



**CONSOLIDATED COMMISSION ON UTILITIES**

Guam Power Authority | Guam Waterworks Authority  
P.O. Box 2977 Hagatna, Guam 96932 | (671) 648-3002 | [guamccu.org](http://guamccu.org)

**GUAM POWER AUTHORITY WORK SESSION**

*CCU Conference Room*

*4:30 p.m., January 20, 2021*

**AGENDA**

1. **CALL TO ORDER**
2. **ISSUES FOR DECISION**
  - 2.1 **Renewal of GPA/Navy Customer Service Agreement /Resolution No. FY2022-06**
  - 2.2 **Cabras Unit #2 Major Overhaul / Resolution No. FY2022-07**
  - 2.3 **Updated Integrated Resource Plan [IRP] / Resolution No. FY2022-08**
3. **GM REPORT UPDATES**
  - 3.1 **Administration**
  - 3.2 **Engineering & Technical Services (ETS)**
  - 3.3 **Financial**
  - 3.4 **Operations**
  - 3.5 **Other**
4. **OTHER DISCUSSION**
  - 4.1 **CCU Rules Update**
5. **ANNOUNCEMENT**
  - 5.1 **Next Meeting: CCU Mtg: Tuesday, January 25, 2022**
6. **ADJOURNMENT**



**GUAM POWER AUTHORITY**

**PRESENTATION TO THE**

**CONSOLIDATED COMMISSION ON UTILITIES**

**ON THE**

**NAVY UTILITY SERVICE CONTRACT**

**January 20, 2022**



# NAVY REVENUES

Base Rate: \$19.2 million  
Fuel Payments: \$43.7 million  
(Last 12 months)



# NEGOTIATION TEAM

## GPA

- John Benavente– General Manager
- Melinda Mafnas – AGMO
- Joven Acosta – Manager, Engineering
- JR Gumataotao – Rights of Way Supervisor
- Maripaz Perez – Assistant CFO
- John Kim – Chief Financial Officer
- Tricee Limtiaco – AGMA
- James Borja – Utility Services Administrator
- John Cruz - AGMETS
- Jennifer Sablan – SPORD Manager
- Graham Botha – Legal Counsel
- Candice Ananich – Management Analyst III

## Navy

- Matthew Blaz
- Victoria Zialcita
- Arlene Aromin
- Patricia Borja
- Karianne Camacho
- Glen Camacho
- John Aguon
- Christopher Odoca





# GPA NAVY HISTORY

## CSA

- CUSTOMER SERVICES AGREEMENT (CSA)
- Signed July 1992 (2 10-year Terms)

## LEASE

- GPA NAVY LEASE AGREEMENT
- 50- year Lease Agreement signed September 1996
- allowing GPA to operate and maintain Navy assets prior to conveyance

## USC

- UTILITY SERVICES AGREEMENT (USC)
- Signed July 2012 (Expires July 2022)

## New USC

- NEW UTILITY SERVICES AGREEMENT
- Effective July 2022 to July 2032



# ARTICLES

## **Summary**

### **22 Articles**

### **Added Article 22: Cyber Security**

### **5 Tables**

### **2 Appendices**

Table 1 – GPA Points of Delivery

Table 2 – Distribution, Emergency and Stand-by Facilities to be Retained by Navy

Table 3 – Navy Joint Use Generation and Transmission Facilities

Table 4 – Navy 13.8 kV Distribution and 34.5 kV Assets to be Transferred to GPA

Table 5 – Navy Joint Use Assets Not Incorporated in Lease Table 3 and Table 4 to be transferred to GPA



# ARTICLES

Article 1 – Recitals  
Article 2 – Definitions  
Article 3 – Services Navy Will Provide and  
Navy Will Make Available  
Article 4 – Navy Compensation for Services  
Article 5 – GPA Compensation  
Article 6 – Effective Date and Term  
Article 7 – Forecasts of Reimbursable Costs  
Article 8 – Dispatch and Control of Navy  
Dedicated Use Facilities  
Article 9 – Dispatch and Control of Navy Joint  
Use Facilities  
Article 10 – Force Majeure  
Article 11 – Notices  
Article 12 – Rates and Regulation  
Article 13 – Changes in Navy Service  
Requirements  
Article 14 – Navy Billing Demands

Article 15 – Power Factor Adjustment  
Article 16 – Load Shedding Schedule  
Article 17 – Load Restoration Schedule  
Article 18 – Termination Liability  
Article 19 – Disputes Resolution  
Article 20 – Wheeling and Service  
Exchange  
Article 21 – Service Rules and  
Regulations  
Articles 22 - Cyber Security  
  
Appendix A – Procedures for  
Developing the Cost to Serve the  
Navy and Determining Navy Rates  
Appendix B – Fuel Clause Applicable to  
Navy Agreement



# USC HIGHLIGHTS

| Highlights                                                                                                                                              | Comments                                                                                                                                                                                                                                                                                                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Establishes 33 points of delivery for power to the Navy (Table 1)                                                                                       | 18 Transmission level metering points (metered at 34.5 kV Transformers) 15 distribution level metering points (metered at 13.8 kV)                                                                                                                                                                       |
| Establishes annual Navy minim demands for GPA to forecast expected revenues (Articles 13 & 14)                                                          | Navy current demand is approximately 43 MW                                                                                                                                                                                                                                                               |
| Provides for the transfer of Navy assets in compliance with US Public law 100-202 regarding environmental clean-up of sites (Article 3, Tables 3,4,5)   | Tables 3, 4 and 5, comprise all of the property intended to be permanently transferred to GPA by the UNITED STATES pursuant to the authority provided by Public Law 100-202 at no compensation to Navy. . . . assets may be identified for future transfer from Navy to GPA, at no compensation to Navy. |
| Provides a mechanism for GPA to provide power system support for Navy distribution systems upon request by the Navy (Article 8);                        | Navy can request additional operational and maintenance services or inspection of these facilities.                                                                                                                                                                                                      |
| Recognizes and identifies the Public Utilities Commission as the regulating body for establishing electric service rates for GPA customers (Article 12) | PUC is acknowledged to be an eligible regulatory body in accordance with the FAR 52.241-7. Accordingly, the Navy agrees to comply with the current regulations, practices and decisions of the PUC . . .                                                                                                 |



## GUAM POWER AUTHORITY

ATURIDÂT ILEKTRESEDÂT GUÅHAN  
P.O.BOX 2977 • HAGÂTÑA, GUAM U.S.A. 96932-2977

### Issues for Decision

#### Resolution No. FY2022-06:

#### **Relative to Authorizing the Guam Power Authority to seek PUC Approval to execute the GPA NAVY Utility Services Contract**

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

The Navy is GPA's largest customer. GPA currently provides electric service to the US Navy under a Utility Services Contract (USC) that was signed on July 31, 2012 and is expiring on July 31, 2022. GPA is the sole provider of electric service to support the Department of Defense's military mission. GPA and the Navy have successfully negotiated a new contract for GPA to provide electric utility services to Navy's facilities for the next 10 years from August 1, 2022 to July 31, 2032.

The highlights of the Utility Services Contract include

1. Establishes 33 points of delivery for power to the Navy (Table 1);
2. Establishes annual Navy minimum demands for GPA to forecast expected revenues (Articles 13 & 14);
3. Provides for the transfer of Navy assets in compliance with US Public law 100-202 regarding environmental clean-up of sites (Article 3, Tables 3,4,5);
4. Provides a mechanism for GPA to provide power system support for Navy distribution systems upon request by the Navy;
5. Recognizes and identifies the Public Utilities Commission as the regulating body for establishing electric service rates for GPA customers (Article 12);

#### **Where is at?**

Department of Defense facilities island-wide; 33 points of delivery.

#### **How much will it Cost?**

The USC provides a revenue stream for GPA from the Navy who is GPA's largest customer. Over the last 12 months, base revenues from the Navy were \$19.2 million and fuel payments were \$43.7 million.

#### **What is the funding Source?**

Not applicable

#### **When will it be completed?**

The start date of the contract will be August 1, 2022.

The contract will expire July 31, 2032



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

**GPA RESOLUTION NO. FY2022-06**

**AUTHORIZING THE GUAM POWER AUTHORITY TO SEEK PUC APPROVAL TO EXECUTE THE GPA  
NAVY UTILITY SERVICES CONTRACT**

**WHEREAS**, GPA currently provides electric service to the US Navy under Contract N40192-12-C-5100 approved by the CCU and PUC and signed by GPA on July 31, 2012 and expiring on July 31, 2022; and

**WHEREAS**, the Navy is charged with the Department of Defense's (DOD) military mission for this region and is GPA's largest customer which provides a consistent revenue stream that supplements the remainder of GPA's customer base; and

**WHEREAS**, GPA is the sole company charged with operating and maintaining the Island Wide Power System in sound physical and financial condition necessary to render adequate and efficient electric service to support the DOD's military mission; and

**WHEREAS**, GPA and the Navy have determined that it would be in the best interest and to the economic advantage of both parties to enter into an agreement providing for the electric utility service to the DOD installations on Guam; and

**WHEREAS**, as a result of these mutual benefits, GPA and the Navy have successfully negotiated and desire to enter into a contract for GPA to provide electric utility services to Navy's facilities for a 10-year term; and

**WHEREAS**, the updated Utility Services Contract contains the following key features:

1. Establishes the points of delivery for power to the Navy;
2. Establishes annual Navy minimum demands for GPA to forecast expected revenues;
3. Provides for the transfer of Navy assets in compliance with US Public law 100-202 regarding environmental clean-up of sites;
4. Provides a mechanism for GPA to provide power system support for Navy distribution systems upon request by the Navy;
5. Recognizes and identifies the Public Utilities Commission as the regulating body for establishing electric service rates for GPA customers; and

1           **WHEREAS**, the Consolidated Commission on Utilities acknowledges and supports the  
2   Utility Services Contract as the vehicle for GPA to fulfill its mission of providing electric services  
3   to the island of Guam.

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

- 6           1.   After careful consideration, the Consolidated Commission on Utilities finds the  
7               Utility Services Contract between GPA and the US Navy to be reasonable and  
8               prudent.
- 9           2.   The General Manager of the Guam Power Authority, subject to PUC approval, is  
10           hereby authorized to execute any and all documents incidental to executing the  
11           GPA-Navy Utility Services Contract.

12           **RESOLVED**, that the Chairman certifies and the Secretary attests the adoption of this  
13   Resolution.

14           **DULY AND REGULARLY ADOPTED AND APPROVED THIS 25<sup>TH</sup> DAY OF JANUARY, 2022.**

15  
16   Certified by:

Attested by:

17  
18  
19   \_\_\_\_\_  
20   JOSEPH T. DUENAS  
21   Chairperson  
22   Consolidated Commission on Utilities

\_\_\_\_\_  
Michael T. Limtiaco  
Secretary  
Consolidated Commission on Utilities

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

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

7           Ayes:           \_\_\_\_\_

8           Nays:           \_\_\_\_\_

9           Absent:         \_\_\_\_\_

10          Abstain:        \_\_\_\_\_



**GUAM POWER AUTHORITY**  
**UTILITY SERVICES CONTRACT**  
**2022**

PENDING APPROVAL

**GUAM POWER AUTHORITY  
UTILITY SERVICES CONTRACT**

**TABLE OF CONTENTS**

**Articles**

|                                                                           |  |
|---------------------------------------------------------------------------|--|
| Article 1 – Recitals .....                                                |  |
| Article 2 – Definitions .....                                             |  |
| Article 3 – Services Navy Will Provide and Navy Will Make Available ..... |  |
| Article 4 – Navy Compensation for Services .....                          |  |
| Article 5 – GPA Compensation .....                                        |  |
| Article 6 – Effective Date and Term .....                                 |  |
| Article 7 – Forecasts of Reimbursable Costs .....                         |  |
| Article 8 – Dispatch and Control of Navy Dedicated Use Facilities .....   |  |
| Article 9 – Dispatch and Control of Navy Joint Use Facilities .....       |  |
| Article 10 – Force Majeure .....                                          |  |
| Article 11 – Notices .....                                                |  |
| Article 12 – Rates and Regulation .....                                   |  |
| Article 13 – Changes in Navy Service Requirements .....                   |  |
| Article 14 – Navy Billing Demands .....                                   |  |
| Article 15 – Power Factor Adjustment .....                                |  |
| Article 16 – Load Shedding Schedule .....                                 |  |
| Article 17 – Load Restoration Schedule .....                              |  |
| Article 18 – Termination Liability .....                                  |  |
| Article 19 – Disputes Resolution .....                                    |  |
| Article 20 – Wheeling and Service Exchange .....                          |  |
| Article 21 – Service Rules and Regulations .....                          |  |
| Article 22 – Cyber Security .....                                         |  |

Tables

Table 1 – GPA Points of Delivery .....

Table 2 – Distribution, Emergency and Stand-by Facilities to be

Retained by Navy .....

Table 3 – Navy Joint Use Generation and Transmission Facilities .....

Table 4 – Navy 13.8 kV Distribution and 34.5 kV Assets to be

Transferred to GPA .....

Table 5 – Navy Joint Use Assets Not Incorporated in Lease Table 3 and

Table 4 to be transferred to GPA .....

Appendices

Appendix A – Procedures for Developing the Cost to Serve the Navy and

Determining Navy Rates .....

Appendix B – Fuel Clause Applicable to Navy Agreement .....

## ARTICLE 1

### Recitals

- 1.1 This agreement describes the terms, conditions and rate setting procedures and service rules and regulations applicable to electricity and capacity sold and delivered by the Guam Power Authority (GPA) to Naval Facilities Engineering Systems Command Marianas (Navy).
- 1.2 Navy operates electrical facilities which are used to primarily supply electricity within Department of Defense (DOD) installations on Guam.
- 1.3 GPA operates electric production, transmission and distribution facilities which are used for the supply of electricity for retail distribution to GPA's customers which includes DOD installations on Guam.
- 1.4 The Island-Wide Power System (IWPS) is dispatched and controlled by GPA from the GPA Power System Control Center.
- 1.5 GPA and Navy desire to continue a relationship whereby Navy (on behalf of all other DOD facilities on Guam) is a transmission-level customer of GPA, and receives firm power service from GPA, and also whereby Navy may request and GPA may agree to provide additional operational and maintenance services or inspection of various facilities.
- 1.6 GPA and Navy acknowledge that Lease Agreement N6274296RP00101 ("Lease") continues to govern the operations, maintenance and custody of certain United States-owned electric power facilities and pertinent real property and easement interests ("Leased Premises") pending a permanent transfer of those assets to GPA as authorized by Section 111 of P.L. 100-202. As provided in the Lease, and consistent with the intent of the parties under Customer Agreement N62742-89-C-0201, upon completion of remediation actions on the Leased Premises under the requirements of section 120(h) (3) of the Comprehensive Environmental Response, Compensation and Liability Act of 1980, as amended (42 U.S.C. § 9620(h) (3)), Navy intends to convey fee title ownership or perpetual rights in the Leased Premises to GPA at no compensation to the Navy. Nothing herein shall abrogate any obligation of the United States related to the permanent conveyance of real property provided for under Customer Agreement N62742-89-C-0201. Such obligation is of continuing force and effect.

## ARTICLE 2

### Definitions

- 2.1 Accounts. Accounts mean the books and records of GPA and their maintenance in conformance with the Uniform System of Accounts, promulgated by the Federal Energy Regulatory Commission, as described in 18CFR Part 101.
- 2.2 Capital Improvements. Expenditures on real, personal or intangible property (e.g., easements or rights of way) to (i) expand or modify the Island-Wide Power System, (ii) replace a significant component of the existing system or (iii) extend the service life of a significant component of the system are capital improvements. The Uniform System of Accounts promulgated by the Federal Energy Regulatory Commission or its successor agency and interpretations thereof shall be controlling of determinations as to whether an expenditure is a capital improvement. The section of the Uniform System of Accounts that currently prescribes capital improvement issues is in 18CFR Subchapter C, Part 101 Definitions, General Instructions, Electric Plant Instructions, Electric Plant Accounts.
- 2.3 Carrying Charges. Interest or other forms of financing or opportunity cost.
- 2.4 Conjunctive Demand. Conjunctive Demand means the demand, at each measured time interval, of all Navy Points of Delivery added together. Conjunctive demand shall also include the estimated combined demands of Navy customers served through wheeling by GPA, minus the estimated combined demands of GPA customers served through wheeling by Navy. Such estimated combined demands for wheeled customers shall be based on metered monthly kWh consumption and the class load factors from GPA's most recent retail load study.
- 2.5 Cost of Service. The cost of providing electric service to customers is the electrical system O&M expenses, depreciation and debt service costs as may be applicable, taxes and operating return determined on the basis of cost using utility industry accepted principles of cost determination for similar expenditures.
- 2.6 Customer. Customer, when used in Article 2.4, 2.14, and 21.14, refers to DOD facilities on Guam and other customers served and/or billed by NAVFAC.
- 2.7 Dedicated Use Facilities. Navy facilities, as listed in Table 2 that are not a part of the IWPS.
- 2.8 Dispatch and Control. The assignment of load to specific generating units and direction of plant operators to effect the most reliable and economical electrical supply of power as load requirements and unit availability changes, as well as control and operation of high voltage lines, switching, substations and equipment including administration of safety procedures.
- 2.9 Distribution Facilities. Items of utility plant property includable in electric plant accounts 360 - 373 of the Uniform System of Accounts generally consisting of land and land rights, poles, towers, lines, substations and appurtenances thereto that provide service below 34.5 kV.
- 2.10 FERC. The Federal Energy Regulatory Commission or its successor agencies.
- 2.11 Island-Wide Power System (IWPS). Island-Wide Power System meaning all electric production and transmission facilities on Guam operated by GPA and Navy during the term of this USC that are

interconnected and jointly used to supply the electric loads of the parties at the respective delivery points, but excluding distribution, emergency and standby facilities listed in Table 2.

- 2.12 Joint Use Assets. Generation and transmission assets dedicated to the IWPS. The Navy joint use assets are listed in Table 3.
- 2.13 NAVFACMAR. Naval Facilities Engineering Systems Command Marianas.
- 2.14 NAVFACMAR Rates. The rate charged by NAVFACMAR to authorized customers.
- 2.15 Operation and Maintenance. Activities performed to obtain the output from or use of the IWPS assets or to preserve the operating efficiency or physical conditions of IWPS assets.
- 2.16 Point of Delivery. The point where the electric power first leaves the line or apparatus of the Island-Wide Power System and enters the Navy system, generally at the outlet side of metering facilities. See Table 1 for listing of the Navy points of delivery.
- 2.17 Power Billing. Monthly GPA billing to Navy for the provision of electric utility service.
- 2.18 PUC. Guam Public Utilities Commission or any successor agency.
- 2.19 Service Billing. Monthly Navy billing to GPA for services Navy has provided in the preceding month.
- 2.20 Transmission Facilities. Items of utility plant property includable in electric plant accounts 350 - 359 of the Uniform System of Accounts generally consisting of land and land rights, poles, towers, lines, substations and appurtenances thereto that provide service at 34.5 kV or above.
- 2.21 Utility Service Contract (USC). This contract including tables and appendices referenced herein and attached hereto, and all amendments that may be executed from time to time.

### ARTICLE 3

#### Services Navy Will Provide and Navy Will Make Available

- 3.1 The Parties agree that Tables 3, 4 and 5, comprise all of the property intended to be permanently transferred to GPA by the UNITED STATES pursuant to the authority provided by Public Law 100-202 at no compensation to Navy. Real Estate documents such as deeds and easements which are necessary to convey title or access to the properties in the Tables will be prepared in accordance with applicable federal law and regulations, including CERCLA property transfer restrictions, and as soon as practical.

Notwithstanding the assets contained in Tables 3, 4 and 5, other assets may be identified for future transfer from Navy to GPA, and shall be included in Table 5, at no compensation to Navy. Navy may unilaterally amend the Tables to include such identified assets. Navy may unilaterally delete assets from the Tables upon conveying fee title or granting easements for those assets to GPA. Otherwise, deletion of assets from the Tables requires bilateral amendment.

- 3.2 Navy will continue to supply fresh water to the Guam Waterworks Authority for the power generation facilities installed on Guam on a best efforts basis at NAVFACMAR rates.
- 3.3 Navy will continue to make certain Government Furnished Property which are intended for transfer and listed in Table 5 available for use at no charge. GPA may request in writing, with necessary plans and drawings, Navy approval of modifications or expansion of GPA facilities in Navy buildings. Modifications cannot begin without written Navy authorization. The criteria Navy will use to evaluate whether to approve the building use include the following:
- The use proposed by GPA will benefit Navy and not interfere with existing or proposed Navy facilities
  - There are no other suitable buildings available to GPA for the same or similar use
  - The space requested in the building is the minimum space required to accomplish GPA's facilities plans

Navy's approval will not be unreasonably withheld or unnecessarily delayed.

Navy may, at any time delete existing Government Furnished Property from Table 5 if retention of the property is determined to be mission critical. The Contracting Officer may otherwise issue an administrative modification to amend Table 5 only where revisions are mutually agreed upon and signed by the Contracting Officer and the General Manager of GPA.

In addition, FAR clause 52.245-1 shall apply to this contract.

- 3.4 Navy and GPA understand that the conveyance of a permanent real property interest fee-title transfer is pending environmental remedial actions and determination of suitability for transfer under federal law. Where such remediation activities have not been completed, the United States will continue to undertake such remediation as necessary to render the property suitable for transfer to GPA.

- 3.5 The Navy and GPA expressly acknowledge that the Lease Agreement N6274296RP00101 continues to govern the operations, maintenance and custody of certain United States-owned electric power facilities and the pertinent real property and easement interests to GPA until the termination date of the Lease Agreement or unless sooner ended by the final transfer of Navy-owned real property or granting of perpetual easements as authorized under section 111 of P.L. 100-202.
- 3.6 Should GPA discover that a portion of the properties herein identified for transfer to GPA under section 111 of P.L. 100-202 is without the benefit of a corresponding real estate interest, whether through recordation failure or otherwise, a request for additional area will be documented and requested by GPA to the Navy, as appropriate. The Parties agree to work in good faith to resolve such discrepancies which may include the execution of new or corrected real estate documents. Nothing herein shall obligate the Navy to acquire additional real estate interests from private parties for the benefit of GPA.

PENDING APPROVAL



#### ARTICLE 4

##### Navy Compensation for Services

- 4.1 Navy will make its joint use generation and transmission assets and associated real estate assets as listed in Tables 3 and 5 available for use at no charge. This means that the Navy will not be compensated for depreciation of these assets or carrying charges.
- 4.2 Navy will receive no compensation for capital improvements undertaken by Navy on the Leased Premises.
- 4.3 Both parties may be in a position to provide assistance to either party and will be fully compensated for direct costs incurred in providing such assistance. These services may be out of scope of this contract and will be covered under separate contractual agreements.

