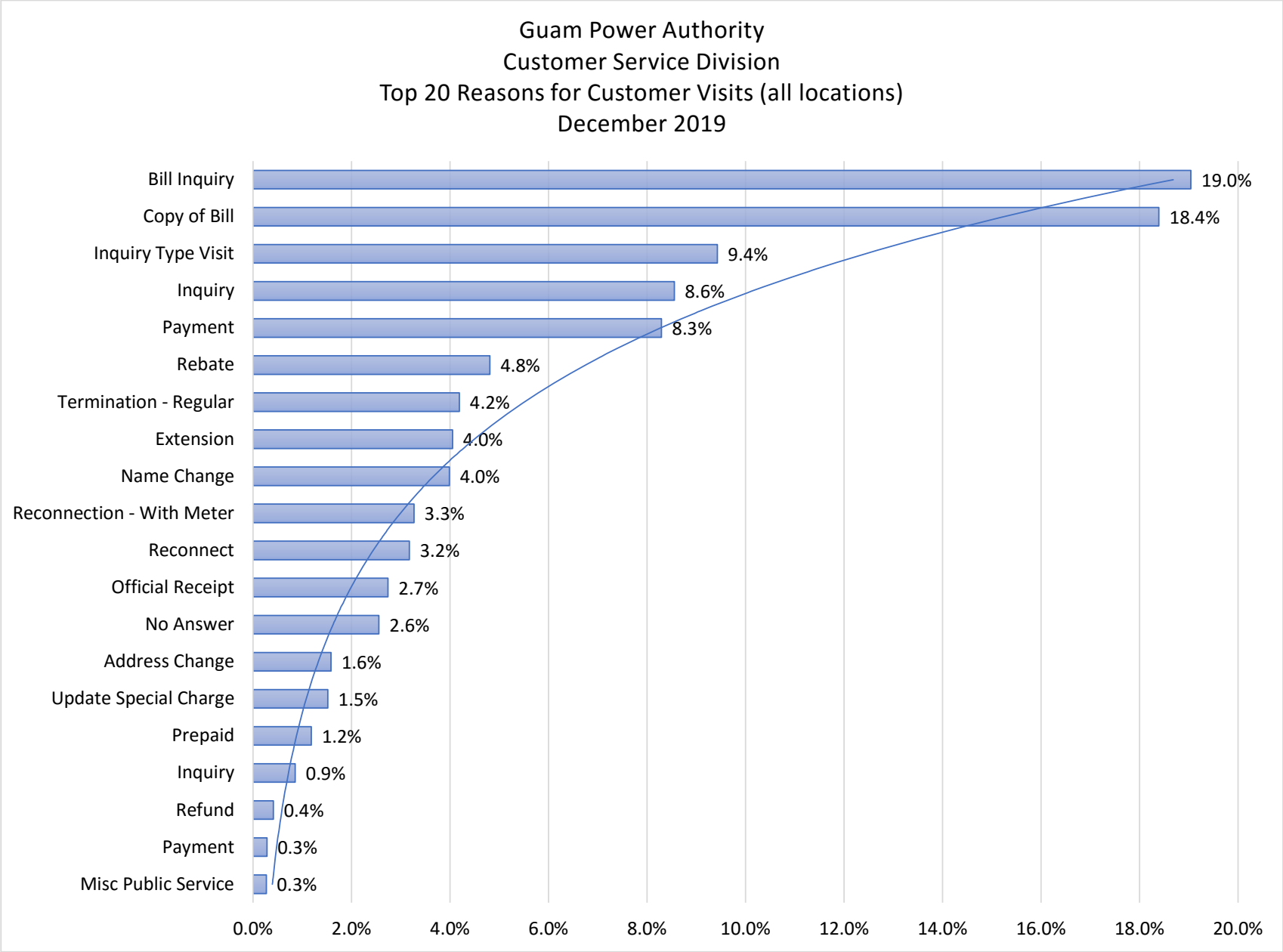
Date: 01/14/2020

Compiled by: VMTaitague/EDMendiola

Reviewed by: EDMendiola

Reason(s) for visit	Transaction type	Fadian	% MTD	Hagatna	% MTD	Tumon	% MTD	TOTAL
New Install - Permanent (NI1)	Application	8	0.3%	0	0.0%	0	0.0%	8
New Install - Temporary (NI2)	Application	7	0.3%	1	0.0%	2	0.0%	10
New Install - Street Light (NI3)	Application	1	0.0%	0	0.0%	0	0.0%	1
Reconnection - Without Meter (NI4)	Application	10	0.4%	0	0.0%	5	0.1%	15
Reconnection - With Meter (NI5)	Application	74	3.2%	97	3.1%	142	3.4%	313
Name Change (NC1)	Application	92	3.9%	116	3.7%	164	3.9%	372
Name Change - Street Light (NC2)	Application	0	0.0%	0	0.0%	2	0.0%	2
Termination - Regular (TE1)	Termination	87	3.7%	99	3.2%	209	5.0%	395
Termination - Name Change (TE2)	Termination	0	0.0%	0	0.0%	0	0.0%	0
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	2	0.1%	0	0.0%	0	0.0%	2
Termination (TE6)	Termination	3	0.1%	0	0.0%	1	0.0%	4
Work Clearance - Emergency (WCE)	Other	3	0.1%	2	0.1%	5	0.1%	10
Work Clearance - Underground (UG)	Other	10	0.4%	0	0.0%	0	0.0%	10
Work Clearance - Overhead (OH)	Other	17	0.7%	1	0.0%	7	0.2%	25
Meter Investigation (INV)	Other	5	0.2%	1	0.0%	0	0.0%	6
Meter Change Out / Calibration (MC1)	Other	0	0.0%	0	0.0%	1	0.0%	1
Meter Upgrade /Downgrade (MC3)	Other	0	0.0%	2	0.1%	0	0.0%	2
Misc Public Service (MPS)	Other	25	1.1%	5	0.2%	6	0.1%	36
Refund (RFD)	Other	9	0.4%	6	0.2%	23	0.5%	38
Relocation of Meter (RM1)	Other	5	0.2%	1	0.0%	0	0.0%	6
Street Light Repair (ST1)	Other	17	0.7%	0	0.0%	0	0.0%	17
Official Receipt (OR)	Other	28	1.2%	45	1.4%	180	4.3%	253
Update Special Charge (USC)	Other	0	0.0%	7	0.2%	133	3.2%	140
Inspection Report (IR)	Other	6	0.3%	5	0.2%	11	0.3%	22
Copy of Bill (COB)	Other	358	15.3%	624	20.1%	717	17.1%	1,699
Bill Inquiry (BILL INQ)	Other	216	9.2%	740	23.8%	803	19.2%	1,759
Bill Adjustment (BILL ADJ)	Other	3	0.1%	4	0.1%	3	0.1%	10
Address Change (ADDR CHG)	Other	24	1.0%	33	1.1%	89	2.1%	146
Deferred Payment Agreement (DPA)	Other	2	0.1%	0	0.0%	0	0.0%	2
Prepaid	Other	35	1.5%	12	0.4%	62	1.5%	109
Rebate	Other	210	9.0%	138	4.4%	110	2.6%	458
ACH/EFT	Other	0	0.0%	4	0.1%	6	0.1%	10
No Answer	Other	109	4.7%	62	2.0%	66	1.6%	237
Inquiry Type Visit	Other	270	11.5%	331	10.7%	270	6.5%	871
Inquiry Type Other	Other	90	3.8%	11	0.4%	192	4.6%	293
Inquiry (INQ)	Active Delinquent	244	10.4%	280	9.0%	266	6.4%	790
Payment (PYMT)	Active Delinquent	199	8.5%	221	7.1%	346	8.3%	766
Do Not Disconnect (DND)	Active Delinquent	1	0.0%	0	0.0%	0	0.0%	1
Extension (EXT)	Active Delinquent	75	3.2%	147	4.7%	151	3.6%	373
Reconnect (REC)	Active Delinquent	64	2.7%	70	2.3%	159	3.8%	293
Inquiry (INQ)	Inactive	23	1.0%	22	0.7%	34	0.8%	79
Payment (PYMT)	Inactive	10	0.4%	11	0.4%	5	0.1%	26
Transfer Balance (TRF BAL)	Inactive	1	0.0%	6	0.2%	13	0.3%	20
Total transactions by location		2,343		3,104		4,183		
Grand total for all locations								9,630

Duration of wait time for "Visit (V)" type customer contact	Fadian	%	Hagatna	%	Tumon	%
Less than 10 minutes	1,022	67%	1,255	74%	1,375	66%
10-15 minutes	230	15%	206	12%	274	13%
16-30 minutes	199	13%	191	11%	267	13%
More than 30 minutes	73	5%	45	3%	157	8%
Total "Visit (V)" customers contacts	**1,524**		**1,697**		**2,073**	

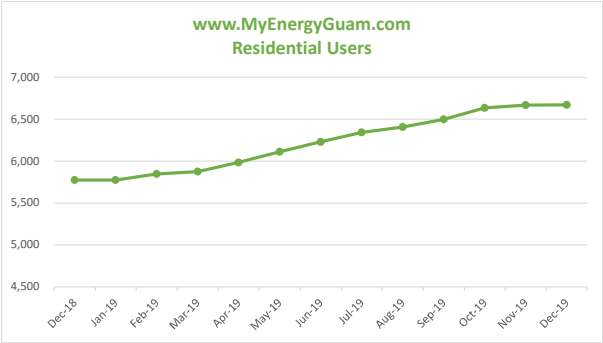

Guam Power Authority
Customer Service Division
Top 20 Reasons for Customer Visits (all locations)
December 2019
Bill Inquiry 19.0%
Copy of Bill 18.4%
Inquiry Type Visit 9.4%
Inquiry 8.6%
Payment 8.3%
Rebate 4.8%
Termination - Regular 4.2%
Extension 4.0%
Name Change 4.0%
Reconnection - With Meter 3.3%
Reconnect 3.2%
Official Receipt 2.7%
No Answer 2.6%
Address Change 1.6%
Update Special Charge 1.5%
Prepaid 1.2%
Inquiry 0.9%
Refund 0.4%
Payment 0.3%
Misc Public Service 0.3%
0.0% 2.0% 4.0% 6.0% 8.0% 10.0% 12.0% 14.0% 16.0% 18.0% 20.0%

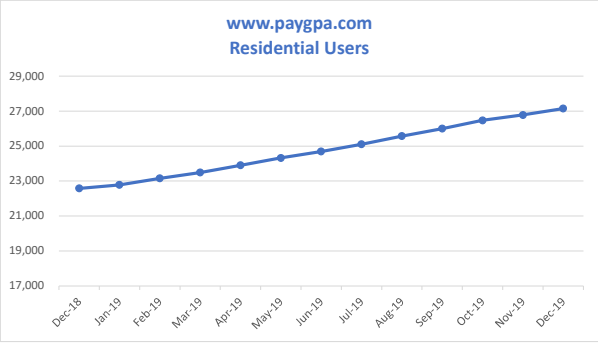
Guam Power Authority

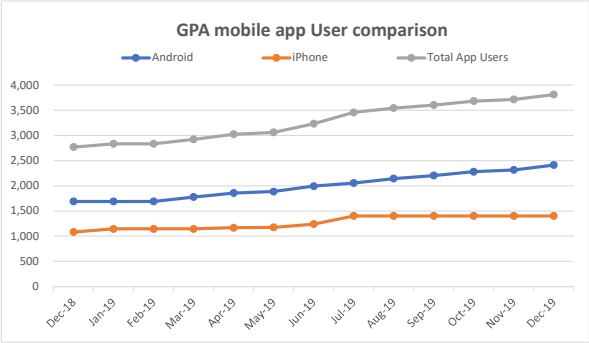
Customer Service Division

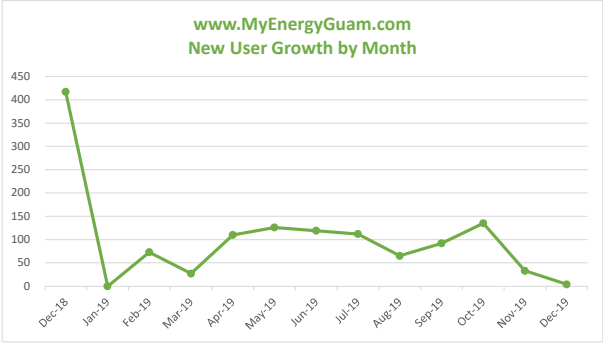
Online resources usage and growth - Residential Users

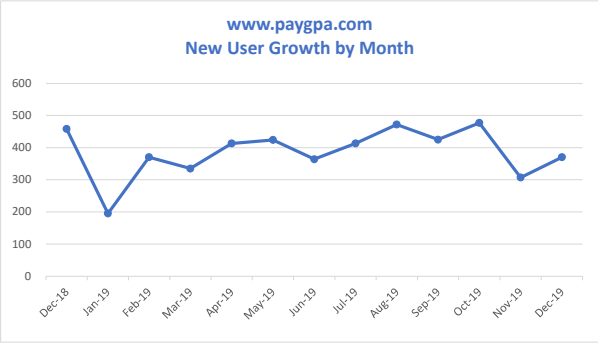
as of 12/31/2019

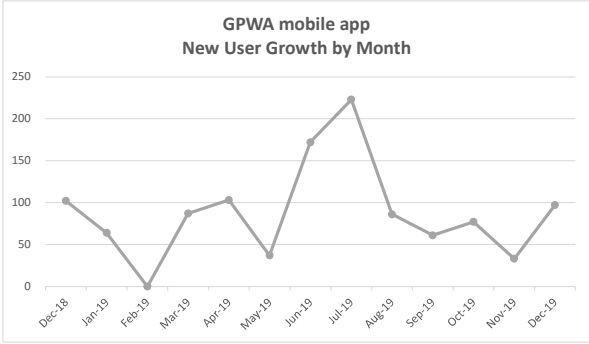










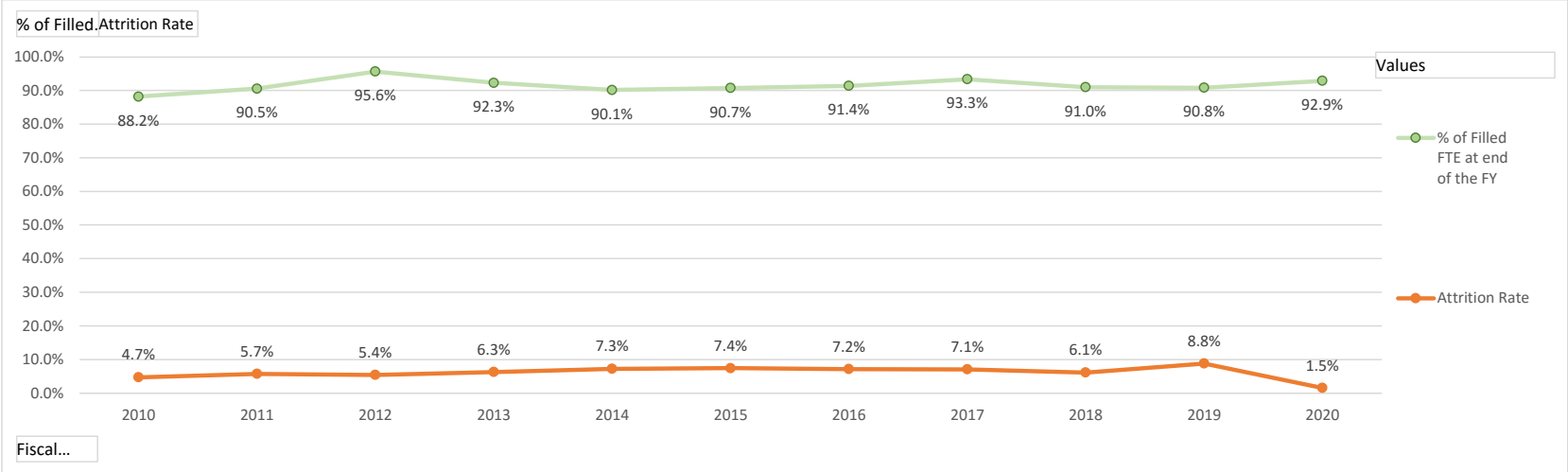


Guam Power Authority

Human Resources Division

FY 2020 Recruitment Analysis

as of December 31, 2019



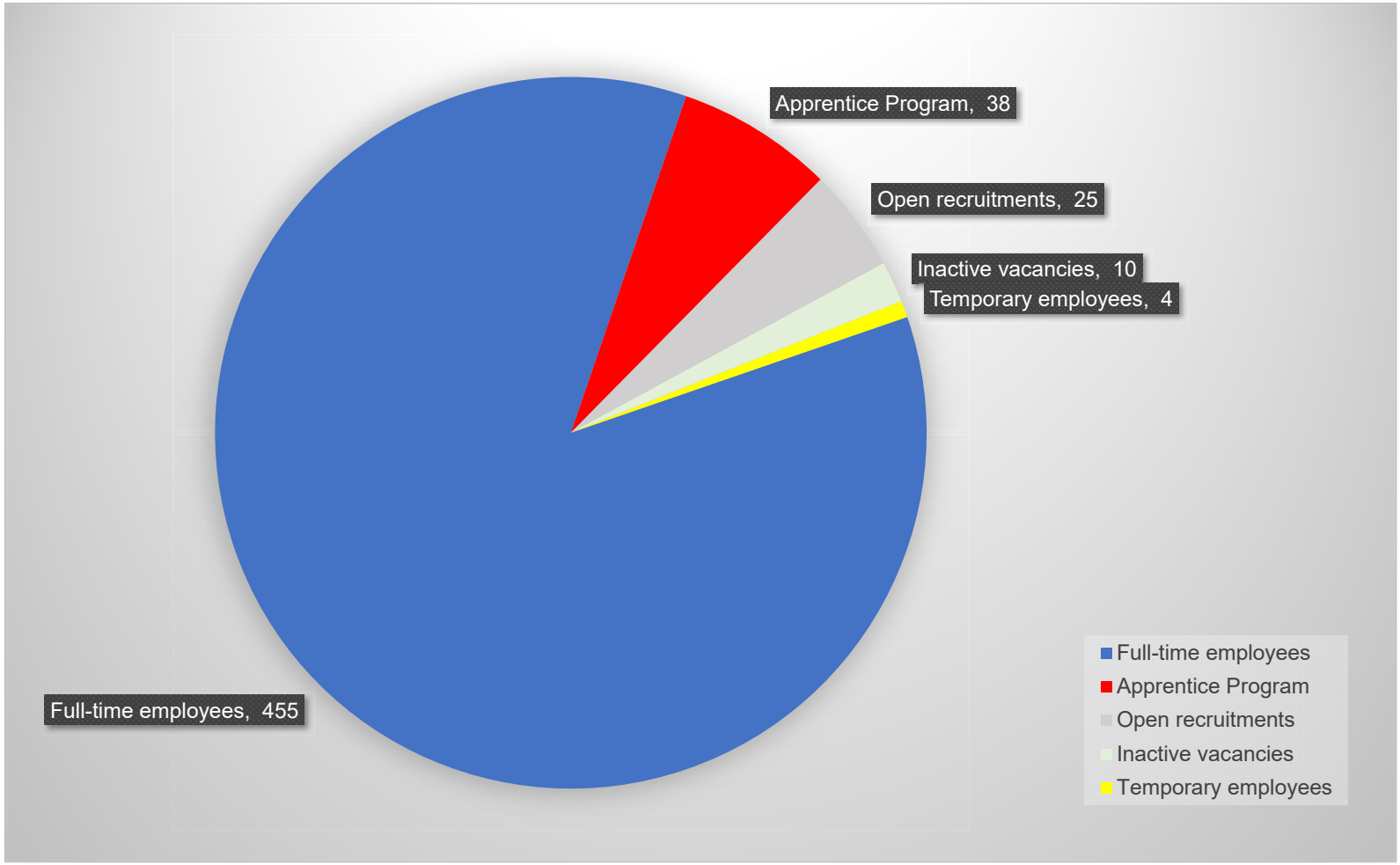
Fiscal Year	New Hire	Promotion	Reclassification	Termination	Death	Resignation	Retirement	Attrition Rate	Total Authorized FTE	Total Filled FTE at end of the FY	% of Filled FTE at end of the FY
2010	13	20	10	0	1	12	12	4.7%	592	522	88.2%
2011	44	23	6	4	0	14	12	5.7%	592	536	90.5%
2012	36	24	6	1	2	19	7	5.4%	568	543	95.6%
2013	15	26	9	1	3	14	16	6.3%	568	524	92.3%
2014	26	27	8	1	0	13	24	7.3%	568	512	90.1%
2015	15	25	12	2	1	19	16	7.4%	539	489	90.7%
2016	12	20	17	3	1	15	16	7.2%	510	466	91.4%
2017	42	15	21	0	1	13	19	7.1%	510	476	93.3%
2018	17	16	13	0	3	15	11	6.1%	510	464	91.0%
2019	31	20	3	3	3	18	17	8.8%	500	454	90.8%
2020	8	4	2	1	0	2	4	1.5%	490	455	92.9%

Guam Power Authority

Human Resources Division

FY 2020 Staffing Report

as of December 31, 2019



Guam Power Authority

Human Resources Division

FY 2020 Staffing Report

as of December 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	32	32	2	2	34
Engineering	38	38	1	1	39
Facilities	8	8	1	1	9
Finance	43	42	1	2	44
General Manager (GM)	4	4	-	-	4
Generation	117	117	5	5	122
Human Resources	9	9	1	1	10
Information Technology	16	16	-	-	16
Internal Audit / Revenue Protection	3	3	-	-	3
Planning and Regulatory	8	8	-	-	8
Power System Control Center	22	22	5	5	27
Procurement	21	20	1	2	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	14	14	114
Transportation	11	11	-	-	11
Total full-time permanent employees	**457**	**455**	**33**	**35**	**490**
Apprenticeship Program	38	38	-	-	38
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	**42**	**42**	**-**	**-**	**42**
Work Force Grand Total	**499**	**497**	**33**	**35**	**532**

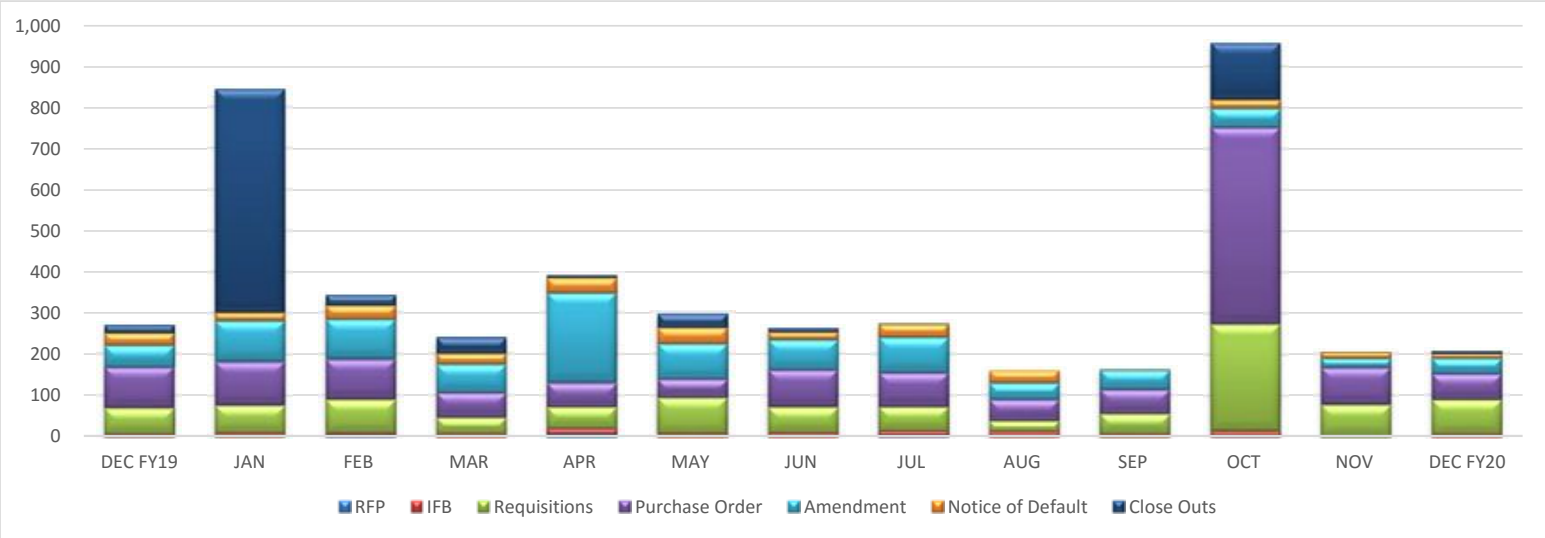
*Job Opportunities & Basic Skills (JOBS) Program, Guam Employment & Training Program (GETP), Senior Community Service Employment Program (SCSEP)