PENDING APPROVAL

## ARTICLE 5

### GPA Compensation

- 5.1 GPA may submit invoices to NAVFAC Marianas for the Navy share of the fuel cost associated with GPA's most current fuel billing no more frequently than every seven (7) days. The invoice submittal will include a copy of the fuel bill on which the invoice is based and the calculation of Navy's share. The Navy will make weekly payments no sooner than seven (7) calendar days after receipt of a proper invoice. A summary billing will be submitted on a monthly basis, on the last Monday of the following month, which offsets the fuel payment made by the Navy during the billing month. If the last Monday is a holiday, the summary billing will be submitted on the first working day after the holiday

PENDING APPROVAL

## ARTICLE 6

### Effective Date and Term

- 6.1 This Contract shall be effective on 01 August 2022 subject to final approval and ratification as required under applicable Guam and federal laws and regulations as submitted and without modification, including the issuance of an order by the PUC approving the provisions of this Contract.
- 6.2 This Contract shall continue in effect for ten (10) years from the effective date hereof unless terminated at the option of the Navy: (i) by the giving of written notice of not less than one year in advance of the effective date of termination; and (ii) by the discharge of the Navy's obligations including the termination liability under Article 18.

PENDING APPROVAL

ARTICLE 7

Forecasts of Reimbursable Costs

- 7.1 Navy will provide five year's forecast information, including energy and conjunctive peak demand forecasts. The annual five (5) year forecast will be provided to GPA by September 1 of each year or when issued. The one (1) year forecast for NAVFACMAR utility water rates will be provided to GPA by September 1 of each year or when set.

PENDING APPROVAL

ARTICLE 8

Dispatch and Control of Navy Dedicated Use Facilities

- 8.1 Navy operates and maintains certain dedicated use facilities that are not part of the Navy joint use assets. These interconnected dedicated use facilities will remain under Navy Dispatch and control to provide additional assurance that Navy can meet its mission requirements. Navy Dispatch and control shall advise and coordinate with the IWPS Dispatch and control center when there are significant changes in load and/or operations of 13.8kV breakers.
- 8.2 Navy will continue to operate and maintain dedicated use facilities and make required capital improvements without compensation from GPA. Navy can request additional operational and maintenance services or inspection of these facilities. Any additional operational and maintenance services or inspection undertaken by GPA at the request of Navy must be agreed to by the Contracting Officer and the General Manager of GPA, which agreement shall not be unreasonably withheld. This agreement shall follow GPA's work order process and is fully reimbursable by the Navy and invoiced separately by GPA. If required by GPA's governing rules, GPA will also obtain approval by the Consolidated Commission on Utilities and/or the Guam Public Utilities Commission prior to performing the required services.
- 8.3 If requested by GPA, Navy may elect to supply nonfirm energy from Navy dedicated facilities to the IWPS. GPA will compensate Navy for energy supplied from Navy dedicated facilities at prevailing NAVFACMAR rates.
- 8.4 Navy and GPA mutually agree that the Navy may be in a position to supply electrical service to GPA customers from Navy dedicated use distribution lines. The Navy shall use its best effort in good faith to allow the electrical service tap(s) to the GPA designated point(s) on the Navy Dedicated Use Facility. GPA will compensate Navy for energy supplied from Navy dedicated facilities at prevailing NAVFACMAR rates.

## ARTICLE 9

### Dispatch and Control of Navy Joint Use Facilities

- 9.1 GPA is required to follow GPA operational and maintenance procedures and standards when maintaining Tables 1, 3, 4 and 5. Navy can request additional operational and maintenance services or inspection of the Leased Premises. Any additional operational and maintenance services or inspection undertaken by GPA at the request of Navy must be agreed to by the Contracting Officer and the General Manager of GPA, which agreement shall not be unreasonably withheld. This agreement shall follow GPA's work order process and is fully reimbursable by the Navy and invoiced separately by GPA. If required by GPA's governing rules, GPA will also obtain approval by the Consolidated Commission on Utilities and/or the Guam Public Utilities Commission prior to performing the required services.
- 9.2 The Navy 13.8 kV distribution and 34.5 kV transmission assets to be transferred to GPA listed in Tables 3, 4 and 5 will be made available to GPA for reconfiguration. GPA shall have the right, exercisable in accordance with the terms of the Lease, to make such improvements as it deems necessary. Navy will allow reasonable access to GPA to make each improvement. Each improvement made by GPA shall be at its sole cost and expense.

ARTICLE 10

Force Majeure

- 10.1 The term force majeure, as used herein, means unforeseeable causes beyond the reasonable control of, and without the fault or negligence of the party claiming force majeure, including but not limited to, acts of God and sudden actions of the elements, such as floods, typhoons, earthquakes or tornadoes or in the case of war or acts of the public enemy.
- 10.1.1 The term force majeure does not include any full or partial curtailment in the electric output which is caused or arises from the act or acts of any third party, vendor or supplier of GPA or Navy.
- 10.1.2 The term force majeure does not include any full or partial curtailment in the electric output of the IWPS that is caused or arises from a mechanical or equipment breakdown, unless such breakdown is caused by a force majeure.
- 10.1.3 The term force majeure does not include changes in market conditions that affect the cost of meeting contractual requirements.
- 10.2 If either party, because of force majeure, is rendered wholly or partly unable to perform its obligations under this Contract, that party shall be excused from whatever performance is affected by the force majeure to the extent so affected provided that:
- 10.2.1 The nonperforming party, within two (2) weeks after the occurrence of the force majeure, gives the other party written notice describing the particulars of the occurrence.
- 10.2.2 The suspension of performance is of no greater scope and of no longer duration than is necessitated by the force majeure.
- 10.2.3 The nonperforming party uses its best efforts to remedy its inability to perform.
- 10.2.4 When the nonperforming party is able to resume performance of its obligations under this Contract that party shall give the other party written notice to that effect.
- 10.3 If a dispute arises over the definition of an event as force majeure, the dispute will be resolved in accordance with the disputes resolution procedures contained in Article 19.

ARTICLE 11

Notices

11.1. Unless specifically provided otherwise, all notices required to be provided to the Government under this Contract shall be mailed to:

Commanding Officer  
NAVFAC Marianas  
PSC 455 Box 195  
FPO AP 96540-2937

11.2. Unless specifically provided otherwise, all inquiries and notices to GPA regarding this Contract shall be mailed to:

General Manager  
Guam Power Authority  
P.O. Box 2977  
Hagatna. Guam 96910

PENDING APPROVAL



## ARTICLE 12

### Rates and Regulation

- 12.1 The PUC is acknowledged to be an eligible regulatory body in accordance with the FAR 52.241-7. Accordingly, the Navy agrees to comply with the current regulations, practices and decisions of the PUC concerning accounting practices, allowability of costs, cost allocation, pricing and rates, settlement charges, and other charges and fees subject to appeal to the Guam Superior Court and continuing through normal judicial channels.
- 12.2 Base rates for GPA electricity service to Navy, which include all rates other than those established in fuel rate proceedings before the PUC, may be implemented in conjunction with a GPA general rate filing before the PUC that affects the rates of non-Navy customer classes and which reflects the Navy as a customer. In such case, the cost of providing electric service to the Navy shall be determined on an embedded cost basis and shall include only the applicable portion of the cost of service elements approved by the PUC. The total GPA system costs that will be included in the cost of service study, and to which the applicable allocation factors to determine the cost of serving the Navy will be applied, will be those cost elements used by the PUC to determine the basis for the rates charged to all non-Navy customer classes. The debt service coverage ratio (DSCR) used to establish the rates to be charged the Navy will be the same DSCR found appropriate by the PUC for the GPA system and incorporated in the rates charged to all non-Navy customer classes.
- 12.3 GPA will perform a cost of service study to determine the costs properly allocable to Navy, and to determine the rates to be charged to the Navy. Both parties agree that the cost of service methodology applying to Navy shall be subject to the approval of the PUC. The methodology used to develop Navy's rates is set forth in Appendix A.
- 12.4 Fuel rates for Navy will be calculated and invoiced, according to the formula and terms contained in Appendix B.
- 12.5 Notice to Navy regarding proposed changes in GPA rates to Navy or proposed changes in cost of service or rate structure methodology applying to Navy shall be governed by the PUC's rules for notice to GPA customers. No changes in rates to Navy may be made until the PUC has conducted a hearing to consider both parties' positions and has rendered its decision. Any change in rates to be charged the Navy will become effective on the same date that the change in rates for non-Navy customer classes becomes effective. Pending a decision of the PUC, GPA agrees to continue to furnish electric service to the Navy at the rates then applicable.
- 12.5.1 If GPA or PUC determines it is necessary to seek a change in the methodology in effect for setting rates, GPA shall give Navy forty-five (45) days notice of its desire together with the recommended changes. If Navy agrees to the change in methodology, GPA will submit such modifications to the PUC for its approval or other action.
- 12.5.2 If Navy determines it is necessary to seek a change in the methodology in effect for setting rates, Navy shall give GPA forty-five (45) days notice of its desire together with Navy's recommended changes. If GPA agrees to the change in methodology, GPA will submit such modifications to the PUC for its approval or other action.

- 12.5.3 If GPA and Navy are unable to reach an agreement as to any matter relating to methodology within an additional forty-five (45) days of one party's notice to the other, GPA will then submit its position to the PUC pursuant to the rules and regulations of the PUC. Navy shall have the right to submit its position to the PUC, and no changes may be made until the PUC has conducted a hearing to consider both parties' positions and has rendered its decision. Pending a decision of the PUC, GPA agrees to continue to furnish electric service to the Navy at the rates then applicable.
- 12.6 If changes in the cost of service or rate design applicable to Navy non-fuel rates are sought by either GPA or Navy outside of a general rate filing applicable to all GPA customer classes, the procedures specified in this Section shall be followed.
- 12.6.1 If GPA and Navy mutually agree that there is a significant change in IWPS operations and/or system conditions that cause the cost of service methodology approved at the time by the PUC to produce a result that is no longer reflective of the cost of serving the Navy and non-Navy customer classes, GPA may propose and Navy will support a change, which is acceptable to both GPA and Navy, in the cost of service and rate structure methodology in GPA's next general rate filing.
- 12.6.2 If GPA or PUC determines it is necessary to seek a change in the methodology in effect for setting rates, GPA shall give Navy forty-five (45) days' notice of its desire together with the recommended changes. If Navy agrees to the change in methodology, GPA will submit such modifications to the PUC for its approval or other action.
- 12.6.3 If Navy determines it is necessary to seek a change in the methodology in effect for setting rates, Navy shall give GPA forty-five (45) days' notice of its desire together with Navy's recommended changes. If GPA agrees to the change in methodology, GPA will submit such modifications to the PUC for its approval or other action.
- 12.6.4 If GPA and Navy are unable to reach an agreement in Article 12.6.2 and 12.6.3 as to any matter relating to methodology within an additional forty-five(45) days of one party's notice to the other, GPA will then submit its position to the PUC pursuant to the rules and regulations of the PUC. Navy shall have the right to submit its position to the PUC, and no changes may be made until the PUC has conducted a hearing to consider both parties' positions and has rendered its decision. Pending a decision of the PUC, GPA agrees to continue to furnish electric service to the Navy at the rates then applicable.
- 12.7 GPA acknowledges Navy's full rights to participate in any rate setting or other proceeding involving GPA before the PUC and will not oppose Navy's rights to participate.
- 12.8 GPA will prepare and maintain documented work papers in sufficient detail to allow Navy to understand and replicate the calculations performed in any cost of service and rate study. All work papers supporting the cost of service study and rate development will be made available to Navy at least forty-five (45) days prior to the time that GPA proposes to change Navy's rates. For any other cost of service studies and rate developments, these work papers shall be made available upon Navy's request.

- 12.9 In the event that the PUC is not the applicable regulatory authority, then the name of the applicable regulatory authority shall be substituted whenever the word "PUC" appears in this Agreement.
- 12.10 Notwithstanding any other provisions of this Agreement, if any rate increase for any non-Navy customer class is reduced, forgiven or abated; or if the level of rates for any non-Navy customer class is reduced, forgiven or abated, then the rates charged to the Navy shall be decreased by the same percentage and at the same time. However, this provision shall not apply if a decrease in revenue from one non-Navy customer class is compensated by an increase in revenue from another non-Navy customer class. Nor shall it apply if there is a net revenue decrease from the non-Navy customer classes which is compensated by equivalent funds from external sources; provided that such funds can be, and are, recognized and recorded by GPA as revenues, and provided further that GPA's financial ratios are not adversely affected.

## ARTICLE 13

### Changes in Navy Service Requirements

13.1 Navy's initial Minimum Reserved Capacity from GPA under this Agreement shall be set at a level equal to 85 percent of the average Navy monthly peak conjunctive demands over the twelve months preceding the effective date of this Agreement, as measured at 34.5 kV.

13.1.1 Not less than six (6) months prior to the end of the initial Contract Year and not less than six (6) months prior to the end of each subsequent Contract Year, Navy may give notice to GPA of a requested decrease or increase in the Minimum Reserved Capacity. Such annual decrease or increase shall not exceed three and a half (3.5) percent of the Minimum Reserved Capacity in effect at the time of the notice.

PENDING APPROVAL

ARTICLE 14

Navy Billing Demands

14.1 In any month, the Navy's firm billing demand will be equal to the greater of:

- (A) The maximum actual conjunctive demand of the Navy load for the month (expressed on a thirty (30) minute integrated demand basis) and equal to the demand of all Navy load metered through Navy delivery points, during the thirty (30) minute period when the combination of these loads was at its maximum value, or
- (B) Eighty-five percent (85%) of the highest of the demand specified in (A) above occurring during the previous eleven (11) month period, or
- (C) The Minimum Reserved Capacity (see Article 13).

14.2 In determining Navy's demand for purposes of this Article, the demands shall be adjusted to reflect service at 34.5 kV.

## ARTICLE 15

### Power Factor Adjustment

- 15.1 For the purposes of this Agreement, power factor is defined as the average ratio of energy in kilowatt-hours (kWH) to kilovolt-Ampere-hours (kVah) for each delivery point as determined for each month. This ratio is expressed as a percentage.
- 15.2 Navy shall endeavor to maintain a power factor of at least eighty-five percent (85%) at each delivery point.
- 15.3 GPA will apply the power factor adjustment at any Navy delivery point if the power factor for the month is below eighty-five percent (85%) or above ninety percent (90%). This will be referred to as the Power Factor Adjustment Range (i.e. 85% - 90%). Such adjustment would be to eighty-five percent (85%) if below eighty-five percent (85%) or to ninety percent (90%) if above ninety percent (90%). For each one percent (1%) the average power factor is below eighty-five percent (85%) or above ninety percent (90%), the monthly bill as computed under the demand charges shall be increased or decreased, respectively, by one-tenth percent (0.10%). The power factor will be computed to the nearest percent.
- 15.3.1 The Navy's Power Factor Adjustment Range (85%-90%) shall be adjusted up or down by the same percentage points as adjustments to GPA customer classes Large Power Service (Schedule "P") and Large Government Service (Schedule "L") may be made from time to time.
- 15.4 The conjunctive monthly demand billings will be adjusted by the power factor adjustments computed at the individual demands received at each delivery point. In no case, however, shall the power factor be taken as more than one hundred percent (100%) in computing the adjustment.
- 15.5 The average monthly power factor will be determined from readings of a revenue meter.

## ARTICLE 16

### Load Shedding Schedule

- 16.1 In the event of an IWPS electric supply deficiency, priorities are established for a load shedding schedule.
- 16.2 Shedding of load will be performed in accordance with the IWPS Underfrequency Load Shedding (UFLS) Scheme, as amended. Navy shall maintain a high priority on the UFLS Scheme for Navy identified critical loads.
- 16.3 The IWPS UFLS Scheme shall be reviewed and may be revised from time to time by mutual agreement of GPA and Navy. Determination as to appropriateness of the need for revisions to the IWPS UFLS Scheme shall be based upon the priority nature of Navy and GPA loads served by the various feeders, and shall take into account such factors as health, human needs, public safety and national security.

PENDING APPROVAL

## ARTICLE 17

### Load Restoration Schedule

- 17.1 In the event of a significant IWPS outage, priorities are established for returning load to service.
- 17.2 Restoration of load will be performed in accordance with the restoration procedures set forth under GPA's Standard Operating Procedure No. SOP-035, System Restoration During Partial or Complete IWPS Blackout, as amended. Navy shall maintain a high priority for load restoration for Navy identified critical loads.
- 17.3 The SOP-035 feeder/circuit restoration sequence shall be reviewed and may be revised from time to time by mutual agreement of GPA and Navy. Determination as to appropriateness of the need for revisions shall be based upon the priority nature of Navy and GPA loads served by the various feeders, and shall take into account such factors as health, human needs, public safety and national security.



ARTICLE 18

Termination Liability

18.1 In the event the Navy terminates this Agreement prior to expiration of the term, the Navy shall pay GPA a termination charge determined as follows:

Termination Charge

$$TC = (A) \times (C) \times (D) + (B) \times (C) \times (E)$$

TC= Termination Charge

A = Production rate base allocated to Navy as a percent of GPA total Production rate base used in the cost of service study in the rate case prior to the date of termination.

B = Transmission rate base allocated to Navy as a percent of GPA total Transmission rate base used in the cost of service study in the rate case prior to the date of termination.

C = The sum of the annual principal payments for the period of time between the termination date and the end of the term of the then current Agreement, associated with all GPA debt incurred since the effective date of the initial Customer Service Agreement between GPA and Navy.

D = Fraction of GPA rate base that was associated with the Production functions, for facilities that were commonly allocated to Navy and non-Navy customers in the GPA cost of service study in the rate case prior to the date of termination. Any facilities donated or financed by Navy will be excluded from the calculation of this fraction.

E = Fraction of GPA rate base that was associated with the Transmission functions, for facilities that were commonly allocated to Navy and non-Navy customers in the GPA cost of service study in the rate case prior to the date of termination. Any facilities donated or financed by Navy will be excluded from the calculation of this fraction.

18.2 In addition to the above payment for commonly allocated generation and transmission assets, Navy will make a termination payment for facilities, provided subsequent to the effective date of this Agreement, and used exclusively to serve Navy, in accordance with the Federal Acquisition Regulation governing termination liability as follows:

- (a) If GPA furnishes and installs at its expense new facilities used exclusively to serve Navy, GPA will provide a list of facilities which will be mutually approved and described in Exhibit\_\_\_\_\_, attached hereto and made a part hereof,
- (b) Ownership, Operation, and Maintenance of New Facilities. Unless purchased by the Navy under the provisions of paragraph (e) of this Article, the facilities to be supplied by GPA shall be and remain the property of GPA, and at all times during the life of this Agreement or any renewals thereof shall be operated and maintained by GPA at its expense.

- (c) Termination by GPA. In the event GPA terminates this Agreement or defaults in performance, the Navy shall have no obligation to pay GPA any amount for its connection obligation pursuant to the terms of this Agreement.
- (d) Termination Prior to Completion of Facilities. In the event the Navy terminates this Agreement prior to completion of the facilities provided for herein, GPA shall be paid fair compensation, exclusive of profit, for the work performed with respect to these facilities.
- (e) Termination Subsequent to Completion of Facilities. In the event the Navy terminates this Agreement subsequent to completion of the facilities provided for herein, and prior to \_\_\_\_\_ \*\*, the Navy shall pay GPA the sum of \_\_\_\_\_ dollars\*\*\* less one of that amount for each month this Agreement remains in effect. In the event of termination, GPA shall remove within twelve (12) months any facilities located on Navy property, provided that the Navy shall have the option to purchase the facilities located on Navy property at the agreed salvage value of \_\_\_\_\_ \*\*\*\*dollars.

\*Insert identifier.

\*\* Insert the date or length of time as negotiated.

\*\*\* Insert lump sum, not to exceed cost of connection less salvage value. Include breakdown of cost by items in the Exhibit attached. Complete the fraction by inserting the number of months comprising the amortization period. A monthly amount in lieu of a fraction may be used. In that case, divide the lump sum by the number of months to derive the monthly amount and substitute the following language: 'less (insert monthly amount) dollars multiplied by the number of months service has been received and paid for prior to the date of termination. If there is a probability that the facilities furnished under the above clause may be used at a later date to serve new consumers other than the Navy and no allowance for this has been made in computing the charge, additional provision should be included in the clause to assure that the Navy receives such credits as may be equitable under the circumstances.

\*\*\*\* Insert amount

- 18.3 In addition to the termination charges in Articles 18.1 and 18.2, Navy will be subject upon early termination to settlement charges that shall be negotiated between the Parties, Such settlement charges shall be developed with consideration of the guidance of FAR Part 49 and FAR clauses 52.249-2 and 52.249-3, as well as factors specific to GPA. The PUC shall have review and approval authority, subject to the terms of Article 19.1, over termination or settlement charges.

ARTICLE 19

Disputes Resolution

- 19.1 Rate Related Disputes. Matters involving accounting practices, allow ability of costs, pricing and rates, settlement charges, and other charges and fees shall be referred to the PUC for disposition in accordance with the PUC's rule of practice and procedure. Should differences continue, either party may pursue an appeal to the Guam Superior Court and, if necessary, continue through normal judicial channels.
- 19.2 For Other Disputes, this Contract is subject to the Contract Disputes Act of 1978, as amended (41 U.S.C. 601-613) and as contained in the provisions of FAR 52.233-1, as amended.

PENDING APPROVAL

ARTICLE 20

Wheeling and Service Exchange

- 20.1 Except as otherwise agreed and reflected in Table 1, any Navy loads that are served from GPA distribution lines will be a tariff customer of GPA and will be billed by GPA at GPA's standard rate applicable to loads of comparable size and voltage level and subject to GPA Service Rules and Regulations. These loads are not included in the minimum reserved capacity (as defined in Article 13), billing, cost of service and rate articles of this Agreement. However, Navy may switch these loads to Navy owned facilities at any time.
- 20.2 By mutual agreement, other Navy loads served from GPA distribution lines may be included in the minimum reserved capacity (as defined in Article 13), billing, cost of service and rate articles of this Agreement. In addition to the rates provided for in this Agreement for deliveries to Navy at the specified Navy delivery points, Navy will pay GPA (for the loads referenced in this paragraph) a wheeling rate as developed by GPA's cost of service study.
- 20.3 Any GPA loads that are served from Navy distribution lines shall continue to be GPA customers, and will be billed by GPA. The demand and energy of these GPA customers will be removed from Navy delivery point loads for purposes of determining Navy allocation factors in cost of service studies, and for calculating Navy rates and power billings, and will not be included in Navy's minimum reserved capacity (as defined in Article 13). For each kWh delivered to GPA customers over Navy distribution lines, Navy will be compensated by GPA at a rate equal to the total cost of Navy's distribution facilities (including return), expressed on a kWh basis, as determined annually by Navy.
- 20.4 In determining GPA's and Navy's actual demands and energy usage, any adjustments required as a result of the loads referenced in Articles 20.2 and 20.3 shall include all distribution losses up to the transmission level.

## ARTICLE 21

### Service Rules and Regulations

#### 21.1 Characteristics of Service

- 21.1.1 Alternating current service of approximate sixty (60) hertz will be regularly supplied. GPA will exercise reasonable diligence and care to regulate and maintain its frequency within reasonable limits as defined in ANSI IEEE Std 446 latest edition. (Direct current will not be supplied.)
- 21.1.2 Voltages referred to herein are cited at nominal levels as normally intended to be delivered. Actual levels may vary within acceptable industry limits as defined in ANSI C84.1 latest edition.
- 21.1.3 The type of service available at any particular location shall be dependent on the size and nature of the load.
- 21.1.4 Service locations are listed in Table 1. The Navy may, at any time, by written request and standard GPA service application process, designate additional or delete existing service locations.