Guam Power Authority

Procurement Division

FY 2020 GPA Buyer's Monthly Report

as of 12/31/2019



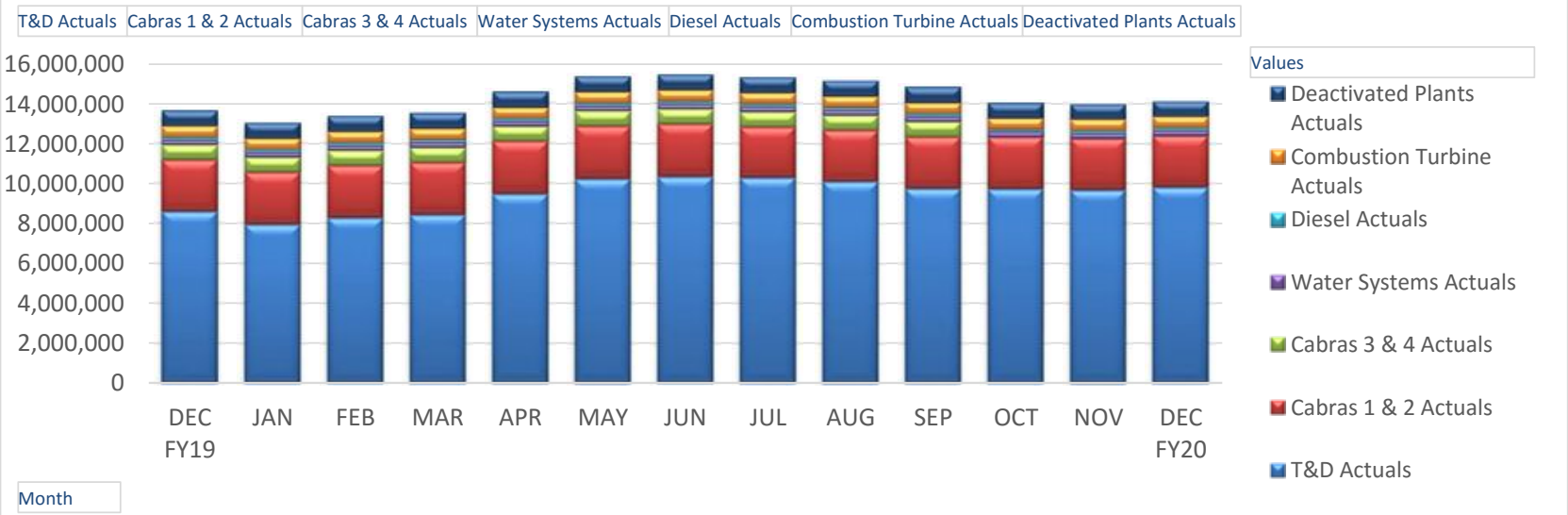
Month	RFP	IFB	Requisitions	Purchase Order	Amendment	Notice of Default	Close Outs
DEC FY19	1	5	63	99	52	30	19
JAN	1	8	67	106	99	20	543
FEB	3	6	81	97	96	34	25
MAR	0	7	40	59	68	26	39
APR	6	14	52	58	217	37	6
MAY	0	6	88	45	85	39	33
JUN	0	9	62	90	72	19	10
JUL	2	12	59	82	85	32	2
AUG	0	12	26	51	39	30	0
SEP	0	6	49	59	46	2	0
OCT	1	12	261	478	46	21	138
NOV	0	0	77	89	22	15	1
DEC FY20	0	6	83	62	37	11	7

Guam Power Authority

Procurement Division

FY 2020 GPA Inventory Actuals

as of 12/31/2019



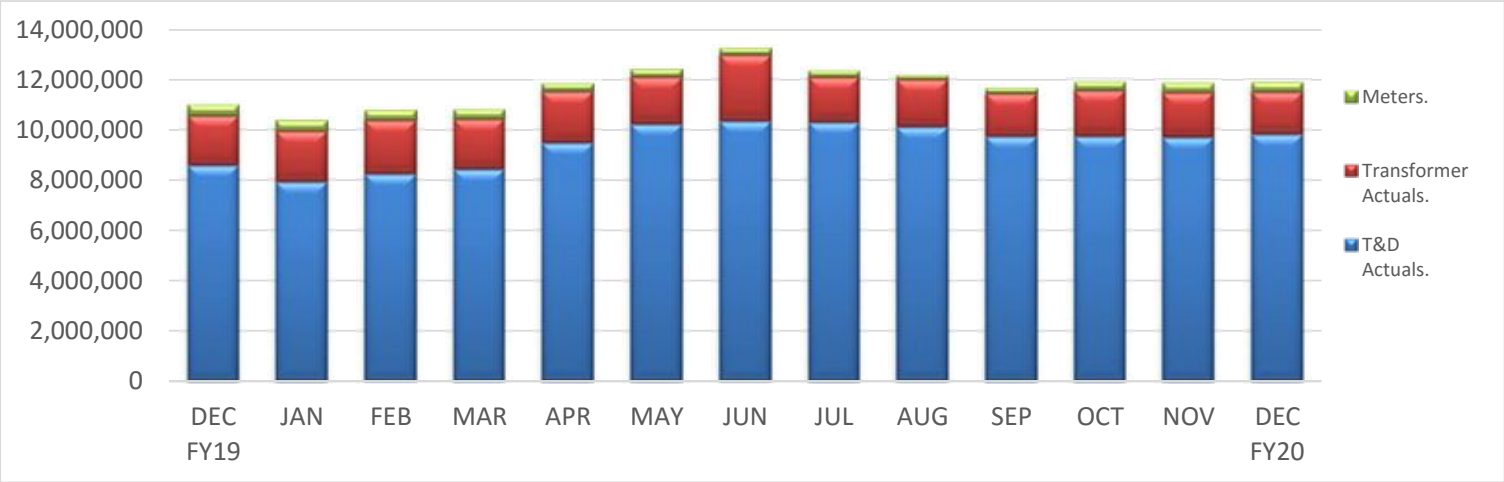
Month	T&D Actuals	Cabras 1 & 2 Actuals	Cabras 3 & 4 Actuals	Water Systems Actuals	Diesel Actuals	Combustion Turbine Actuals	Deactivated Plants Actuals
DEC FY19	8,581,316	2,582,779	747,186	221,514	144,680	575,635	790,114
JAN	7,923,172	2,614,746	747,186	223,659	144,680	575,635	790,114
FEB	8,260,305	2,615,482	747,186	224,309	144,680	575,635	790,114
MAR	8,435,835	2,613,717	747,674	232,164	144,680	574,489	788,968
APR	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
JUN	10,331,617	2,637,035	747,587	240,915	144,680	573,375	788,101
JUL	10,272,739	2,547,074	747,587	240,126	144,680	573,330	788,101
AUG	10,110,637	2,574,558	747,587	239,171	144,680	573,330	788,101
SEP	9,726,986	2,599,288	757,587	240,153	144,680	573,330	788,096
OCT	9,725,666	2,600,172	0	241,993	131,155	573,454	768,924
NOV	9,673,653	2,583,555	0	241,595	144,680	573,454	768,924
DEC FY20	9,816,091	2,589,773	0	239,124	144,680	573,454	768,924

Guam Power Authority

Procurement Division

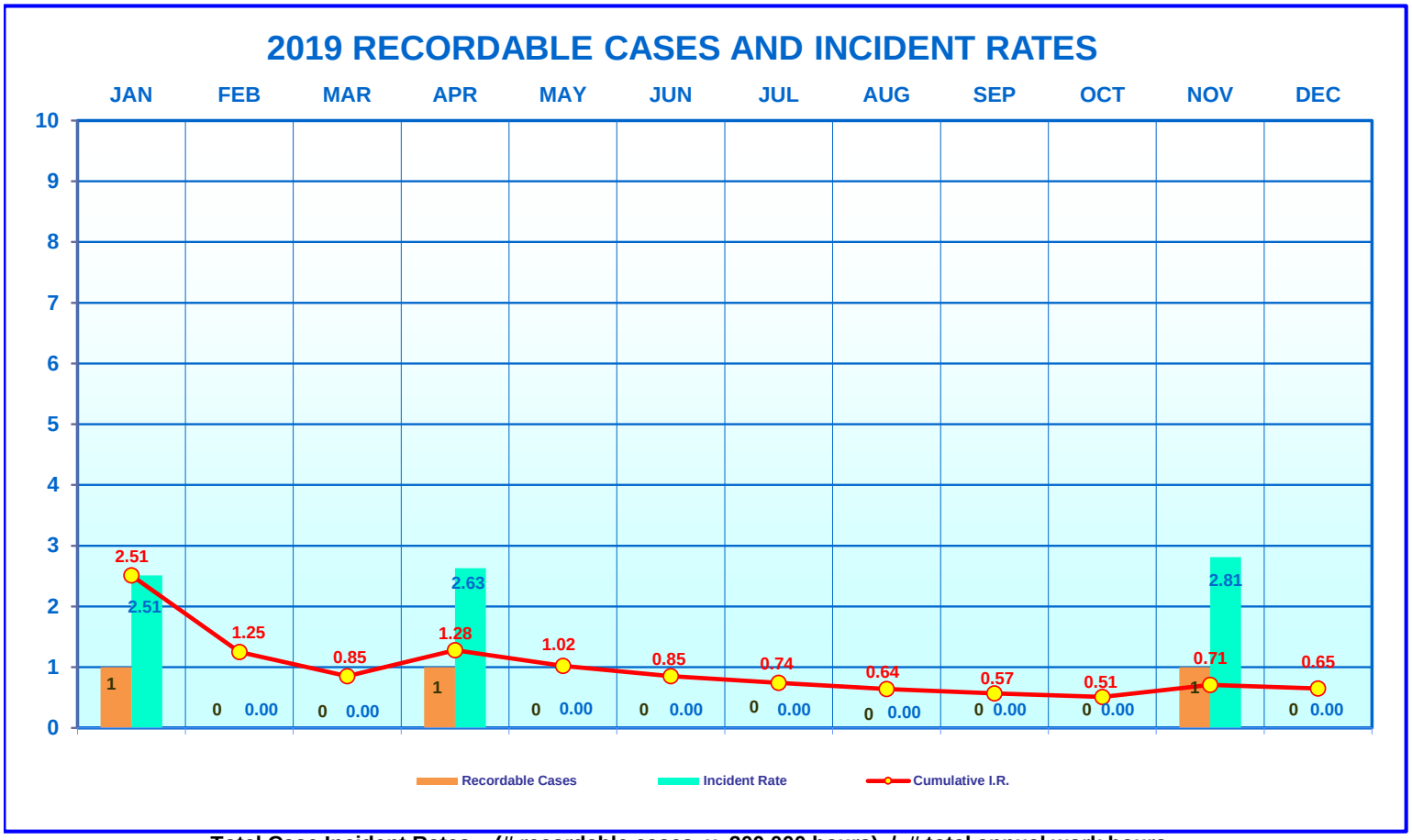
FY 2020 Transmission and Distribution (T&D) Inventory Actuals

as of 12/31/2019



FY 2020	T&D Actuals	Transformer Actuals	Meters
December FY19	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	1,715,305	214,728
October	9,725,666	1,835,760	358,344
November	9,673,653	1,773,932	409,344
December FY20	9,816,091	1,687,896	401,032

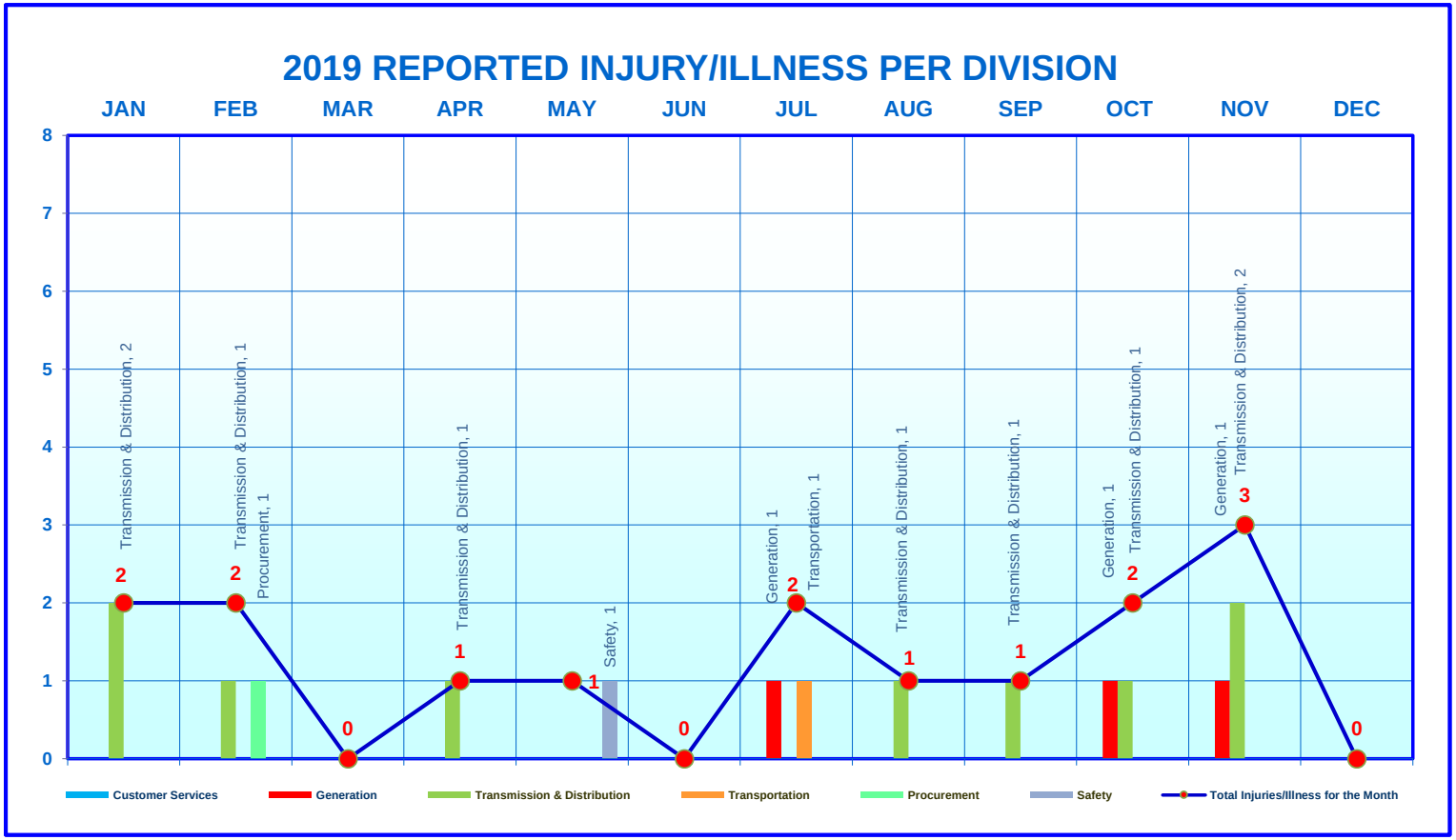
SAFETY DIVISION MONTHLY REPORT



Total Case Incident Rates = (# recordable cases x 200,000 hours) / # total annual work hours

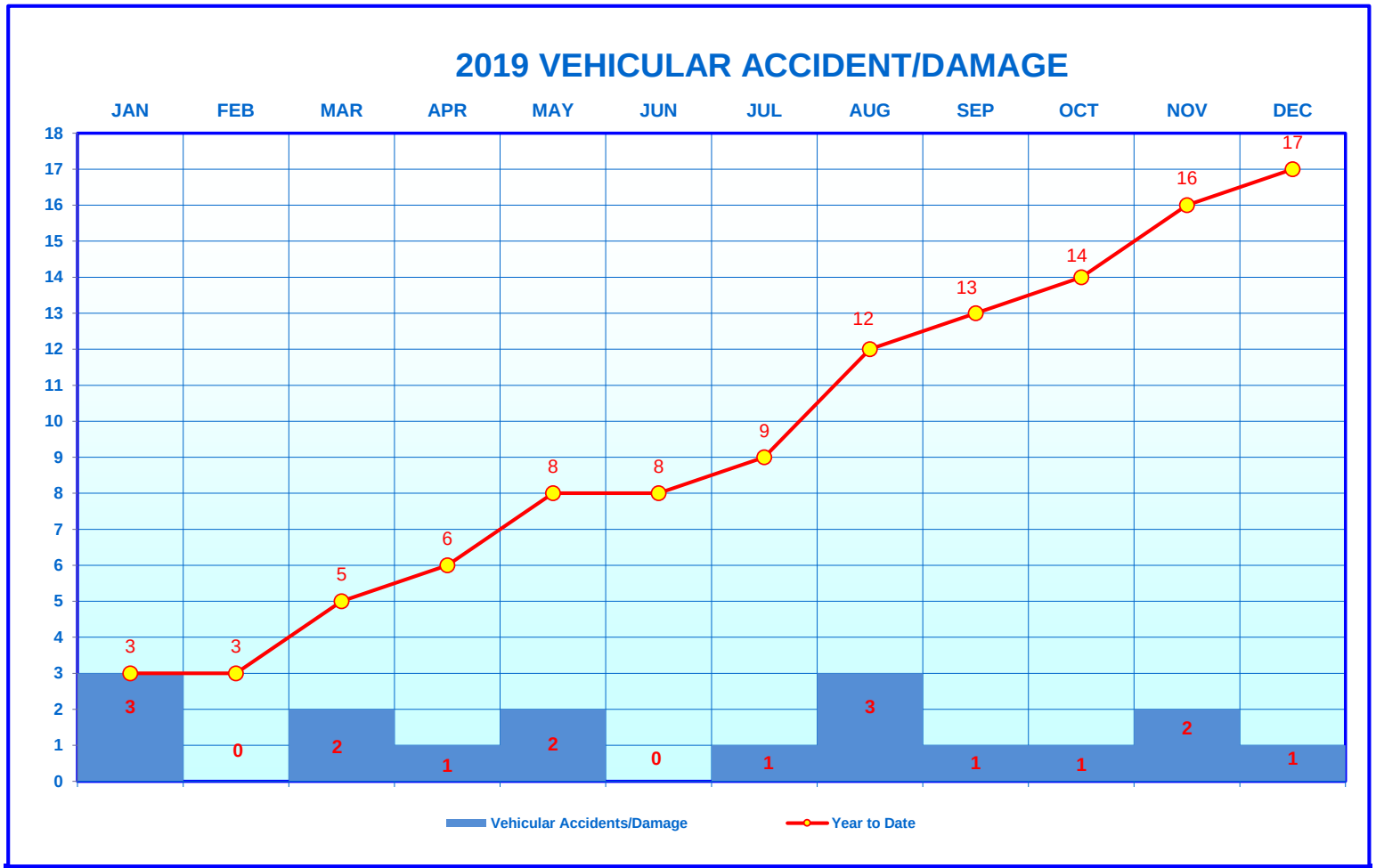
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Recordable Cases	1	0	0	1	0	0	0	0	0	0	1	0
Incident Rate	2.51	0.00	0.00	2.63	0.00	0.00	0.00	0.00	0.00	0.00	2.81	0.00
Cumulative I.R.	2.51	1.25	0.85	1.28	1.02	0.85	0.74	0.64	0.57	0.51	0.71	0.65

SAFETY DIVISION MONTHLY REPORT



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Customer Services												
Generation							1			1	1	
Transmission & Distribution	2	1		1				1	1	1	2	
Procurement		1										
Transportation							1					
Safety					1							
Total Injuries/Illness for the Month	2	2	0	1	1	0	2	1	1	2	3	0

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	2	1
Year to Date	3	3	5	6	8	8	9	12	13	14	16	17

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

PLANNING & REGULATORY DIVISION REPORT

The following summarizes P&R's activities for the month of December 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.
- 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
- Troubleshoot leak detection system in IPE Tanks

TENJO POWER PLANT CEMS

- Repairs to heated/sampling lines damaged by a fire in August have been completed

ENVIRONMENTAL RESPONSE

- Inspected pipeline repaired by RDE and remediation conducted on the spill at IPE Tank farm.

NEW POWER PLANT

- Had internal discussions on the progress of the new plant

NPDES Permit GU0020001

- Renewal of NPDES Permit GU0020001 for Cabras Power Plant was approved by US EPA. Final Permits sent to us via Email and USPS

PROCUREMENT

- GPA-RFP-19-002, for Consulting Services for Smart Grid Analytics – reviewed price proposal of most qualified bidder and submitted recommendation/request for demonstration
- GPA-009-20 Marbo Power Plant Contaminated Soil Removal and Disposal

  - Nominated candidates for Bid Evaluation Committee
  - Planned procurement for the Soil Remediation Project at Marbo SS. OR#33845. Bid Request forwarded to Procurement for process.
  -
- Planned procurement for the Used Oil Hauling for Piti Tanks. Bid Request forwarded to Procurement for process. OR# 33816
- Laboratory testing bid signed for PO processing

REPORTING

- Submitted Monthly NSPS report to Guam EPA

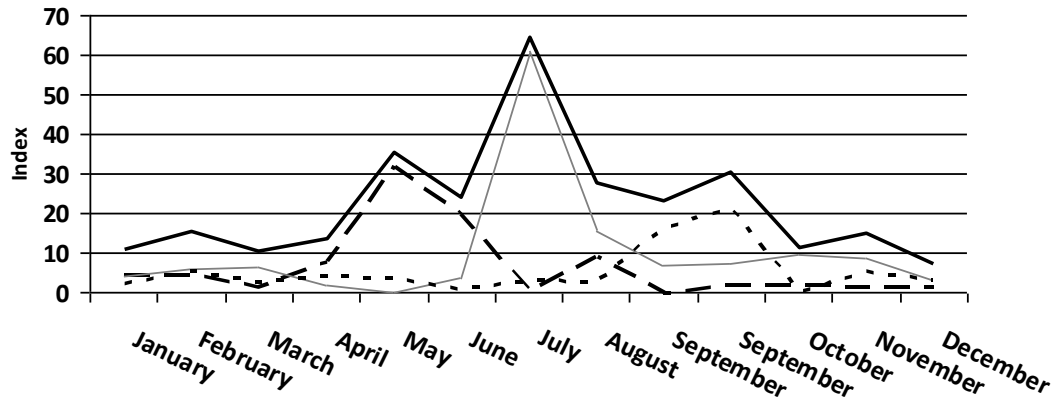
STATE IMPLEMENTATION PLAN (SIP)

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

OTHERS

- Aggreko Ownership Transfer Preparation (January 9, 2021)
  - Submitted request for Aggreko Permit changes to Guam EPA to transfer ownership and extend permit until New Plant is in operation
  - Made estimates for the GM regarding cost if we keep Aggreko as a PMC for the Facility
  - Performed Emission Calculations for Yigo CT and Aggreko to determine the number of Aggreko Units that can be kept on site once the ownership of Units are transferred to GPA
- Bulk Storage Tank Refurbishment Project – participated in meetings and gave input, comments
- Public Health Emergency Generator – performed emission calculations for permit application

(Item 1.1,1.2,1.5) December 2019 SAIDI = 289.97 ↑ (287.37)



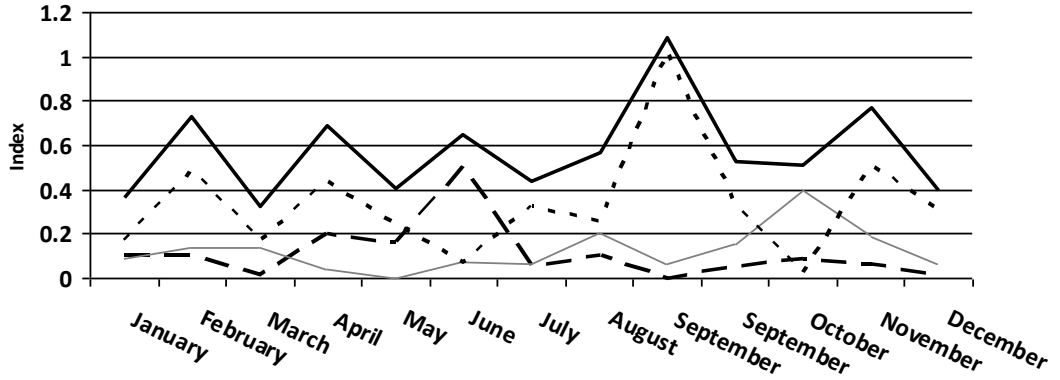
ALL

GEN=71.31 ↑ (68.66)

TRANS=85.05 ↓ (85.87)

DIST=133.60 ↑ (132.84)

(Item 1.1,1.2,1.5) December 2019 SAIFI = 7.45 ↑ (7.25)



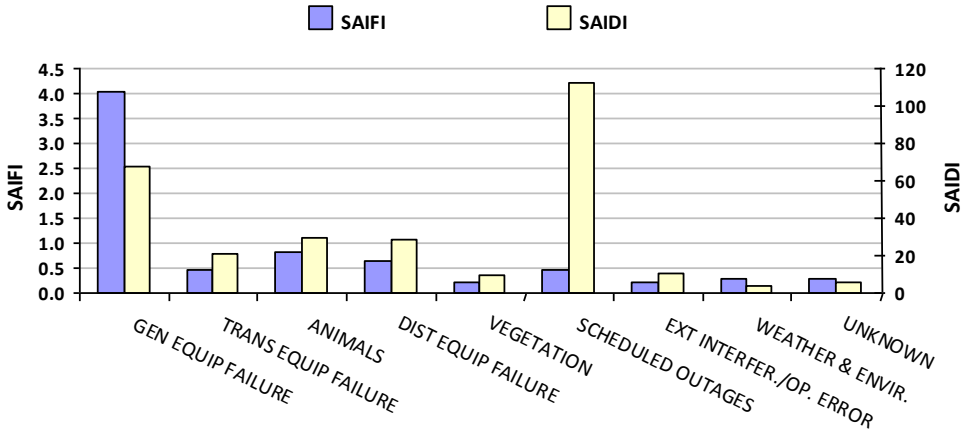
ALL

GEN=4.35 ↑ (4.10)

TRANS=1.50 ↓ (1.55)

DIST=1.60 ↑ (1.59)

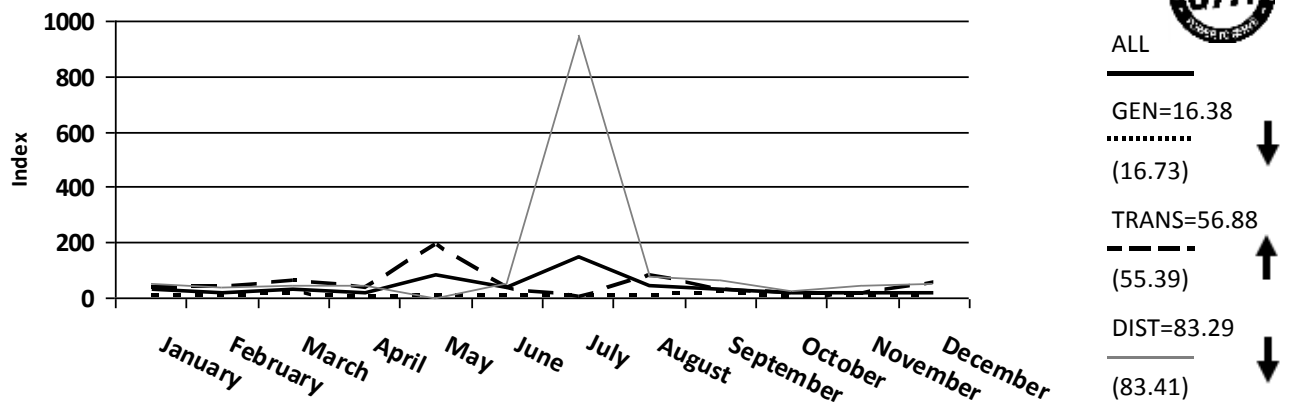
(Item 1.9) 12-Month Cause Contributions to Reliability



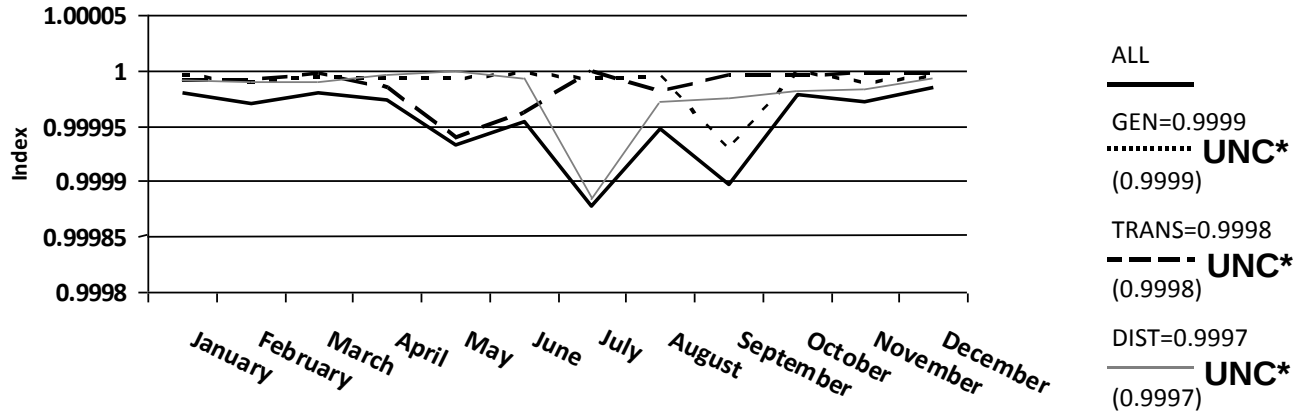
GEN EQUIP FAILURE
F:53.9% D:23.2%
TRANS EQUIP FAILURE
F:5.8% D:7.3%
ANIMALS
F:9.5% D:10.3%
DIST EQUIP FAILURE
F:9.0% D:9.9%
VEGETATION
F:3.2% D:3.4%
SCHEDULED OUTAGES
F:7.8% D:39.0%
EXT INTERFER./OP. ERROR
F:2.6% D:3.7%
WEATHER & ENVIR.
F:3.9% D:1.3%
UNKNOWN
F:4.3% D:1.9%

As of December 31, 2019

(Item 1.1,1.2,1.5) December 2019 CAIDI = 38.91 ↓ (39.66)



(Item 1.1,1.2,1.5) December 2019 ASAI = 0.9994 ↓ (0.9995)



(Item 1.4) Top 5 Worst Feeders Distribution Causes

#	Feeder	Outage Count
1	P261	14
2	P294	13
3	P340	9
4	P301	8
5	P280	7

(Item 1.4) Top 5 Distribution Outage Causes

#	Outage Cause	Count
1	Wind	38
2	Overhead Equipment	36
3	Vegetation	15
4	Substation Equipment	12
5	Snakes	9

(Item 1.3) Outage Count

TOTAL	UFLS	Non-UFLS
615	358	257

(Item 1.3) UFLS Contribution to Reliability

SAIDI	SAIFI	CAIDI
84.68	5.00	16.92

UNC* - Unchanged

As of December 31, 2019

ENGINEERING WORK ORDERS

Engineering Work Order Summary - December 2019	
Work Orders Received from CSR	66
Work Orders Processed & Released to T&D	112
Work Orders Processed & Released to CSR	14
Work Orders Cancelled	15
Work Orders Pending Survey	28
Total Pending WO at Engineering	282

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, 50% 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 62% Completed.
6/1/2017	New Underground Line (P-047)	466064	Tumon	1,500	1	New Undergound line 95% completed, Riser terminated. 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, 100% Completed, Released to T&D. 100 kVA
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, 100% completed, released to T&D, 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 90% 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), 95% Completed.
04/26/19	JohnDel International	469700-2,5, 6	Tamuning	225	5	New Office Building, 100% Completed, released to T&D, 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.
11/12/19	Guam National Tennis Federation Inc.	475183	Dededo	250	1	New Tennis Courts, Completed, released to T&D.
12/01/19	GTA Landing Site	Pending Application	Piti	2,000	1	New Landing station, 30% completed, 2000 kVA.
12/01/19	New Tiyan Cold Storage (Limtiaco)	Pending Application	Tiyan	2,000	1	New Cold Storage, 10% Completed, Temp Power installed, 2000kVA.
12/01/19	Irownwood Villa Del Mar Phase II	Pending Application	Toto	250	50	New 50 Unit Apartment complex, Pending Applications.
Varies	Pending Net Metering Customers	Varies	Various Locations Islandwide		1	Pending Net Metering Customers as of October 31, 2019.
			Total	**18,825**	**199**	

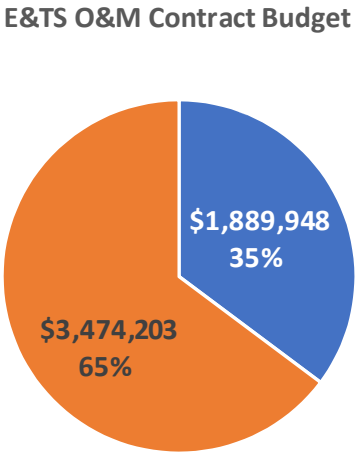
E&TS Divisional Report Summary

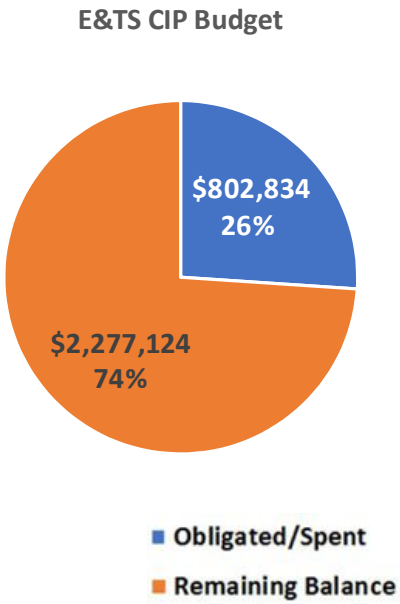
December 31, 2019

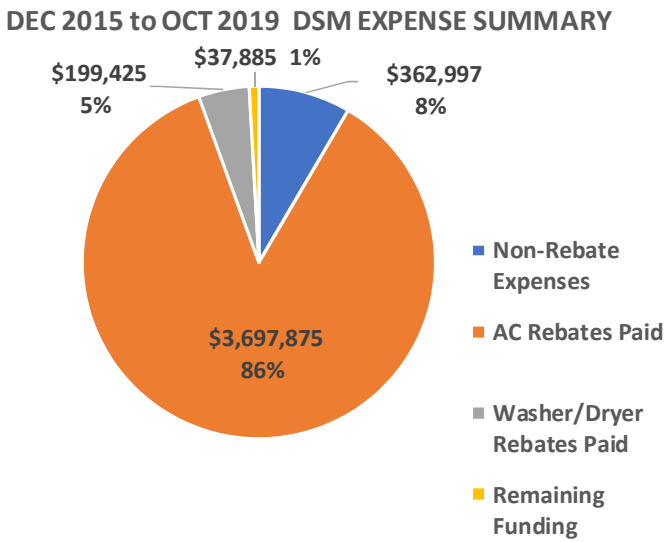
Contents

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

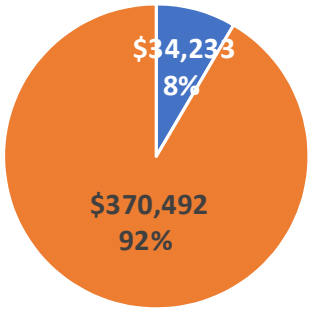
E&TS Budget Execution Performance



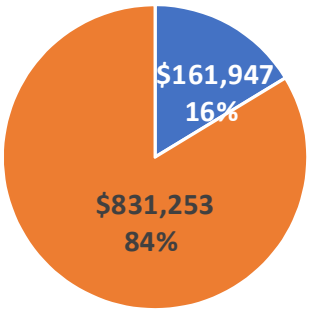




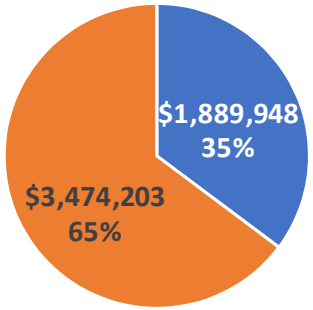
ENG O&M Contract Budget



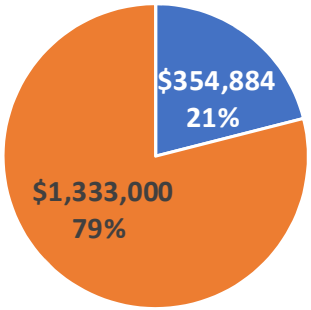
SPORD O&M Contract Budget



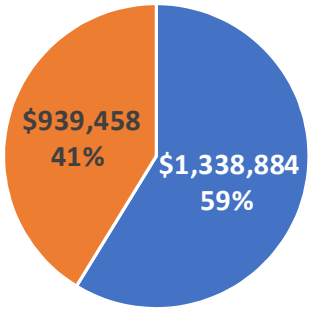
E&TS O&M Contract Budget



P&R O&M Contract Budget



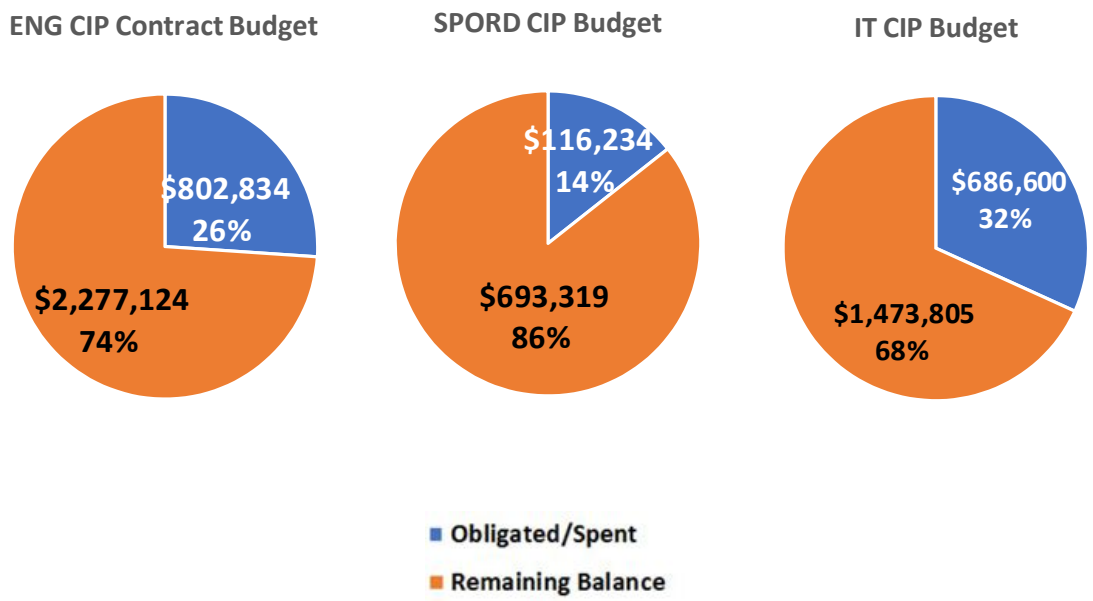
IT O&M Contract Budget



Obligated/Spent

Remaining Balance

4


ENG CIP Contract Budget
$802,834
26%
$2,277,124
74%
SPORD CIP Budget
$116,234
14%
$693,319
86%
IT CIP Budget
$686,600
32%
$1,473,805
68%
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					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 December 31, 2019

Inspection Type	Organization Responsibility	Violations Not Remediated	Number
Spill Prevention, Control, and Countermeasure (SPCC)	Generation	New Violation Notifications Issued	4
		Remediations Past Due	20
		Remediations Not Past Due	0
	T&D	New Violation Notifications Issued	2
		Remediations Past Due	0
		Remediations Not Past Due	0
Best Management Practices (BMPs)	Generation	New Violation Notifications Issued	0
		Remediations Past Due	4
		Remediations Not Past Due	0

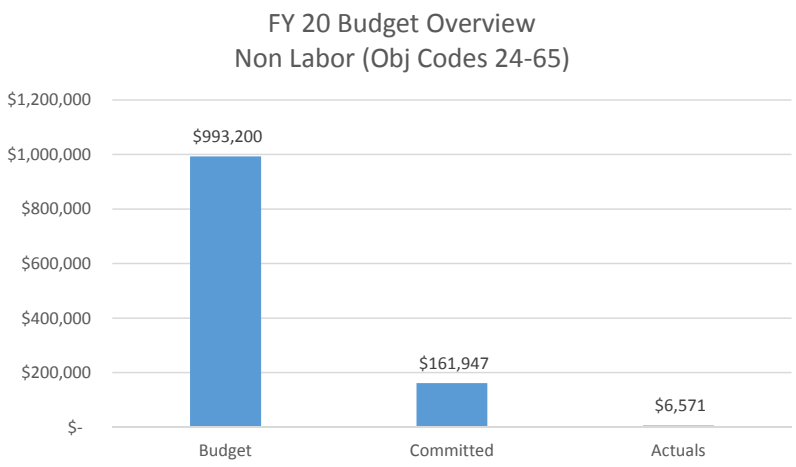
- SPCC rule purpose is to help facilities prevent oil discharges into navigable waters or adjoining shorelines
- BMP refers to a type of auxiliary pollution controls in the fields of industrial wastewater control and municipal sewage control, storm water management, and wetland management

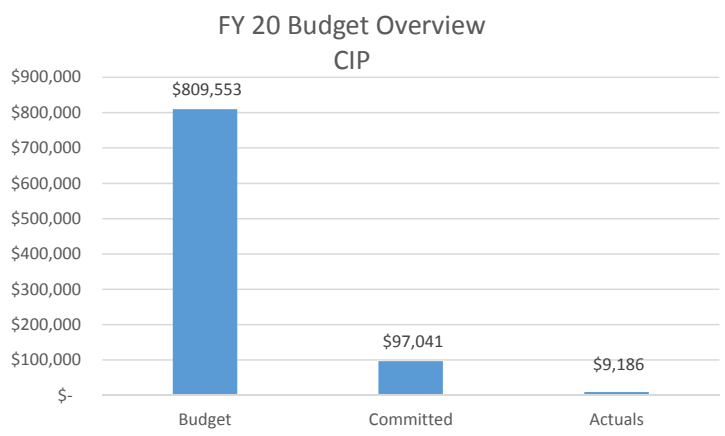
SPORD CCU Report

Update thru December 31, 2019

SPORD FY 2020 Budget Status

thru December 31, 2019





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

SPORD FY 2020 Budget Status

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

	Budgeted Amount	Committed Amount	Actuals	PO Balance
Aggreko Contract	$ 13,227,886	$ 13,227,886	$ 2,065,652	$ 11,162,235
Fuel Contracts	$ 270,418,228	$ 332,697,930	$ 84,677,520	$ 248,020,410
MEC IPP (Piti 8&9)	$ 18,446,737	$ 10,314,988	$ 3,203,615	$ 7,111,373
Glidepath Contract (Renewable)	$ 10,184,494	$ 10,184,494	$ 1,521,852	$ 8,662,642

SPORD FY 2020 Budget Status

Demand Side Management

Description	FY16	FY17	FY18	FY19	FY20 Thru December 31, 2019	Total to Date
Regular/OT Pay	$11,348.80	$22,256.00	$26,121.83	$50,715.19	$6,059.80	$116,501.62
Other Contractual	$28,278.50	$85,550.05	$116,977.50	$3,025.00	$0.00	$233,831.05
Ads & Radio Announcements	-	-	-	$7,500.00	$1,500.00	$9,000.00
Paid Rebates-Split AC	$154,700.00	$557,275.00	$1,349,825.00	$1,374,650.00	$237,925.00	$3,674,375.00
Paid Rebates-Central AC	$3,400.00	$8,200.00	$4,400.00	$6,500.00	$1,000.00	$23,500.00
Paid Rebates-Washer/Dryer	$2,800.00	$7,425.00	$57,200.00	$110,800.00	$21,200.00	$199,425.00
Total Expenses	$200,527.30	$680,706.05	$1,554,524.33	$1,553,190.19	$267,684.80	$4,256,632.67
Bank Interest (+)	$1,676.42	$1,722.74	$1,222.29	$730.05	$127.57	$5,479.07
Bank Fees	$155.00	$1,032.06	$1,085.08	$1,247.54	$145.00	$3,664.68

Budget Balance: $ 32,297.77

11

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
  - *December 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			Feb-20	TBD	Finalizing Contract
SPORD (RAC)	SCADA	DNP3 SA training			TBD	TBD	Price Negotiations Ongoing
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
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 (MAT)	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. Currently under OPA review.
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	9/20/2018	12/31/2019	Cancelled. Will consider re-solicitation after completion of Used Oil Task Force Report, to potentially include recommendations.
SPORD (ANF)	FUEL	Petroleum Testing Services for Residual Fuel Oil No. 6	MS Bid	GPA-013-20	12/24/2019	1/24/2020	

DEVELOPING PROCUREMENT

Responsible	PROJECT	Description	Bid or RFP	Projected Start	Projected Completion	Status
SPORD (MAT)	SPORD Software	Utility Resource Planning Software	RFP	Jan-20	Jun-20	RFP draft under review & pending apporoval.
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	MS Bid	Feb-20	Jun-20	Developing/revising specifications
SPORD (ANF)	FUEL	ULSD Testing Services	MS Bid	Feb-20	Jun-20	Developing/revising specifications
SPORD (ANF)	FUEL	Bulk RFO Supply	MS Bid	Feb-20	Jun-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)	Jan-20	Sep-20	Filed to PUC in Dec 2019, awaiting completion of review.
SPORD (MAT)	OPERATIONS	CT PMC	(TBD)	Mar-20	Dec-20	Commenced discussions with Generation re: extension vs. solicitation.

PROJECT ACTIVITIES – December 2019

No.	Project Description	December 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 95% completed.	Talofofo - Feb 2020, Agana - Feb 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)	Contract signed Nov 5, 2019. KEPCO-EWP preparing design and studies required for permitting. Archaeological support being provided by Stanley. Discussions ongoing with GWA regarding new outfall permit requirements and Change of Law issue.	Projected Award (2019 Q3) COD (2022 Q2)	MS GPA-034-18
4	DSM Rebate Program	Processed about **210** applications for rebates totaling ~ $**65**k	Continuous	
5	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 Sept 2020	GPA-019-18
6	Electric Grid Analysis Software	Training on Planning and Analysis Cases	Jan-20	GPA-064-16
7	GDOE BEST Schools	**Pilot Project: Carbullido Elementary School & Lighting Grant Project:** **-** Carbullido retrofit activities 100% complete - Pending final report evaluating project performance **Southern High and George Washington High** - retrofit activities 100% complete as of end of July - Audit check walk-throughs for Southern HS 100% complete,for George Washington HS 100% complete. -Pending final report evaluating project performance (M&V)	**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	December 2019 Activities	Status / Est. Completion	RFP/Bid No
8	Supervisory Control and Data Acquisition (SCADA) System	Project Substantially completed (Punchlist items completed by Dec 2019 pending OMS integration)	Feb 2019	GPA-066-16
9	Mobile Workforce Management System	Design completed October 2019 Server Software Installation Ongoing Dec 2019	Mar-20	GPA-RFP-18-013
10	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
11	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	(N/A)
12	Cabars 1&2 PMC Solicitation	Contract Extension expires 9/30/2020. Bid documents completed, under review & pending approval from PUC.	IN PROGRESS	(N/A)
13	EV Infrastructure	Fast charge station scope for Mangilao offices. Developing fast charge station scope for Mangilao offices.	6/1/2020	
14	Renewable Energy Resource Phase III	Notice of Award sent to most qualified bidder w/ lowest cost. Undergoing Protest Period, currently filed with the OPA. Scheduling hearing set for early Jan 2020.	TBD	GPA-007-18
15	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	
16	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
17	GPA Fuel Farm RFO Pipeline Repair & Upgrade	c/o Engineering Project Mgt. Repairs completed. For integrity testing	Project Implementation in progress. Estimated completion: Jan 2020	IFB GPA-047-18
18	GPA Fuel Farm ULSD Pipeline Upgrade	c/o Engineering Project Mgt. Contractor mobilization in progress	Project Timeline: Estimated Start: Jan 2020 Est. Completion: Dec 2020	IFB GPA-027-19

No.	Project Description	December 2019 Activities	Status / Est. Completion	RFP/Bid No
19	Tk 1934 & Tk1935 API 653 Internal Inspection	c/o Engineering Project Mgt. Contractor Mobilization in progress	Project Timeline: Estimated Start: Jan 2020 Est. Completion: Dec 2022	IFB GPA-028-19
20	Milsoft Systems Software Services	Engineering Analysis Training -January 2020	Continuous	GPA-RFP-18-003
21	MV90 Integration Services	Contract Negotiations		GPA-RFP-18-001
22	Grant Support	Continued grant development and execution. 1. Initiating activities for execution of 2019 DOI Grant for Maria Ulloa and Agueda Johnston schools Lighting Retrofit with Siemens (UESC Partner) - Coordinating kickoff with GDOE - Federal Consistency Review 2. Followup with Guam Energy Office EnergySmart School Grant finalizing scope and MOU	1) NTP ~ March 2020 Construction ~ June/July 2020 2) GEO MOA Finalize: Sept '19 Grant Scope Completion: Dec. '20	
23	Redesignation of Cabras-Piti / Guam	Re-designation received 12/2018. SIP Draft sent to Guam EPA week of 10/21/2019. SIP draft under USEPA Region IX and Guam EPA review. Consultant (TRC) standing by to assist.	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
24	GPA Fuel Farm- OWS Upgrading	c/o Engineering Project Mgt. Scope included in Tk 1934 & Tk1935 API 653 Internal Inspection and repair.	Project Timeline: Estimated Start: Jan 2020 Est. Completion: Dec 2020	IFB GPA-028-19
25	GPA Fuel Farm- LD System Upgrading	c/o Engineering Project Mgt. Scope included in Tk 1934 & Tk1935 API 653 Internal Inspection and repair.	Project Timeline: Estimated Start: Jan 2020 Est. Completion: Dec 2022	IFB GPA-028-19
26	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	CANCELLED.	MS GPA-118-18

No.	Project Description	December 2019 Activities	Status / Est. Completion	RFP/Bid No
27	Integrated Resource Plan	Consultant commenced work on updated figures and data for potential resource options.	Jun. 2020	GPA-RFP-17-002
28	Energy Storage Development Support	Consultant preparing proposal for third-party commissioning services	Feb. 2020	GPA-RFP-13-007
29	Wind Turbine Maintenance Supervision and Materials	Consultant to supervise turbine repairs & replacement parts. SPORD has turned over this activity to Generation. Will support as necessary.	Estimated Start: TBD Est. Completion: TBD	Sole Source
30	Planning Software Contract	Procurement of Planning Software, including installation, design, implemenation, training and consulting services. No bids received. Finalizing solicitation documents.	TBD	TBD
31	Strategic Planning	No new activities this period	Estimated Start: TBD Est. Completion: TBD	
32	Power System Analyses and Studies	S&C selected as most qualified proponent. Pending contract finalization.	Estimated Start: Nov 2019 Est. Completion: TBD	
33	CT PMC Solicitation.	Contract expires February 28, 2021. Commenced discussions with Generation.	Estimated Start: Mar 2020 Est. Completion: Dec 2020	TBD

CCU Report- DSM

As of December 31, 2019

All Expenses – Fiscal Year

Description	FY16	FY17	FY18	FY19	FY20 Thru December 31, 2019	Total to Date
Regular/OT Pay	$11,348.80	$22,256.00	$26,121.83	$50,715.19	$6,059.80	$116,501.62
Other Contractual	$28,278.50	$85,550.05	$116,977.50	$3,025.00	$0.00	$233,831.05
Ads & Radio Announcements	-	-	-	$7,500.00	$1,500.00	$9,000.00
Paid Rebates–Split AC	$154,700.00	$557,275.00	$1,349,825.00	$1,374,650.00	$237,925.00	$3,674,375.00
Paid Rebates–Central AC	$3,400.00	$8,200.00	$4,400.00	$6,500.00	$1,000.00	$23,500.00
Paid Rebates–Washer/Dryer	$2,800.00	$7,425.00	$57,200.00	$110,800.00	$21,200.00	$199,425.00
Total Expenses	**$200,527.30**	**$680,706.05**	**$1,554,524.33**	**$1,553,190.19**	**$267,684.80**	**$4,256,632.67**
Bank Interest (+)	$1,676.42	$1,722.74	$1,222.29	$730.05	$127.57	$5,479.07
Bank Fees	$155.00	$1,032.06	$1,085.08	$1,247.54	$145.00	$3,664.68

DSM Funding

No.	Description	Amount
1	Initial DSM Budget FY 2016	$1,806,014.00
2	Interest Income as of December 31, 2019	$5,479.07
3	Bank Fees as of December 31, 2019	$3,664.68
4	Additional Budget: ▪ Bond Refinance 2017 ▪ Revenue Funds FY2019 (Actual) ▪ Revenue Funds FY2020	 $1,139,189.00 $1,047,500.00 $300,000.00
5	Total Expense as of December 31, 2019	**$4,256,632.67**
	DSM Ending Balance	**$37,884.72**

ss.