The Contracting Officer may issue an administrative modification to amend Table 1 where:

- (1) Table 1 changes are required because of an additional service location or termination and;
- (2) revisions are mutually agreed upon and signed by the Contracting Officer and the General Manager of GPA and;
- (3) added or deleted service locations have completed the GPA service application process.

21.2 Phase and Voltage Specification. Services will be provided at 34.5 kV three phase, three wire, except as noted in Table 1.

#### 21.3 Equipment Protection

- 21.3.1 Protection of Navy's Facilities. The Navy is responsible for furnishing, calibrating, installing, inspecting and keeping in good and safe condition at its own risk and expense, all appropriate protection devices of any kind or character, which may be required to properly protect the Navy's facilities. GPA will not be responsible for any loss or damage caused by the negligence or wrongful act of the Navy or Navy's agents, employees or licensees in omitting, installing, maintaining, using, operating or interfering with any such protective devices.
- 21.3.2 Protection from Service Interruptions. The Navy is responsible for selecting and installing the protective devices as necessary to coordinate properly with GPA's protective devices to avoid exposing other customers to unnecessary service interruptions.

#### 21.4 Interference with Service

- 21.4.1 Voltage. If the Navy operates equipment which causes detrimental voltage fluctuations, Navy must reasonably limit those fluctuations. The Navy will be required to provide whatever corrective measures are necessary.
- 21.4.2 For Added Voltage Control. Where the Navy requires special facilities to provide increased service reliability or voltage control with unusual close limits, the Navy will provide those facilities at their own expense.
- 21.4.3 Current. If the Navy superimposes a current of any frequency upon any part of its electric system, other than the current supplied by GPA, Navy shall, at its expense, prevent the transmission of such current beyond its electrical system.
- 21.5 Other Conditions of Service. The Navy's loads shall be balanced on the three phases in accordance with good engineering practice. Actual levels may vary within acceptable industry limits as defined in ANSI C84.1 latest edition.
- 21.6 Billings for Electric Utility Service
  - 21.6.1 Navy is required to pay the charges assessed in accordance with this USC, payments hereunder shall not be paid in advance of services rendered. The power billing and/or cost summary that GPA renders to Navy will contain sufficient detail and supporting work papers to allow complete review by Navy.
  - 21.6.2 Billing Period. Electric utility services will be billed monthly. The billing will be provided by GPA to Navy within twenty-one (21) working days of the end of the month to which the billing relates and in accordance with Article 5.
    - 21.6.2.1 All bills shall be paid promptly. All bills are due and payable upon presentation, and are past due if unpaid fifteen (15) days after presentation.
    - 21.6.2.2 Whenever payment of a regular bill for electric service is received after 5:00 P.M. of the date specified in the original bill as the date such payment is due, GPA shall assess a late payment charge.
    - 21.6.2.3 Navy shall pay the same late payment charges required of other customers of GPA.
    - 21.6.2.4 The amount of the late payment charge shall be determined from time to time by GPA, and it shall be approved by GPA's Board of Directors and the PUC before being implemented.
  - 21.6.3 Metered Service. Bills for metered service will be based on meter registration. Meters will be read as required for the preparation of regular bills.
  - 21.6.4 Estimated Bills. If, because of unusual conditions or for reasons beyond its control, GPA is unable to read the Navy's meters on the scheduled reading date, GPA may bill the Navy for estimated demand and consumption during the billing period, and make any necessary corrections when a reading is obtained. Estimated demand and consumption for this purpose will be calculated considering the Navy's prior usage. Adjustments for any under or overestimate of a Navy's demand and consumption will be reflected on the next

regularly scheduled billing based on an actual reading following the period of inaccessibility.

21.6.5 Conjunctive Billing. The Navy's billing will be on a conjunctive basis.

#### 21.7 Meter Test

21.7.1 GPA will conduct meter testing to ensure accurate meter registration.

##### 21.7.2 National Standards

21.7.2.1 Meters and associated metering devices will be tested by GPA personnel in conformity with the standards of the American National Standards Institute Code for Electricity Metering (ANSI) C12.1 latest edition, and American National Standards Institute for Electricity Meters - 0.2 and 0.5 Accuracy Classes (ANSI) C12.20 latest edition.

21.7.2.2 GPA will test meters individually and verify proper performance and accuracy in accordance with ANSI C12.1/C12.20 requirements. No meter will be placed in service or allowed to remain in service if found not in compliance with ANSI C12.1/C12.20 accuracy standards.

21.7.2.3 GPA will not install a meter which is known to be defective. The capacity of the meter and the index mechanism shall be consistent with the Navy electric power requirements.

21.7.3 Testing Removed Meters. When deemed necessary, meters and/or associated devices will be tested after they are removed from service. These tests will be done before the meters and/or associated devices are adjusted, repaired or retired. No meter will be allowed to remain in service which is found to have an error in registration in excess of the prescribed tolerance limit.

21.7.4 Navy Requested Test. Navy may request GPA to test their electric meter at no charge once every six (6) months. The cost of any additional tests will be borne by the Navy if the percentage of error is found to be within ANSI C12.1/C12.20 standards. Tests will be conducted within ten (10) working days of receipt of request.

21.7.5 Test Report. The Navy will have the right to witness GPA's test of the meter or, if it desires, have the presence of an expert or other representative appointed by the Navy. A report giving the results of the test will be provided to the Navy within ten (10) working days of the test. A copy of the report, together with a complete record of each test, will be kept on file by GPA for at least three (3) years.

#### 21.8 Adjustment of Bills

##### 21.8.1 For Meter Error

21.8.1.1 If, after testing, any meter is found to be registering more than ANSI C12.1/C12.20 standards, GPA will refund or credit to the Navy the overcharge based on corrected meter readings for the period in which the meter was in use,

not to exceed one hundred eighty (180) days, unless it can be shown that the error was due to a particular cause, the date of which can be reliably established or computed back to but not beyond that date, and in no case beyond twelve (12) months.

- 21.8.1.2 If, after testing, a meter is found to register less than ANSI C12.1/C12.20 standards, GPA's billing adjustment will be for electric energy consumed up to one hundred eighty (180) days prior to date of test. If the actual period of error has been determined to exceed one hundred eighty (180) days, the adjustment will cover that total period, but in no case beyond twelve (12) months.

#### 21.8.2 For Billing Error

- 21.8.2.1 If the Navy is overcharged as a result of incorrect reading of the meter, incorrect application of the rate schedule, incorrect connection of the meter, incorrect multiplier or other similar reasons, the amount of the overcharge will be adjusted, refunded or credited to the Navy based on corrected billing for the preceding one hundred eighty (180) days, subject to the provisions of Article 21.8.2.3 below.
- 21.8.2.2 If the Navy is undercharged as a result of incorrect reading of the meter, incorrect application of the rate schedule, incorrect connection of the meter, incorrect multiplier or other similar reasons, the undercharge will be billed to the Navy based on corrected billing for the preceding one hundred eighty (180) days, subject to the provisions of Article 21.8.2.3 below.
- 21.8.2.3 When it is found that a billing error has been made, the date of which can be reliably established, the overcharge or undercharge will be computed back to but not beyond that date, and not beyond twelve (12) months.

#### 21.9 Service Connections and Facilities on Navy's Premises

- 21.9.1 All meters will be installed by GPA at approved locations on Navy's premises and will be placed so they are easily accessible for inspections, reading and testing.
  - 21.9.2 The Navy will, at its expense, provide an alternate and approved location for all meters in order to comply with the foregoing whenever the existing meter or meters becomes inaccessible for inspection, reading or testing by reason of any changes made by the Navy.
  - 21.9.3 All GPA meters and related metering equipment will be sealed by GPA and no seal will be tampered with or broken except by a duly authorized representative of GPA.
- 21.10 No Unauthorized Work. Only a duly authorized representative of GPA or a Navy employee under the direction of the GPA Chief Electric Power System Dispatcher may connect or disconnect the Navy's conductors to or from GPA's conductors.
- 21.11 Responsibility for Navy Electrical Facilities



- 21.11.1 Good and Safe Condition. The Navy will, at its sole risk and expense, furnish, install, inspect and keep in good and safe condition all electrical facilities beyond the point of delivery required for receiving electric energy, including any necessary protective devices, regardless of the location of the transformers, meters or other GPA equipment.
  - 21.11.2 Navy Side (Point of Delivery). The Navy will be solely responsible for the delivery of all electric energy on its side of the point of delivery.
  - 21.11.3 Adjusting Protective Equipment. Whenever GPA determines coordination is required between the Navy's protective equipment and that of the GPA, GPA will review and, if it approves, will agree to the arrangement and setting of the Navy's protective equipment. In the interest of service reliability to the Navy and other customers, GPA may from time to time require the Navy to submit evidence that the agreed upon coordination is maintained.
  - 21.11.4 Navy Responsibility for Actions. GPA will not be responsible for loss or damage caused by the negligence, lack of proper care or the wrongful act of the Navy, its agents, employees, or licensees in installing lines, machinery, apparatus or equipment.
  - 21.11.5 The Navy shall provide, free of charge to GPA, mutually agreeable locations on its premises for the installation of meters and such other equipment furnished and owned by GPA and necessary to supply service to Navy. GPA shall, at all times during the life of this Contract, operate and maintain at its expense such equipment or facilities as for which it has responsibility in accordance with this section, and shall assume all costs or charges in connection therewith. Notwithstanding anything to the contrary in FAR 52.241-5 (Contractor's Facilities (FEB 1995)), such equipment and facilities as for which GPA has responsibility in accordance with this section may be removed or abandoned in place.
- 21.12 Access to Premises. GPA shall have access to any premises served at all reasonable times during the continuance of this Agreement and at its termination for the purposes of installing, repairing and removing GPA's equipment, and for any other proper purpose hereunder provided, however, that Navy may limit or restrict such right of access in any manner considered by the Navy to be necessary or advisable.
- 21.13 Shortage of Electric Supply and Interruption of Delivery
- 21.13.1 Shortage and Interruption. GPA will exercise reasonable diligence and care to furnish and deliver a continuous and sufficient supply of electric energy to the Navy. However, it does not guarantee continuity or sufficiency of supply since electric service is inherently subject to interruption, suspension, curtailment and fluctuation.
  - 21.13.2 Temporary Suspension for Repairs. Whenever temporary suspension is necessary for the purpose of making repairs or improvements, GPA will notify and coordinate with the Navy and proceed as rapidly as possible to avoid Navy inconvenience.
  - 21.13.3 All outages and clearances will be coordinated through the GPA Chief Electric Power System Dispatcher who is responsible for operation of the system. The GPA Power

System Control Center Dispatcher will maintain a positive control over the work that field crews are performing and will control the related tagging and clearance approval.

21.13.4 GPA will dispatch and control the Navy joint use facilities as part of the IWPS.

21.14 Resale of Electric Energy. It is expressly understood and agreed that Navy has the right to resell electric utility services to its customers as defined in Article 2.6.

21.15 Parallel Operations. The operation of Navy generating facilities in parallel with the IWPS will be planned and coordinated with and approved by the GPA Chief Electric Power System Dispatcher.

21.16 Line Extensions. Extensions of lines necessary to furnish permanent service to the Navy will be made by modifications to this Agreement in accordance with the following provisions:

21.16.1 General

21.16.1.1 Ownership, Operation and Maintenance. GPA will construct, own, operate and maintain electric lines and equipment only under, along, upon and over public streets, roads and highways where it has the legal right to do so, and on public lands and private property across which it has otherwise obtained rights-of-way or other necessary rights satisfactory to GPA.

21.16.1.2 Special Facilities. GPA will install only those facilities which it deems necessary to render service in accordance with GPA's standard facilities for service. If the Navy requests facilities which are acceptable to GPA but are in addition to, or in substitution for, the standard facilities which GPA normally would install, the Navy shall make a contribution to cover the extra cost thereof.

21.16.1.3 Refunds. GPA will have the right to connect subsequent customers to all Navy line extensions. If these are permanent connections and are made within five (5) years of the date the line extension is energized, subsequent customers connected will be treated for purposes of extension allowance and charges as if they were included among the customers for whom the extension was originally constructed. Reallocation of these charges among the customers will be made on the same basis. Refunds, if any, to the Navy will also be made on the same basis. The line extension allowance will be calculated from a permanent customer's point of delivery toward the source of supply. No refund will be made on any contribution to GPA for any cost of line extension beyond the free length if the Navy should terminate its original request less than thirty (30) months of the date permanent power was installed.

21.16.2 Overhead Extensions

21.16.2.1 Extension Allowance. Overhead line extensions will be made by GPA at its expense provided the cost of the line required does not exceed thirty (30) months' estimated revenue derived from the line. GPA will install, own, operate and maintain the necessary meters and switching and protective

equipment at its expense, except where the Navy requests special facilities as covered by Article 21.16.1.2 above.

- 21.16.2.2 Extensions Beyond Allowance. For Overhead line extensions whose estimated cost exceeds the thirty (30) months' estimated revenue to be derived from the line, the Navy shall make a contribution equal to the difference between the estimated line cost and the thirty (30) months' estimated revenue. The estimated line cost will exclude meters, switching and protective equipment, and will be based on the route determined by GPA. When a line extension is to be installed on Navy property, the route of any portion on Navy property must be mutually agreed to by Navy and GPA.

21.16.3 Underground Extensions

- 21.16.3.1 General. Whenever underground line extensions are necessary based on customer load requirements or GPA Policy, the Navy will install supporting structures (ducts, manholes, etc.) and provide the appropriate rights-of-way. GPA will install the cables, splices and transformers only when the Navy makes a contribution of the estimated difference between the cost of the underground system and the cost to the Navy of an equivalent overhead system in accordance with Article 21.16.2.
- 21.16.3.2 Replacement of Overhead with Underground Facilities. When mutually-agreed upon by the Navy and GPA, overhead facilities will be replaced with underground facilities, provided the Navy installs all supporting structures (ducts, manholes, etc.) and makes a contribution of the estimated cost installed of the underground facilities less the estimated net salvage of the overhead facilities removed.

- 21.17 Discontinuance of Service. GPA will not provide service to electrical equipment which, when operated, will be detrimental to GPA's or another customers' equipment. GPA will discontinue service to a Navy delivery point if the Navy continues to operate the equipment at that delivery point after being notified in writing by GPA to discontinue the operation. Discontinuance of service to any Navy delivery point will in no way affect service at other Navy delivery points.
- 21.18 Ability to Serve Other Customers from Facilities on Navy Property. All facilities installed by GPA at its expense on Navy's premises for the purpose of delivering electric energy to the Navy will continue to be the property of GPA and will be removed at the termination of service. These facilities may also be used to supply other customers whether or not on the same premises, provided the proper easement agreements have been obtained.
- 21.19 Navy Responsibility for GPA's Property. In the event of loss or damage to GPA's property on the Navy's premises caused by the Navy's tenants, agents or employees, either intentionally or arising from negligence, carelessness or misuse, the cost of repairs or replacements will be at the Navy's expense.
- 21.20 Unsafe Equipment or Condition

- 21.20.1 Service Refusal. GPA will have the right to refuse or discontinue service to a GPA point of delivery to Navy if Navy wiring or other equipment at that delivery point, or the use thereof, GPA has determined is unsafe or in violation of applicable laws, ordinances, rules or regulations of any public authority. GPA can also refuse service at a GPA point of delivery to Navy if it finds that any condition on the Navy's premises at that delivery point could endanger GPA's service facilities. Refusal or discontinuance of service to any Navy delivery point will in no way affect service at other Navy delivery points.
- 21.20.2 Service Discontinued. GPA may discontinue service to a Navy delivery point immediately and without notice if GPA determines a hazardous condition exists or if the Navy threatens to create a hazardous condition at that delivery point. Service will not be restored until GPA is satisfied changes have been made to eliminate the hazardous condition. Discontinuance of service to any Navy delivery point will in no way affect service at other Navy delivery points.
- 21.20.3 Navy Notification of Defect. GPA does not assume any responsibility to inspect or repair the Navy's electrical system, other equipment or any part thereof. In the event the Navy has knowledge that its service is in any way defective, it is its responsibility to notify GPA at once. GPA will not be liable or responsible for any electrical system, appliances, facilities, or other equipment beyond the point of delivery which it does not own or maintain in accordance with these rules except for damage where GPA's characteristics of service do not meet acceptable industry limits per Article 21.1.
- 21.21 Navy will continue to allow GPA pole attachment to Navy poles. Pole attachments will be governed by the Utilities Pole Agreement established by Navy.

## ARTICLE 22

### Cybersecurity

#### 22.1 Non-Public Information/Controlled Unclassified Information (CUI)

Definition: Non-public information is defined as information that is not available to the general public. Collectively referred to as "Controlled Unclassified Information (CUI)", it includes information that is not releasable under the Freedom of Information Act (FOIA 5 U.S.C. 552), protected by the Privacy Act (5 U.S.C. 552a), classified (18 U.S.C. § 798), protected by the Procurement Integrity Act (41 U.S.C. § 423), protected by the Trade Secrets Act (18 U.S.C. § 1905), information identified as defense critical infrastructure security information (DCRIT) (10 U.S.C. § 130e), and/or information labeled "For Official Use Only (FOUO)," or "Sensitive But Unclassified (SBU)."

22.1.1 Whether generated by GPA or provided by the Navy, GPA will ensure that protective measures, marking/dissemination controls, and disposition actions for Navy CUI are in place. This includes recurring CUI training for GPA personnel and the processing, storing, or transmitting of Navy CUI on GPA Information Systems (IS). GPA will use the following publications and DoD manuals and instructions, or any updated/amended versions thereof, as guidelines:

- NIST Special Publication 800-171, revision 2, dated February 2020 including updates as of January 28, 2021
- NIST Special Publication 800-172, dated February 2021
- DoDM 5200.01, Volume 1, dated February 24, 2012, as amended
- DoDM 5200.01, Volume 4, dated February 24, 2012, as amended
- DoDI 8582.01, dated December 9, 2019

22.1.2 GPA will monitor Navy CUI for aggregation and compilation based on the potential to generate classified information and report any potential classification of aggregated or compiled CUI to NAVFACMAR.

22.1.3 GPA will ensure that only personnel with the appropriate need-to-know are granted access to Navy information.

22.1.4 GPA personnel with access to Navy CUI will sign non-disclosure agreements (NDAs) generated by NAVFACMAR stating they will safeguard and process Navy CUI in accordance with NAVFACMAR requirements. GPA will designate a person responsible for ensuring NDAs are executed, tracked, and submitted to NAVFACMAR accordingly.

22.1.5 GPA will not release any Navy information to anyone outside the organization, regardless of medium and audience, without proper approval. Requests for approval of releasable information will be submitted to NAVFACMAR and requests will identify the specific information to be released, the medium to be used, and the purpose for the release.

22.2 Work Performed on Navy Systems

- 22.2.1 GPA personnel working on Navy systems/projects will be U.S. Citizens and will properly go through an approved GPA vetting process for suitability.
- 22.2.2 GPA will provide GPA's vetting process to NAVFACMAR.
- 22.2.3 GPA personnel working on Navy systems will only be granted access to Navy systems based on GPA's defined user access roles.

22.3 GPA Representation

- 22.3.1 GPA will work with NAVFAC to achieve appropriate security clearances for GPA selected personnel in order to attend meetings deemed classified.
- 22.3.2 GPA will designate/appoint cybersecurity personnel responsible for any immediate decision making for any cybersecurity incident/event occurrence.

22.4 GPA Considerations

- 22.4.1 GPA shall consider executing best practices for release of GPA information with respect to critical infrastructure and be cognizant of CUI categories listed in the CUI Registry and risks associated with information being made publicly available.
- 22.4.2 GPA shall consider non-utilization of foreign contractors for GPA projects unless each individual has properly gone through an approved GPA vetting process for suitability.

TABLE 1

## GPA Points of Delivery to Navy

1. Agana Substation Transformer T-9 - X-48 disconnect switch, transformer side
2. Andersen Substation Transformer T-15 - X-69 Breaker, transformer side
3. Andersen Substation Transformer T-16 - X-75 Breaker, transformer side
4. Cold Storage Substation Transformer T-25 - X-332 Breaker, transformer side
5. Harmon Substation Transformer T-22 - X-83 disconnect switch, transformer side
6. Marbo Substation Transformer T-14 34.5 kV disconnect switch, transformer side
7. NCS Substation Transformer T-47 - 34.5 kV disconnect/fuse, transformer side
8. Orote Substation Transformer T-10 - X-316 Breaker, transformer side
9. Orote Substation Transformer T-11 - X-304 Breaker, transformer side
10. Orote Substation Transformer T-12 - X-308 Breaker, transformer side
11. Orote Substation Transformer T-13 - X-314 Breaker, transformer side
12. Orote Substation Transformer T-28 - X-310 Breaker, transformer side
13. Piti Substation Transformer T-8 - 34.5 kV disconnect switch, transformer side
14. Potts Junction Transformer T-110 - 34.5 kV disconnect/fuse, transformer side
15. Radio Barrigada Substation Transformer T-23 - 34.5 kV disconnect switch, transformer side
16. Radio Barrigada Substation Transformer T-24 - 34.5 kV disconnect switch, transformer side
17. Substation Transformer T-17 - X-322 Breaker, transformer side
18. Substation Transformer T-18 - X-328 Breaker, transformer side
19. P-46 riser poles LC-60 and LC-69 at South Finegayan housing\*
20. P-222 Apra Substation \*
21. P-253 Barrigada Water Booster\* (GPA Premise ID#8715407892)
22. Nexrad Facility (Eagle Field)\* (GPA Premise ID#5643500000)
23. NCTS Tele Hut Bldg 1067, Adelup \* (GPA Premise ID#8364410548)
24. Apra Reservoir, Santa Rita\* (GPA Premise ID#8364410153)
25. Water Tank at South Finegayan Housing, Dededo \* (GPA Premise ID#8364410215)
26. South Finegayan Housing Self-Help Storage, Dededo \* (GPA Premise ID#8364410628)
27. New Apra Heights, Santa Rita\* (GPA Premise ID#8364410627)
28. US Navy Lift Station #5, Piti \* (GPA Premise ID#8364410163)
29. Nimitz Hill Water, Piti \* (GPA Premise ID#8364410234)
30. AF Booster Pump Station, Maite \* (GPA Premise ID#8364410788)
31. AF, LMR, Communication Facility, Piti \* (GPA Premise ID#8364410311)
32. Harmon Booster Pump Station\* (GPA Premise ID#0380654666)
33. AF Bldg. 70, Santa Rosa

\* Service at 13.8 kV

NOTE: Billing adjustments, depending upon switch positions and distribution circuit configuration, will be required.

TABLE 2

## Distribution, Emergency and Stand-by Facilities to be Retained by Navy

1. All on-base 4.16 kV, 13.8 kV and 34.5 kV distribution feeder/circuit breakers, lines, and associated buses and equipment, relaying, metering, control systems and miscellaneous equipment except as listed in Table 3, Table 4 and Table 5.
2. Agana Substation Breaker and Line P-26 to Naval Hospital
3. Andersen Substation Breaker and Line P-67 to Pole ND-30
4. Cold Storage Substation Breaker and Line P-528 to Apra Heights and Naval Base Guam (NBG) Munitions Site
5. Harmon Substation Breaker P-45
6. Harmon Substation Breaker and Line P-48 to NBG Telecommunications Site and Ritidian
7. Harmon Substation Breaker and Line P-114 to NBG Telecommunications Site
8. Marbo Substation Breaker and Line P-51 to AF Wells in the Marbo Annex
9. Marbo Substation Breaker and Line P-52 to NBG Barrigada
10. Marbo Substation Breaker and Line P-53 to Maui Wells along Marine Drive
11. Marbo Substation Breaker and Line P-54 to AF Warehouse in Marbo Annex
12. Nimitz Hill Substation Breaker and Line P-136 to Joint Region Marianas Headquarters
13. Nimitz Hill Substation Breaker and Line P-137 to Y Puntan Housing Area
14. Nimitz Hill Substation Breaker and Line P-138 to Naval Hospital
15. Piti Substation Breaker and Section of Line P-1 north to Asan Water Pump Station
16. Piti Substation Breaker and Line P-2 to NBG Apra Heights
17. Piti Substation Breaker and Line P-4 to Navy Dispatch Control Center
18. Piti Substation Breaker and Line P-6 to Nimitz Hill
19. Step down 34.5 kV transformers

|               |                      |
|---------------|----------------------|
| T-8 Piti      | T-17 SRF             |
| T-9 Agana     | T-18 SRF             |
| T-10 Orote    | T-22 Harmon          |
| T-11 Orote    | T-23 Radio Barrigada |
| T-12 Orote    | T-24 Radio Barrigada |
| T-13 Orote    | T-25 Cold Storage    |
| T-14 Marbo    | T-28 Orote           |
| T-15 Andersen | T-47 NCS             |
| T-16 Andersen | T-110 Potts Junction |

20. Orote Power Plant
21. Harmon Substation Breaker P-113 Bus Tie



TABLE 3

Navy Joint Use Generation and Transmission Facilities

1. Breakers X-1 through X-3, X-8 through X-14 and X-20 through X-24 at Piti Substation
2. Transmission line between breakers Piti X-23 and Agana X-43
3. Transmission line between breakers Piti X-24 and Agana X-40 via Anigua Substation
4. Transmission line between breakers Agana X-45 and Radio Barrigada X-55
5. Breakers X-40, X-41, X-42, X-43, X-45, X-46, X-47 and X-49 at Agana Substation
6. Transmission line between breakers Agana X-41 and Harmon X-81 via GIA T Substation
7. Transmission line between breakers Agana X-42 and Harmon X-80 via San Vitores Substation
8. Breakers X-80, X-81, X-82, X-84, X-86, and X-87 at Harmon Substation
9. Transmission line between breakers Andersen X-73 and Harmon X-87
10. Breakers X-70, X-71, X-72 and X-73 at Andersen Substation
11. Transmission line between breakers Harmon X-82 and Andersen X-70 via Yigo Substation
12. Transmission line between breakers Radio Barrigada X-56 and Marbo X-65
13. Breakers X-55, X-56, and X-58 at Radio Barrigada Substation
14. Breakers X-65 and X-66 at Marbo Substation
15. Breakers X-100 and X-101 at Tanguisson Power Plant
16. Transmission line between breakers Harmon X-86 and Tanguisson X-101
17. Piti Power Plant
18. Tanguisson Unit No. 1
19. Marbo Power Plant
20. The land designated as the Apra Heights Substation property
21. The land and easements used by the Cabras-Agana 115 kV transmission lines

TABLE 4

Navy 13.8 kV Distribution and 34.5 kV Assets To Be Transferred To GPA

1. Piti step down transformer T-7 (34.5kV/13.8kV; 10,500 kV A), Breaker X-7, T-7 bus, 13.8 kV breakers P-3, P-4, P-7 and one spare breaker.
2. Harmon transformer T-44 (34.5 kV/13.8 kV; 7000 kVA), Breaker X-94, Breaker P-44, Feeder P-44 and associated equipment.
3. Feeder line Piti P-1 from Piti substation to Cabras Island (section North to Asan to be retained by Navy).
4. Feeder line Piti P-7 in total.
5. Feeder line Agana P-29 in total.
6. Feeder line Agana P-31 in total.
7. Feeder line Harmon P-46 in total.
8. Feeder line Harmon P-47 from two unnumbered poles south of pole DH-17 north to pole DH-128 (any line sections not previously transferred).
9. Feeder line Marbo P-53/P-47 (any line section not previously transferred).
10. Feeder line Marbo P-54 from pole MC-29 through MC-143/PQ178.
11. Feeder line Harmon P-111 in total.
12. The line section of Nimitz Hill P-137 from pole KC-55 to pole KC-98.

TABLE 5

Navy Joint Use Assets Not Incorporated in Lease Table 3 and Table 4 to be Transferred to GPA

1. Breaker X-6 through X-7 and breaker positions X-4 and X-5 at Piti Substation
2. Breakers X-301 through X-316 at Orote Substation
3. Transmission line between breakers Piti X-20 and Orote X-311 and tap to Cold Storage X-336
4. Transmission line between breakers Piti X-21 and Orote X-315 and tap to Cold Storage X-334
5. Breaker X-48 at Agana Substation
6. Breakers X-62, X-64 thru X-67 at Marbo Substation
7. Feeder line Marbo P-54 from pole number MC-143/PQI 78 to Potts Junction
8. Breaker and Feeder line P-27 at Agana
9. Breaker and Feeder line P-30 at Agana
10. Breaker P-31 at Agana
11. Breaker P-46 at Harmon
12. Breaker P-111 at Harmon
13. Breaker P-112 at Harmon
14. Agana Power Plant containing approximately six (6) acres of land
15. An easement interest to a certain portion of property in the Municipality of Santa Rita (formerly Agat) containing approximately six and a half (6.50) acres of land stretching south and west from the easement centerline of Route 2A as shown on the GPA Tenjo Vista 34.5 kV Transmission Line routing plan
16. Transmission line between breakers Andersen X-71 and Dededo CT X-150/X- I 55 and breaker X-155
17. Breakers X-332 through X-336 at Cold Storage Substation
18. Breakers X-322 through X-328 at SRF Substation
19. Transmission line between breakers Orote X-301 and SRF X-324
20. Transmission line between breakers Orote X-309 and SRF X-326
21. Tanguisson Water Tank and water line from the Harmon Booster Pump station to the Tanguisson Power Plant
22. Harmon transformer T-21 (34.5 kV/13.8 kV; 30,000 kVA), Breaker X-85, T-21 bus, TP-21 Breaker and associated equipment
23. Breaker and line P-5 at Piti
24. An easement interest within the U.S. Government's 40-foot wide fuel line easement located at Tiyan to support GPA oil pipeline for the Tanguisson Power Plant
25. An easement interest from the intersection of Polaris Point Road and Rt. I to the NBG Polaris Point access gate
26. Breakers X-69, X-74, X-75, X-77 at Andersen Substation
27. Two pad mounted capacitor banks and associated controls at Andersen Substation
28. Grounding transformers connected to the 34.5 kV breakers at the following substations: Andersen (1 ea), Cold Storage (1 ea), Orote (3 ea), and SRF (2 ea)
29. Harmon Substation Breaker and Line P-47 to Tumon Maui Well
30. Section of Andersen Line P-67 from Pole ND-30 to Mt. Santa Rosa
31. Piti Substation T-7 Bus Tie Breaker
32. Transmission line between breakers Harmon X-90 to Andersen X-77 and the supporting infrastructure

- 33. Feeder line Radio Barrigada P-143 from pole number LR-I to LR-43
- 34. Breaker X-83 at Harmon Substation

PENDING APPROVAL

## APPENDIX A

### **Procedures for Developing the Cost to Serve the Navy and Determining Navy Rates**

#### I. Introduction

This Appendix describes the procedures to be employed to determine the cost of serving the Navy, in accordance with Article 12 of the Utility Service Contract (USC) between the Navy and GPA. The starting point for that determination is the total GPA system costs calculated as described herein. Total GPA costs will be functionalized into the categories of production, transmission, distribution, customer accounting and direct assignment, as described in Sections II and III. These costs will then be classified into customer, demand and energy components as described in Section IV and will be allocated to the Navy as specified in Section V. Rates will be developed as specified in Section VI.

References to account numbers are to the FERC Uniform System of Accounts.

GPA and Navy agree that this Appendix A will be incorporated into GPA's tariff for service to Navy. Navy agrees that this Appendix A will be revised to maintain consistency with any Guam PUC orders that affect the procedures for developing cost-of-service and rates for the Navy.

#### II. Functionalization of Rate Base Elements

Rate base elements will be functionalized as production, transmission, distribution, customer accounting or direct assignment, using the procedures specified in this Section. This direct assignment category will consist of costs uniquely incurred to serve either GP A or Navy loads. The rate base shall consist of (i)

electric plant in service, plus (ii) intangible plant, plus (iii) completed construction, less (iv) contributions in aid of construction, less (v) accumulated provisions for depreciation, plus (vi) thirteen (13) month average materials and supplies inventory, plus (vii) thirteen (13) month average prepayments, plus (viii) cash working capital equal to one-eighth (1/8) of operation and maintenance expense, excluding fuel cost,

less (ix) thirteen (13) month average retirement fund deferred contributions, less (x) thirteen (13) month average accrued payroll and employee benefits.

##### A. Plant In Service

Plant in service will be functionalized as herein described.

1. Production plant. Investment recorded in Accounts 310 through 316, 320 through 325, 330 through 336, and 340 through 346 will be functionalized to production.
2. Transmission plant. Investment recorded in Accounts 350 through 359 will be functionalized to transmission or, if applicable, direct assignment.
3. Distribution plant. Investment recorded in Accounts 360 through 373 will be functionalized to distribution or, if applicable, direct assignment.

4. General plant. Investments in general plant recorded in Accounts 389 through 398 will be analyzed to determine their specific use. Specific use property will be assigned to the production transmission, distribution, customer accounting or direct assignment functions, as appropriate. General Plant Performing a nonspecific or multiple use will be allocated to two or more of the production, transmission, distribution, customer accounting and direct assignment functions, as appropriate, on the basis of the gross plant previously assigned to these functions in Paragraphs A-1 through A-3.
  5. Intangible plant. Investment recorded in Accounts 301 through 303 will be assigned or allocated to functions using the same procedure described in Paragraph A-4 for general plant.
- B. Completed Construction  
Completed construction items will be analyzed to determine the functions to which they relate and assigned to these functions. Amounts that are unassignable will be allocated to functions on gross plant in service.
  - C. Contributions in Aid of Construction  
To the extent that plant in service balances have not been reduced to reflect contributions in aid of construction, contributions in aid of construction will be assigned as a reduction to the appropriate plant-in-service accounts and then to the appropriate function(s) as described in Paragraph A.
  - D. Accumulated Provision for Depreciation  
The accumulated provision for depreciation will be assigned to functions corresponding to the assignment of the related gross plant in service. To the extent that the accumulated provision for depreciation is not isolated by plant items or by plant account, allocations will be made between and within functions in proportion to gross plant. The accumulated provision for depreciation will be adjusted for depreciation associated with assets specifically excluded from the rate base.
  - E. Thirteen (13) Month Average Materials and Supplies Inventory  
The thirteen (13) month average materials and supplies inventory will be analyzed to determine the nature of the various materials and supplies. The inventory will be assigned to functions consistent with the gross plant in service to which the materials and supplies inventory relates. To the extent not specifically assignable, the inventory will be allocated to two or more functions, as appropriate, on the basis of gross plant.
  - F. Thirteen (13) Month Average Payments  
Thirteen (13) month average prepayments will be assigned to functions in accordance with the nature of the prepayments. Prepayments not capable of specific assignment to functions will be allocated to two or more functions, as appropriate, on the basis of gross plant.
  - G. Cash Working Capital

Cash working capital will be allocated to functions (by account) in proportion to the operation and maintenance expense (excluding fuel cost) assigned to functions in Section III-8.

H. Thirteen (13) Month Average Retirement Fund Deferred Contributions

The thirteen (13) month average retirement fund deferred contributions will be allocated to functions (by account) in proportion to the labor component of O&M expenses in Section III-8.

I. Thirteen (13) Month Average Accrued Payroll and Employee Benefits

The thirteen (13) month average accrued payroll and employee benefits will be allocated to functions (by account) in proportion to the labor component of the O&M expenses in Section III-B.

Note:

(1) Rate base items that are contributed assets shall be valued at zero cost, and the rate base shall be reduced by the full amount of any grants from any unit of the United States Government, the Government of Guam or any other source. Any grants or other deductions that cannot be traced to specific assets will be allocated to two or more functions, as appropriate, on the basis of previously allocated gross plant investment.

(2) Direct assignment investments are defined to include only those property items and related rate base elements that are used to supply service exclusively either to Navy loads or to GPA loads.

III. Functionalization of Cost of Service Elements

Cost of service elements will be functionalized as production, transmission, distribution, customer accounting or direct assignment, using the procedures specified herein.

A. Return Requirement

The return requirement (return) will be developed from the target debt service coverage ratio (DSCR). The debt service coverage ratio used to establish rates to be charged to Navy will be the same DSCR found appropriate by the PUC for the GP A system and incorporated in the rates charged to all non-Navy customer classes. The return requirement will be allocated to functions in proportion to the rate base assigned or allocated to functions in Section II above.

B. Operation and Maintenance Expenses

Operation and maintenance expenses will be assigned to functions as specified herein. In functionalizing O&M expense, the 'labor' component and the 'other' (remaining) component of each account will be separately functionalized and tracked. Supervision and engineering expenses will be allocated to the related accounts in proportion to the labor component of those accounts prior to accomplishing the functionalization in III.B .1 through 5 below<sup>1</sup>.

1. Production O&M expenses. Expenses recorded in Accounts 500 through 507, 510 through 514, 517 through 525, 528 through 532, 535 through 545, 546 through 550, 551 through 554,

---

<sup>1</sup> For example, expenses recorded in Account 560 (Transmission Operation Supervision and Engineering) will be allocated to the other transmission operation expense accounts (561-567).

and 555 through 557 will be assigned to the production function. Cost elements that are recovered through the fuel adjustment clause shall be excluded.

2. Transmission O&M expenses. Expenses recorded in Accounts 560 through 573 will be assigned to the transmission function or, if applicable, to the direct assignment function. To the extent not specifically identifiable, the allocation of transmission expenses between the transmission function and the direct assignment function will be on the basis of gross plant.
3. Distribution O&M expenses. Expenses recorded in Accounts 580 through 598 will be assigned to the distribution function or, if applicable, to the direct assignment function. To the extent not specifically identifiable, the allocation of distribution expenses between the distribution function and the direct assignment function will be on the basis of gross plant.
4. Customer Accounting, Customer Service and Information and Sales O&M expenses. Customer Accounting expenses recorded in Accounts 901 through 905, Customer Service and Information expenses recorded in Accounts 907 through 910 and Sales expenses recorded in Accounts 911 through 916 will be assigned to the customer accounting function.
5. Administrative and General Expense. Expenses recorded in Accounts 920 through 931 and 935 will be specifically analyzed to determine whether they relate to the production, transmission, distribution, customer accounting or direct assignment functions. Amounts not specifically associated with one of these functions will be allocated to two or more of these functions, if applicable, in proportion to the labor component of the operation and maintenance expense associated with these other functions.

C. Depreciation Expense

Depreciation expense will be assigned to the various functions as specified herein.

1. Production plant. Depreciation expense associated with production plant will be assigned to the production function.
2. Transmission plant. Depreciation expense associated with transmission plant will be assigned to the transmission function or, if applicable, to the direct assignment function, in proportion to gross plant.
3. Distribution. Depreciation expense associated with distribution plant will be assigned to the distribution function or, if applicable, to the direct assignment function, in proportion to gross plant.
4. General plant. Depreciation expense associated with general plant will be functionalized in the same manner that the gross investment in general plant is functionalized.

Note: No depreciation expense will be included in the revenue requirement for any contributed asset (including assets transferred or to be transferred to GPA) or for assets resulting from grants from any unit of the United States Government, the Government of Guam or any other source.

D. Taxes

Labor-related taxes will be allocated to the various functions in proportion to the labor component of the O&M expenses for the various functions. Other taxes will be allocated to the various functions in proportion to gross plant.



- E. Other Income and Expense, and Other Cost of Service Elements Other income and revenue will be a credit to cost of service. Interest income, Allowance for Funds Used During Construction (AFUDC) or equivalent carrying charges on construction expenditures will be allocated to functions in proportion to rate base; wheeling revenue will be assigned to the distribution demand functions; pole rentals will be assigned to the distribution demand functions; and other items will be specifically assigned, consistent with cost of service principles, or allocated in proportion to rate base if they cannot be specifically assigned.

Other expenses will be an addition to cost of service. Capital-related items will be allocated in proportion to rate base; wheeling expense will be assigned to the distribution demand category; and other items will be specifically assigned, consistent with cost of service principles, or allocated in proportion to rate base if they cannot be specifically assigned.

Other cost of service items are those specifically identified by the PUC and included in determining GP A's revenue requirement. These may include additions to cost such as capital improvement projects, contingencies and equity sinking funds and may also include reductions in expenses such as prior years cash and payment on government of Guam notes. This list of other cost of service items is for purposes of illustrations and is not intended to be all inclusive.

F. Total Cost of Service

The total cost of service by function will be the sum of the functionalized costs in Paragraphs A, B, C, D and E of Section III.

IV. Classification of Costs

The functionalized costs as developed in Section III will be assigned to the customer, demand and energy classifications as specified herein.

A. Operation and Maintenance Expense (including labor-related taxes)

1. Production O&M expense. The following elements of O&M expense from the production function (including labor-related taxes, related administrative and general expenses and allocated supervision and engineering expenses, but excluding cost elements recovered through the fuel adjustment clause) will be assigned to the energy classification: all of Accounts 501,503,504,512,513,514,518,521,522,530,531,532,543, 544, 545 and 541; the non-labor component of Accounts 502,505,519,520,523 and 538; and the as billed energy component of Account 555. All other expenses will be assigned to the production-demand classification.
2. Transmission O&M expense. All O&M expense (including labor-related taxes, related administrative and general expenses and allocated supervision and engineering expenses) from the transmission function will be assigned to the transmission-demand classification.
3. Distribution O&M expense. All O&M expense (including labor-related taxes, related administrative and general expenses and allocated supervision and engineering expenses) from the distribution function will be assigned to the distribution-demand classification. If this study

is to be used as a basis for determining the rates charged to other GPA customers, further classification into demand and customer components would be appropriate.

4. Customer accounting O&M expense. All O&M expense (including labor-related taxes, related administrative and general expenses and allocated supervision and engineering expenses) from the customer accounting function will be assigned to the Customer classification. Uncollectible expenses will be specifically isolated and treated as a sub classification of customer accounting expenses.

5. Direct assignment O&M expense. All O&M expense (Including labor-related taxes, related administrative and general expenses and allocated supervision and engineering expenses) from the direct assignment function will be separately isolated for direct assignment either to the Navy or to GPA.

B. Return, Depreciation and Other-Taxes

1. Production. Return, depreciation and other taxes associated with the production function will be assigned to the production-demand classification, except for the return, depreciation and other taxes related to the following items, which will be assigned to the energy classification: the variable portions of cash working capital, thirteen (13) month average Retirement Fund Deferred Contributions and thirteen (13) month average Accrued Payroll and Employee Benefits that are associated with energy-related O&M expense in Paragraph A of this Section.

2. Transmission. Return, depreciation and other taxes associated with the transmission function will be assigned to the transmission-demand classification.

3. Distribution. Return, depreciation and other taxes associated with the distribution function will be assigned to the distribution-demand classification for purposes of this study. If this study is also to be used as a basis for determining the rates charged to other GPA customers, further classification into demand and customer components would be appropriate.

4. Customer accounting. Return, depreciation and other taxes associated with the customer accounting function will be assigned to the customer classification.

5. Direct assignment. Return, depreciation and other taxes associated with direct assignment investment will be assigned to the customer or demand classification, as appropriate.

V. Allocation of Functionalized and Classified Costs to the Navy

Functionalized and classified costs will be allocated to the Navy as specified herein.

A. Production demand-related costs will be allocated to the Navy using the twelve (12) coincident peak method, unless the cost allocation methodology for Production demand costs is revised under Article 12.6. Allocation of GPA production demand-related costs to Navy will be set equal to the ratio of the sum of Navy demands in each month coincident with the GPA system peak, to the sum of the monthly maximum demands of the GPA system (all measured at or adjusted to the transmission level) multiplied by the total test year demand-related costs.

B. Transmission demand-related costs will be allocated to the Navy using the twelve (12) coincident peak method, unless the cost allocation methodology for Transmission demand costs is revised under Article 12.6. Allocation of GPA transmission demand-related costs to Navy will be set equal to the ratio of the sum of Navy demands in each month coincident with the GP A

- system peak, to the sum of the monthly maximum demands of the GPA system ( all measured at or adjusted to the transmission level) multiplied by the total test year demand-related costs.
- C. Distribution demand-related costs. No portion of these costs will be assigned or allocated to the Navy.
  - D. Production energy costs. The allocation of energy-related costs to Navy will be set equal to the total of kilowatt-hours delivered to Navy divided by the total of all GPA kilowatt-hours delivered (all measured at or adjusted to the transmission level) times the total test year energy costs.
  - E. Customer-related costs. Customer accounting costs applicable to the Navy shall be developed from an analysis of the costs associated with meter reading, billing and customer accounting for Navy accounts. In the absence of a special study, a weighted customer allocation shall be utilized, except for those customer-related costs which can be directly assigned. The Navy shall not be assigned or allocated any uncollectible or bad debt expenses associated with any other class. The customer-related costs will include direct assignments of the costs associated with facilities dedicated solely to supplying Navy load (if any) as well as the meter reading, billing and customer accounting related to serving the Navy account.
  - F. Navy direct assignment costs. Costs identified as specifically related to the Navy will be assigned to the Navy.

#### VI. Development of Rate Applicable to the Navy

The rate components applicable to service provided to the Navy will be developed as indicated below.

- A. Customer charge. The customer component of the Navy rate will be determined by dividing the sum of the customer accounting costs from Section V-E and the customer-related Navy direct assignment costs from Section V-F by twelve (12).
- B. Energy charge. The energy rate for the Navy will be determined by dividing the energy-related costs from Section V-D by the forecasted Navy energy consumption.
- C. Demand charge. The demand charge will be developed by dividing the sum of the demand-related costs from Sections V-A and V-B and the demand-related Navy direct assignment costs from Section V-F by the forecasted Navy billing demands.
- D. The methodology for calculating rates to the Navy, and the design of rates to Navy, may be revised under the procedures specified in Article 12.

APPENDIX B

**Fuel Clause Applicable to Navy Agreement**

Navy's bill shall be subject to a charge for fuel cost. The charge will be determined by multiplying a Unit Fuel Cost times the total kilowatt hours for which the bill is rendered.

The Unit Fuel Cost will be calculated by the following formula for the current month:

$$\text{Unit Fuel Cost} = (A \pm R) \div C$$

Where:

A= Actual cost of fuel consumed in IWPS

C = Actual IWPS kWh production (loss adjusted to delivery at the 34.5 kV level)

R = Refunds or credits from suppliers

The Unit Fuel Cost will be recalculated monthly.