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

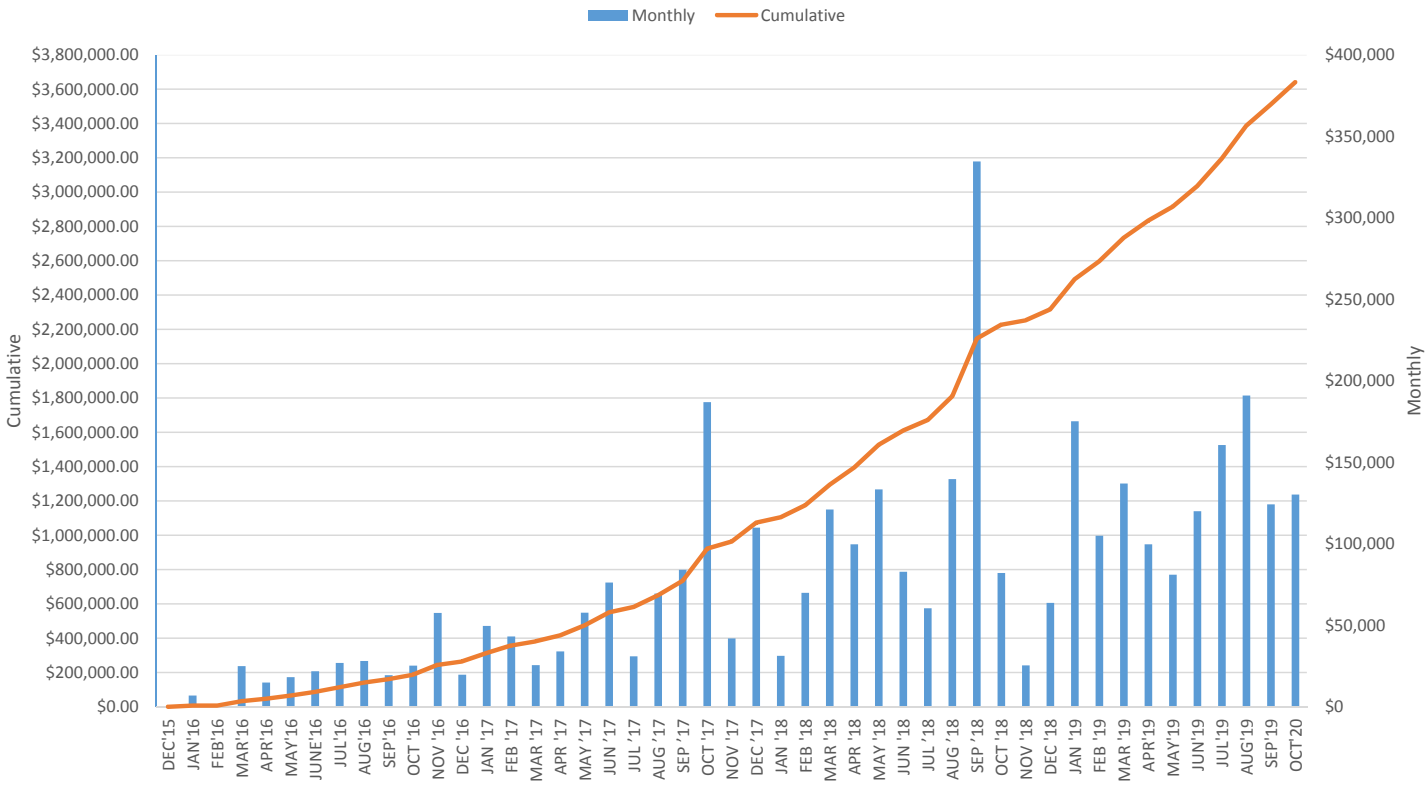
Month	Total	Split A/C Units	Central A/C Units	Washers/ Dryers
OCT '18	$ 82,000.00	$ 75,400.00	$ –	$ 6,600.00
NOV '18	$ 25,425.00	$ 23,425.00	$ –	$ 2,000.00
DEC '18	$ 63,925.00	$ 62,525.00	$ –	$ 1,400.00
JAN '19	$ 175,150.00	$ 158,150.00	$ –	$ 17,000.00
FEB '19	$ 104,925.00	$ 96,125.00	$ –	$ 8,800.00
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	$ 1,255,475.00	$ 1,156,475.00	$ 6,000.00	$ 93,000.00

** FY18 Finance Adjustment*

FY 2020- Rebate Amount Paid Monthly

Month	Total	Split A/C Units	Central A/C Units	Washers/ Dryers
OCT '19	$131,300.00	$120,000.00	$500.00	$10,800.00
NOV '19	$14,050.00	$13,650.00	$0.00	$400.00
DEC '19	$114,775.00	$104,275.00	$500.00	$10,000.00
JAN '20	–	–	–	–
FEB '20	–	–	–	–
MAR '20	–	–	–	–
APR '20	–	–	–	–
MAY '20	–	–	–	–
JUN '20	–	–	–	–
JUL '20	–	–	–	–
AUG '20	–	–	–	–
SEP '20	–	–	–	–
TOTALS	$260,125.00	$237,925.00	$1,000.00	$21,200.00

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

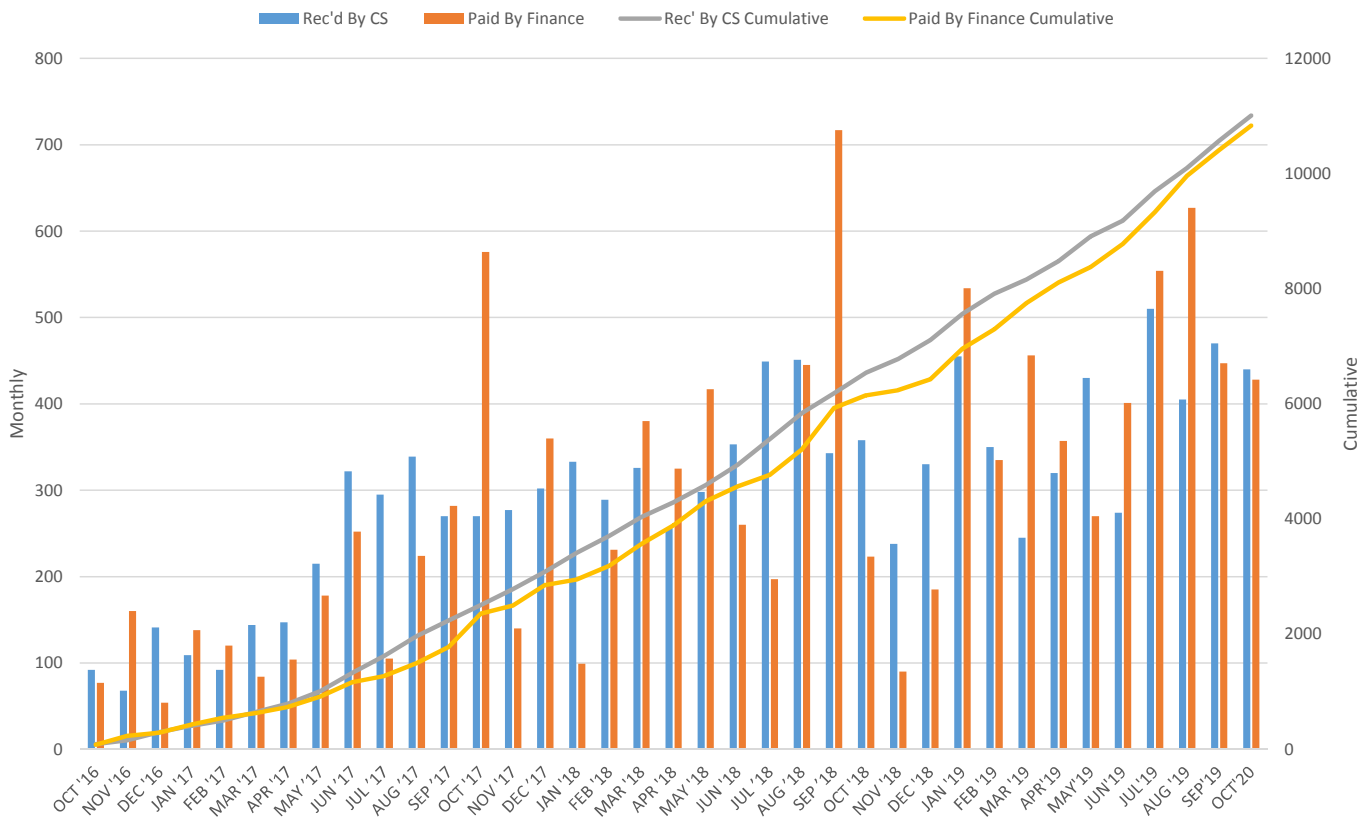
FY 2019 Number of Applications Received By Customer Service and Paid Monthly

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	458	51
DEC '19	318	
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

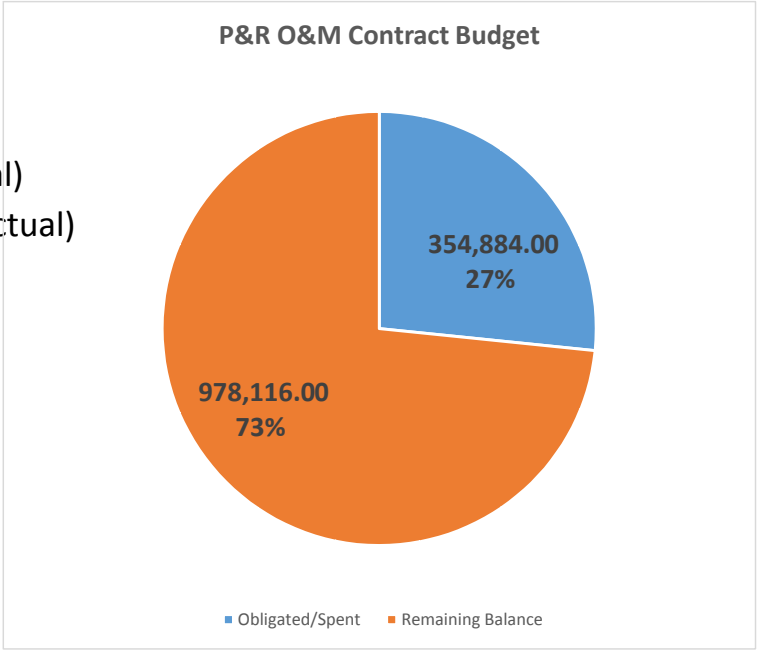


Planning & Regulatory CCU Report

December 31, 2019

Planning & Regulatory O&M Contract Budget

- Revenue Funded
- Target
  - 0.10% O&M Obligation as of October 31, 2019 (Actual)
  - 26.62% O&M Obligation as of December 31, 2019 (Actual)
  - 45% O&M Obligated by March 31, 2020



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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 DECEMBER 2019

LEGEND OF TRACKING

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

INSPECTOR: LORINA SABANGAN/WILLIAM MAFNAS

LOCATION	WE 12/06/19 FINDINGS	WE 12/13/19 FINDINGS	WE 12/20/19 FINDINGS	WE 12/27/19 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 inside drums with waste pads	Rainwater inside drums with waste pads	Remove algae and water and dispose waste pads	10/4/2019	ASAP		
Chemical Storage Area (Cabras 1, 2, 3, & 4)			Water mixed with chemicals in the trench/pit	Water mixed with chemicals in the trench/pit	Conduct cleanup	12/20/2019	ASAP		
Switchyard			Bin full of disposed metals and various items. Full capacity reached.	Corrective action completed (metals removed)	Dispose metals and other disposables	12/20/2019	ASAP		
Stormwater Drainage System (Cabras 1, 2, 3, & 4)			Grass and debris found on top of storm drain covers	Grass and debris found on top of storm drain covers	Remove grass and debris	12/20/2019	ASAP		
Cabras 3 & 4 Grounds/ Facility			Oil found on floor of Cabras 3&4	Oil found on floor of Cabras 3&5	Conduct cleanup	12/20/2019	ASAP		

T&D SPCC Inspection Report

SUMMARY OF SPCC MONTHLY INSPECTION REPORT
MONTH OF DECEMBER, 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	*Transformer Storage Area*	Scrap metal at transformer storage area	Schedule disposal/salvage of scrap metal				ASAP	December 2019
MACHECHE SUBSTATION	*Secondary Containment*	NO CORRECTIVE ACTION						
TALOFOFO SUBSTATION	*Secondary Containment*	Water accumulation	Drain water	Corrective action completed		December 2019	ASAP	November 2019
		Oil sheen	Remove oil sheen prior to draining	Corrective action completed		December 2019	ASAP	October 2019
		Water & algae accumulation in bottom drain valve	Drain water and remove algae				ASAP	December 2019
TENJO SUBSTATION	*Secondary Containment*	Algae accumulation	Conduct cleanup	Corrective action completed		December 2019	ASAP	September 2019
	Facility Area	Overgrown grass	Cut the grass	Corrective action completed		December 2019	ASAP	October 2019
YIGO SUBSTATION	*Secondary Containment*	NO CORRECTIVE ACTION						

Generation SPCC Inspection Report

SUMMARY OF SPCC MONTHLY INSPECTION REPORT
MONTH OF DECEMBER, 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 No. 2*	Leak on filter drain valve	Verify/repair drain valve				ASAP	November 2019
		Corroded braces, bolts and nuts	Replace braces, bolts and nuts				ASAP	November 2019
	Refilling Valve	Rainwater, algae and dirt in sec. containment	Drain and remove algae and dirt				ASAP	November 2019
	Used Oil Tank	Corroded stairs and railings	Repair/replace stairs and railings				ASAP	November 2019
	PSST Tank	Algae and oil leak in sec. containment	Remove algae, conduct cleanup, verify/repair lines				ASAP	October 2019
	Supply line 8" from the tank farm	No secondary containment	Regular monitoring is requred				ASAP	September 2019
		Pieces of corroded metals underneath the supply line	Remove corroded metals and avoid disposing it in water/outfall				ASAP	November 2019
	HS, LS and Ignition Oil Tanks	Rainwater accumlation in sec. containment	Remove rainwater	Corrective action completed		December 2019	ASAP	August 2019
	Cylinder and Lube Oil Storage Tanks	Corroded lines	Repair				ASAP	November 2019
	Used Oil Facility	Containment filled with oil and used pads and rags	Conduct cleanup				ASAP	December 2019
DEDEDO CT	*Raw Fuel Tank*	Heavily corroded 2" fuel line	Conduct repair				ASAP	May 2019

Generation SPCC Inspection Report (cont.)

SUMMARY OF SPCC MONTHLY INSPECTION REPORT
MONTH OF DECEMBER, 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
MACHECHE CT	Fuel Storage Tank 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
		Algae buildup at Tank 130 & 140 sec. containmnet	Remove algae				ASAP	November 2019
		Oil on deck at purifier area	Identify source of oil leak, rectify				ASAP	November 2019
YIGO CT	Tanks 130 and 140	Corroded tank shells	Chip corrosion & recoat tanks				ASAP	February 2019
	Tank 120	Corroded drain line pipe	Chip corrosion and recoat				ASAP	April 2019
	Drums Storage Area	Corroded oil drums stored in drum storage area	Continue to remove corroded drums and monitor oil used in remaining drums	Corrective action completed		December 2019	ASAP	March 2019
	Fuel Filtration Area	Oil present inside fuel filtration area	Locate source of leak and rectify				ASAP	December 2019
	Secondary Containment	Water inside OWS	Drain water	Corrective action completed		December 2019	ASAP	August 2019
MANENGGON DIESEL	Pipeline	Corroded fuel supply pipeline	Chip corrosion & recoat				ASAP	July 2019
	Tank No. 2	Corroded tank shell	Chip corrosion & recoat				ASAP	November 2019
	Secondary Containment	Water accumulation	Drain water	Corrective action completed		December 2019	ASAP	November 2019
	Secondary Containment	Vegetation growing through cracks	Remove vegetation and seal cracks				ASAP	December 2019
TALOFOFO DIESEL	Facility Area	NO CORRECTIVE ACTION						

Generation SPCC Inspection Report (cont.)

SUMMARY OF SPCC MONTHLY INSPECTION REPORT
MONTH OF DECEMBER, 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
TENJO DIESEL	Tank No. 2	Corroded supply pipe	Chip corrosion & recoat				ASAP	July 2019
	Tank No. 2	Corroded tank shell	Chip corrosion & recoat	Corrective action completed		December 2019	ASAP	November 2019
	OWS Sec. Containment	Oil spill in sec. containment	Conduct cleanup	Corrective action completed		December 2019	ASAP	November 2019
	Tank No. 1	Tank support corroded	Chip corrosion and recoat				ASAP	December 2019
PITI #7 POWER PLANT	Main Fuel Tank	No integrity testing	Integrity testing is required				ASAP	January 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

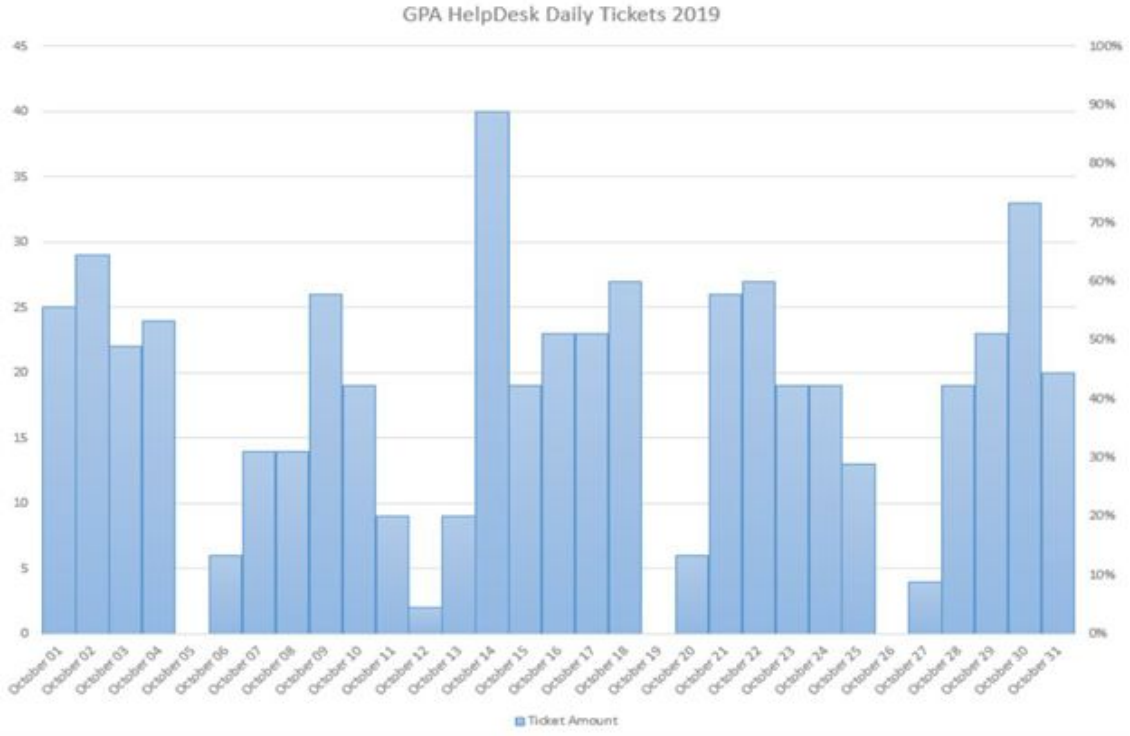
SUMMARY:

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).

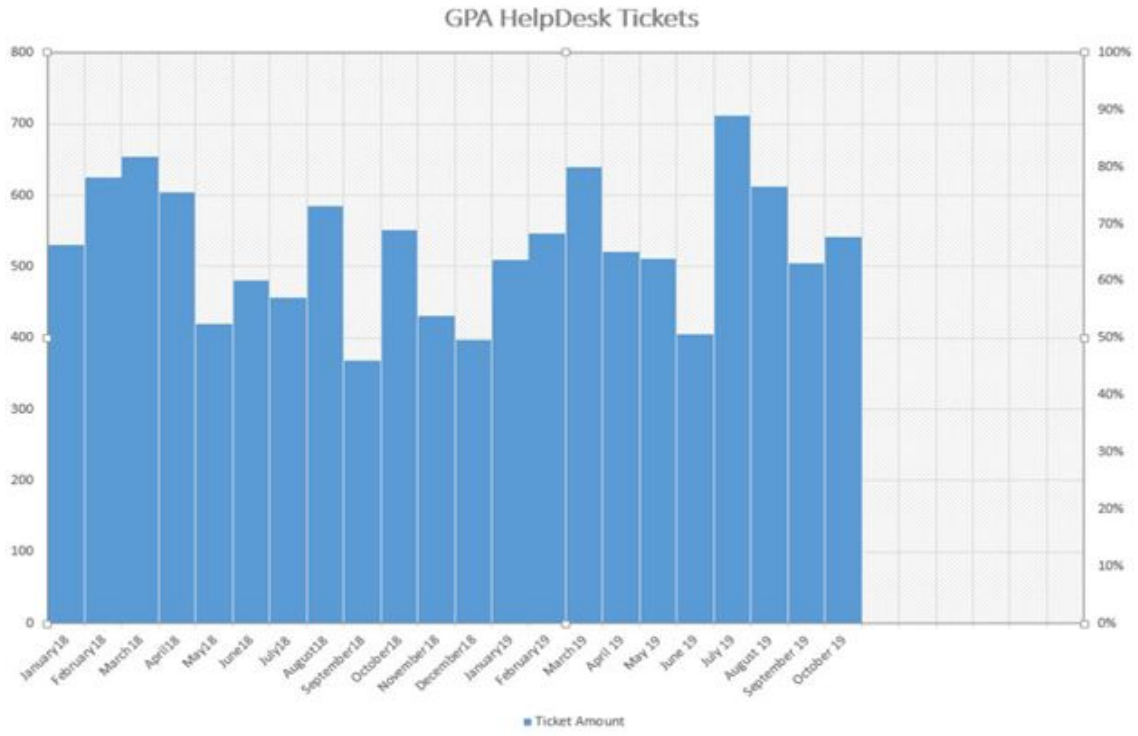
INCIDENT CALL SUMMARY:

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

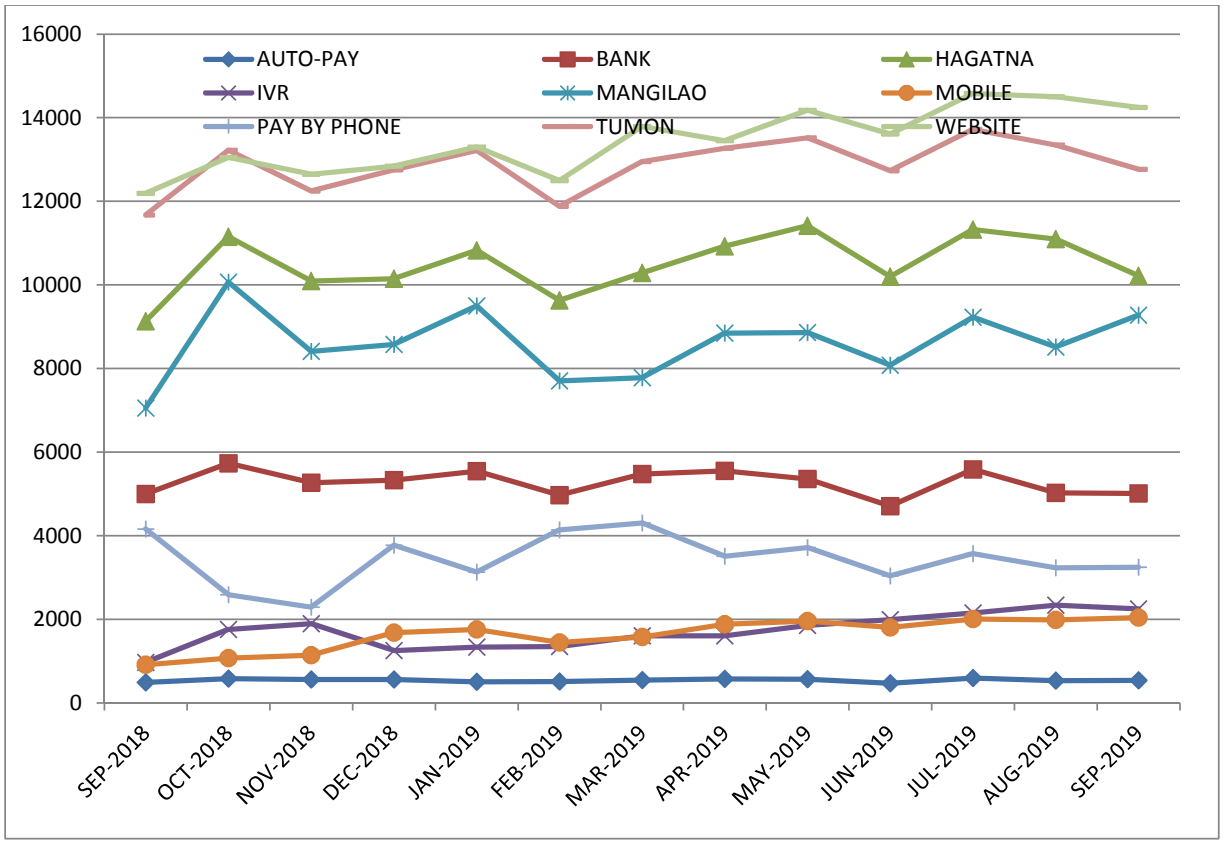
Phone	E-mail	Internal	Walk-In	Self Service Portal	Radio	Total
326	59	113	7	6	0	511

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

NET METERING
December 2019

	Quantity	Connected kVA
Completed	2,068	23,702
Pending	1	7
Grand Total	2,069	23,709

Rate Class and Technology

Technology	Schedule	Customer Count	Total kW
Solar Energy	R - Residential	1,948	18,390.34
	J - Gen Service Dmd	47	2,741.92
	K - Small Gov Dmd	9	317.80
	L - Large Government	2	122.80
	P - Large Power	7	640.70
	G - Gen Serv Non-Dmd	46	1,405.76
	S - Sm Gov Non-Dmd	7	78.80
Wind Turbine	R - Residential	2	3.60
Grand Total		**2,068**	**23,701.72**

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	18,393.94	29,216,358	0.087492	$ 2,556,198.47
J	2,741.92	3,393,617	0.125682	$ 426,516.66
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	**23,701.72**	**36,806,287**		**$ 3,546,649.04**

*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
December 2019

Customer Count and Connected kW by Feeder

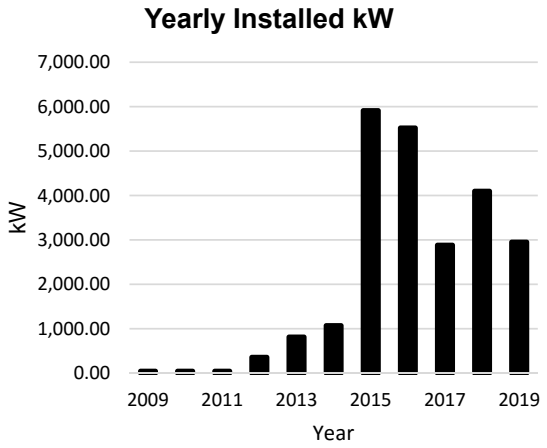
Status	Feeder	Net Metering Connected kW	Customer Count	% of Feeder Maximum kW	% of Feeder Minimum Daytime kW
Completed	P-005	302.73	27	17.5%	35.2%
	P-046	290.29	35	6.8%	10.4%
	P-088	724.72	77	12.0%	19.1%
	P-089	627.97	77	14.0%	33.8%
	P-111	190.00	3	3.5%	6.2%
	P-203	516.68	41	6.9%	19.6%
	P-204	150.38	17	3.2%	6.6%
	P-205	44.00	5	0.9%	1.6%
	P-210	612.14	58	12.0%	16.2%
	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	1,348.06	125	20.7%	36.4%
	P-251	145.50	7	5.9%	9.0%
	P-253	605.03	61	13.5%	21.2%
	P-262	1,144.89	115	30.1%	72.1%
	P-270	482.77	41	9.5%	19.1%
	P-271	312.83	17	5.3%	11.3%
	P-272	280.91	20	11.0%	24.9%
	P-280	371.54	30	20.7%	38.4%
	P-281	204.90	5	7.3%	20.4%
	P-282	31.75	4	0.8%	2.6%
	P-283	666.95	59	18.4%	31.6%
	P-294	1,295.43	122	29.9%	59.3%
	P-301	233.76	24	16.5%	29.4%
	P-311	1,098.11	63	27.5%	47.1%
	P-322	2,108.43	118	27.8%	55.2%
	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	671.74	71	11.9%	17.4%
	P-340	549.58	49	30.3%	66.7%
	P-087	1,473.69	148	37.5%	58.8%
	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	115.86	10	3.3%	5.8%
	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		**23,701.72**	**2,068**		
pending	Pending	7.31	1	0.0%	0.0%
pending Total		**7.31**	**1**	**0.0%**	**0.0%**
Grand Total		**23,709.03**	**2,069**		

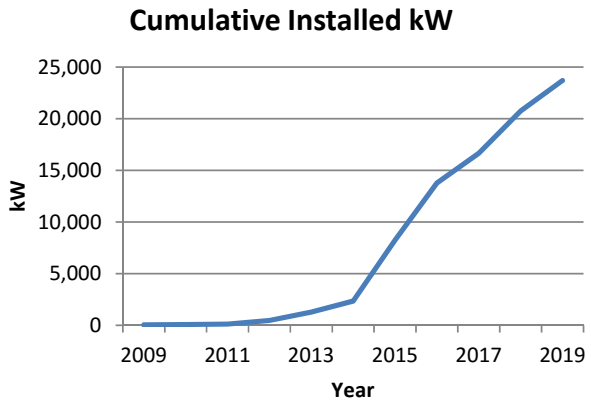
	Feeders highlighted in red indicates renewable energy capacity has exceeded 25% of feeder maximum load.
	Feeders highlighted in yellow indicates renewable energy capacity has reached 75% of minimum daytime load.

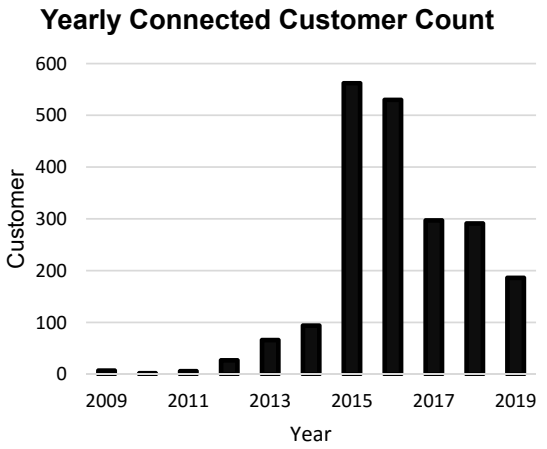
NET METERING
December 2019

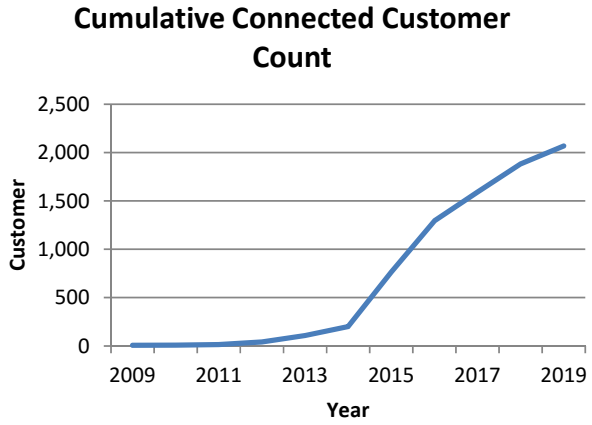
Installed kW by Year		
Year	Total	Cumulative
2009	39.46	39.46
2010	39.20	78.66
2011	41.61	120.27
2012	354.61	474.88
2013	808.15	1,283.03
2014	1,066.04	2,349.07
2015	5,908.91	8,257.98
2016	5,518.63	13,776.60
2017	2,880.40	16,657.00
2018	4,095.63	20,752.63
2019	2,949.09	23,701.72
Grand Total	23,701.72	

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	562	764
2016	530	1,294
2017	297	1,591
2018	291	1,882
2019	186	2,068
Grand Total	2,068	









Production Data
31-Dec-20

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
	Nov	30	144,772,854	10,312,356	245,532	14.04	$ 0.1437	9,631.16	12,353.82	201	245
	Dec	31	143,448,641	9,483,024	225,786	15.13	$ 0.0993	9,649.19	11,794.69	193	236

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	16,480	9,561	381%
P322	7,265	680	4,800	75%
P330	2,635	120	12,599	483%
P087	4,245	4,650		110%
P046	1,245	230		
P321	4,045	250		
P088	3,310	520		
P089	670	430		64%
P331	1,925	240		12%
P323	2,810			
P271	50	1,405		2810%
P270	300	1,595		532%
P245	1,660	1,860		112%
P272	150	430		287%
P111	500	475		95%
P244	920	940		102%
P240	430	430		100%
P242	290	160		55%
Total	39,280	30,895	26,960	147%

Central Sector

Feeder	Esitmated Distance (LF)	Distance Trimmed by T&D Crew (LF)	Distance Trimmed by Contractor (LF)	% Completion
P250	33,290	15,990	10,392	79%
P212	17,560	1,685		10%
P253	15,240	1,390		
P283	2,230	1,005	7,000	359%
P210	10,120	820		8%
P280	1,675	930		56%
P311	1,360			
P007	778			
P211	6,050	170		
P202	420	640		
P251	280			
P213	3,500	110		
P252	1,520	600	4,586	341%
P201	100	30		
P203	370			
P282	525			
P310	370	100		27%
P205	350	100		
P206	140	250		
P204	530	20		
P312	200			
P281	525			
P400	150			
Total	97,283	23,840	21,978	47%

Southern Sector

Feeder	Esitmated Distance (LF)	Distance Trimmed by T&D Crew (LF)	Distance Trimmed by Contractor (LF)	% Completion
P294	9,430	2,205	22,801	265%
P261	4,930	3,970	9,939	282%
P340	13,240	2,060	27,675	225%
P262	5,185	1,315	19,236	396%
P221	1,570	3,345		213%
P223	2,500	6,315		253%
P341	880	2,315	450	314%
P301	19,915	2,074	1,675	19%
P005	990	400		40%
P220	1,250	580		46%
P260	12,630	2,650		21%
Total	72,520	27,229	81,776	150%

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
November 2019

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

Summary
The increase in net assets for the month ended was $1.9 million as compared to the anticipated net increase of $1.0 million projected at the beginning of the year. The total kWh sales for the year were 2.49% less than projected and non-fuel revenues were $0.3 million less than the estimated amount. O & M expenses for the month were $5.9 million which was $0.4 million less than our projections for this year. Other expenses for the month such as interest expense, IPP costs, (net of interest income and other income) totaled to $3.0 million, which was right in line with the projected amounts. There were no other significant departures from the budget during the period.

Analysis

Description	**Previous Month**	**Current Month**	**Target**
Quick Ratio	2.62	2.31	2
Days in Receivables	43	43	52
Days in Payables	32	42	30
LEAC (Over)/Under Recovery Balance -YTD	$8,209,522	$7,887,109	$10,505,912
T&D Losses	5.33%	5.33%	<7.00%
Debt Service Coverage	1.64	1.62	1.75
Long-term equity ratio	0.90%	1.24%	30 – 40%
Days in Cash	221	230	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 $90 million and approximately $208 million in cash and current receivables. The LEAC over-recovery for the month was $0.3 million. Debt Service Coverage ratio is calculated using the methodology in use before the Fiscal Year 2002 change in accounting practice.

Financial Statements
November 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 Controller	John J.E. Kim Chief Financial Officer	John M. Benavente, P.E. General Manager

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

	Unaudited November 2019	Unaudited September 2019	Change from Sept 30 2019
ASSETS AND DEFERRED OUTFLOWS OF RESOURCES			
Current assets:			
Cash and cash equivalents:			
Held by trustee for restricted purposes:			
Interest and principal funds	$ 10,867,344	$ 33,053,886	$ (22,186,542)
Bond indenture funds	28,031,153	29,168,116	(1,136,963)
Held by Guam Power Authority:			
Bond indenture funds	161,360,021	154,027,791	7,332,230
Self insurance fund-restricted	19,378,387	19,378,387	0
Energy sense fund	354,574	333,528	21,046
Total cash and cash equivalents	219,991,479	235,961,708	(15,970,229)
Accounts receivable, net	45,487,951	41,867,589	3,620,362
Total current receivables	45,487,951	41,867,589	3,620,362
Materials and supplies inventory	12,412,199	12,521,306	(109,107)
Fuel inventory	47,891,893	41,214,022	6,677,871
Prepaid expenses	9,407,917	2,066,278	7,341,639
Total current assets	335,191,439	333,630,903	1,560,536
Utility plant, at cost:			
Electric plant in service	1,084,697,436	1,084,434,067	263,369
Construction work in progress	39,714,799	37,592,719	2,122,080
Total	1,124,412,235	1,122,026,786	2,385,449
Less: Accumulated depreciation	(638,738,292)	(633,190,295)	(5,547,997)
Total utility plant	485,673,943	488,836,491	(3,162,548)
Other non-current assets:			
Investment - bond reserve funds held by trustee	48,522,940	48,599,853	(76,913)
Unamortized debt issuance costs	2,176,436	2,221,160	(44,724)
Total other non-current assets	50,699,376	50,821,013	(121,637)
Total assets	871,564,758	873,288,407	(1,723,649)
Deferred outflow of resources:			
Deferred fuel revenue	7,887,109	9,943,732	(2,056,623)
Unamortized loss on debt refunding	24,353,044	24,733,104	(380,060)
Pension	8,932,987	8,932,987	0
Other post employment benefits	13,798,017	13,798,017	0
Unamortized forward delivery contract costs	292,078	318,638	(26,560)
Total deferred outflows of resources	55,263,235	57,726,478	(2,463,243)
	$ 926,827,993	$ 931,014,885	$ (4,186,892)

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

	Unaudited November 2019	Unaudited September 2019	Change from Sept 30 2019
LIABILITIES, DEFERRED INFLOWS OF RESOURCES AND NET POSITION			
Current liabilities:			
Current maturities of long-term debt	$ 20,515,000	$ 16,130,000	$ 4,385,000
Current obligations under capital leases	3,304,531	3,304,531	0
Accounts payable			
Operations	48,347,756	27,385,427	20,962,328
Others	414,057	23,036	391,022
Accrued payroll and employees' benefits	1,435,336	2,348,815	(913,479)
Current portion of employees' annual leave	2,227,911	2,153,583	74,328
Interest payable	5,063,376	14,733,265	(9,669,889)
Customer deposits	8,721,851	8,912,096	(190,245)
Total current liabilities	90,029,818	74,990,753	15,039,065
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	563,748,190	584,892,990	(21,144,800)
Obligations under capital leases, net of current portion	6,288,678	7,664,664	(1,375,986)
Net Pension liability	72,328,180	72,866,989	(538,809)
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	389,808	394,540	(4,732)
Total liabilities	900,621,062	908,646,324	(8,025,262)
Deferred inflows of resources:			
Unearned forward delivery contract revenue	1,070,699	1,168,036	(97,337)
Pension	3,532,642	3,532,642	0
Other post employment benefits	14,804,043	14,804,043	0
Total deferred inflows of resources	19,407,384	19,504,721	(97,337)
Commitments and contigencies			
Net Position:			
Net investment in capital assets	(32,018,170)	(45,782,266)	13,764,095
Restricted	28,971,280	51,357,358	(22,386,078)
Unrestricted	9,846,436	(2,711,253)	12,557,690
Total net position	6,799,546	2,863,840	3,935,708
	$ 926,827,993	$ 931,014,885	$ (4,186,892)

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

	November 30			Two Months Ended November 30		
	Unaudited 2019	Unaudited 2018	% of change Inc (dec)	Unaudited 2019	Unaudited 2018	% of change Inc (dec)
Revenues						
Sales of electricity	$ 32,446,278	$ 33,913,666	(4)	$ 66,051,140	$ 68,028,632	(3)
Miscellaneous	158,017	284,230	(44)	282,435	640,424	(56)
Total	32,604,295	34,197,896	(5)	66,333,575	68,669,056	(3)
Bad debt expense	(90,917)	(91,500)	(1)	(181,834)	(183,000)	(1)
Total revenues	32,513,378	34,106,396	(5)	66,151,741	68,486,056	(3)
Operating and maintenance expenses						
Production fuel	19,088,151	20,710,545	(8)	39,253,360	41,261,031	(5)
Other production	1,426,919	1,132,655	26	2,705,672	2,410,077	12
	20,515,070	21,843,200	(6)	41,959,032	43,671,108	(4)
Depreciation	3,103,969	3,708,915	(16)	6,202,636	7,335,101	(15)
Energy conversion cost	1,020,920	1,404,104	(27)	2,028,012	2,748,851	(26)
Transmission & distribution	1,005,152	765,841	31	2,060,742	1,715,698	20
Customer accounting	374,740	370,981	1	876,089	787,962	11
Administrative & general	2,674,685	2,514,421	6	5,159,467	5,329,922	(3)
Total operating and maintenance expenses	28,694,536	30,607,462	(6)	58,285,978	61,588,642	(5)
Operating income	3,818,842	3,498,934	9	7,865,763	6,897,414	14
Other income (expenses)						
Interest income	314,663	390,379	(19)	530,088	517,043	3
Interest expense and amortization	(2,320,981)	(2,383,971)	(3)	(4,630,019)	(4,783,304)	(3)
Bond issuance costs	89,228	87,022	3	178,456	175,044	2
Bid bond forfeiture	0	0	0	0	0	
Allowance for funds used during construction	0	0		0	0	
Losses due to typhoon	0	(215,691)	0	0	(215,691)	0
Other expense	(4,294)	(4,291)	0	(8,582)	(8,582)	0
		0				
Total other income (expenses)	(1,921,384)	(2,126,552)	(10)	(3,930,057)	(4,315,490)	(9)
Income (loss) before capital contributions	1,897,458	1,372,382	38	3,935,706	2,581,924	52
Capital contributions	0	0	0	0	0	0
Increase (decrease) in net assets	1,897,458	1,372,382	38	3,935,706	2,581,924	52
Total net assets at beginning of period (restated)	4,902,088	(17,099,108)	0	2,863,840	(18,308,650)	(116)
Total net assets at end of period	$ 6,799,546	$ (15,726,726)	(143)	$ 6,799,546	$ (15,726,726)	(143)

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

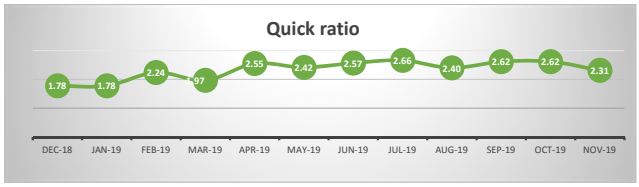
	Month Ended 11/30/2019	YTD Ended 11/30/2019
Increase(decrease) in cash and cash equivalents		
Cash flows from operating activities:		
Cash received from customers	$33,063,976	$ 62,501,615
Cash payments to suppliers and employees for goods and services	20,830,382	43,624,110
Net cash provided by operating activities	$12,233,594	18,877,505
Cash flows from investing activities:		
Interest and dividends on investments and bank accounts	314,663	530,088
Net cash provided by investing activities	314,663	530,088
Cash flows from non-capital financing activities		
Interest paid on short term debt	(8,863)	(198,694)
Provision for self insurance funds	-	-
Net cash provided by noncapital financing activities	(8,863)	(198,694)
Cash flows from capital and related financing activities		
Acquisition of utility plant	(768,536)	(3,040,088)
Principal paid on bonds and other long-term debt	-	(16,130,000)
Interest paid on bonds(net of capitalized interest)	-	(14,014,000)
Interest paid on capital lease obligations	(55,498)	(87,214)
Interest & principal funds held by trustee	(3,978,226)	22,186,542
Reserve funds held by trustee	(25,805)	76,913
Bond funds held by trustee	803,627	1,136,963
Principal payment on capital lease obligations	(676,102)	(1,375,986)
Grant from DOI/FEMA	-	-
Debt issuance costs/loss on defeasance	(314,900)	(629,800)
Net cash provided by (used in) capital and related financing activities	(5,015,440)	(11,876,670)
Net (decrease) increase in cash and cash equivalents	7,523,954	7,332,229
Cash and cash equivalents, beginning	153,836,065	154,027,791
Cash and cash equivalents-Funds held by GPA, November 30, 2019	**$ 161,360,020**	**$ 161,360,020**

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

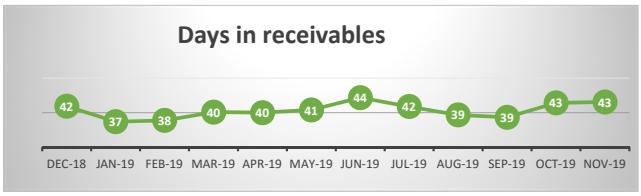
	Month Ended 11/30/2019	YTD Ended 11/30/2019
Reconciliation of operating earnings to net cash provided by operating activities:		
Operating earnings net of depreciation expense and excluding interest income	$3,818,842	$7,865,763
Adjustments to reconcile operating earnings to net cash provided by operating activities:		
Depreciation and amortization	3,103,969	6,202,636
Other expense	84,934	169,874
(Increase) decrease in assets:		
Accounts receivable	601,953	(3,620,362)
Materials and inventory	93,783	109,107
Fuel inventory	(1,462,891)	(6,677,871)
Prepaid expenses	(5,307,205)	(7,341,639)
Unamortized debt issuance cost	22,362	44,724
Deferred fuel revenue	322,413	2,056,623
Unamortized loss on debt refunding	190,030	380,060
Unamortized forward delivery contract costs	13,280	26,560
Increase (decrease) in liabilities:		
Accounts payable-operations	10,845,299	20,962,328
Accounts payable-others	(61,419)	369,976
Accrued payroll and employees' benefits	234,922	(913,479)
Net pension liability	(268,655)	(538,809)
Employees' annual leave	3,640	74,328
Customers deposits	47,005	(190,245)
Customer advances for construction	-	(4,732)
Unearned forward delivery contract revenue	(48,668)	(97,337)
Net cash provided by operating activities	**$12,233,594**	**$ 18,877,505**

Guam Power Authority
Financial Analysis
11/30/2019

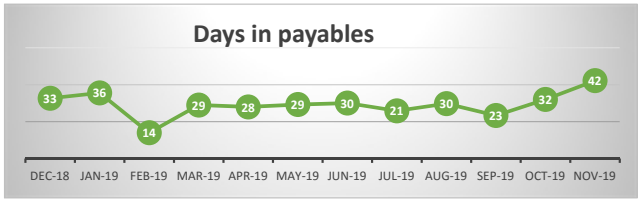
	Quick Ratio		
A	Reserve Funds Held by GPA		161,360,021
B	Current Accounts Receivable		46,971,340
C	Total Cash and A/R (A+B)		208,331,361
D	Total Current Liabilities		90,029,818
E	**Quick Ratio (F/G)**		**2.31**



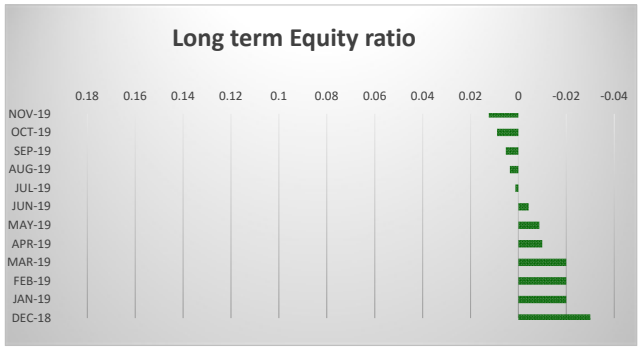
	Days in Receivables		
A	FY 19 Moving 12 Mos.-Actual		397,755,320
B	No. of Days		365
C	Average Revenues per day (A/B)		1,089,741
D	Current Accounts Receivable		46,971,340
E	**Days in Receivables (D/C)**		**43**



	Days in Payables		
A	FY 19 Moving 12 Months-Actual		421,800,333
B	No. of Days		365
C	Average Payables per day (A/B)		1,155,617
D	Current Accounts Payables		48,761,813
E	**Days in Payables (D/C)**		**42**

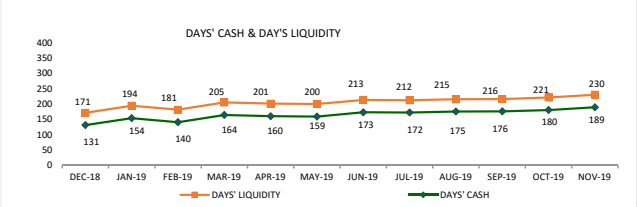


	Long term equity ratio		
A	Equity	$	6,799,546.00
B	Total Long term Liability	$	539,529,491.00
C	Total Equity and liability	$	546,329,037.00
D	**Long term equity ratio (A/C)**		**1.24%**



	Days cash on hand		
A	Unresctricted cash & cash equivalents		161,360
B	No. of Days -YTD		61
C	A x B		9,842,961
D	Total Operating expenses excluding depreciation		52,083
E	**Days cash on hand**		**189**

	Days' Liquidity		
A	Unresctricted cash , cash equivalents & revolving Credit		196,360
B	No. of Days -YTD		61
C	A x B		11,977,961
D	Total Operating expenses excluding depreciation		52,083
E	**Days liquidity**		**230**



GPA 302

GUAM POWER AUTHORITY
ACCRUED REVENUE
NOVEMBER 2019

	FOR THE MONTH ENDED NOVEMBER		TWO MONTHS ENDED NOVEMBER	
	2019	2018	2019	2018
KWH SALES:				
Residential	41,832,586	41,148,899	83,840,140	83,343,168
Small Gen. Non Demand	5,409,659	6,712,433	10,960,215	13,500,035
Small Gen. Demand	16,236,716	15,054,686	32,741,025	30,686,997
Large General	24,973,240	26,074,017	50,254,075	51,012,819
Independent Power Producer	33,926	35,867	63,077	66,393
Private St. Lights	33,968	33,984	67,628	67,515
Sub-total	88,520,094	89,059,886	177,926,160	178,676,927
Government Service:				
Small Non Demand	739,934	1,096,422	1,518,528	2,315,232
Small Demand	8,287,162	7,758,614	17,218,001	15,743,374
Large	6,140,795	5,989,384	12,504,877	12,252,791
Street Lighting	652,963	744,605	1,517,238	1,564,949
Sub-total	15,820,854	15,589,026	32,758,644	31,876,346
Total	104,340,948	104,648,912	210,684,805	210,553,273
U. S. Navy	25,080,100	24,888,490	50,689,087	51,472,863
GRAND TOTAL	129,421,048	129,537,402	261,373,892	262,026,136
REVENUE:				
Residential	10,464,359	10,286,420	20,985,599	20,884,233
Small Gen. Non Demand	1,595,257	1,938,660	3,243,516	3,934,653
Small Gen. Demand	4,449,885	4,091,967	8,984,357	8,393,284
Large General	6,456,820	6,715,109	12,954,099	13,082,381
Independent Power Producer	8,849	10,699	16,477	19,206
Private St. Lights	25,875	26,021	51,742	52,222
Sub-total	23,001,043	23,068,875	46,235,789	46,365,978
Government Service:				
Small Non Demand	236,107	335,403	482,346	703,582
Small Demand	2,407,924	2,230,742	4,961,225	4,500,085
Large	1,709,248	1,646,650	3,463,746	3,380,935
Street Lighting	459,553	479,197	962,781	974,218
Sub-total	4,812,832	4,691,993	9,870,098	9,558,820
Total	27,813,875	27,760,868	56,105,888	55,924,798
U. S. Navy	4,632,403	6,152,798	9,945,252	12,103,834
GRAND TOTAL	32,446,278	33,913,666	66,051,140	68,028,632
NUMBER OF CUSTOMERS:				
Residential	44,602	43,996	44,593	43,994
Small Gen. Non Demand	4,092	4,131	4,092	4,180
Small Gen. Demand	1,085	982	1,084	983
Large General	120	117	121	118
Independent Power Producer	2	3	2	3
Private St. Lights	515	527	516	526
Sub-total	50,416	49,756	50,407	49,802
Government Service:				
Small Non Demand	644	678	645	677
Small Demand	383	354	383	340
Large	44	47	44	43
Street Lighting	618	378	618	504
Sub-total	1,689	1,457	1,690	1,562
Total	52,105	51,213	52,096	51,364
US Navy	1	1	1	1
	52,106	51,214	52,097	51,365