Actual cost of Fuel (A) for a month consists of the purchased commodity cost of fuel burned that month plus the net cost (positive or negative) of price hedging transactions such as swaps, call options and collars, plus, if applicable, other fuel cost elements used by the PUC to determine the fuel rates.

Refunds and/or credits (R) from fuel supplier shall be flowed through to Navy, and other adjustments will be made, as appropriate, to ensure that Navy pays only its proportionate share of GPA's actual fuel cost.

Fuel clause billing will be adjusted on a monthly basis to reflect the difference between the actual fuel cost and the weekly payments by Navy.

Navy will be provided a copy of the computation and support for the Unit Fuel Cost each month.

# **CABRAS 2 MAJOR OVERHAL**

# Scope of Work & Costs

| System    | Description                                                                                                                | Est. Cost   |
|-----------|----------------------------------------------------------------------------------------------------------------------------|-------------|
| Boiler    | Safety Valve Repair/Replacement                                                                                            | \$98,630    |
| Boiler    | Boiler Casing and Refractory Renewal, Including Soot Disposal                                                              | \$59,400    |
| Boiler    | Archway Tubes - 50%; Rear Water wall tubes and Boiler Water wall tube replacement                                          | \$31,574    |
| Boiler    | Gas and Air Duct Expansion Joint Replacement                                                                               | \$191,321   |
| Boiler    | 2A & 2B APH Maintenance                                                                                                    | \$87,102    |
| Boiler    | Stack Refurbishment and Support Structure Rehabilitation                                                                   | \$104,578   |
| Boiler    | Burner Front Components Renovation                                                                                         | \$545,745   |
| Turbine   | Condenser A&B banks and service water cooler inspection and jet cleaning                                                   | \$58,744    |
| Turbine   | Condenser Expansion Joint Replacement                                                                                      | \$84,842    |
| Turbine   | Turbine Generator Overhaul                                                                                                 | \$2,875,000 |
| Ancillary | Space Heater Installation for 2PT, PPT NGR; CWP control cable replacement, Inverter #2 Maintenance, misc motor inspections | \$98,754    |
| Ancillary | Service Water Cooler Cooling Water Pipes and Drain Lines Replacement                                                       | \$52,779    |
| Ancillary | 125 VDC Battery Bank Replacement                                                                                           | \$9,474     |
| Ancillary | Fire Pump                                                                                                                  | \$162,660   |
|           | TOTAL COST                                                                                                                 | \$4,960,602 |

# Cost Summary

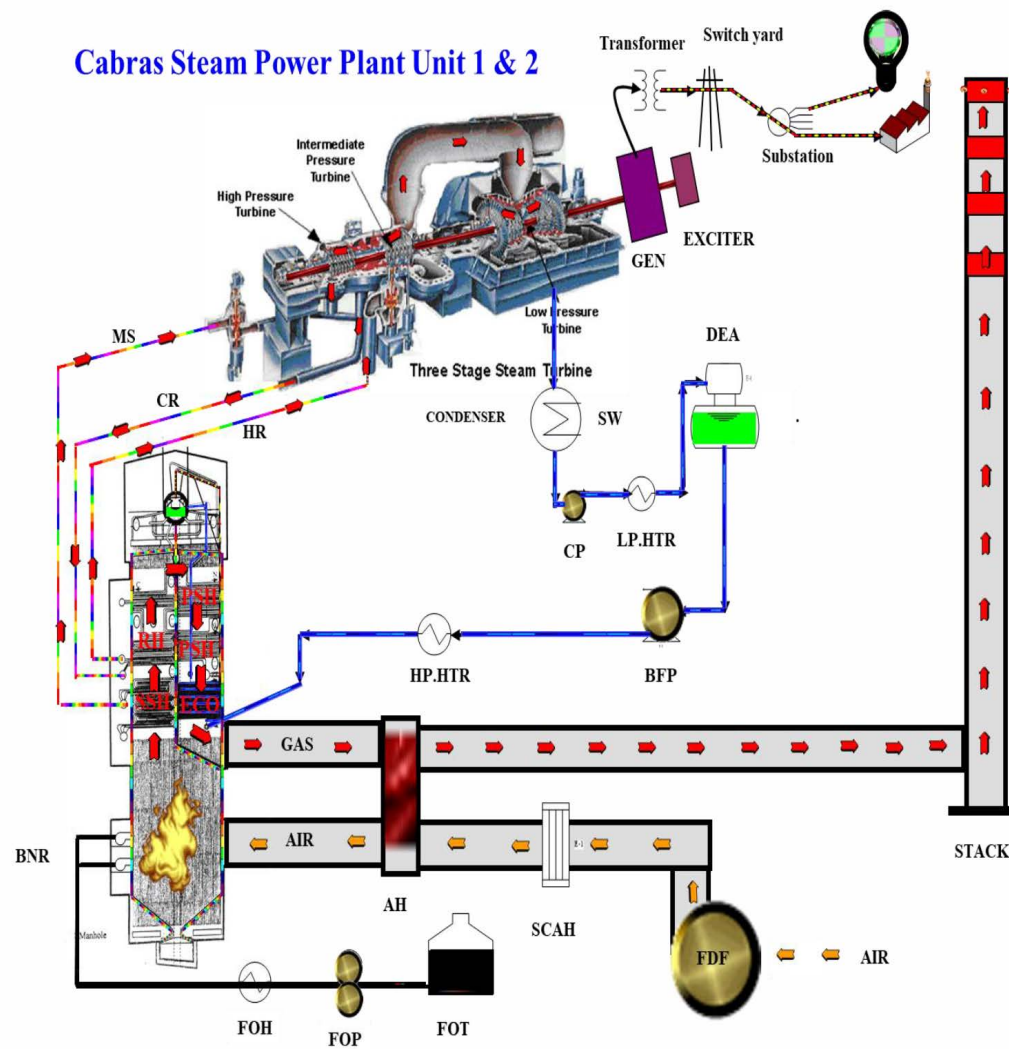
| SUMMARY Cabras 2 Overhaul |             |
|---------------------------|-------------|
| Boiler                    | \$1,618,350 |
| Turbine                   | \$3,018,586 |
| Ancillary                 | \$323,667   |
| TOTAL                     | \$4,960,602 |

# CABRAS 2 OUTAGES

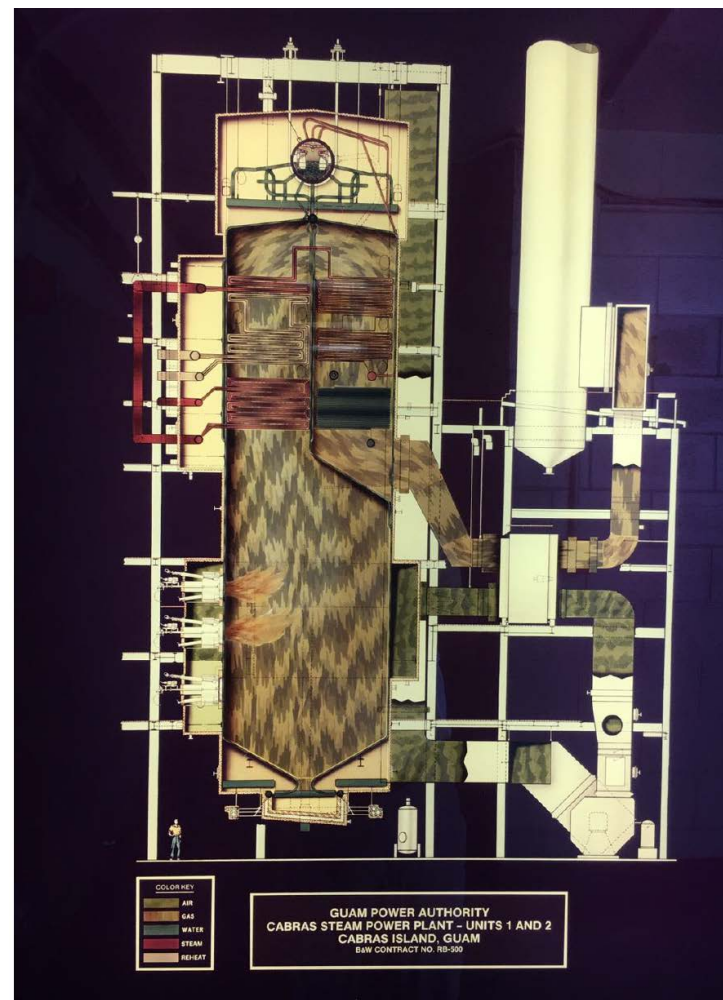
| OUTAGES |          |
|---------|----------|
| 2021    | 127 DAYS |
| 2022    | 4 DAYS   |

| OUTAGES    | Days | Reason                                                                           |
|------------|------|----------------------------------------------------------------------------------|
| 2/20/2021  | 13   | APH Cleaning, FDF Troubleshooting, Inspection                                    |
| 4/4/2021   | 4    | Boiler Tube Leaks                                                                |
| 4/18/2021  | 12   | Boiler Tube Leaks                                                                |
| 4/23/2021  | 7    | Boiler Tube Leaks                                                                |
| 5/15/2021  | 33   | Condenser cleaning, APH Cleaning, Soot blowing, Turbine and Generator Inspection |
| 7/7/2021   | 36   | Boiler Tube Leaks                                                                |
| 12/7/2021  | 20   | APH Basket Replacement 2A Hot End, Turbine & Generator Inspection                |
| 12/25/2021 | 2    | Boiler Tube Leaks                                                                |

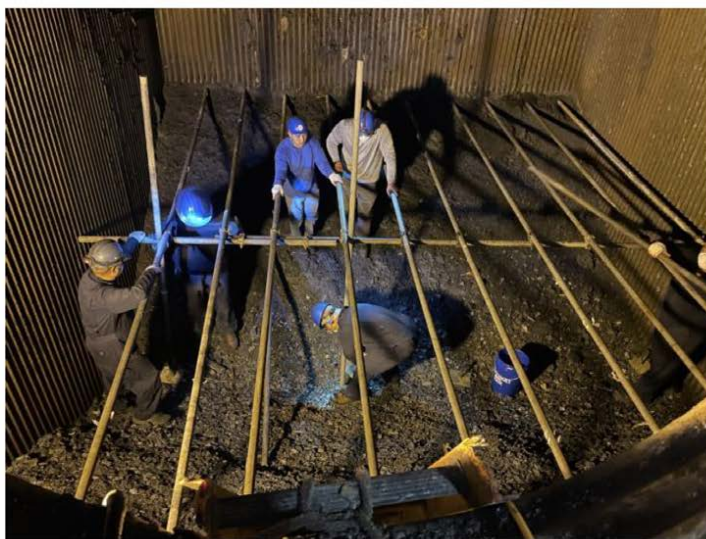




# BOILER



# BOILER TUBE LEAKS



# TURBINE

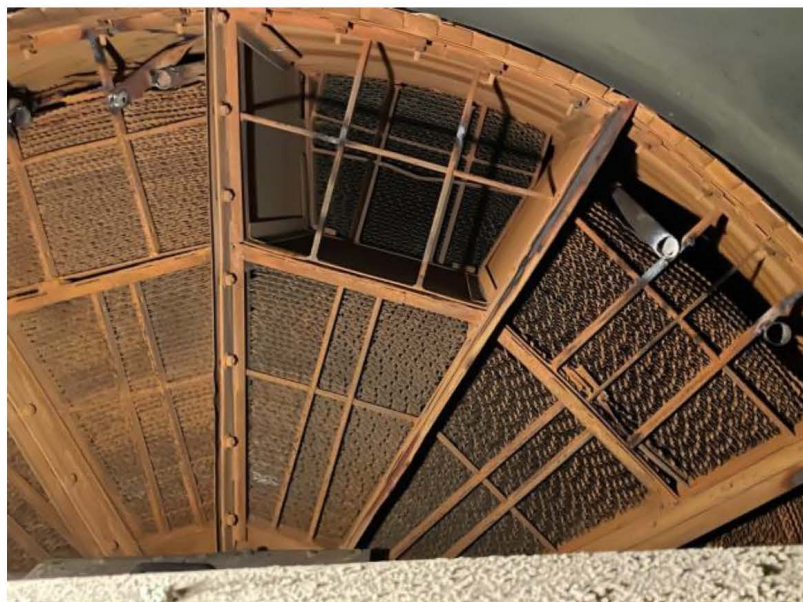


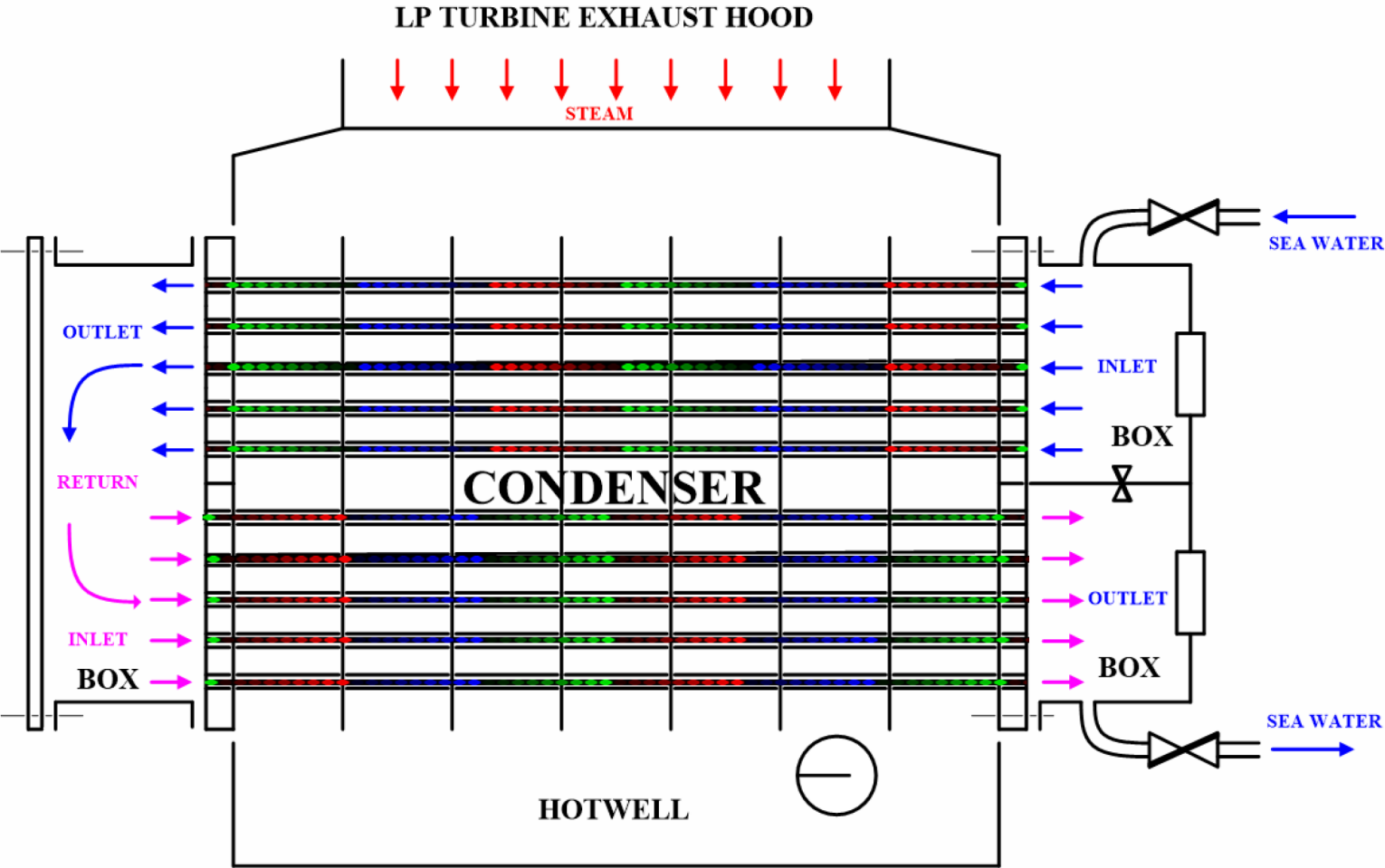


# AIR PREHEATER



# AIR PREHEATER REPAIRS NEEDED





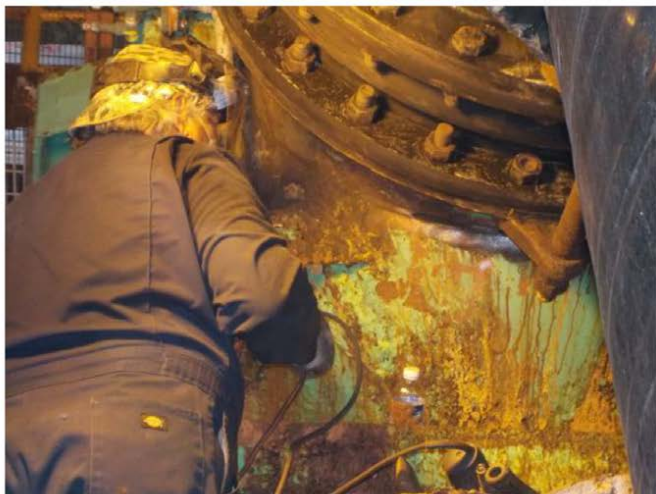




# FORCE DRAFT FAN



## SEAWATER PIPE LEAK



## CONDENSER REPAIR AND CLEAN



## FORCE DRAFT FAN REPAIRS





# GUAM POWER AUTHORITY

ATURIDÁT ILEKTRESEDÁT GUÅHAN  
P.O.BOX 2977 • HAGÁTÑA, GUAM U.S.A. 96932-2977

## Issues for Decision

### Resolution No. FY2022-07:

#### Authorizing the Guam Power Authority to Seek Approval from the PUC to Proceed with the Cabras Unit 2 Major Overhaul

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

The last Major Overhaul of Cabras Unit 2 was completed in April, 2016. Historically, the Authority would perform major overhauls every 18-24 months in order to restore plant efficiency, reliability and availability and ensure operational safety. The overhaul of Unit 2 was scheduled for March 2020 but was postponed due to the pandemic. Because it has been 6 years since the last major overhaul, the Authority has been experiencing increased occurrences of boiler tube leaks and restricted air flow that has resulted in mechanical failure and subsequently the de-rating and unavailability of the unit.

Cabras Unit 2 is critically needed to ensure GPA meets customer demand until the new Ukudu power plant is commissioned. This project will implement the major overhaul of Cabras Unit 2 scheduled for September 2022.

#### Where is at?

Cabras Unit 2

#### How much will it Cost?

The anticipated cost is \$4,960,602

| SUMMARY Cabras 2 Overhaul |             |
|---------------------------|-------------|
| Boiler                    | \$1,618,350 |
| Turbine                   | \$3,018,586 |
| Ancillary                 | \$323,667   |
| TOTAL                     | \$4,960,602 |

#### What is the funding Source?

Revenue funds

#### When will it be completed?

The anticipated schedule is as follows:

|                 |                 |
|-----------------|-----------------|
| Planned Start:  | September, 2022 |
| Planned Finish: | November, 2022  |
| Duration:       | 50 days         |



**CONSOLIDATED COMMISSION ON UTILITIES**

Guam Power Authority | Guam Waterworks Authority

P.O. Box 2977 Hagatna, Guam 96932 | (671) 648-3002 | guamccu.org

**GPA RESOLUTION NO. FY2022-07**

**AUTHORIZING THE GUAM POWER AUTHORITY TO SEEK APPROVAL FROM THE PUC TO  
PROCEED WITH THE CABRAS UNIT 2 MAJOR OVERHAUL**

**WHEREAS**, GPA entered into a Performance Management Contract (PMC) with Taiwan Electrical and Mechanical Engineering Services, Inc. (TEMES) to manage the Cabras 1&2 power plant; and

**WHEREAS**, TEMES has been the PMC for Cabras 1&2 power plant since 2002 and the last contract was entered into on October 1, 2020 and expires September 2023; and

**WHEREAS**, the last boiler and turbine overhaul for Cabras Unit 2 was completed in April 2016; and

**WHEREAS**, a boiler overhaul for the unit is recommended every 18 months and a turbine overhaul is recommended every 5 years; and

**WHEREAS**, the overhaul was scheduled in March 2020, but was postponed due to the pandemic, and

**WHEREAS**, since the last overhaul, Cabras Unit 2 has experienced unit outages and significant unit down time caused by boiler tube failures; plant safety valve failures; as well as insufficient air flow caused by gas and air duct leakage which has restricted unit output; and

**WHEREAS**, the overhaul will ensure the unit is available, reliable, efficient, and most importantly safe to operate until the new Ukudu power plant is commissioned; and

**WHEREAS**, major overhaul activities include replacement of archway tubes in the rear water wall and boiler water wall areas; replacement of gas and air duct expansion joints; maintenance of air preheaters and burner fronts; replacement of safety valves; overhaul of the turbine; cleaning of the condenser, and maintenance of ancillary services including the boiler feed pumps, force draft fans, and cooling water pipes; and

**WHEREAS**, the overhaul is scheduled for September 2022 and will last approximately 50 days; and

1       **WHEREAS**, the overhaul is necessary to maintain the reliability, availability, and safety of  
2 Cabras Unit 2, restore overall plant efficiency, and support economic dispatching of the  
3 generation system; and

4       **WHEREAS**, the total overhaul cost is anticipated to be \$4,960,602; and

5       **WHEREAS**, this project is budgeted under capital improvement funds; and

6       **WHEREAS**, approval is requested to petition the PUC to utilize CIP funds for the Cabras  
7 Unit 2 Overhaul in the amount of \$4,960,602.

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

10       1. After careful consideration, the Consolidated Commission on Utilities finds the  
11 Cabras Unit 2 overhaul to be reasonable, prudent and necessary for the reliable  
12 operation of the generating plant.

13       2. The General Manager of the Guam Power Authority is hereby authorized to  
14 petition the PUC to utilize revenue funds in the amount of \$4,960,602 for the  
15 Cabras Unit 2 overhaul

16       **RESOLVED**, that the Chairman certifies and the Secretary attests the adoption of this  
17 Resolution.

18       **DULY AND REGULARLY ADOPTED AND APPROVED THIS 25<sup>TH</sup> DAY OF JANUARY, 2022.**

19  
20 Certified by:

Attested by:

21  
22  
23 \_\_\_\_\_  
24 JOSEPH T. DUENAS  
25 Chairperson  
26 Consolidated Commission on Utilities

\_\_\_\_\_  
Michael T. Limtiaco  
Secretary  
Consolidated Commission on Utilities

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

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

7           Ayes:           \_\_\_\_\_

8           Nays:           \_\_\_\_\_

9           Absent:        \_\_\_\_\_

10          Abstain:       \_\_\_\_\_

# 2021 INTEGRATED RESOURCE PLAN

**January 2022**

# Overview

The **Integrated Resource Plan** (IRP) historically focused on the evaluating the need for new generation resources to meet future load growth, address environmental requirements and optimize costs. With the Ukudu Power Plant set for commissioning in 2024 and GPA commitment to a 50% Renewable Portfolio Standard by 2030 the focus has shifted to how to achieve additional operational savings through efficiencies and to implement projects and programs to support these as well as to support grid security, stability and reliability while achieving meaningful GHG emissions reductions.