GPA403

GUAM POWER AUTHORITY
ACCRUED REVENUE

	TWELVE MONTHS ENDED	NOVEMBER 2019	OCTOBER 2019	SEPTEMBER 2019	AUGUST 2019	JULY 2019	JUNE 2019	MAY 2019	APRIL 2019	MARCH 2019	FEBRUARY 2019	JANUARY 2019	DECEMBER 2018
KWH SALES:													
Residential	497,269,599	41,832,586	42,007,555	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
Small General Non Demand	73,561,130	5,409,659	5,550,556	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
Small General Demand	189,694,102	16,236,716	16,504,309	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
Large General	300,520,184	24,973,240	25,280,835	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
Private Outdoor Lighting	396,572	33,968	33,660	32,707	34,326	31,882	34,779	33,473	30,560	32,171	32,766	32,878	33,401
Independent Power Producer	394,941	33,926	29,151	47,591	31,920	34,342	33,644	31,329	28,130	34,407	25,891	36,117	28,494
Sub-Total	1,061,836,528	88,520,094	89,406,066	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
Government Service:													
Small Non Demand	11,973,650	739,934	778,594	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
Small Demand	99,375,688	8,287,162	8,930,840	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
Large	72,239,465	6,140,795	6,364,082	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
Street Lighting (Agencies)	9,193,886	652,963	864,275	711,804	864,386	763,574	710,958	838,818	763,841	710,856	791,792	714,935	805,684
Sub-Total	192,782,689	15,820,854	16,937,791	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
Total	1,254,619,217	104,340,948	106,343,856	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
U.S. Navy	313,014,290	25,080,100	25,608,987	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
Grand Total	1,567,633,508	129,421,048	131,952,844	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
REVENUE:													
Residential	124,567,484	10,464,359	10,521,241	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
Small General Non Demand	21,614,327	1,595,257	1,648,259	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
Small General Demand	52,058,983	4,449,885	4,534,471	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
Large General	77,415,031	6,456,820	6,497,279	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
Private Outdoor Lighting	309,228	25,875	25,867	25,616	26,038	25,412	26,200	25,670	25,155	25,651	25,784	26,100	25,860
Independent Power Producer	107,459	8,849	7,628	13,738	9,248	8,337	8,701	8,600	7,310	9,896	7,681	10,117	7,355
Sub-Total	276,072,512	23,001,043	23,234,746	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
Government Service:													
Small Non Demand	3,697,533	236,107	246,239	232,567	250,901	235,628	373,461	383,585	361,853	364,404	311,171	328,284	373,332
Small Demand	28,592,829	2,407,924	2,553,302	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
Large	20,046,110	1,709,248	1,754,498	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
Street Lighting (Agencies)	5,798,106	459,553	503,228	471,713	503,316	482,461	471,543	497,965	482,529	472,435	488,836	465,560	498,967
Sub-Total	58,134,578	4,812,832	5,057,267	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
Total	334,207,089	27,813,875	28,292,013	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
U.S. Navy	63,548,231	4,632,403	5,312,849	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
Grand Total	397,755,320	32,446,278	33,604,862	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
NUMBER OF CUSTOMERS:													
Residential	44,326	44,602	44,584	44,479	44,497	44,408	44,329	44,640	44,200	44,144	44,018	44,091	43,920
Small General Non Demand	4,158	4,092	4,091	4,087	4,122	4,197	4,211	4,213	4,185	4,183	4,173	4,180	4,166
Small General Demand	1,019	1,085	1,082	1,080	1,086	1,014	971	983	985	985	984	986	987
Large General	120	120	121	120	121	120	119	119	118	121	119	119	118
Private Outdoor Lighting	520	515	517	520	518	519	520	520	522	523	521	522	523
Independent Power Producer	2	2	2	2	2	2	2	2	2	2	2	2	2
Sub-Total	50,145	50,416	50,397	50,288	50,346	50,260	50,152	50,477	50,012	49,958	49,817	49,900	49,716
Government Service:													
Small Non Demand	666	644	645	644	648	671	676	676	672	675	678	679	683
Small Demand	367	383	383	382	382	381	356	355	356	357	357	356	360
Large	43	44	44	44	44	43	43	42	42	42	42	42	47
Street Lighting (Agencies)	622	618	618	618	618	619	618	618	621	629	628	628	628
Sub-Total	1,698	1,689	1,690	1,688	1,692	1,714	1,693	1,691	1,691	1,703	1,705	1,705	1,718
Total	51,843	52,105	52,087	51,976	52,038	51,974	51,845	52,168	51,703	51,661	51,522	51,605	51,434
U.S. Navy	1	1	1	1	1	1	1	1	1	1	1	1	1
Grand Total	51,844	52,106	52,088	51,977	52,039	51,975	51,846	52,169	51,704	51,662	51,523	51,606	51,435

GPA 303

GUAM POWER AUTHORITY
ACCRUED REVENUE
NOVEMBER 2019

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	44,602	41,832,586	$ 10,464,359	$ 25.01	$ 25.01	$ 10,464,359	938	$ 235	$ 9.59	$ 4,012,017	$ 15.42	$ 6,452,342
G Small Gen. Non Demand	4,092	5,409,659	$ 1,595,257	$ 29.49	$ 29.49	$ 1,595,257	1,322	$ 390	$ 14.06	$ 760,860	$ 15.42	$ 834,397
J Small Gen. Demand	1,085	16,236,716	$ 4,449,885	$ 27.41	$ 27.41	$ 4,449,885	14,965	$ 4,101	$ 11.99	$ 1,946,604	$ 15.42	$ 2,503,281
P Large General	120	24,973,240	$ 6,456,820	$ 25.85	$ 25.85	$ 6,456,820	208,110	$ 53,807	$ 10.50	$ 2,622,393	$ 15.35	$ 3,834,426
I Independent Power Producer	2	33,926	$ 8,849	$ 26.08	$ 26.08	$ 8,849	16,963	$ 4,424	$ 11.19	$ 3,795	$ 14.90	$ 5,054
H Private St. Lights	515	33,968	$ 25,875	$ 76.17	$ 76.17	$ 25,875	66	$ 50	$ 60.75	$ 20,635	$ 15.42	$ 5,239
Sub-Total	50,416	88,520,094	$ 23,001,043	$ 25.98	$ 25.98	$ 23,001,043	1,756	$ 456	$ 10.58	$ 9,366,305	$ 15.40	$ 13,634,739
Government Service:												
S Small Non Demand	644	739,934	$ 236,107	$ 31.91	$ 31.91	$ 236,107	1,149	$ 367	$ 16.48	$ 121,978	$ 15.42	$ 114,129
K Small Demand	383	8,287,162	$ 2,407,924	$ 29.06	$ 29.06	$ 2,407,924	21,637	$ 6,287	$ 13.63	$ 1,129,695	$ 15.42	$ 1,278,228
L Large	44	6,140,795	$ 1,709,248	$ 27.83	$ 27.83	$ 1,709,248	139,564	$ 38,847	$ 12.60	$ 773,651	$ 15.24	$ 935,597
F Street Lighting (Agencies)	618	652,963	$ 459,553	$ 70.38	$ 70.38	$ 459,553	1,057	$ 744	$ 54.96	$ 358,838	$ 15.42	$ 100,714
Sub-Total	1,689	15,820,854	$ 4,812,832	$ 30.42	$ 30.42	$ 4,812,832	9,367	$ 2,850	$ 15.07	$ 2,384,163	$ 15.35	$ 2,428,669
												$ 16,063,408
U.S. Navy	1	25,080,100	$ 4,632,403	$ 18.47	$ 18.47	$ 4,632,403			$ 6.41	$ 1,607,660	$ 12.06	$ 3,024,743
TOTAL	**52,106**	**129,421,048**	**$ 32,446,278**	**$ 25.07**	**$ 25.07**	**$ 32,446,278**	**2,484**	**$ 623**	**$ 10.32**	**$ 13,358,127**	**$ 14.75**	**$ 19,088,151**
Two Months Ended November 2019												
R Residential	44,593	83,840,140	$ 20,985,599	$ 25.03	$ 25.03	$ 20,985,599	1,880	$ 471	$ 9.61	$ 8,053,928	$ 15.42	$ 12,931,671
G Small Gen. Non Demand	4,092	10,960,215	$ 3,243,516	$ 29.59	$ 29.59	$ 3,243,516	2,679	$ 793	$ 14.17	$ 1,552,991	$ 15.42	$ 1,690,525
J Small Gen. Demand	1,084	32,741,025	$ 8,984,357	$ 27.44	$ 27.44	$ 8,984,357	30,218	$ 8,292	$ 12.02	$ 3,936,571	$ 15.42	$ 5,047,785
P Large General	121	50,254,075	$ 12,954,099	$ 25.78	$ 25.78	$ 12,954,099	417,046	$ 107,503	$ 10.42	$ 5,238,596	$ 15.35	$ 7,715,503
I Independent Power Producer	2	63,077	$ 16,477	$ 26.12	$ 26.12	$ 16,477	31,538	$ 8,238	$ 11.23	$ 7,081	$ 14.90	$ 9,396
H Private St. Lights	516	67,628	$ 51,742	$ 76.51	$ 76.51	$ 51,742	131	$ 100	$ 61.08	$ 41,311	$ 15.42	$ 10,431
Sub-Total	50,407	177,926,160	$ 46,235,789	$ 25.99	$ 25.99	$ 46,235,789	3,530	$ 917	$ 10.58	$ 18,830,478	$ 15.40	$ 27,405,311
Government Service:												
S Small Non Demand	645	1,518,528	$ 482,346	$ 31.76	$ 31.76	$ 482,346	2,356	$ 748	$ 16.34	$ 248,125	$ 15.42	$ 234,221
K Small Demand	383	17,218,001	$ 4,961,225	$ 28.81	$ 28.81	$ 4,961,225	44,956	$ 12,954	$ 13.39	$ 2,305,486	$ 15.42	$ 2,655,739
L Large	44	12,504,877	$ 3,463,746	$ 27.70	$ 27.70	$ 3,463,746	284,202	$ 78,722	$ 12.46	$ 1,558,292	$ 15.24	$ 1,905,454
F Street Lighting (Agencies)	618	1,517,238	$ 962,781	$ 63.46	$ 63.46	$ 962,781	2,455	$ 1,558	$ 48.03	$ 728,759	$ 15.42	$ 234,022
Sub-Total	1,690	32,758,644	$ 9,870,098	$ 30.13	$ 30.13	$ 9,870,098	19,390	$ 5,842	$ 14.78	$ 4,840,662	$ 15.35	$ 5,029,436
U.S. Navy	1	50,689,087	$ 9,945,252	$ 19.62	$ 19.62	$ 9,945,252			$ 6.17	$ 3,126,639	$ 13.45	$ 6,818,613
TOTAL	**52,097**	**261,373,892**	**$ 66,051,140**	**$ 25.27**	**$ 25.27**	**$ 66,051,140**	**5,017**	**$ 1,268**	**$ 10.25**	**$ 26,797,779**	**$ 15.02**	**$ 39,253,360**
Twelve Months Ended November 2019												
R Residential	44,326	497,269,599	$ 124,567,484	$ 25.05	$ 25.05	$ 124,567,484	11,218	$ 2,810	$ 9.63	$ 47,867,626	$ 15.42	$ 76,699,857
G Small Gen. Non Demand	4,158	73,561,130	$ 21,614,327	$ 29.38	$ 29.38	$ 21,614,327	17,690	$ 5,198	$ 13.96	$ 10,268,111	$ 15.42	$ 11,346,216
J Small Gen. Demand	1,019	189,694,102	$ 52,058,983	$ 27.44	$ 27.44	$ 52,058,983	186,157	$ 51,088	$ 12.03	$ 22,813,170	$ 15.42	$ 29,245,813
P Large General	120	300,520,184	$ 77,415,031	$ 25.76	$ 25.76	$ 77,415,031	2,513,061	$ 647,373	$ 10.41	$ 31,279,741	$ 15.35	$ 46,135,291
I Independent Power Producer	2	394,941	$ 107,459	$ 27.21	$ 27.21	$ 107,459	197,471	$ 53,730	$ 12.33	$ 48,681	$ 14.88	$ 58,778
H Private St. Lights	520	396,572	$ 309,228	$ 77.98	$ 77.98	$ 309,228	763	$ 595	$ 62.55	$ 248,060	$ 15.42	$ 61,168
Sub-Total	50,145	1,061,836,528	$ 276,072,512	$ 26.00	$ 26.00	$ 276,072,512	21,175	$ 5,505	$ 10.60	$ 112,525,389	$ 15.40	$ 163,547,123
Government Service:												
S Small Non Demand	666	11,973,650	$ 3,697,533	$ 30.88	$ 30.88	$ 3,697,533	17,981	$ 5,553	$ 15.46	$ 1,850,693	$ 15.42	$ 1,846,840
K Small Demand	367	99,375,688	$ 28,592,829	$ 28.77	$ 28.77	$ 28,592,829	270,533	$ 77,839	$ 13.35	$ 13,264,924	$ 15.42	$ 15,327,905
L Large	43	72,239,465	$ 20,046,110	$ 27.75	$ 27.75	$ 20,046,110	1,670,277	$ 463,494	$ 12.51	$ 9,039,033	$ 15.24	$ 11,007,077
F Street Lighting (Agencies)	622	9,193,886	$ 5,798,106	$ 63.06	$ 63.06	$ 5,798,106	14,787	$ 9,325	$ 47.64	$ 4,380,022	$ 15.42	$ 1,418,083
Sub-Total	1,698	192,782,689	$ 58,134,578	$ 30.16	$ 30.16	$ 58,134,578	113,518	$ 34,232	$ 14.80	$ 28,534,672	$ 15.35	$ 29,599,905
	51,843	1,254,619,217	$ 334,207,089	$ 26.64	$ 26.64	$ 334,207,089	24,200	$ 6,447	$ 11.24	$ 141,060,061	$ 15.39	$ 193,147,029
U.S. Navy	1	313,014,290	$ 63,548,231	$ 20.30	$ 20.30	$ 63,548,231			$ 6.34	$ 19,834,780	$ 13.97	$ 43,713,450
TOTAL	**51,844**	**1,567,633,508**	**$ 397,755,320**	**$ 25.37**	**$ 25.37**	**$ 397,755,320**	**30,237**	**$ 7,672**	**$ 10.26**	**$ 160,894,841**	**$ 15.11**	**$ 236,860,479**

GPA-318 **ENERGY ACCOUNT** **FOR INTERNAL USE ONLY**

318Nov19 **FY 2020 Versus FY 2019**

	November 2019		November 2018		Y T D 2020		Y T D 2019		MOVING TWELVE MONTHS	
Gross Generation										
Number of days in Period	**30**		**30**		**61**		**61**		**365**	
Peak demand	**245**		**241**		**247**		**245**		**255**	
Date	**11/04/19**		**11/07/18**		**10/23/19**		**11/04/19**		**06/06/19**	
	KWH	**% change**	**KWH**	**% change**	**KWH**	**% change**	**KWH**	**% change**	**KWH**	**% change**
Energy Account:										
Kilowatt hours GPA:										
Cabras 1 & 2	38,684,000		63,680,000		103,284,000		125,956,000		735,144,000	
Cabras No. 3	0		0		0		0		0	
Cabras No. 4	0		0		0		0		0	
MEC (ENRON) Piti 8 (IPP)	26,303,200		28,204,400		56,594,000		43,167,600		291,874,600	
MEC (ENRON) Piti 9 (IPP)	26,440,100		24,992,800		57,095,100		47,445,400		300,731,070	
TEMES Piti 7 (IPP)	11,037,475		4,627,988		15,711,956		17,721,578		47,347,573	
Tanguisson 2	0		0		0		0		0	
Tanguisson 1	0		0		0		0		0	
Diesels/CT's & Others:							0			
MDI 10MW	101,736		26,777		101,736		68,932		735,494	
NRG Solar Dandan	3,640,517		3,995,716		7,698,685		8,111,488		47,557,721	
Dededo CT #1	1,300,700		86,370		1,376,910		2,485,880		3,782,840	
Dededo CT #2	1,968,030		15,000		2,243,650		3,090,250		6,831,640	
Macheche CT	7,601,788		3,581,690		12,178,768		10,205,948		55,847,005	
Yigo CT (Leased)	6,788,998		3,651,575		9,017,749		10,516,538		47,771,636	
Tenjo	6,151,880		1,650,480		9,941,300		7,764,420		30,420,250	
Talofofo 10 MW	352,680		0		1,051,400		0		9,867,290	
Aggreko	11,298,451		8,116,353		12,467,825		13,275,604		148,611,867	
Wind Turbine*	0		0		12,221		10,431		146,588	
Orote	0		0		0		0		0	
Marbo	0		0		0		0		0	
	141,669,555		**142,629,149**		**288,775,301**		**289,820,069**		**1,726,669,574**	
Ratio to last year		99.33		96.11		99.64		**98.23**		**100.78**
Station use	4,854,260		5,619,537		10,820,496		11,310,332		66,400,627	
Ratio to Gross generation		3.43		3.94		3.75		3.90		**3.85**
Net send out	136,815,295		137,009,613		277,954,805		278,509,737		1,660,268,947	
Ratio to last year		99.86		95.79		99.80		**98.11**		**100.60**
KWH deliveries:										
Sales to Navy (@34.5kv)	**25,080,100**		**24,888,490**		**50,689,087**		**51,472,863**		**313,014,291**	
Ratio to last year		100.77		92.74		98.48		**98.83**		**102.34**
GPA-metered	**111,735,195**		**112,121,123**		**227,265,718**		**227,036,874**		**1,347,254,656**	
Ratio to last year		99.66		96.49		100.10		**97.95**		**100.20**
Power factor adj.	0		0		0		0		0	
Adjusted	111,735,195		112,121,123		227,265,718		227,036,874		1,347,254,656	
GPA KWH Accountability:										
Sales to civilian customers-										
accrual basis	**104,340,948**		**104,648,912**		**210,684,804**		**210,553,273**		**1,254,619,218**	
Ratio to last year		99.71		95.83		100.06		**96.93**		**100.06**
GPA use-KWH	330,917		335,814		685,631		673,861		4,151,562	
Unaccounted For	7,063,330		7,136,396		15,895,283		15,809,740		88,483,876	
Ratio to deliveries		6.32		6.36		6.99		6.96		6.57
Ratio to Gross Generation		4.99		5.00		5.50		5.46		5.12
Ratio to Net Send Out		5.16		5.21		5.72		5.68		5.33

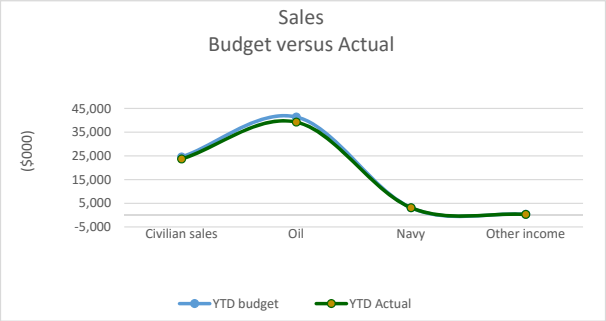
GPA-317Nov19

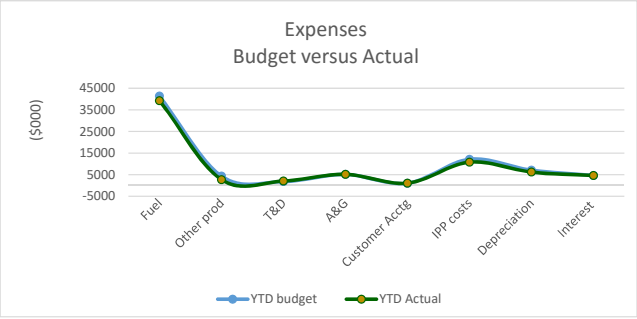
Guam Power Authority
Fuel Consumption
FY 2020

Description	November 2019		YEAR-TO-DATE		MOVING 12 MONTHS	
	BARRELS	AMOUNT	BARRELS	AMOUNT	BARREL S	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	97,613	$5,815,568	214,807	$ 13,763,865	1,433,172	$ 102,686,140
Diesel	100,266	$8,894,795	138,711	$ 12,358,023	732,126	$ 67,166,000
Low Sulfur	39,142	$2,566,107	118,313	$ 8,100,627	602,915	$ 45,656,915
Deferred Fuel Costs	0	$322,414	0	$ 2,056,623	0	$ 3,480,833
Fuel Adjustments	0	$0		$ -	0	$ 230,610
Fuel Handling Costs	0	$1,489,266	0	$ 2,974,223	0	$ 17,639,982
	237,021	**$19,088,151**	**471,831**	**$ 39,253,360**	**2,768,213**	**$ 236,860,479**
IWPS:						
GPA RFO	97,613	$5,815,568	214,807	$ 13,763,865	1,433,172	$ 102,686,140
Diesel	100,266	$8,894,795	138,711	$ 12,358,023	732,126	$ 67,166,000
Low Sulfur	39,142	$2,566,107	118,313	$ 8,100,627	602,915	$ 45,656,915
Deferred Fuel Costs	0	$322,414	0	$ 2,056,623	0	$ 3,480,833
Fuel Variance	0	$0	0	$ -		$ 230,610
Fuel Handling Costs	0	$1,489,266	0	$ 2,974,223	0	$ 17,639,982
	237,021	**$19,088,151**	**471,831**	**$ 39,253,360**	**2,768,213**	**$ 236,860,479**
AVERAGE COST/Bbl.						
GPA RFO		**$59.58**		**$64.08**		**$71.65**
Diesel		**$88.71**		**$89.09**		**$91.74**
Low Sulfur		**$65.56**		**$68.47**		**$75.73**
AS BURNED						
Cabras 1 & 2						
RFO	43,894	$ 2,626,499	108,046	$ 6,985,422	900,162	$ 65,136,372
Low Sulfur	21,995	$ 1,441,950	71,466	$ 4,885,946	341,178	$ 25,328,641
Diesel	106	$ 9,660	106	$ 9,660	1,880	$ 175,843
	65,995	$ 4,078,109	179,618	$ 11,881,028	1,243,220	$ 90,640,855
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	53,719	$ 3,189,070	106,760	$ 6,778,443	533,010	$ 37,549,768
Low Sulfur	17,147	$ 1,124,158	46,847	$ 3,214,680	261,737	$ 20,328,274
Diesel	0	$ -	2	$ 159	36	$ 2,570
	70,866	$ 4,313,227	153,610	$ 9,993,282	794,784	$ 57,880,612
Diesel & CT's - GPA:						
MDI Dsl	164	$ 15,509	164	$ 15,509	1,128	$ 96,637
Macheche CT	16,164	$ 1,422,205	26,509	$ 2,322,582	121,837	$ 11,041,138
Yigo CT	14,747	$ 1,295,280	19,479	$ 1,709,261	104,315	$ 9,438,055
Talofofo 10 MW	593	$ 52,462	1,843	$ 160,886	17,407	$ 1,580,845
Aggreko	20,699	$ 1,818,799	22,743	$ 1,995,173	274,739	$ 24,918,253
Tenjo	10,472	$ 965,175	16,903	$ 1,605,017	52,675	$ 5,414,500
TEMES (IPP)	27,364	$ 2,418,072	39,819	$ 3,519,233	124,604	$ 11,337,968
GWA Generators	103	$ 13,879	204	$ 27,225	1,005	$ 130,482
	100,160	$ 8,885,135	138,603	$ 12,348,204	730,209	$ 66,987,587
Deferred Fuel Costs	0	$ 322,414		$ 2,056,623		$ 3,480,833
Adjustment		$ -		$ -		$ 230,610
Fuel Handling Costs	0	$ 1,489,266		$ 2,974,223		$ 17,639,982
TOTAL	**237,021**	**$ 19,088,151**	**471,831**	**$ 39,253,360**	**2,768,213**	**$ 236,860,479**

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

	Budget	Actual November-19	Variance	YTD Budget	YTD Actual	Variance
KwH Sales-Civilian	108,588	106,344	2,244	218,461	212,688	5,773
Non-fuel yield	$ 0.112119	$ 0.110490	$ 0.001628	$ 0.112332	$ 0.111294	$ 0.001037
KwH Sales-Navy	24,133	25,609	-1,476	46,592	51,218	-4,626
Non-fuel yield	$ 0.062452	$ 0.062790	$ (0.000339)	$ 0.066900	$ 0.061053	$ 0.005847
Operating revenue						
Civilian sales	$ 12,175	$ 11,750	$ 425	$ 24,533	$ 23,671	$ 862
Oil	20,471	19,088	1,383	41,394	39,253	2,141
Navy	1,507	1,608	(101)	3,117	3,127	(10)
Other income	180	158	22	360	282	78
	$ 34,333	$ 32,604	$ 1,729	$ 69,404	$ 66,333	$ 3,070
Bad debts expense	91	91	(0)	182	182	(0)
Total operating revenues	$ 34,242	$ 32,513	$ 1,729	$ 69,222	$ 66,152	$ 3,070
Operating expenses:						
Production fuel	$ 20,471	$ 19,088	$ 1,383	$ 41,394	$ 39,253	$ 2,141
O & M expenses:						
Other production	2,192	1,427	765	4,332	2,706	1,626
Transmission distribution	887	1,005	(118)	1,819	2,061	(242)
Administrative expense	2,453	2,675	(222)	5,127	5,159	(33)
Customer accounting	394	375	19	846	876	(30)
	5,925	5,481	444	12,124	10,802	1,322
IPP costs	1,246	1,021	225	2,492	2,028	464
Depreciation	3,543	3,104	439	7,086	6,203	884
	$ 31,186	$ 28,695	$ 2,491	$ 63,097	$ 58,286	$ 4,811
Operating income	$ 3,056	$ 3,819	$ (762)	$ 6,125	$ 7,866	$ (1,741)
Other revenue (expenses):						
Investment income	167	315	(148)	334	530	(196)
Interest expense	(2,315)	(2,321)	6	(4,630)	(4,630)	(0)
Bond issuance costs/Other expenses	139	85	54	278	170	108
Net income before capital contribution	1,047	1,897	(851)	2,107	3,936	(1,830)
Grants from the U.S. Government	-	-	-	-	-	-
Increase (decrease) in net assets	$ 1,047	$ 1,897	$ (851)	$ 2,107	$ 3,936	$ (1,830)





Guam Power Authority
Debt service coverage
November 30, 2019

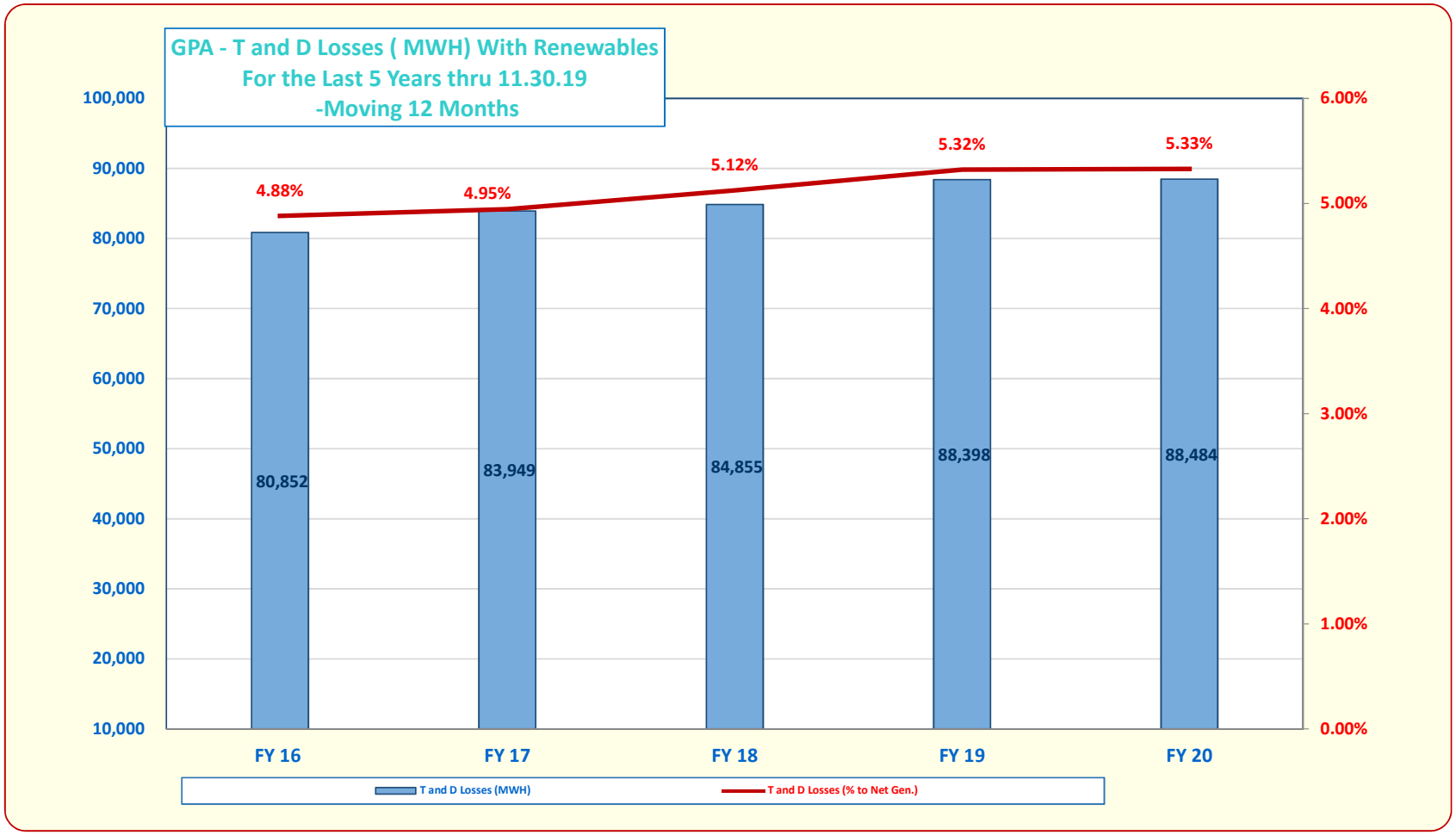
	2016	Restated 2017	Audited 2018	Unaudited 2019	YTD Unaudited 2020
Funds Available for Debt Service					
Earnings from Operations	$ 37,981	$ 36,522	$ 38,164	$ 44,818	$ 7,866
Interest Income	57	122	620	5,008	344
Depreciation Expense	44,240	44,292	37,184	37,344	6,203
Balance Available for Debt Service	$ 82,278	$ 80,936	$ 75,968	$ 87,170	$ 14,412
IPP - Capital Costs					
Principal	$ 14,819	$ 20,796	$ 23,210	$ 13,470	$ 1,400
Interest	5,970	5,609	3,159	1,068	89
Total IPP Payments	$ 20,789	$ 26,405	$ 26,369	$ 14,538	$ 1,488
Bond Debt Service					
Principal (1993 & 1999 Revenue Bond)	$ -	$ -	$ -	$ -	$ -
Interest (1993 & 1999 Revenue Bond)	-	-	-	-	-
Principal and Interest (2010 Subordinate Bond)	-	-	-	-	-
Principal and Interest (2010 Senior TE Bond)	7,999	7,999	2,000	-	-
Principal and Interest (2012 Senior TE Bond)	17,098	17,449	17,086	31,467	5,872
Principal and Interest (2014 Senior TE Bond)	10	5,084	5,083	5,084	848
Principal and Interest (2017 Senior TE Bond)			5,916	7,607	1,236
Total	$ 25,107	$ 30,532	$ 30,086	$ 44,158	$ 7,956
Debt Service Coverage (DSC) Calculation					
Existing DSC Methodology (Senior)	2.45 x	1.79 x	1.65 x	1.64 x	1.62 x
Existing DSC Methodology (Senior+Subordinate)	2.45 x	1.79 x	1.65 x	1.64 x	1.62 x
Bond Covenant DSC	3.28 x	2.65 x	2.53 x	1.97 x	1.81 x
Debt Service Coverage Requirements					
Existing Ratemaking DSC Target	1.75 x	1.75 x	1.75 x	1.75 x	1.75 x
Minimum Bond Covenant Requirement (Senior Bond)	1.30 x	1.30 x	1.30 x	1.30 x	1.30 x
Minimum Bond Covenant Requirement (Subordinate Bonc	1.20 x	1.20 x	1.20 x	1.20 x	1.20 x

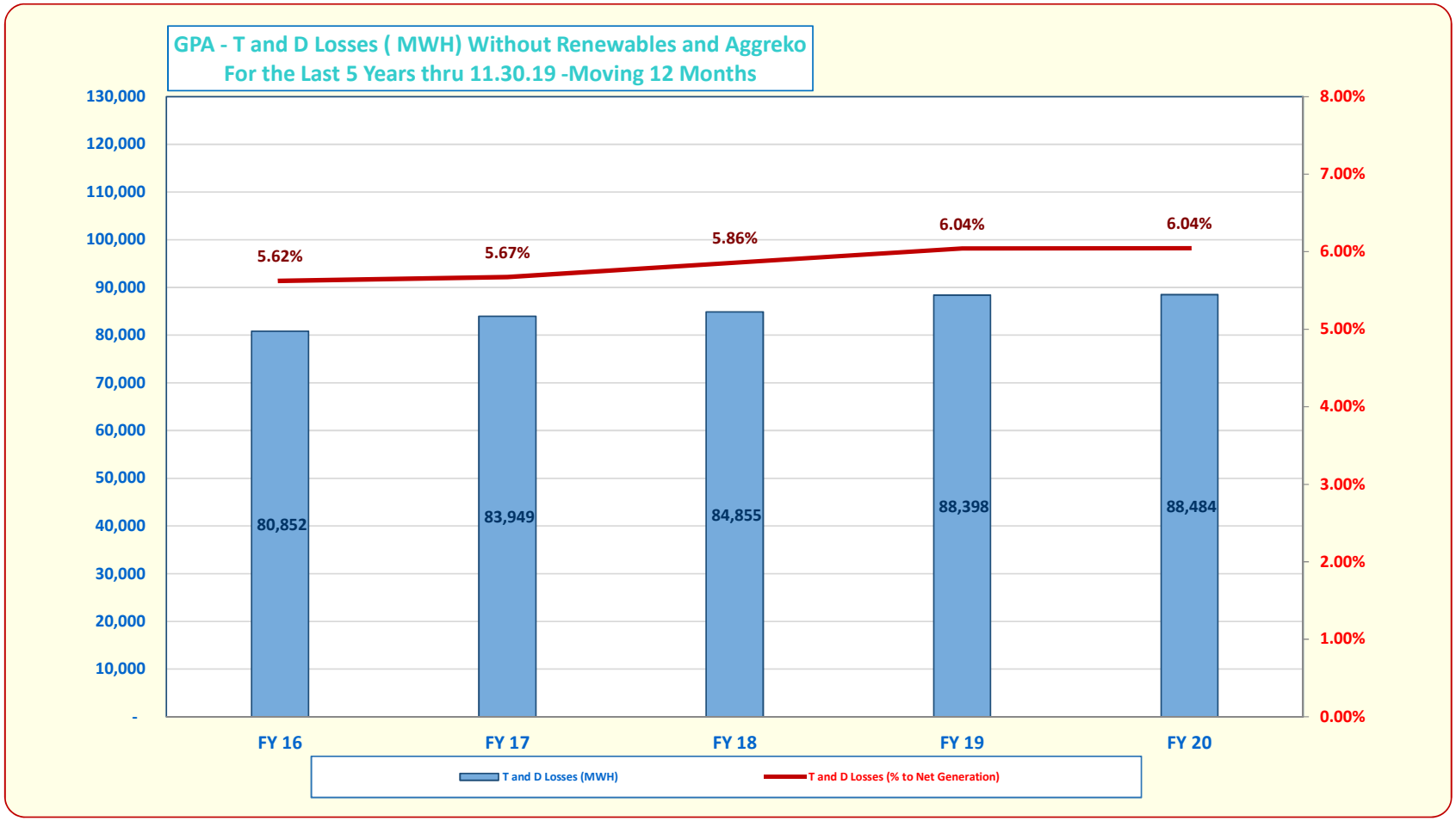
Notes:
(1) Source: Guam Power Authority, 2014 - 2018 Audited Financial Statements
(2) Interest income is net of interest earnings in the Construction Fund and the amortization of deferred credit.
(3) Existing DSC Methodology (Rating Agency Method):
(Operating Earnings + Depreciation Expense - IPP Principal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

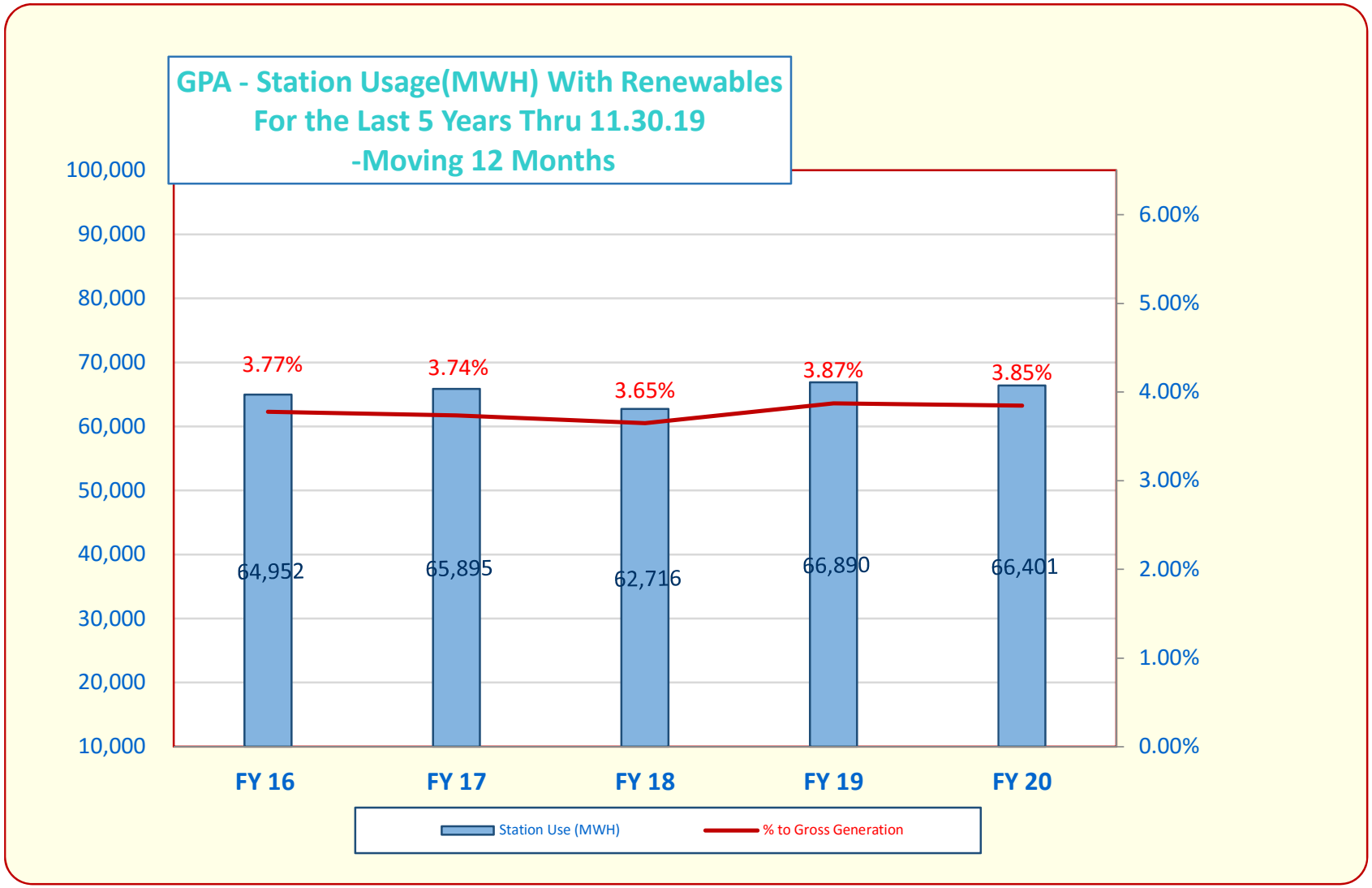
REVENUES-ACTUAL VS PROJECTIONS

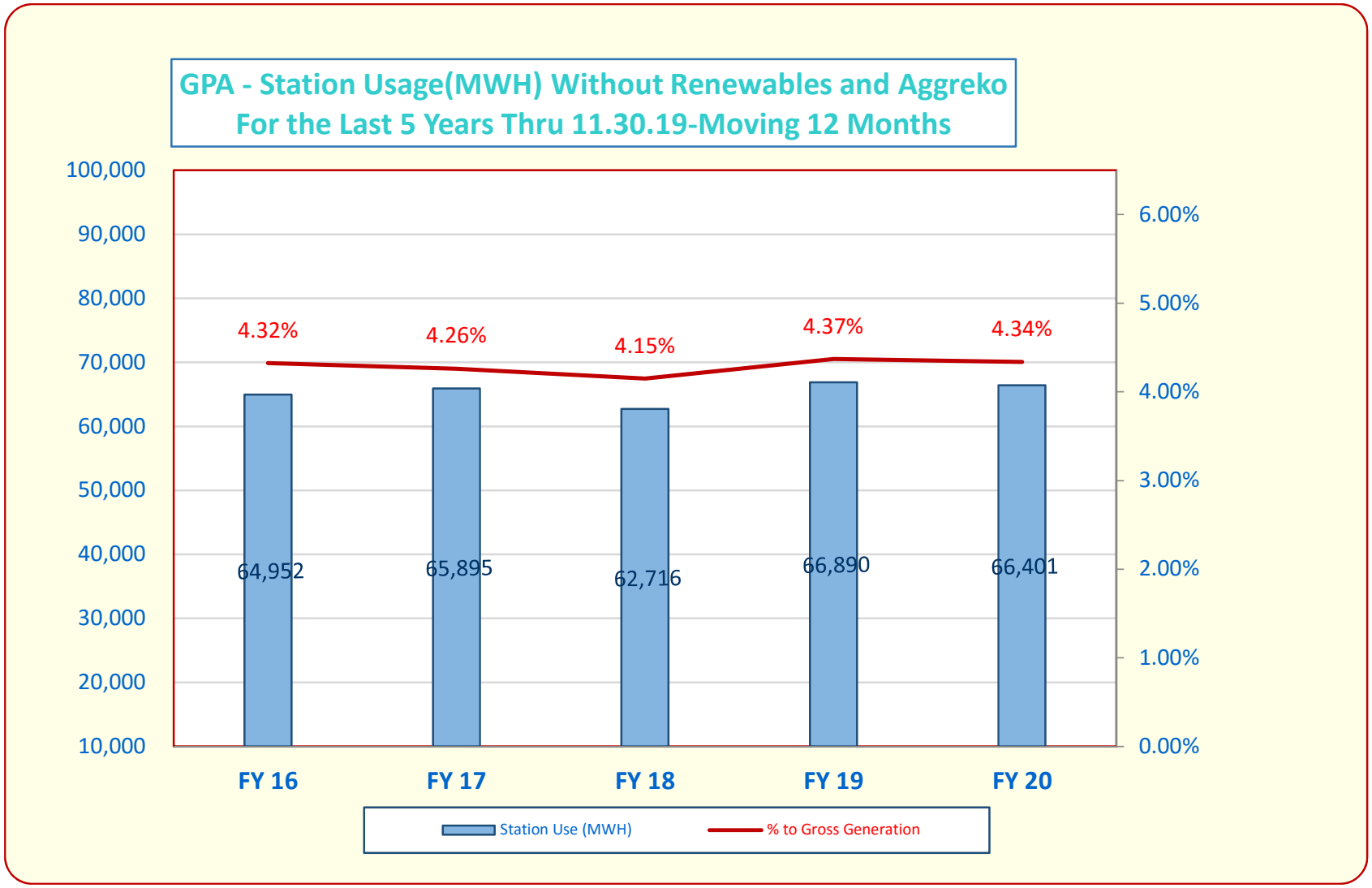
	MONTHLY - NOVEMBER 2019				YTD THRU 11/30/19			
	PROJECTIONS	ACTUAL	VARIANCE	% VARIANCE	PROJECTIONS	ACTUAL	VARIANCE	% VARIANCE
KWH								
Residential	43,091,031	41,832,586	(1,258,446)	-2.92%	87,276,773	83,840,140	(3,436,632)	-3.94%
Small General-Non-Demand	7,325,406	5,409,659	(1,915,747)	-26.15%	14,732,845	10,960,215	(3,772,630)	-25.61%
Small General-Demand	14,927,037	16,236,716	1,309,679	8.77%	30,426,802	32,741,025	2,314,224	7.61%
Large	27,229,077	24,973,240	(2,255,837)	-8.28%	53,272,651	50,254,075	(3,018,576)	-5.67%
Independent Power Producers	34,387	33,926	(462)	-1.34%	67,278	63,077	(4,201)	-6.24%
Private St. Lites	5,239	33,968	28,729	548.38%	10,408	67,628	57,220	549.78%
Sub-total	**92,612,178**	**88,520,094**	**(4,092,084)**	**-4.42%**	**185,786,756**	**177,926,160**	**(7,860,596)**	**-4.23%**
Government								
Small_Non Demand	1,163,764	739,934	(423,830)	-36.42%	2,457,432	1,518,528	(938,904)	-38.21%
Small-Demand	7,536,514	8,287,162	750,648	9.96%	15,292,700	17,218,001	1,925,301	12.59%
Large	6,554,640	6,140,795	(413,845)	-6.31%	13,409,165	12,504,877	(904,288)	-6.74%
Public St. Lites	720,693	652,963	(67,730)	-9.40%	1,514,692	1,517,238	2,546	0.17%
Sub-total	**15,975,612**	**15,820,854**	**(154,758)**	**-0.97%**	**32,673,990**	**32,758,644**	**84,655**	**0.26%**
Total-Civilian	**108,587,790**	**104,340,948**	**(4,246,842)**	**-3.91%**	**218,460,745**	**210,684,805**	**(7,775,941)**	**-3.56%**
USN	24,132,860	25,080,100	947,240	3.93%	49,910,115	50,689,087	778,972	1.56%
Grand Total	**132,720,650**	**129,421,048**	**(3,299,602)**	**-2.49%**	**268,370,861**	**261,373,892**	**(6,996,969)**	**-2.61%**
					-	-		
Non-Oil Yield								
Residential	0.096264	0.095906	(0.000358)	-0.37%	0.096264	0.096063	(0.000202)	-0.21%
Small General-Non-Demand	0.136877	0.140648	0.003772	2.76%	0.136877	0.141693	0.004817	3.52%
Small General-Demand	0.120054	0.119889	(0.000165)	-0.14%	0.120054	0.120234	0.000180	0.15%
Large	0.104208	0.105008	0.000800	0.77%	0.104208	0.104242	0.000034	0.03%
Independent Power Producers	0.626461	0.111854	(0.514607)	0.00%	0.626461	0.112260	(0.514201)	0.00%
Private St. Lites	0.114929	0.607490	0.492561	428.58%	0.114929	0.610848	0.495920	431.50%
Sub-total	**0.105844**	**0.105810**	**(0.000035)**	**-0.03%**	**0.105852**	**0.105833**	**(0.000019)**	**-0.02%**
Government					-			
Small_Non Demand	0.150486	0.164850	0.014364	9.55%	0.150486	0.163399	0.012913	8.58%
Small-Demand	0.135060	0.136319	0.001259	0.93%	0.135060	0.133900	(0.001160)	-0.86%
Large	0.127855	0.125986	(0.001869)	-1.46%	0.127855	0.124615	(0.003240)	-2.53%
Public St. Lites	0.473421	0.549554	0.076133	16.08%	0.473421	0.480320	0.006899	1.46%
Sub-total	**0.148492**	**0.150697**	**0.002206**	**1.49%**	**0.148949**	**0.147767**	**(0.001181)**	**-0.79%**
Total-Civilian	**0.112119**	**0.112616**	**0.000497**	**0.44%**	**0.154242**	**0.112353**	**(0.041889)**	**-27.16%**
USN	0.062452	0.064101	0.001649	2.64%	0.062452	0.061683	(0.000769)	-1.23%
Grand Total	**0.103088**	**0.103214**	**0.000127**	**0.12%**	**0.103027**	**0.102527**	**(0.000501)**	**-0.49%**
Non-Oil Revenues								
Residential	4,148,136	4,012,017	(136,119)	-3.28%	8,401,654	8,053,928	(347,726)	-4.14%
Small General-Non-Demand	1,002,677	760,860	(241,817)	-24.12%	2,016,582	1,552,991	(463,592)	-22.99%
Small General-Demand	1,792,044	1,946,604	154,560	8.62%	3,652,846	3,936,571	283,726	7.77%
Large	2,837,485	2,622,393	(215,091)	-7.58%	5,551,430	5,238,596	(312,834)	-5.64%
Independent Power Producers	21,542	3,795	(17,748)	-82.38%	42,147	7,081	(35,066)	-83.20%
Private St. Lites	602	20,635	20,033	3327.21%	1,196	41,311	40,114	3353.60%
Sub-total	**9,802,486**	**9,366,305**	**(436,181)**	**-4.45%**	**19,665,855**	**18,830,478**	**(835,377)**	**-4.25%**
Government								
Small_Non Demand	175,130	121,978	(53,152)	-30.35%	369,808	248,125	(121,683)	-32.90%
Small-Demand	1,017,880	1,129,695	111,815	10.99%	2,065,430	2,305,486	240,057	11.62%
Large	838,043	773,651	(64,392)	-7.68%	1,714,429	1,558,292	(156,137)	-9.11%
Public St. Lites	341,191	358,838	17,647	5.17%	717,087	728,759	11,673	1.63%
Sub-total	**2,372,245**	**2,384,163**	**11,918**	**0.50%**	**4,866,753**	**4,840,662**	**(26,091)**	**-0.54%**
Total-Civilian	**12,174,730**	**11,750,467**	**(424,263)**	**-3.48%**	**24,532,608**	**23,671,141**	**(861,467)**	**-3.51%**
USN	1,507,136	1,607,660	100,523	6.67%	3,116,968	3,126,639	9,671	0.31%
Grand Total	**13,681,867**	**13,358,127**	**(323,740)**	**-2.37%**	**27,649,576**	**26,797,779**	**(851,796)**	**-3.08%**
% of Total Revenues	40.06%	41.17%			40.05%	40.57%		
Oil Revenues								
Residential	6,646,447	6,452,342	(194,105)	-2.92%	13,461,744	12,931,671	(530,073)	-3.94%
Small General-Non-Demand	1,129,885	834,397	(295,489)	-26.15%	2,272,423	1,690,525	(581,898)	-25.61%
Small General-Demand	2,302,376	2,503,281	200,905	8.73%	4,693,091	5,047,785	354,694	7.56%
Large	4,199,867	3,834,426	(365,441)	-8.70%	8,216,880	7,715,503	(501,378)	-6.10%
Independent Power Producers	5,304	5,054	(250)	-4.72%	10,377	9,396	(981)	-9.46%
Private St. Lites	808	5,239	4,431	548.38%	1,605	10,431	8,826	549.78%
Sub-total	**14,284,688**	**13,634,739**	**(649,949)**	**-4.55%**	**28,656,121**	**27,405,311**	**(1,250,810)**	**-4.36%**
Government								
Small_Non Demand	179,501	114,129	(65,372)	-36.42%	379,039	234,221	(144,818)	-38.21%
Small-Demand	1,162,447	1,278,228	115,781	9.96%	2,358,777	2,655,739	296,962	12.59%
Large	1,011,001	935,597	(75,404)	-7.46%	2,068,256	1,905,454	(162,802)	-7.87%
Public St. Lites	111,161	100,714	(10,447)	-9.40%	233,629	234,022	393	0.17%
Sub-total	**2,464,110**	**2,428,669**	**(35,442)**	**-1.44%**	**5,039,701**	**5,029,436**	**(10,266)**	**-0.20%**
Total-Civilian	**16,748,798**	**16,063,408**	**(685,390)**	**-4.09%**	**33,695,822**	**32,434,747**	**(1,261,075)**	**-3.74%**
USN	3,722,301	3,024,743	(697,558)	-18.74%	7,698,236	6,818,613	(879,623)	-11.43%
Grand Total	**20,471,098**	**19,088,151**	**(1,382,948)**	**-6.76%**	**41,394,058**	**39,253,360**	**(2,140,698)**	**-5.17%**
% of Total Revenues	59.94%	58.83%			59.95%	59.43%		
Grand Total								
Residential	10,794,583	10,464,359	(330,224)	-3.06%	21,863,398	20,985,599	(877,799)	-4.01%
Small General-Non-Demand	2,132,562	1,595,257	(537,305)	-25.20%	4,289,006	3,243,516	(1,045,490)	-24.38%
Small General-Demand	4,094,420	4,449,885	355,465	8.68%	8,345,936	8,984,357	638,420	7.65%
Large	7,037,352	6,456,820	(580,532)	-8.25%	13,768,310	12,954,099	(814,211)	-5.91%
Independent Power Producers	26,846	8,849	(17,998)	-67.04%	52,524	16,477	(36,047)	-68.63%
Private St. Lites	1,410	25,875	24,464	1734.87%	2,801	51,742	48,940	1746.94%
Sub-total	**24,087,173**	**23,001,043**	**(1,086,130)**	**-4.51%**	**48,321,976**	**46,235,789**	**(2,086,186)**	**-4.32%**
Government					-			
Small_Non Demand	354,631	236,107	(118,524)	-33.42%	748,848	482,346	(266,502)	-35.59%
Small-Demand	2,180,327	2,407,924	227,596	10.44%	4,424,206	4,961,225	537,019	12.14%
Large	1,849,044	1,709,248	(139,796)	-7.56%	3,782,685	3,463,746	(318,939)	-8.43%
Public St. Lites	452,352	459,553	7,201	1.59%	950,716	962,781	12,065	1.27%
Sub-total	**4,836,355**	**4,812,832**	**(23,523)**	**-0.49%**	**9,906,455**	**9,870,098**	**(36,356)**	**-0.37%**
Total-Civilian	**28,923,528**	**27,813,875**	**(1,109,653)**	**-3.84%**	**58,228,430**	**56,105,888**	**(2,122,543)**	**-3.65%**
USN	5,229,437	4,632,403	(597,034)	-11.42%	10,815,204	9,945,252	(869,952)	-8.04%
Grand Total	**34,152,965**	**32,446,278**	**(1,706,688)**	**-5.00%**	**69,043,634**	**66,051,140**	**(2,992,494)**	**-4.33%**
	-	-	-					