GPA's balanced approach to reducing GHG emissions includes: ***Energy Efficiency, Renewable Energy, Grid Transformation, and Transportation Electrification.***

The American Council for an Energy Efficient Economy as well as studies performed for the US EPA maintain that the United States can achieve up to 50% of its targeted GHG emissions reductions through energy efficiency.



## Summary

- No additional generation resources are required in the next 10-20 year with New Ukudu Power Plant (CCCP & Reserve Facility)
- **To achieve 50% Renewables by 2030 would require:**
  - 300,000 MWh (188 MW Capacity) by December 31, 2025
  - 300,000 MWh (188 MW Capacity) by December 31, 2029 for **LOW** load forecast scenario or 350,000 MWh (220 MW Capacity) by December 31, 2029 for **HIGH** load forecast scenario
  - Once CCU and PUC approvals are received, GPA would issue procurements packages
  - IRP adjusted load forecast to project about 30.8 MW of solar roof top renewables thru the next 10 years
- The IRP provides a portfolio of about **\$233M** in projects and initiatives for integration of renewables.
- Synchronous Condensers are required to support increased solar penetration on the grid for grid stability. Renewable Integration Study recommendations must be completed soonest. Some existing older generators should be converted to Synchronous Condensers
- Increased optimization of infrastructure will enhance and improve operations and reduce costs
- Continued evaluation and implementation of demand side management programs and programs to address EV charging to reduce impacts on peak system, harmonics, 3-phase power unbalance, and power quality.
- CIP Budget for IT/OT Shared Services Transformation is \$2,710,280
- **The IRP provides a portfolio of projects and initiatives for:**
  - *Grid Transformation*
  - *Customer Experience Transformation*
  - *Energy Affordability Transformation*
  - *Digital Transformation*
  - *Foundational Infrastructure*

GPA Work Session - January 20, 2022 - ISSUES FOR DECISION

| Project Priority      | Project Name                                                           | Project Description                                                                                                   | Total Project Budget (\$)                       | Priority Total - No CT Capacity Retired | FY Start        | FY End |
|-----------------------|------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|-----------------------------------------|-----------------|--------|
| 1                     | Relay Upgrade                                                          | Implement RIS recommendation for reduced fault clearing time.                                                         | \$ 5,000,000.00                                 | \$ 5,700,000.00                         | 2022            | 2025   |
|                       | Adaptive Underfrequency Load Shedding (UFLS)                           | AUFLS study                                                                                                           | \$ 50,000.00                                    |                                         |                 |        |
|                       |                                                                        | AUFLS imlementation                                                                                                   | \$ 300,000.00                                   |                                         |                 |        |
|                       | Adaptive Under Voltage Load Shedding (UVLS)                            | AUVLS study                                                                                                           | \$ 50,000.00                                    |                                         |                 |        |
|                       |                                                                        | AVULS imlementation                                                                                                   | \$ 300,000.00                                   |                                         |                 |        |
| 2                     | Synchronous Condenser Conversions (Based on Leidos Report, 11/12/2021) | Macheche CT - Add clutch                                                                                              | \$ 7,732,335.96                                 | \$ 32,944,658.59                        | 2023            | 2025   |
|                       |                                                                        | Macheche CT - Demo CT and add motor/static start ** Only if retiring capacity                                         | \$ 5,485,680.22                                 |                                         |                 |        |
|                       |                                                                        | Yigo CT - Add clutch (assumed same costs as Macheche)                                                                 | \$ 7,732,335.96                                 |                                         |                 |        |
|                       |                                                                        | Yigo CT - Demo CT and add motor/static start (assumed same cost as Macheche) ** Only if retiring capacity             | \$ 5,485,680.22                                 |                                         |                 |        |
|                       |                                                                        | Dededo CT - Add clutch                                                                                                | \$ 7,732,335.96                                 |                                         |                 |        |
|                       |                                                                        | Dededo CT - Demo CT and add motor/static start ** Only if retiring capacity                                           | \$ 5,485,680.22                                 |                                         |                 |        |
|                       |                                                                        | Piti 7 CT - Add clutch                                                                                                | \$ 9,747,650.70                                 |                                         |                 |        |
|                       |                                                                        | Piti 7 CT Demo CT and add motor/static start ** Only if retiring capacity                                             | \$ 6,598,280.25                                 |                                         |                 |        |
|                       |                                                                        | Stand-alone Synchronous Condenser                                                                                     | Study in Progress to Size Synchronous Condenser |                                         |                 |        |
|                       | Standalone BESS                                                        | 75 MW/300 MWH Standalone BESS                                                                                         | \$ 131,250,000.00                               | \$ 131,250,000.00                       | 2022            | 2024   |
|                       | 3                                                                      | Grid Controller                                                                                                       | Implementation of RIS Recommendation            | \$ 1,500,000.00                         | \$ 3,300,000.00 | 2022   |
| Synchrophasor Network |                                                                        | Provide Information for Grid Controller to detect impending system instabilities                                      | \$ 1,800,000.00                                 |                                         |                 |        |
| 4                     | Malojloj - Hagatna 115 KV Line                                         | Implementation of RIS Recommendation                                                                                  | \$ 46,000,000.00                                | \$ 46,000,000.00                        | 2023            | 2026   |
| 5                     | Demand Response Programs                                               | Customer ESS Pilot Project: Use BESS to reduce demand charges for large customers. (Energy Sense Funds)               | \$ 500,000.00                                   | \$ 6,124,588.50                         | 2022            | 2025   |
|                       |                                                                        | Water Heater DLC Programs                                                                                             | \$ 3,124,588.50                                 |                                         |                 |        |
|                       |                                                                        | Streetlight Dimming Control                                                                                           | \$ 2,500,000.00                                 |                                         |                 |        |
|                       | Demand Response with GWA                                               | Use of GPA backup generation as demand response resource.                                                             | TBD                                             |                                         |                 |        |
| 6                     | Remote Start/Stop/Autostart                                            | Tenjo Vista Power Plant                                                                                               | \$ 430,000.00                                   | \$ 3,280,000.00                         | 2023            | 2025   |
|                       |                                                                        | Yigo CT                                                                                                               | \$ 950,000.00                                   |                                         |                 |        |
|                       |                                                                        | Macheche CT                                                                                                           | \$ 950,000.00                                   |                                         |                 |        |
|                       |                                                                        | Dededo CT                                                                                                             |                                                 |                                         |                 |        |
|                       |                                                                        | Piti 7 CT                                                                                                             | \$ 950,000.00                                   |                                         |                 |        |
| 7                     | Umatac Microgrid                                                       | Relocation and resiting 15-MW from Yigo to Umatac                                                                     | \$ 4,145,200.00                                 | \$ 4,220,200.00                         | 2023            | 2025   |
|                       | Self-forming Microgrid bid specifications                              | \$ 75,000.00                                                                                                          |                                                 |                                         |                 |        |
| 8                     | Solar Irradiance Sensor Network                                        | Procure Razon Solar Irradiation Sensors                                                                               | \$ 61,425.00                                    | \$ 151,425.00                           | 2023            | 2023   |
|                       |                                                                        | Build out Sensor network. Configure data communications from sensors to SCADA. Configure SCADA displays and database. | \$ 10,000.00                                    |                                         |                 |        |
|                       |                                                                        | Configure data communications from irradiance sensors to L+G AGA to compute real-time NEM PV output.                  | \$ 80,000.00                                    |                                         |                 |        |
|                       |                                                                        |                                                                                                                       |                                                 |                                         |                 |        |
|                       | TOTAL                                                                  |                                                                                                                       |                                                 | \$ 232,970,872.09                       |                 |        |

# Contents

- Volume 1 – Generation System Reliability, Adequacy and Resiliency
- Volume 2 – Generation Expansion Plan
- Volume 3 – Addendum to the 2018 Environmental Strategic Plan
- Volume 4 – Demand Side Management Plan
- Volume 5 – Medium Range Distribution Plan (TBD)
- Volume 6 – Information/Operational Technology Plan
- Volume 7 – Strategic Plan
- Volume 8 – Electric Vehicle Road Map
- Volume 9 – Net Metering Plan

# Volume 1

## GENERATION SYSTEM RELIABILITY, ADEQUACY AND RESILIENCY

An in-depth examination of GPA Generation System Reliability, Adequacy & Resiliency to determine baseline conditions is necessary to support future growth and considerations in retirement of existing units.

### **The activities in evaluating these requirements include:**

- Creation of mathematical models to analyze GPA System Reliability
- Evaluation of how the following affect overall Generation System Reliability (Peak Load Carrying Capability (PLCC))
  - GPA Legacy Generation Reliability
  - Solar PV + Energy-Shifting BESS additions
  - Retirements of Legacy Generation
- Examination of how increasing renewable energy without energy-shifting Battery Energy Storage System (BESS) affects GPA Costs and Operations.
- Evaluation of how increase additions of inverter-based systems affect the grid requirements and inverter capability requirements

## Volume 1 *(continued)*

### GENERATION SYSTEM RELIABILITY, ADEQUACY AND RESILIENCY

- Summary and consideration of the FRONTIER Project which evaluates several threat Scenarios to make recommendations to improve Guam Energy Resiliency.
- Evaluation of the need for GPA to implement a state-of-the-art AI-based Grid Controller to manage Solar PV Curtailment, Security Constrained Economic Dispatch, Automatic Generation Control, EV Charging Management, BESS charging Management, Fast Frequency Regulation/Response, Demand Response, Volt/Var Management, System Instability Detection & Proactive Response
- Other evaluations such as System Protection Needs, Demand Response Programs and EV Charging on GPA grid.

#### **The following are the recommendation and conclusions of this study:**

- Maintain a Legacy Generation Availability of 95%
- Schedule Major Maintenance during March (lowest daily System Peak & highest daily Solar PV production)
- Recommend a minimum installed reserve policy of 200 MW for Ukudu Steam Turbine Outages.
- Evaluation of Optimum Generation Outage Scheduling for Ukudu Steam Turbine Outages
- Complete the Renewable Integration Study Recommended Projects
- Implement Adaptive Under-Frequency Load Shedding (AUFLS) and Adaptive Under Voltage Load Shedding (AUVLS)
- Procure and Implement Grid Transformation Solution Projects

## Volume 2

### GENERATION EXPANSION PLAN

This plan evaluates new resource options to meet energy requirements for the next 20 years.

Summary of analysis is presented that considers various scenarios based on:

- Forecasted fuel prices
- Forecasted load requirements (MW)
- Reliability study recommendations
- Environmental strategic plan recommendations
- Consent Decree and State Implementation Plan requirements
- Renewable Portfolio Standards (RPS)
- Estimated current generating units' availability

# Volume 2 *(continued)*

## GENERATION EXPANSION PLAN

|  |                 |
|--|-----------------|
|  | + Phase III RRA |
|  | + Phase IV RRA  |
|  | + Phase V RRA   |

|                                                                                             |                 |               |                        |                          |      | Units Built: |      |      |      |      |      |      |
|---------------------------------------------------------------------------------------------|-----------------|---------------|------------------------|--------------------------|------|--------------|------|------|------|------|------|------|
| Scenario                                                                                    |                 | NPV Cost (MM) | Savings from BASE (MM) | Lowest RM after 2024 (%) | 2024 | 2025         | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 |
| Fuel Price Forecast for ULSD set to 2030 price for the rest of study period; no escalation. |                 |               |                        |                          |      |              |      |      |      |      |      |      |
| RA2-A                                                                                       | Base            | \$ 4,260.45   |                        | 94.45                    |      |              |      |      |      |      |      |      |
| RA2-B                                                                                       | Base+345        | \$ 4,054.09   | \$ 206.37              | 133.28                   |      |              |      |      |      |      |      |      |
| RA2-D                                                                                       | Base+345-Piti89 | \$ 4,010.03   | \$ 250.42              | 106.28                   |      |              |      |      |      |      |      |      |
| RA2-E                                                                                       | DC              | \$ 4,480.55   | \$ (220.09)            | 83.01                    |      |              |      |      |      |      |      |      |
| RA2-F                                                                                       | DC+345          | \$ 4,284.68   | \$ (24.22)             | 119.56                   |      |              |      |      |      |      |      |      |

Cases assume Phase 1 and 2 renewable resources online:

- **No additional renewable contracts and no existing units retiring** => No new units built for the Base Case with Base Load Forecast (A) and the Base Case with Data Center (High) Load Forecast (RA2-E)
- **Addition of Phases 3,4, and 5 renewable contracts and no existing units retiring** => No new units built (RA2-B and RA2-F)
- **Base Case with Base Load Forecast and Piti 8&9 retired** => No new units built (RA2-D)

# Volume 2 *(continued)*

## GENERATION EXPANSION PLAN

|  |                 |
|--|-----------------|
|  | + Phase III RRA |
|  | + Phase IV RRA  |
|  | + Phase V RRA   |

|                                                                                                                                                                    |                            | Units Built:  |                        |                          |      |      |      |      |      |      |      |      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------|------------------------|--------------------------|------|------|------|------|------|------|------|------|
| Scenario                                                                                                                                                           |                            | NPV Cost (MM) | Savings from BASE (MM) | Lowest RM after 2024 (%) | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 |
| <i>Fuel Price Forecast for ULSD set to 2030 price for the rest of study period; no escalation. Piti 8&amp;9 retire on 1/1/2029, all others retire on 1/1/2024.</i> |                            |               |                        |                          |      |      |      |      |      |      |      |      |
| RA2-H                                                                                                                                                              | DC+345-Piti89              | \$ 4,279.99   | \$ (19.54)             | 119.56                   |      |      |      |      |      |      |      |      |
| RA2-H_R1                                                                                                                                                           | DC+345-Piti89Piti7         | \$ 4,266.35   | \$ (5.89)              | 108.00                   |      |      |      |      |      |      |      |      |
| RA2-H_R2                                                                                                                                                           | DC+345-Piti89Tenjo         | \$ 4,257.24   | \$ 3.22                | 111.79                   |      |      |      |      |      |      |      |      |
| RA2-H_R3                                                                                                                                                           | DC+345-Piti89TenjoMDI      | \$ 4,253.37   | \$ 7.09                | 108.73                   |      |      |      |      |      |      |      |      |
| RA2-H_R4                                                                                                                                                           | DC+345-Piti89TenjoYCT      | \$ 4,235.43   | \$ 25.02               | 106.20                   |      |      |      |      |      |      |      |      |
| RA2-H_R5                                                                                                                                                           | DC+345-Piti89TenjoMDIYCT   | \$ 4,231.56   | \$ 28.89               | 103.14                   |      |      |      |      |      |      |      |      |
| RA2-H_R6                                                                                                                                                           | DC+345-Piti89Piti7Tenjo    | \$ 4,243.59   | \$ 16.86               | 100.23                   |      |      |      |      |      |      |      |      |
| RA2-H_R7                                                                                                                                                           | DC+345-Piti89Piti7TenjoMDI | \$ 4,239.72   | \$ 20.73               | 97.17                    |      |      |      |      |      |      |      |      |

- **High Load Forecast with retirement of Piti 8&9 and combination of other units (Piti 7, Tenjo, MDI, Yigo CT) => No new units built**



# Volume 2

## GENERATION EXPANSION PLAN

### Recommendations

#### **GPA must commit to:**

- Acquisition of energy from renewable resources to meet the RPS (Phase 4 RRA onwards): Renewable Energy + Energy-Shifting BESS or firm power renewable technologies
- Continuous investigation of possible unit retirements and capital improvements needed for the existing generating units
- An update of the LNG study with impact of increasing renewable energy in the system
- Complete projects recommended in the Renewable Integration Study including, but not limited to:
  - System impact studies
  - Analysis of short-circuit MVA requirements
  - Conversion of GPA's CT units into synchronous condensers
  - System protection upgrades

## Volume 3

### 2018 Environmental Strategic Plan & Addendum

The Environmental Strategic Plan (ESP) addresses the environmental regulations applicable to GPA power generating plants.

As an addendum to the 2018 ESP, GPA summarizes the most recent requirements from the April 2020 Consent Decree and the 2020 State Implementation Plan (both of which are still in progress).

**This includes the following projects:**

- Conversion of Cabras 1&2 fuel to 0.2%S RFO, and retirement after the Ukudu Power Plant is placed online
- Conversion of Piti 8&9 fuel to ULSD

Continuous monitoring and managing of USEPA regulations are required to prepare for compliance deadlines. GPA continues to research on and pursue recommendations from the 2018 Environmental Strategic Plan.

## Volume 3 *(continued)*

### 2018 Environmental Strategic Plan & Addendum

#### 2018 ESP Key Initiatives and Recommendations:

- Expanded, aggressive compliance program
- Inclusion of Fuel Supply System in GPA Continuing Obligations
- Compliance Review for Temporary Power Generation
- Asset Retirement or De-activation
- Continue work on decreasing hazardous air emissions – DSM programs, electric vehicles, renewable energy contracts, execution of compliance options for current/older power plants
- Investigation of Utility-scale and Island-wide use of Electric Vehicles
- Investigation on proper disposal of Solar PV Panels and Lithium Ion Batteries
- Regulatory Compliance and Solicitation for New Generation
- Continue tracking, monitoring of compliance requirements, Clean Power Plan (CPP), Affordable Clean Energy (ACE) Rule

## Volume 4

### Demand Side Management Plan

This Volume discusses the Demand Side Management (DSM) Program. DSM is much more than just the appliance rebate program.

#### **It consists of these major activities:**

- Energy Sense Appliance Rebate Program
- Energy Sense Appliance Residential and Small Non-Residential Energy Audit Program
- Marketing
- Metering & Verification
- Utility Energy Services Contracting (UESC)
- Grant Funded Projects
- Organizational Infrastructure
- Pilot Project Programs
- Demand-Response Programs (Future)

## Volume 4 *(continued)*

### Demand Side Management Plan

- Expanding the appliance rebate program to include commercial customers to fulfill part of PUC Order Docket 13-14.
- Reset of the current residential rebate program incentive levels to ensure that GPA is not over funding the cost of the appliances.
- Adding an online service (DSM (Online) Digitization) will allow GPA to improve the program by increasing efficiency, reduce errors, consolidate business tools, and record and extract data for analysis and reporting.
- Partnering with Siemens under UESC contract allows to provide Navy, UOG, GDOE, private schools (Guam Energy Office) with energy efficient projects and accomplishes the grant funded projects.
- Marketing allows to conduct surveys and promote the commercial rebate program and DSM Digitization
- LEAC funding enable GPA to meet the PUC's DSM mandates.

## Volume 4 *(continued)*

### Demand Side Management Plan - Commercial Rebate Levels

| Commercial Program Description                                    | Rebate (\$ Per Ton) |
|-------------------------------------------------------------------|---------------------|
| Ductless Split Air Conditioning Units                             |                     |
| ≥ 18 SEER and < 21 SEER                                           | 105                 |
| ≥ 21 SEER and < 25 SEER                                           | 135                 |
| ≥ 25 SEER                                                         | 155                 |
| Ducted Central Air Conditioning Units                             |                     |
| < 5 Ton                                                           |                     |
| ≥ 17 SEER and < 21 SEER                                           | 230                 |
| ≥ 21 SEER and < 25 SEER                                           | 300                 |
| ≥ 25 SEER                                                         | 350                 |
| ≥ 5 Ton                                                           |                     |
| ≥ 16 IEER and < 18 IEER or (≥ 11 EER and < 12 EER Expire in 2024) | 175                 |
| ≥ 18 IEER and < 20 IEER or (≥ 12 EER and < 13 EER Expire in 2024) | 230                 |
| ≥ 20 IEER or (≥ 13 EER Expire in 2024)                            | 320                 |

| Commercial Program Description                                    | Rebate (\$ Per Ton) |
|-------------------------------------------------------------------|---------------------|
| Variable Refrigerant Flow Units                                   |                     |
| < 5 Ton                                                           |                     |
| ≥ 17 SEER and < 21 SEER                                           | 230                 |
| ≥ 21 SEER and < 25 SEER                                           | 300                 |
| ≥ 25 SEER                                                         | 350                 |
| ≥ 5 Ton                                                           |                     |
| ≥ 16 IEER and < 18 IEER or (≥ 11 EER and < 12 EER Expire in 2024) | 175                 |
| ≥ 18 IEER and < 20 IEER or (≥ 12 EER and < 13 EER Expire in 2024) | 230                 |
| ≥ 20 IEER or (≥ 13 EER Expire in 2024)                            | 320                 |
| Package Rooftop Units                                             |                     |
| < 5 Ton                                                           |                     |
| ≥ 17 SEER and < 21 SEER                                           | 230                 |
| ≥ 21 SEER and < 25 SEER                                           | 300                 |
| ≥ 25 SEER                                                         | 350                 |
| ≥ 5 Ton                                                           |                     |
| ≥ 16 IEER and < 18 IEER or (≥ 11 EER and < 12 EER Expire in 2024) | 175                 |
| ≥ 18 IEER and < 20 IEER or (≥ 12 EER and < 13 EER Expire in 2024) | 230                 |
| ≥ 20 IEER or (≥ 13 EER Expire in 2024)                            | 320                 |

## Volume 4 *(continued)*

### Demand Side Management Plan - Residential Rebate Levels (Current vs. Reset)

| Programs                              | Current Rebate (\$) | Reset Rebate (\$ Per Ton) |
|---------------------------------------|---------------------|---------------------------|
| Ductless Split Air Conditioning Units |                     |                           |
| < 1 Ton                               |                     |                           |
| ≥ 18 SEER and < 21 SEER               | 100                 | 79                        |
| ≥ 21 SEER and < 23 SEER               | 200                 | 131                       |
| ≥ 23 SEER                             | 250                 | 131                       |
| ≥ 25 SEER                             |                     | 158                       |
| ≥ 1 Ton                               |                     |                           |
| ≥ 16 SEER and < 21 SEER               | 200                 | 105                       |
| ≥ 21 SEER and < 22 SEER               | 300                 | 175                       |
| ≥ 22 SEER and < 25 SEER               | 325                 | 175                       |
| ≥ 25 SEER and < 28 SEER               | 350                 | 210                       |
| ≥ 28 SEER                             | 600                 | 210                       |
| Ducted Central Air Conditioning Units |                     |                           |
| ≥ 3 Ton and < 4 Ton                   |                     |                           |
| ≥ 16 SEER and < 21 SEER               | 500                 | 140                       |
| ≥ 4 Ton                               |                     |                           |
| ≥ 18 SEER                             | 800                 | 140                       |
|                                       |                     |                           |
| Programs                              | Current Rebate      | Reset Rebate              |
| Washer Units                          | \$ 200 per Unit     | \$ 20 per Unit            |
| Dryer Units                           | \$ 200 per Unit     | \$ 40 per Unit            |

## Volume 4 *(continued)*

### Demand Side Management Plan

- DSM Digitization
  - Customer fill-out, submit rebate application form and track rebate status online
  - GPA process and approve rebate online
- UESC Contract
  - UOG Investment Grade Audit and Energy Efficient Projects
  - AAFB Energy Efficient Project
  - Navy Base Guam Preliminary Audit
  - UOG Energy Efficient Model House Pilot Project
  - B.P Carbullido Elementary School Energy Efficient Retrofit Pilot Project
  - Guam BEST School Program – GDOE and Private Schools (partnered w/ GEO)

A screenshot of the 'Energy Sense Rebate Program' application form. The form is titled 'APPLICANT'S INFORMATION' and includes a 'My Account' link. It contains several input fields for personal and contact information, including 'First Name', 'Last Name', 'Email', 'Phone', and 'Address'. There are also dropdown menus for 'City' and 'State'. A 'Submit' button is visible at the bottom right of the form.