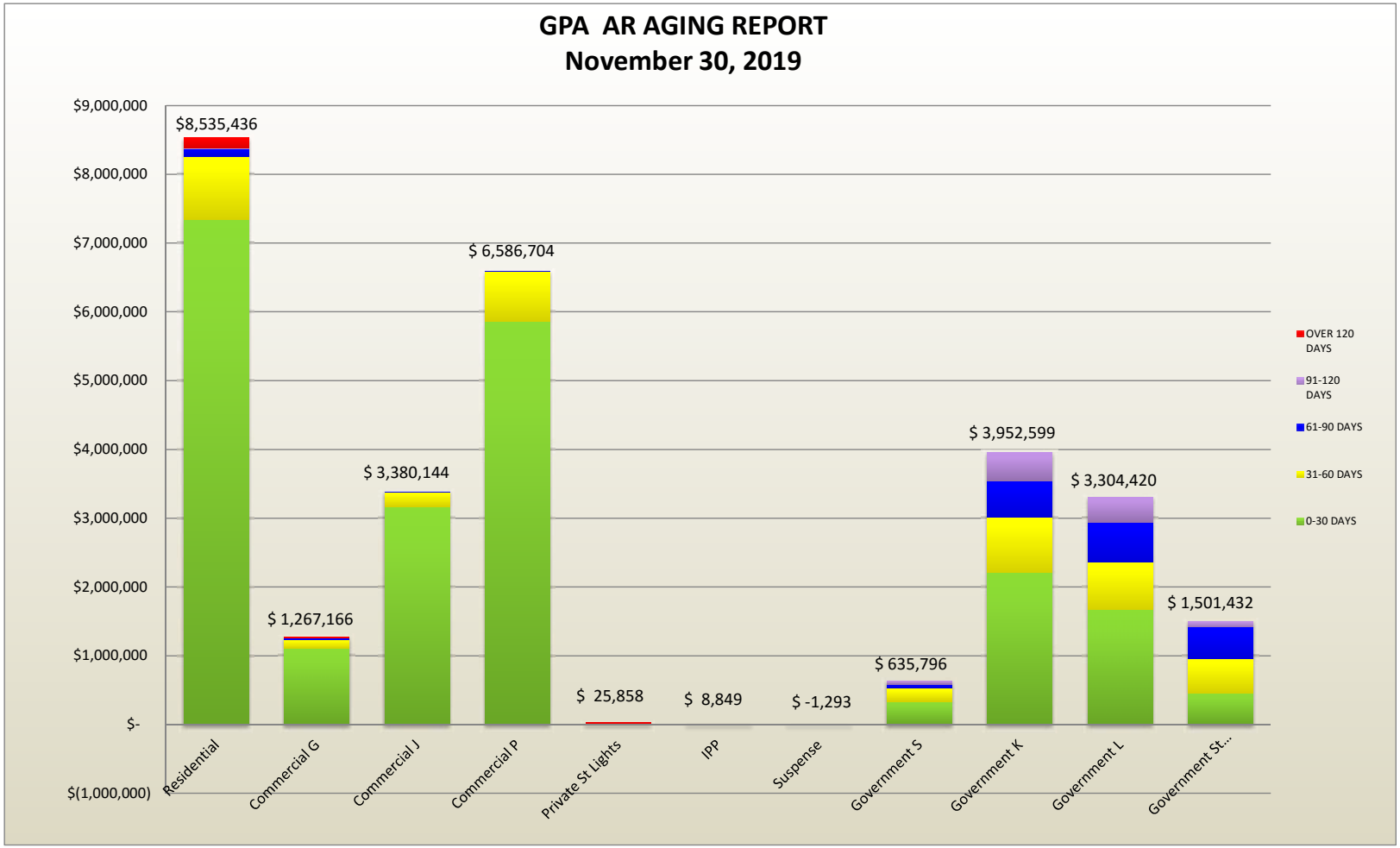
	YTD REVENUES - CURRENT YEAR VS PRIOR YEAR				MTD REVENUES - CURRENT YEAR VS PRIOR YEAR			
	ACTUALS - 2 MONTHS ENDED NOVEMBER 30				ACTUALS - MONTH ENDED NOVEMBER 30			
	2019	2018	VARIANCE	% VARIANCE	2019	2018	VARIANCE	% VARIANCE
KWH								
Residential	83,840,140	83,343,168	496,972	0.60%	41,832,586	41,148,899	683,687	1.66%
Small General-Non-Demand	10,960,215	13,500,035	(2,539,820)	-18.81%	5,409,659	6,712,433	(1,302,774)	-19.41%
Small General-Demand	32,741,025	30,686,997	2,054,028	6.69%	16,236,716	15,054,686	1,182,030	7.85%
Large	50,254,075	51,012,819	(758,745)	-1.49%	24,973,240	26,074,017	(1,100,777)	-4.22%
Independent Power Producers	63,077	66,393	(3,316)	-4.99%	33,926	35,867	(1,941)	-5.41%
Private St. Lites	67,628	67,515	113	0.17%	33,968	33,984	(16)	-0.05%
Sub-total	**177,926,160**	**178,676,927**	**(750,767)**	**-0.42%**	**88,520,094**	**89,059,886**	**(539,791)**	**-0.61%**
Government								
Small_Non Demand	1,518,528	2,315,232	(796,704)	-34.41%	739,934	1,096,422	(356,489)	-32.51%
Small-Demand	17,218,001	15,743,374	1,474,627	9.37%	8,287,162	7,758,614	528,548	6.81%
Large	12,504,877	12,252,791	252,086	2.06%	6,140,795	5,989,384	151,411	2.53%
Public St. Lites	1,517,238	1,564,949	(47,711)	-3.05%	652,963	744,605	(91,642)	-12.31%
Sub-total	**32,758,644**	**31,876,346**	**882,298**	**2.77%**	**15,820,854**	**15,589,026**	**231,828**	**1.49%**
Total-Civilian	**210,684,805**	**210,553,273**	**131,531**	**0.06%**	**104,340,948**	**104,648,912**	**(307,964)**	**-0.29%**
USN	50,689,087	51,472,863	(783,776)	-1.52%	25,080,100	24,888,490	191,610	0.77%
Grand Total	**261,373,892**	**262,026,136**	**(652,244)**	**-0.25%**	**129,421,048**	**129,537,402**	**(116,353)**	**-0.09%**
Non-Oil Yield								
Residential	0.096063	0.096339	-0.000276	-0.29%	0.095906	0.095738	0.000168	0.18%
Small General-Non-Demand	0.141693	0.137213	0.004480	3.27%	0.140648	0.134574	0.006074	4.51%
Small General-Demand	0.120234	0.119336	0.000898	0.75%	0.119889	0.117629	0.002260	1.92%
Large	0.104242	0.102939	0.001303	1.27%	0.105008	0.104055	0.000953	0.92%
Independent Power Producers	0.112260	0.140619	-0.028359	-20.17%	0.111854	0.149520	-0.037666	-25.19%
Private St. Lites	0.610848	0.619240	-0.008392	-1.36%	0.607490	0.611419	-0.003929	-0.64%
Sub-total	**0.105833**	**0.105475**	**0.000358**	**0.34%**	**0.105810**	**0.105019**	**0.000791**	**0.75%**
Government								
Small_Non Demand	0.163399	0.149651	0.013748	9.19%	0.164850	0.151665	0.013185	8.69%
Small-Demand	0.133900	0.131598	0.002302	1.75%	0.136319	0.133276	0.003043	2.28%
Large	0.124615	0.123534	0.001081	0.88%	0.125986	0.122560	0.003426	2.79%
Public St. Lites	0.480320	0.468282	0.012037	2.57%	0.549554	0.489317	0.060237	12.31%
Sub-total	**0.147767**	**0.146339**	**0.001429**	**0.98%**	**0.150697**	**0.147458**	**0.003239**	**2.20%**
Total-Civilian	**0.112353**	**0.111662**	**0.000691**	**0.62%**	**0.112616**	**0.111341**	**0.001275**	**1.15%**
USN	0.061683	0.063273	-0.001590	-2.51%	0.064101	0.062334	0.001767	2.83%
Grand Total	**0.102527**	**0.102156**	**0.000370**	**0.36%**	**0.103214**	**0.101925**	**0.001289**	**1.26%**
Non-Oil Revenues								
Residential	8,053,928	8,029,216	24,712	0.31%	4,012,017	3,939,532	72,485	1.84%
Small General-Non-Demand	1,552,991	1,852,380	(299,390)	-16.16%	760,860	903,321	(142,461)	-15.77%
Small General-Demand	3,936,571	3,662,053	274,518	7.50%	1,946,604	1,770,861	175,743	9.92%
Large	5,238,596	5,251,232	(12,636)	-0.24%	2,622,393	2,713,131	(90,737)	-3.34%
Independent Power Producers	7,081	9,336	(2,255)	-24.15%	3,795	5,363	(1,568)	-29.24%
Private St. Lites	41,311	41,808	(497)	-1.19%	20,635	20,779	(144)	-0.69%
Sub-total	**18,830,478**	**18,846,026**	**(15,548)**	**-0.08%**	**9,366,305**	**9,352,986**	**13,318**	**0.14%**
Government								
Small_Non Demand	248,125	346,476	(98,351)	-28.39%	121,978	166,289	(44,311)	-26.65%
Small-Demand	2,305,486	2,071,795	233,691	11.28%	1,129,695	1,034,038	95,657	9.25%
Large	1,558,292	1,513,633	44,659	2.95%	773,651	734,059	39,592	5.39%
Public St. Lites	728,759	732,838	(4,079)	-0.56%	358,838	364,348	(5,510)	-1.51%
Sub-total	**4,840,662**	**4,664,742**	**175,921**	**3.77%**	**2,384,163**	**2,298,734**	**85,429**	**3.72%**
Total-Civilian	**23,671,141**	**23,510,768**	**160,372**	**0.68%**	**11,750,467**	**11,651,720**	**98,747**	**0.85%**
USN	3,126,639	3,256,832	(130,193)	-4.00%	1,607,660	1,551,401	56,259	3.63%
Grand Total	**26,797,779**	**26,767,600**	**30,179**	**0.11%**	**13,358,127**	**13,203,120**	**155,007**	**1.17%**
% of Total Revenues								
Oil Revenues								
Residential	12,931,671	12,855,017	76,654	0.60%	6,452,342	6,346,888	105,453	1.66%
Small General-Non-Demand	1,690,525	2,082,272	(391,747)	-18.81%	834,397	1,035,339	(200,942)	-19.41%
Small General-Demand	5,047,785	4,731,231	316,555	6.69%	2,503,281	2,321,105	182,175	7.85%
Large	7,715,503	7,831,148	(115,645)	-1.48%	3,834,426	4,001,978	(167,552)	-4.19%
Independent Power Producers	9,396	9,870	(474)	-4.80%	5,054	5,336	(283)	-5.29%
Private St. Lites	10,431	10,414	17	0.17%	5,239	5,242	(3)	-0.05%
Sub-total	**27,405,311**	**27,519,952**	**(114,640)**	**-0.42%**	**13,634,739**	**13,715,889**	**(81,150)**	**-0.59%**
Government								
Small_Non Demand	234,221	357,106	(122,885)	-34.41%	114,129	169,114	(54,986)	-32.51%
Small-Demand	2,655,739	2,428,290	227,449	9.37%	1,278,228	1,196,704	81,524	6.81%
Large	1,905,454	1,867,302	38,152	2.04%	935,597	912,591	23,006	2.52%
Public St. Lites	234,022	241,381	(7,359)	-3.05%	100,714	114,849	(14,135)	-12.31%
Sub-total	**5,029,436**	**4,894,078**	**135,358**	**2.77%**	**2,428,669**	**2,393,259**	**35,410**	**1.48%**
Total-Civilian	**32,434,747**	**32,414,030**	**20,717**	**0.06%**	**16,063,408**	**16,109,148**	**(45,741)**	**-0.28%**
USN	6,818,613	8,847,001	(2,028,388)	-22.93%	3,024,743	4,601,397	(1,576,654)	-34.26%
Grand Total	**39,253,360**	**41,261,031**	**(2,007,671)**	**-4.87%**	**19,088,151**	**20,710,545**	**(1,622,395)**	**-7.83%**
% of Total Revenues								
Grand Total								
Residential	20,985,599	20,884,233	101,366	0.49%	10,464,359	10,286,420	177,938	1.73%
Small General-Non-Demand	3,243,516	3,934,653	(691,137)	-17.57%	1,595,257	1,938,660	(343,403)	-17.71%
Small General-Demand	8,984,357	8,393,284	591,073	7.04%	4,449,885	4,091,967	357,919	8.75%
Large	12,954,099	13,082,381	(128,281)	-0.98%	6,456,820	6,715,109	(258,289)	-3.85%
Independent Power Producers	16,477	19,206	(2,729)	-14.21%	8,849	10,699	(1,851)	-17.30%
Private St. Lites	51,742	52,222	(480)	-0.92%	25,875	26,021	(146)	-0.56%
Sub-total	**46,235,789**	**46,365,978**	**(130,189)**	**-0.28%**	**23,001,043**	**23,068,875**	**(67,832)**	**-0.29%**
Government								
Small_Non Demand	482,346	703,582	(221,236)	-31.44%	236,107	335,403	(99,297)	-29.61%
Small-Demand	4,961,225	4,500,085	461,140	10.25%	2,407,924	2,230,742	177,182	7.94%
Large	3,463,746	3,380,935	82,812	2.45%	1,709,248	1,646,650	62,598	3.80%
Public St. Lites	962,781	974,218	(11,438)	-1.17%	459,553	479,197	(19,645)	-4.10%
Sub-total	**9,870,098**	**9,558,820**	**311,278**	**3.26%**	**4,812,832**	**4,691,993**	**120,839**	**2.58%**
Total-Civilian	**56,105,888**	**55,924,798**	**181,090**	**0.32%**	**27,813,875**	**27,760,868**	**53,007**	**0.19%**
USN	9,945,252	12,103,834	(2,158,581)	-17.83%	4,632,403	6,152,798	(1,520,395)	-24.71%
Grand Total	**66,051,140**	**68,028,632**	**(1,977,492)**	**-2.91%**	**32,446,278**	**33,913,666**	**(1,467,388)**	**-4.33%**
	-	-				-		


GPA - T and D Losses (MWH) With Renewables
For the Last 5 Years thru 11.30.19
-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%
4.95%
5.12%
5.32%
5.33%
80,852
83,949
84,855
88,398
88,484
FY 16
FY 17
FY 18
FY 19
FY 20
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 11.30.19 -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%
5.62%
5.67%
5.86%
6.04%
6.04%
80,852
83,949
84,855
88,398
88,484
FY 16
FY 17
FY 18
FY 19
FY 20
T and D Losses (MWH)
T and D Losses (% to Net Generation)


GPA - Station Usage(MWH) With Renewables
For the Last 5 Years Thru 11.30.19
-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%
3.77%
3.74%
3.65%
3.87%
3.85%
64,952
65,895
62,716
66,890
66,401
FY 16
FY 17
FY 18
FY 19
FY 20
Station Use (MWH)
% to Gross Generation


GPA - Station Usage(MWH) Without Renewables and Aggreko
For the Last 5 Years Thru 11.30.19-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%
4.32%
4.26%
4.15%
4.37%
4.34%
64,952
65,895
62,716
66,890
66,401
FY 16
FY 17
FY 18
FY 19
FY 20
Station Use (MWH)
% to Gross Generation


GPA AR AGING REPORT
November 30, 2019
$9,000,000
$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)
$8,535,436
$ 1,267,166
$ 3,380,144
$ 6,586,704
$ 25,858
$ 8,849
$ -1,293
$ 635,796
$ 3,952,599
$ 3,304,420
$ 1,501,432
Residential
Commercial G
Commercial J
Commercial P
Private St Lights
IPP
Suspense
Government S
Government K
Government L
Government St...
OVER 120 DAYS
91-120 DAYS
61-90 DAYS
31-60 DAYS
0-30 DAYS

GUAM POWER AUTHORITY
GOVERNMENT ACCOUNTS RECEIVABLE
Billing up to December 31, 2019 and payments as of 01/22/2020

Current (10/18 Billing due 11/30/18
30 days Arrears (09/18 due 10/15/18)
60 days and over Arrears (08/18 billing due 09/15/18)

CC&B ACCT NUMBER	CC&B New Acct Numer	DEPARTMENT	CC&B BALANCE 11/30/2019	CANCEL/REBILL/ SPEC CHARGE 12/31/2019	BILLING 12/31/2019	PAYMENT UP TO 01/6/2020	CC&B BALANCE 01/6/2020
		Line Agencies					
0237100000	1073430238	Dept. of Corrections	156,391.49	1,157.49	81,548.44	(79,513.74)	159,583.68
0437100000	0040515913	Dept. of Parks & Rec.	20,489.40	(1,332.37)	22,027.94	(20,489.40)	20,695.57
0537100000	0453170939	Guam Fire Department	34,415.69	257.13	17,407.39	(51,824.02)	256.19
6995000000	8564647941	DOA Supply Mgmt (NET METERED)	837.77		829.53	(1,667.30)	-
7895000000	4211873236	Dept. of Administration	6,648.34	0.74	2,946.97	(9,596.05)	-
1337100000	4554808900	Nieves Flores Library	11,240.93		11,612.52	(22,853.45)	-
2206200000	9541109130	General Services Agency	526.14		272.57	(798.71)	-
2237100000	1621790133	DOA-Data Processing	18,501.03		9,791.08	(28,292.11)	-
2337100000	1896187753	Dept. of PH&SS	140,301.15	(17,664.05)	70,220.15	(209,476.89)	(16,619.64)
3237100000	7252821074	Dept. of Education	4,268,003.70	32,749.03	1,059,220.33	(2,095,698.02)	3,264,275.04
3337100000	0266069082	Guam Police Department	49,238.74		50,747.74	(99,986.48)	-
3569100000	6069461950	Dept of Youth Affairs (Federal)	561.08		608.23	(1,169.31)	-
4437100000	2913461537	Dept. of Youth Affair* (Local)	12,943.30		13,574.09	(26,517.39)	-
4737100000	3404311949	Guam Environmental Protect	6,864.01	103.33	6,973.11	(13,837.12)	103.33
5437100000	3227759982	Mental Health/Subst.	92,595.44	1,394.14	47,449.23	(92,595.44)	48,843.37
	6841080463	Guam Behavioral Health & Wellness	3,585.60	53.98	1,980.33	(3,558.91)	2,061.00
7200300000	0070861777	Veteran Affairs	4,209.93	30.36	1,996.96	(2,194.02)	4,043.23
	6243861917	Guam Veterans Affairs Office	0.00				0.00
7437100000	8300435373	Civil Defense (Military Affairs)	25,201.68	379.44	12,416.16		37,997.28
7463300000	7813165805	Pacific Energy Resource Center	1,412.12	21.26	708.88		2,142.26
8137100000	1595188609	Dept. of Agriculture	19,444.23	145.58	9,825.56	(19,742.20)	9,673.17
8337100000	2535590089	DPW-FAC Adm Account	48,683.02	469.92	31,967.11	(46,903.78)	34,216.27
8437100000	7928924534	Guam Visitors Bureau	4,199.19		4,990.84	(9,190.03)	-
8446300000	7663706771	Yona Senior Citizen Center	2,112.56	31.80	899.85		3,044.21
9437100000	4129948191	Dept of Chamorro Affairs/Chamorro Village	3,225.02		3,842.40	(7,067.42)	-
	3558733700	Dept of Chamorro Affairs/Chamorro Village (NET METERED)	140.85		140.85	(281.70)	-
5247210000	5247210000	Mayors Council	13,480.42	202.94	6,424.61		20,107.97
6293410000	6293410000	Office of the Governor	25,362.46		27,293.13	(52,655.59)	-
8555858369	8555858369	Dept of Chamorro Affairs (Guam Museum)	44,271.11	666.55	23,575.24		68,512.90
	1099514147	Dept of Chamorro Affairs/Repository	847.98	12.77	427.17		1,287.92
		Sub Total	**5,015,734.38**	**18,680.04**	**1,521,718.41**	**(2,895,909.08)**	**3,660,223.75**
		MAYORS					
0637100000	3832327736	Santa Rita Mayor	7,302.57	587.94	3,825.40		11,715.91
0737100000	9351070242	Ordot/Chalan Pago Mayor	1,997.35	30.07	918.71		2,946.13
1537100000	6393530237	Hagatna Mayor	1,146.16	17.26	629.81		1,793.23
1637100000	3293808984	Piti Mayor	2,182.98	32.87	1,243.41		3,459.26
1737100000	8715052935	Mongmong/Toto/Maite Mayor	3,114.81	46.90	1,934.04		5,095.75
2637100000	0492244686	Asan/Maina/Adelup Mayor	1,363.78	20.54	857.15		2,241.47
2737100000	8433959204	Sinajana Mayor	7,705.73	116.00	3,954.24		11,775.97
3637100000	8041715847	Dededo Mayor	13,663.25	205.71	6,768.67		20,637.63
4637100000	7037924246	Yigo Mayor	8,628.31	129.90	4,327.99		13,086.20
5637100000	7202265287	Umatac Mayor	2,829.91	42.61	1,514.20		4,386.72
6537100000	8472200165	Agana Hts. Mayor	8,636.24	130.04	4,034.34		12,800.62
6637100000	4469579998	Merizo Mayor	2,843.54	42.82	1,491.36		4,377.72
6737100000	5763167341	Barrigada Mayors Office	5,520.44	83.09	2,610.15		8,213.68
7537100000	7247791682	Agat Mayor	7,075.76	165.24	3,238.32		10,479.32
7637100000	6078244037	Inarajan Mayor	4,863.11	185.11	2,665.68		7,713.90
8537100000	6957205325	Tamuning Mayor	13,381.88	201.49	6,398.44		19,981.81
8637100000	1880297633	Talofofo Mayor	4,134.78	62.26	2,313.22		6,510.26
9537100000	3631627996	Mangilao Mayor	8,736.65	131.53	4,435.08		13,303.26
9637100000	1837525565	Yona Mayor	2,811.70	42.35	1,286.86		4,140.91
		Sub Total	**$ 107,938.95**	**$ 2,273.73**	**$ 54,447.07**	**$ -**	**$ 164,659.75**
		DPW ACCOUNTS				-	
4337100000	3045433600	DPW-Village St. Lights	1,096,922.45	(47,063.67)	341,828.83		1,391,687.61
5337100000	0930959866	DPW- Primary St. Lights	349,155.63	(19,801.91)	75,901.07		405,254.79
6337100000	3088040552	DPW-Sec/Coll St. Lights	78,688.25	(11,494.24)	20,728.29		87,922.30
7337100000	0832698062	DPW-Signal Lights	20,656.98	400.32	12,122.75	(10,577.82)	22,602.23
		Sub Total	**$ 1,545,423.31**	**$ (77,959.50)**	**$ 450,580.94**	**$ (10,577.82)**	**$ 1,907,466.93**
		(B) AUTONOMOUS/PUBLIC CORP					
1437100000	1540692986	Retirement Fund	6,047.97		6,995.23	(13,043.20)	-
1915500000	0563872892	Guam Housing Corp Rental Division	1,348.98	77.19	1,423.27	(2,824.44)	25.00
2437100000	5434075703	University of Guam	178,834.34		186,242.51	(365,076.85)	-
4237100000	7736362694	Guam Airport Authority	538,458.81	(14,970.49)	543,719.83	(1,086,217.08)	(19,008.93)
5357510000	5357510000	University of Guam (NET METERED)	75,848.50		79,479.62	(155,328.12)	-
6237100000	1699407298	G H U R A	12,525.52	(240.32)	24,827.14	(24,069.78)	13,042.56
6437100000	6518220019	Guam Community College	52,936.76		51,291.47	(104,228.23)	-
7237100000	8302337726	Guam Memorial Hospital	38,500.63		41,691.17	(80,191.80)	-
8426836906	8426836906	Guam Memorial Hospital (NET METERED)	147,725.65		154,175.43	(301,901.08)	-
9137100000	4474308144	Port Authority of Guam	98,460.02	2,858.71	99,674.33	(198,134.35)	2,858.71
9157510000	9157510000	Guam Community College (NET METERED)	37,552.99		35,791.44	(73,344.43)	-
9173210000	9173210000	Guam Solid Waste Authority	14,243.31	0.11	7,386.64	(21,601.43)	28.63
9337100000	0838495949	Guam Waterworks Authority	1,227,819.02	(7,951.34)	1,432,471.06	(2,660,415.08)	(8,076.34)
8237100000	4075914809	GPA	-	(99,358.24)	99,358.24		-
		Sub Total	**$ 2,430,302.50**	**$ (119,584.38)**	**$ 2,764,527.38**	**$ (5,086,375.87)**	**$ (11,130.37)**
		(C) OTHERS					
0337100000	7541928173	Guam Legislature	448.31		458.43	(906.74)	-
9503154359	9503154359	Guam Legislature (NET METERED)	8,177.97		8,478.79	(16,656.76)	-
1237100000	8353274954	Superior Court of Guam	63,468.79		64,948.29	(63,468.79)	64,948.29
2537100000	8108458168	Guam Post Office (Agana)	6,547.03		7,176.73	(13,723.76)	-
2570200000	8972267005	Customs & Quarantine Agency	640.03		639.62	(1,279.65)	-
3537100000	4530787043	U.S. Post Office	38,561.86		40,039.57	(78,601.43)	-
5537100000	8607446612	Dept. of Military Affairs	160,809.44	616.91	74,769.61	(78,555.18)	157,640.78
3209463043	3209463043	Dept. of Military Affairs (NET METERED)	36,092.60	136.91	15,786.99	(17,837.36)	34,179.14
5737100000	6000770566	KGTF	13,337.12	100.03	7,041.93		20,479.08
7281000000	6602566745	Tamuning Post Office	4,894.22		5,506.20	(10,400.42)	-
		Sub Total	**$ 332,977.37**	**$ 853.85**	**$ 224,846.16**	**$ (281,430.09)**	**$ 277,247.29**
		GRAND TOTAL	**$ 9,432,376.51**	**$ (175,736.26)**	**$ 5,016,119.96**	**$ (8,274,292.86)**	**$ 5,998,467.35**