## Volume 4 *(continued)*

### Demand Side Management Plan - On-going Projects Timeline

- Commercial Rebate Program Roll-out
- Soft Roll-out: Ductless Split and Central Ducted (under 5 ton) – June 2021
  - Central Ducted (over 5 ton), Variable Refrigerant Flow (VRF) and Package Rooftop - January 2022
- DSM (Online) Digitization Go Live - February 2022
- UOG Energy Efficient Project - June 2022
- AAFB Energy Efficient Project - January 2022
- NBG Preliminary Audit - January 2022

## Volume 5

### Medium-Range Distribution Plan

Distribution System Analysis and Planning is required to determine the impacts of distributed generation and the locational value of solar.

GPA and its Consultant, Landis + Gyr (L+G), are **Finalizing the Medium Range Distribution Plan for 6 substations on GPA's system.**

GPA and L+G will complete all 66 feeders over several fiscal years depending upon funding. As GPA gains more familiarity with using the Advanced Grid Analytics (AGA) tools, GPA will perform more of the work.

Several of the scope items in the study investigate existing and future distribution feeder issues due to distributed generation. They also provide instances of locational value of solar. In the Conservation Voltage Reduction (CVR) case, specific customer inverters can be identified for control to improve feeder voltage. These customers may be compensated for their participation.

## Volume 5 *(continued)*

### Medium-Range Distribution Plan

GPA has already put the outputs of some of the analysis to immediate use. GPA has taken the results of distribution transformer overloads analysis and begun to correct the GIS model for overloads that are obvious incorrect transformer parameters as well as fix real overloads. This process ensures that GPA has an increasingly more accurate GIS model of its distribution system. It also means that GPA can prevent customer power quality and safety issues before they cause outages or damage

AGA's voltage platform was used to identify voltage issues. Engineering has used this to change-out faulty transformers, adjust transformer taps, upgrade secondaries, and re-distribute load to regulate voltages.

## Volume 5 (*continued*)

# Medium-Range Distribution Plan

- Results for Scope Item #4 regarding Rooftop PV System impacts on the distribution system
  - Some clusters of net metering systems are causing power quality issues for neighboring non-net metering accounts including but not limited to flicker, high or low voltage, and reverse power flows.
  - As additional penetration of net metering systems are allowed on feeders, these problems become worse without mitigation.
  - Some solutions to these issues include localized energy storage, GPA control of customer inverters, and intelligent charging to support PV (EV's and distributed storage).
  - Leverage intelligent charging EV's to accommodate base load variability related to PV and reduce generation curtailment.

## Volume 5 (*continued*)

# Medium-Range Distribution Plan

- Scope Items 6 & 7
  - Volt-Var Optimization/Conservation Voltage Reduction optimization typically result in savings on both the customer side of the meter as well as on the distribution system (system losses/fuel savings)
  - Savings typically are concentrated on the customer side of the meter.
  - Deferred cost of infrastructure (medium voltage equipment), by leveraging the voltage profiles and consumer inverters, additional net benefit of VVO can be gained by using existing customer assets

## Medium Range Distribution Plan Scope

| Scope Item | Scope Description                                                                                                                                                                                                        | New Schedule                                                               |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| 1          | A System Assessment for the Advanced Grid Analytics (AGA) software application that uses Smart Meter data and GPA's GIS model to perform various distribution system analysis (GPA has several modules of ADA installed) | 11/12/21                                                                   |
| 2          | Using Landis+Gyr AGA Network Model Validator to analyze GPA feeder GIS data input to the AGA models and recommend corrections as required.                                                                               | 11/12/21                                                                   |
| 3          | Using AGA Asset Loading to perform load flow studies and find system issues such as transformer overloads.                                                                                                               | 2/24/22                                                                    |
| 4          | Using AGA Planning Case Studies to analyze Distributed Renewable Energy Intermittency and Voltage Issue Elimination or Management.                                                                                       | 2/24/22                                                                    |
| 5          | Using AGA Voltage Visualization to perform a System Wide Voltage Analysis Study.                                                                                                                                         | 2/24/22                                                                    |
| 6          | Using AGA Planning Case Studies to perform a Volt/VAR Optimization Study                                                                                                                                                 | 2/24/22                                                                    |
| 7          | Using AGA Capacity Contribution, Voltage Visualization, and Planning Case Studies to perform a Conservation Voltage Reduction (CVR) Study                                                                                | 2/24/22                                                                    |
| 8          | Using AGA Capacity Contribution and Planning Case Studies to perform a Demand Response Study                                                                                                                             | 2/24/22                                                                    |
| 9          | Perform an Automated Switching and Communicating Fault Circuit Indicator Study                                                                                                                                           | 11/12/21                                                                   |
| 10         | Consolidate the different Scope Reports into a consolidated report                                                                                                                                                       | 3/9/22<br>*Pending feedback after delivery of the individual reports above |

- **Schedule for the 6 substations (22 feeders) in scope: Apra (4 feeders), Dededo (3 feeders), Harmon (4 feeders), Pagat (4 feeders), San Vitores (4 feeders), Yigo (3 feeders)**

## Volume 6

### Information/Operation Technology Plan

The IT/OT Technology Plan is a joint effort between GPA and GWA supporting digital transformation through consolidation of Information and Operations Technology (IT/OT) services and responsibilities across GPWA. GPA and GWA hired Sheffield Scientific to assist GPA and GWA develop the IT/OT Technology Plan.

The principal thrust of Volume VI is developing a GPA/GWA Information Technology (IT) Shared Services Model to increase the operational efficiency and effectiveness of the IT organization for creating a governance, people, process, and technology infrastructure that delivers core IT services across both power and water divisions.

This report advances digital transformation for GPWA. To date, GPA and GWA have taken the initial steps to digitalize their business front ends to provide a deeper level of seamless customer service. By taking the next step of digitalizing backend operations through digital shared services, they can expand efficiently, achieve significant time savings, and avoid outsourcing.

## Volume 6 *(continued)*

### Information/Operation Technology Plan

Volume VI provides GPWA IT with roadmap to a future state with a connected and integrated efficient **IT Shared Service Model** providing consistent services, standards, and technology through a common IT roadmap. **A concise set of 38 recommendations exist for the following areas:**

- Network Infrastructure
- Security Policies and Procedures
- Applications and Software
- Operational Analysis and Network Future Design

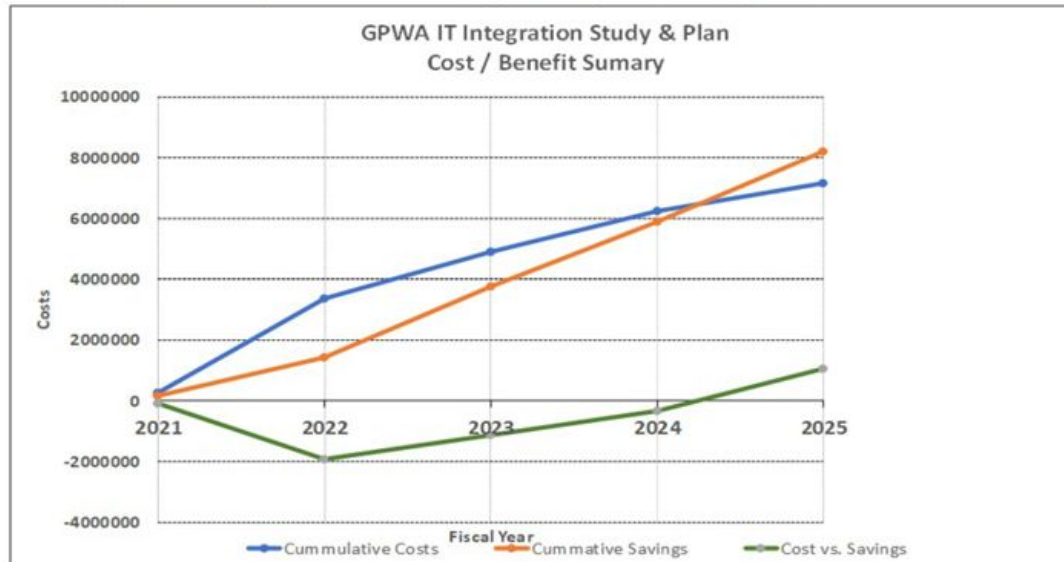


## IT Integration Study & Plan Business Case Data Summary



|                             | 2021             | 2022                | 2023                | 2024               | 2025               |
|-----------------------------|------------------|---------------------|---------------------|--------------------|--------------------|
| <b>Total Costs</b>          | <b>\$262,500</b> | <b>\$3,092,080</b>  | <b>\$1,535,380</b>  | <b>\$1,350,700</b> | <b>\$914,700</b>   |
| Capital Costs:              | \$262,500        | \$1,391,100         | \$620,680           | \$436,000          | \$0                |
| O&M Costs:                  | \$0              | \$1,700,980         | \$914,700           | \$914,700          | \$914,700          |
| <b>Total Savings</b>        | <b>\$164,580</b> | <b>\$1,259,444</b>  | <b>\$2,346,584</b>  | <b>\$2,126,444</b> | <b>\$2,311,304</b> |
| Capital Savings:            | \$164,580        | \$780,000           | \$1,469,060         | \$1,340,040        | \$1,529,900        |
| O&M Savings:                | \$0              | \$479,444           | \$877,524           | \$786,404          | \$781,404          |
| <b>Cummulative Costs:</b>   | <b>\$262,500</b> | <b>\$3,354,580</b>  | <b>\$4,889,960</b>  | <b>\$6,240,660</b> | <b>\$7,155,360</b> |
| <b>Cummulative Savings:</b> | <b>\$164,580</b> | <b>\$1,424,024</b>  | <b>\$3,770,608</b>  | <b>\$5,897,052</b> | <b>\$8,208,356</b> |
| <b>Costs vs. Savings:</b>   | <b>-\$97,920</b> | <b>-\$1,930,556</b> | <b>-\$1,119,352</b> | <b>-\$343,608</b>  | <b>\$1,052,996</b> |

\* Savings are currently based on an average between conservative and aggressive savings for a GPWA IT organization



Cost versus  
Savings for IT  
Integration  
Projects and  
Organization  
Restructure

# Volume 7

## Strategic Plan















The Strategic Plan is based on the common results of discussions over time which address GPA's mission and vision. The Mission, Vision, and Critical Success Factors /CCU Key Performance Indicators (KPIs) have not changed.

Over the next 10 years, GPA should strive to achieve goals that will improve service to our customers. These include eliminating underfrequency load shedding, reducing greenhouse gas emissions, obtaining better bond ratings, and achieving operational effectiveness across all GPA activities. **These goals can be categorized into 5 general strategic objectives:**

- Grid Transformation
- Customer Experience Transformation
- Affordability Transformation
- Digital Transformation
- Investments in Foundational Infrastructure










## GPA GRID TRANSFORMATION

### SOLUTIONS TOWARD A HIGHLY RESILIENT, RELIABLE, AFFORDABLE AND HIGH RENEWABLE ENERGY PRODUCTION GRID











|                                                                                     |                                                                                                                                                                                                                                                                |                                                                                     |                                                                                                                                                                                                                                                                                                    |                                                                                       |                                                                                                                                                                              |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | <b>Charge/Discharge-Anytime Battery Energy Storage Systems (BESS)</b> - Provides spinning reserve and frequency regulation. Greatly improves grid response to FIDVR, duck curve ramp ups, and excess solar PV production events. Provides other grid services. |    | <b>Smart Grid (SG)</b> - Advanced technology for getting the right information to the right people or systems at the right time to make the right strategic and operational decisions.                                                                                                             |    | <b>Grid Controller</b> - Optimizes all resources to provide the most benefit at the least cost. Improves system stability and system economics.                              |
|    | <b>Flexible Efficient Generation</b> - Better follows the changes in demand and available generation online especially when large intermittent sources of power are on the grid. Reduces power rates.                                                          |    | <b>Energy Efficiency</b> - Energy efficiency has a much higher rate of return than just simply installing solar PV. Putting energy efficiency first lowers energy costs for everyone.                                                                                                              |                                                                                       |                                                                                                                                                                              |
|    | <b>Energy Shifting Battery Energy Storage Systems (ES BESS)</b> - Decreases Excess Solar PV Production Events by storing 100% of energy for nighttime use; Replaces expensive production from peaking generation.                                              |    | <b>Time-of-Use (TOU) Rates</b> - Provides incentives for customers to change their electricity-use behavior to match the needs of the grid.                                                                                                                                                        |    | <b>Solar Irradiance Sensor Network</b> - Provide real-time estimates of solar PV power production. Forecast solar PV power production. Track cloud cover.                    |
|   | <b>Demand Response (DR)</b> - Adjusts customer demand up or down however needed by the grid.                                                                                                                                                                   |   | <b>Daytime Charging Electric Vehicles (EV)</b> - Prevents curtailment of synchronous generation and solar PV during excessive solar PV production events when solar PV production is high and daytime loads are low. Slows growth of system peak deferring expensive investments for new capacity. |   | <b>System Protection</b> - Improve System Protection to operate in an environment with less synchronous generation and more inverter based resources.                        |
|  | <b>Synchronous Condensers (SC)</b> - Provides Short-Circuit MVA to power system to keep the grid stable, prevents grid-tied inverter cessation, improves fault response and voltage, and allows GPA grid to operate with 100% renewable energy.                |  | <b>Microgrids</b> - Using synchronous generators and Solar PV + energy-shifting battery energy storage systems with grid forming capability to provide power after natural disasters such as typhoons especially in southern Guam.                                                                 |  | <b>Improving Generator Reliability</b> - Improving GPA generator availability results in serving more load using less generation. It also significantly lowers energy costs. |









## GPA CUSTOMER EXPERIENCE TRANSFORMATION SOLUTIONS

|                                                                                     |                                                                                                                                                                                                                                                                                                                            |                                                                                    |                                                                                                                                                                                                                                                                                                                                       |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | <p><b>Guam Transportation Electrification</b> - As customers switch to electric vehicles, their relationship with GPA becomes more critical. Designing the charging experience to delight customers will improve GPA customer experience.</p>                                                                              |   | <p><b>Customer Outreach</b> - Customers want to be informed about GPA outages, rates, and other GPA matters. Building this outreach improves GPA's relationships with its customers. It also defuses disinformation.</p>                                                                                                              |    | <p><b>Smart Grid (SG)</b> - Smart Grid systems can reduce the number of customer outages improving the GPA customer experience.</p>                                                                                                                                                                                                                                                |
|    | <p><b>Energy Shifting Battery Energy Storage Systems (ES BESS)</b> - Using BESS to provide spinning reserve and frequency regulation improves power quality and reduces customer outages improving the GPA customer experience. GPA addition of renewable energy improves customer satisfaction with GPA as a company.</p> |   | <p><b>GPWA Information/Operations Technology (IT/OT) Consolidation</b> - Reduces IT/OT capital and operating costs for GPA and GWA. Reduces costs passed onto customers.</p>                                                                                                                                                          |    | <p><b>Conversion of Manual Customer-Facing Processes to Digital Ones</b> - Customer expectations for service are being driven by the telecom, virtual commerce, and entertainment industries. Going digital improves the GPA customer experience. Going digital includes online payment portals, mobile apps, and Energy Sense online rebate application processing, and more.</p> |
|  | <p><b>Conservation Voltage Reduction (CVR)</b> - Reduces distribution system line losses lowering LEAC rates. Reduces customer energy consumption.</p>                                                                                                                                                                     |  | <p><b>Energy Efficiency</b> - Energy efficiency has a much higher rate of return than just simply installing solar PV. Customers who get rebates or who have better knowledge of the Energy Sense Appliance Rebate Program do not rate GPA as a company unsatisfactory. Getting rebates is a highly positive customer experience.</p> |  | <p><b>Energy Sense Program Outreach</b> - Customers want to be informed about energy efficiency, renewable energy, and ways to lower their power bills. Building this outreach improves GPA's relationships with its customers.</p>                                                                                                                                                |

## GPA AFFORDABILITY TRANSFORMATION SOLUTIONS










|                                                                                     |                                                                                                                                                                                                                                                            |                                                                                     |                                                                                                                                                                                                                  |                                                                                     |                                                                                                                                                                                                                                                                                            |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | <p><b>Guam Transportation Electrification</b> - Electric vehicles charging from the grid will increase GPA revenues allowing GPA to reduce rates for everyone. Reduces GPA fleet expenses for fuel and maintenance.</p>                                    |    | <p><b>Conservation Voltage Reduction (CVR)</b> - Reduces distribution system line losses lowering LEAC rates. Reduces customer energy consumption.</p>                                                           |  | <p><b>GPWA Information/Operations Technology (IT/OT) Consolidation</b> - Reduces IT/OT capital and operating costs for GPA and GWA. Reduces costs passed onto customers.</p>                                                                                                               |
|    | <p><b>Improving Generator Reliability</b> - Improving GPA generator availability results in serving more load using less generation. It also significantly lowers energy costs.</p>                                                                        |    | <p><b>Energy Efficiency</b> - Energy efficiency has a much higher rate of return than just simply installing solar PV. Putting energy efficiency first lowers energy costs for everyone.</p>                     |  | <p><b>LNG Infrastructure and Supply</b> - Greatly reduces fuel costs. Significantly lower greenhouse gas emissions. Enables Guam to bunker large gas-fueled ships. Enables Guam to be a regional natural gas hub. Increases GPA revenue streams that can be used to reduce base rates.</p> |
|   | <p><b>Daytime Charging Electric Vehicles (EV)</b> - Slows growth of system peak deferring expensive investments for new capacity resulting in lower future energy costs.</p>                                                                               |   | <p><b>Flexible Efficient Generation</b> - Better follows the changes in demand especially when large intermittent sources of power are on the grid. Reduces LEAC rates especially when using natural gas.</p>    |                                                                                     |                                                                                                                                                                                                                                                                                            |
|  | <p><b>Energy Shifting Battery Energy Storage Systems (ES BESS)</b> - Decreases Excess Solar PV Production Events by storing 100% of energy for nighttime use; Replaces expensive production from peaking generation. Lowers and stabilizes LEAC rates.</p> |  | <p><b>Smart Grid (SG)</b> - Smart Grid systems such as Mobile Workforce Management, Advanced Grid Analytics, Distribution Automation increase work productivity reducing energy costs passed onto customers.</p> |                                                                                     |                                                                                                                                                                                                                                                                                            |

## GPA DIGITAL TRANSFORMATION SOLUTIONS

|                                                                                    |                                                                                                                                                                                                                                                                                    |                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   | <p><b>GPWA Information/Operations Technology (IT/OT) Consolidation</b> - A secure, reliable, and responsive IT/OT infrastructure supported by a skilled and capable staff is critical for supporting GPA's Strategic Transformation.</p>                                           |   | <p><b>Business Analytics</b> - The Smart Grid, Energy Sense Web-sites, Internet of Things (IoT) and Third-party content providers are creating more data and information that any individual(s) can analyze the business value for GPA. The use of artificial intelligence engines with defined logic provides GPA the ability to respond in a proactive manner to grid conditions to determine the best resolution for customers.</p> |   | <p><b>Energy Sense Program Outreach</b> - Customer expectations are driven by the customer connection capabilities of the telecom, streaming entertainment, and virtual shopping industries. Building this outreach through relevant content improves GPA's relationships with its customers. The conversion of the manual Energy Sense Rebate Application process to a digital platform supports the objective of digital transformation.</p> |
|  | <p><b>Creating Organizational Alignment &amp; Fit</b> - Creating a more skilled, resilient, streamlined, and effective organization through process mapping &amp; re-engineering leveraging information and operational technology is the end goal for digital transformation.</p> |  | <p><b>Smart Grid (SG)</b> - The technology enabler for driving operational improvements and efficiencies. The Smart Grid makes possible the transition of GPA manual processes into information-based, digitally enhanced automated processes. Use of smart controls and sensors improves reliability, resiliency, and affordability.</p>                                                                                              |  | <p><b>Simulation and the Digital Twin</b> - In response to extreme natural events, the ability to work remotely along with utilize real-time simulation through a Digital Twin of an energy system allows for continuous learning to GPA engineers and operators.</p>                                                                                                                                                                          |



## GPA FOUNDATIONAL INFRASTRUCTURE SOLUTIONS

|                                                                                     |                                                                                                                                                                                                                                                                             |                                                                                     |                                                                                                                                                                                                                                                                                                                                                       |                                                                                       |                                                                                                                                                                                                                                                          |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | <p><b>Human Resource Rebalancing</b> - GPA will soon retire several power plants beginning with Cabras 1&amp;2. GPA must plan to rebalance its workforce considering the displacement of these employees. This must be well in advance of the actual plant retirements.</p> |    | <p><b>Creating Organizational Alignment &amp; Fit</b> - Creating a more resilient, streamlined, and effective organization through process mapping &amp; re-engineering. Incorporating and leveraging information technology into business processes creates the digital transformation shift.</p>                                                    |    | <p><b>Smart Grid (SG)</b> - Smart Grid is the grid's information superhighway driving operational improvements and efficiencies.</p>                                                                                                                     |
|    | <p><b>Grid Transformation Solutions</b> - Without completion of Grid Transformation Projects, the grid will not be stable, reliable, resilient, and affordable.</p>                                                                                                         |    | <p><b>Cyber and Physical Security (CAPS)</b> - Secure GPA's cyber resources. Secure GPA substations, power plants, and other critical infrastructure facilities.</p>                                                                                                                                                                                  |    | <p><b>Aging T&amp;D Infrastructure Replacement</b> - Like all other U.S. power utilities, GPA must plan for replacing its aging infrastructure. GPA should invest in an Asset Management ERP capability to guide and manage the replacement process.</p> |
|  | <p><b>GPWA Information/Operations Technology (IT/OT) Consolidation</b> - A secure, reliable, and responsive IT/OT organization and infrastructure is critical for supporting GPA's Strategic Transformation.</p>                                                            |  | <p><b>Succession Planning</b> - With over 50% of its workforce eligible to retire within five years, GPA must hire and train new employees to take over. GPA must update its job descriptions and eligibility requirements moving these jobs into the 21st century. Many jobs will have changed because of digital transformation and technology.</p> |  | <p><b>Improving Generator Reliability</b> - Achieving 95% GPA generator availability is a cornerstone for grid resiliency, reliability, and affordability.</p>                                                                                           |

## Volume 8

### Electric Vehicle (EV) Roadmap

- This Volume discusses the electrification of vehicles on Guam and the role GPA should play in order to plan and manage energy use to minimize its impact on the grid.
- With automakers releasing new electric vehicles, an Electric Vehicle Roadmap addresses the potential take off on electric vehicle sales locally by evaluating forecasted local sales, requirements for charging stations, new policies and rate incentives, as well as planning activities for execution and marketing.
- EV charging loads can have a great impact on system peaks. Incentivizing or controlling charging at more appropriate times during the day will avoid need for additional generation and could improve grid efficiency. GPA agrees with the Smart Electric Power Alliance (SEPA) recommendation that utilities avail themselves of EV Managed Charging Services.



## Survey of Local Car Dealerships Shows New Electric Vehicles Options

| Dealerships                                                                                | AK                                                                                     | CarsPlus                                             | Nissan                                                                                                                      | Triple J                                                                                   | Prestige                                                                                      |
|--------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| EV sold to date                                                                            |                                                                                        | 25                                                   | 32                                                                                                                          |                                                                                            |                                                                                               |
| EV Brands/Models Currently for Sale                                                        |                                                                                        | Hyundai Kona EV                                      | Nissan Leaf Hatch back with 220 mile range                                                                                  |                                                                                            |                                                                                               |
| Start Date of new EV Brands/Models on Sale                                                 | Chevrolet Bolt EV & EUV, January 2022                                                  | Hyundai Kona EV,                                     | Nissan Leaf Hatch back with 220 mile range, Now                                                                             | Ford, Kia, Volvo, Honda, & Commercial Vehicles, Q1 2022                                    | Subaru Solterra SUV, 2023                                                                     |
|                                                                                            | BMW i4 & iX, January 2023                                                              | Now                                                  | Ariya SUV with greater than 300 miles range, Q1 2022                                                                        |                                                                                            |                                                                                               |
| Type of charging infrastructure do you anticipate may be needed to accelerate EV adoption? | Public charging stations at high traffic areas e.g., shopping malls, banks, and hotels | Covered parking area for fast charge Level 3 systems | ... definitely access points around the island would be needed to accommodate the growing penetration of electric vehicles. | High traffic areas such as restaurants, Malls, Government Agencies, Schools & Universities | Adequate locations of charge stations that either private entities or the government operate. |

### Recommendations

- Electric Vehicle Roadmap
- Procure EV Managed Charging as a service to control EV Charging and mitigate impacts on distribution system.
- Explore behavioral incentives to shift EV charging load such as Time of Use (TOU) rates
- Execute Customer Outreach on EV including strategies on reducing charging costs and preserving battery life.
- Work with Guam Dealerships on rolling out public and Dealership charging infrastructure. GPA is already engaging dealerships and candidate providers of EV charging systems.
- Using AGA, investigate EV impacts and fixes as a guide to infrastructure placement.

## Volume 9

# Net Metering Plan

This volume provides a review and recommendation on appropriate penetration levels of customer installed solar, revisions to the current rate methodology, and to address PUC Docket **TBD**

The increase in customer installed solar has created system reliability concerns and financial impacts for **non-NEM** customers.

### **The study recommends the following:**

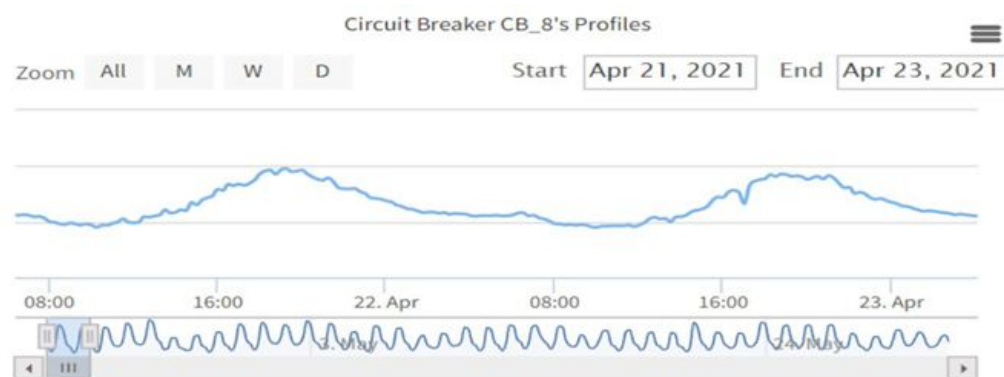
- Solar penetrations on each feeder should not exceed 30% of the minimum respective feeder daytime load
- Above 30%, new solar installations should require “smart” inverters and adequate battery storage capacity
- A value of solar rate methodology should be used to reimburse customers for solar generation
- Modify the current NEM rate methodology to either a Net Billing or Buy All/Sell ALL methodology that more accurately reflects the benefits of solar generation to GPA
- Grandfather current NEM customers for a period of 10 years

# Distributed Energy Resource (DER) Impact Study

# Agenda

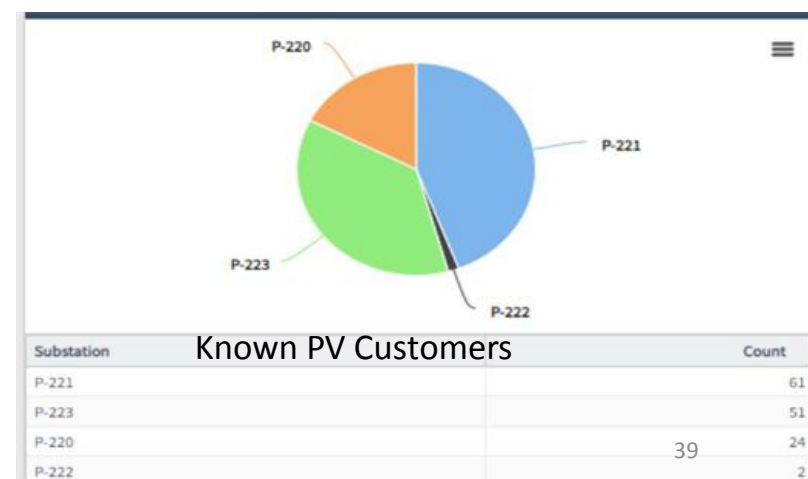
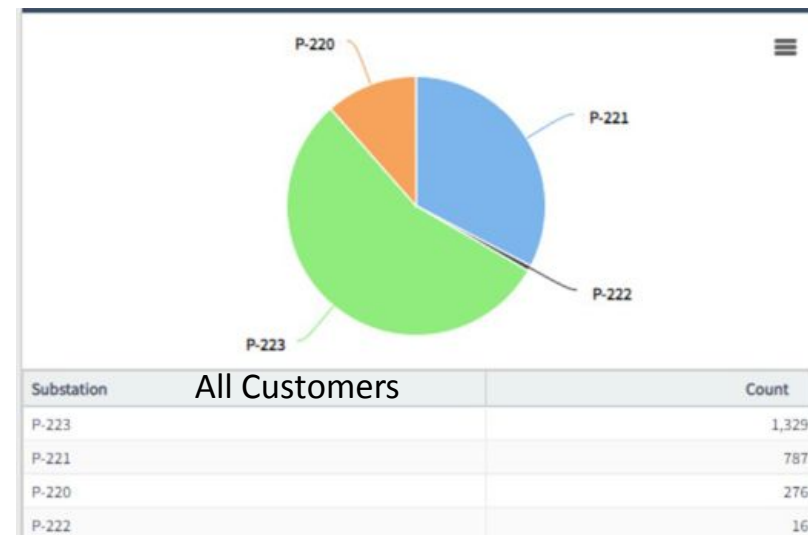
- Existing State APRA Substation
- Reserve Flow Impact
- Power Quality Impact
- Consumer Stress Impact
- Corrective Solutions

# Existing State

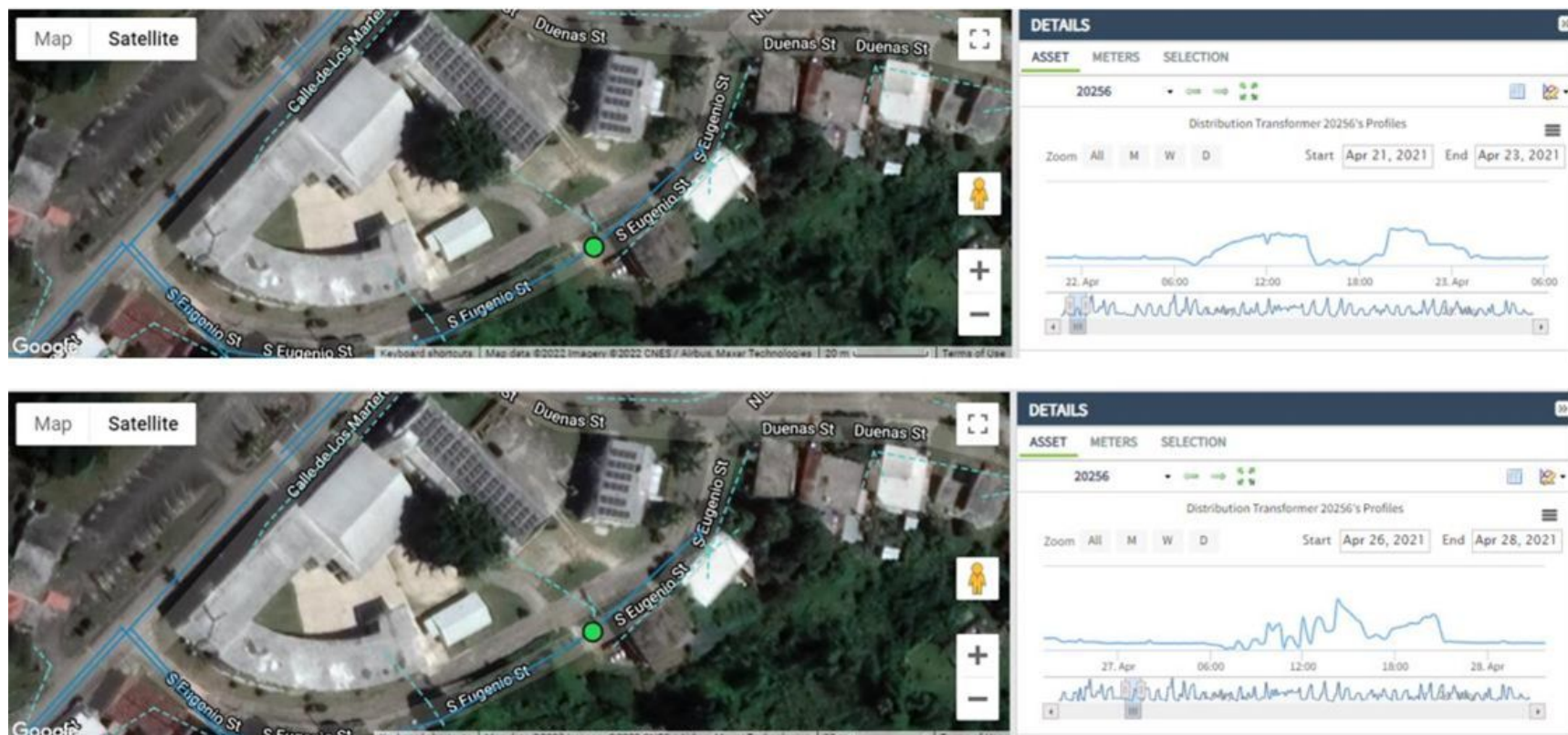


Peak Loading on this substation occurred at 21:00 04/08/2021

PV Customers Account for Approximately 1.33 MW  
(hidden or masked load)

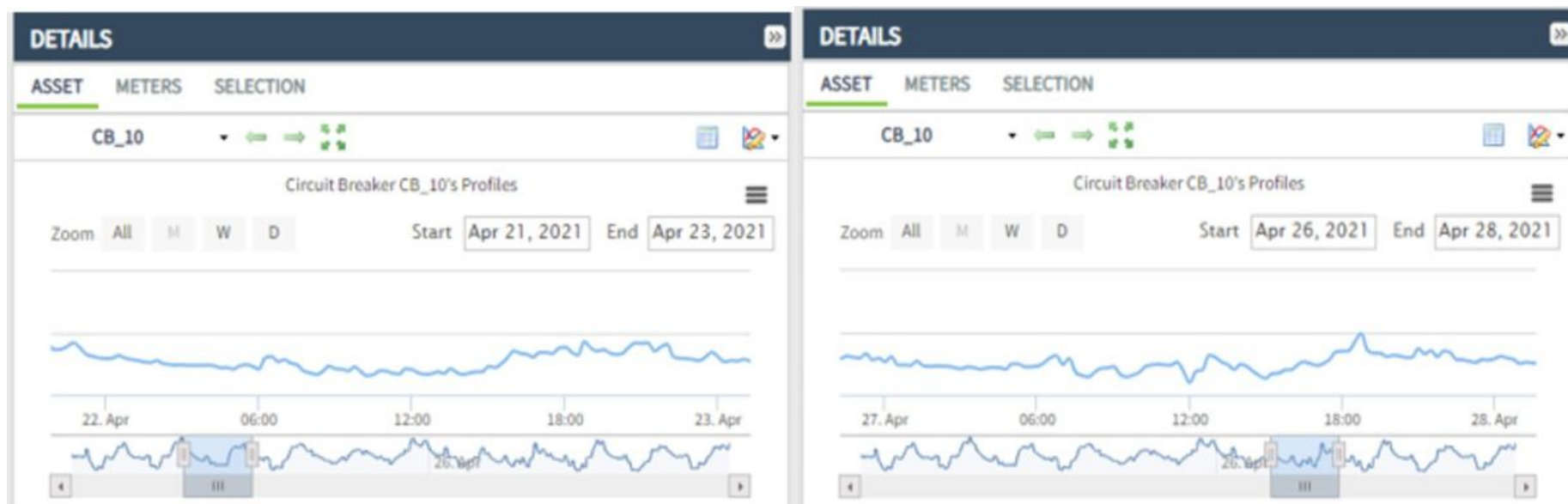


# Existing Customer Example



40

# System Example P-222





# Reverse Flow

As part of the assumptions of this study we used an assumption of 1KW for the unknown values per connected generation site. This is likely significantly higher and will drive the need to moving forward with recommendations earlier.





# Reverse Flow Impact – Host Capacity

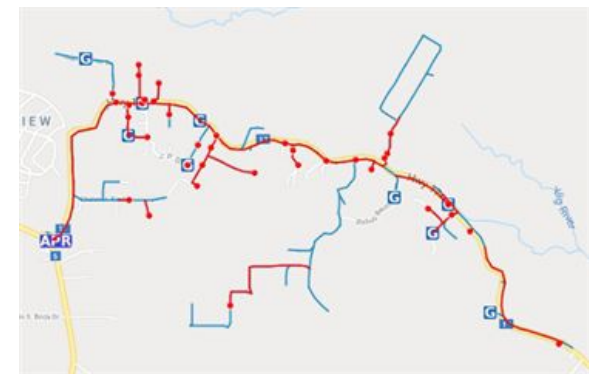
Base Case



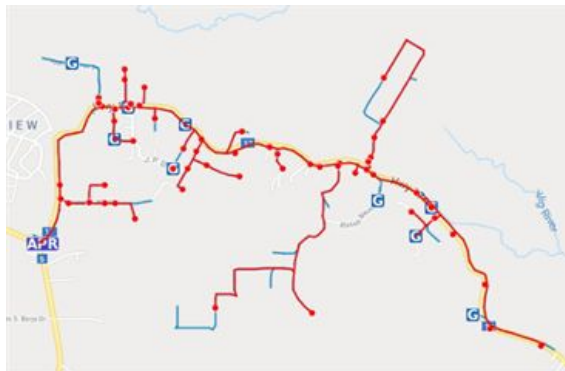
Base Case+30%



Base Case+60%



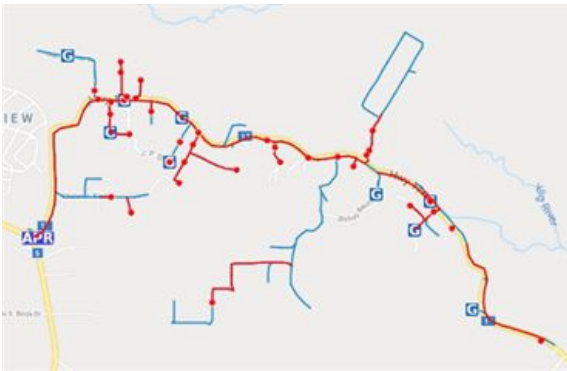
Base Case+90%



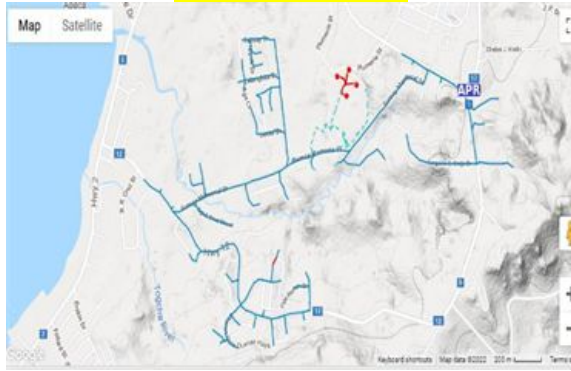
Detailed is the progression from the BC system host capacity through 30, 60, and 90. Note that on this circuit as low as 30% PV host capacity begins to cause reverse flow challenges.

# Reverse Flow Impact

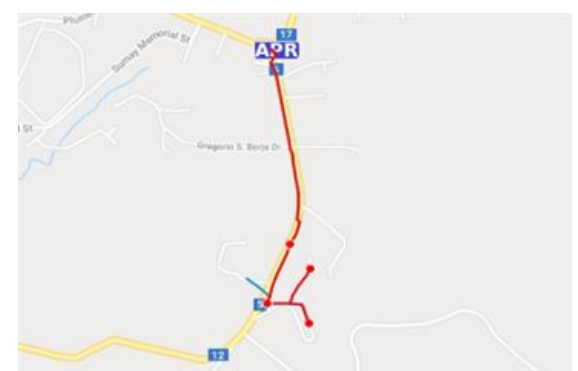
P 220 Base +60



P 221 Base +60

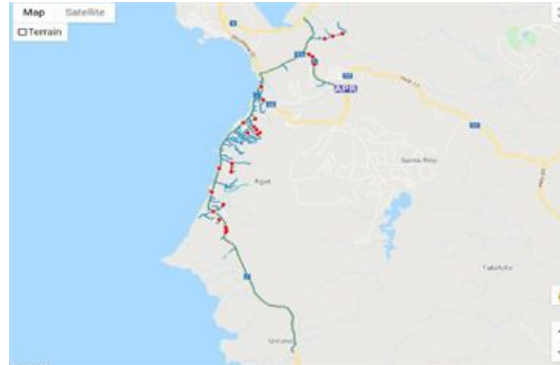


P 222 Base +60



All circuits need to be examined individually, however for APRA at 60% PV host capacity reverse flow will overtake some portions of the respective circuits. The impact varies between circuits, but all would require hardening to prevent risk to protection devices or power quality issues associated with PV fluctuations.

P 223 Base +60



256 core distribution assets will see some level of reverse flow at 60% normalized host capacity. This includes secondary/primary conductor, transformers and protection equipment. By focusing management on the transformer a reduction of reverse power flow occur.<sup>44</sup>

# Power Quality

Risks of swell voltage and  
voltage flickers



## PV Impact Contribution to Over Voltage



There is a minimum of 36 transformer banks where power quality issues associated to overvoltage from PV is causing challenges for multiple customers

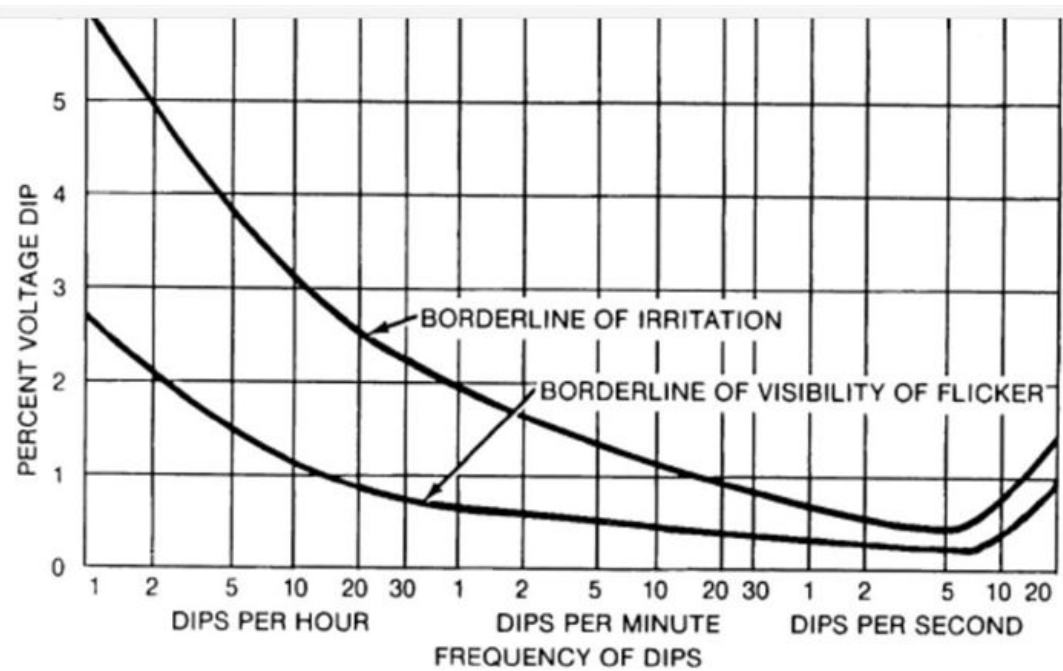
# PV Sites Causing Voltage Swell on Neighboring Customers

| Meter   | Service Location | Transformer | Feeder | Substation | Highest Voltage% | Day Count |
|---------|------------------|-------------|--------|------------|------------------|-----------|
| 2364694 | 79361            | 26814       | P-223  | APRA       | 123.26           | 85        |
| 2364383 | 123862           | 31125       | P-221  | APRA       | 123.11           | 86        |
| 2335232 | 80314            | 26634       | P-221  | APRA       | 122.99           | 84        |
| 2361814 | 110564           | 29227       | P-223  | APRA       | 122.9            | 86        |
| 2338264 | 80234            | 26233       | P-221  | APRA       | 122.58           | 77        |
| 2009819 | 79359            | 29223       | P-223  | APRA       | 122.43           | 63        |
| 2016613 | 80216            | 19136       | P-221  | APRA       | 122.07           | 83        |
| 2801563 | 79400            | 29223       | P-223  | APRA       | 121.81           | 84        |
| 2016612 | 80221            | 19136       | P-221  | APRA       | 121.75           | 85        |

Complete list in the DER and Voltage Visualization reports. Note that the list is based on a min of 15 occurrences and 2+ customers.



## Flicker Consumer Irritation



8 The Modified GE Flicker Curve Published in IEEE Standard 141[4].

## Voltage Flicker



| Feeder | Percentage Change                             | Number of Nodes |
|--------|-----------------------------------------------|-----------------|
| P 220  | VISIBLE RANGE / ELEVATED STRESS LEVEL         | 308             |
| P 221  | VISIBLE RANGE                                 | 6               |
| P 222  | NEARING VISIBLE RANGE                         | 44              |
| P 223  | VISIBLE RANGE / ELEVATED & BEYOND PEAK STRESS | 4442            |

# Options for Corrective Action

## Distributed Storage Support for PV and DR

| Feeder | Average Size Per Distribution Transformer Storage Size | Number of Customers |
|--------|--------------------------------------------------------|---------------------|
| P 220  | 32 KW                                                  | 29                  |
| P 221  | 34 KW                                                  | 1                   |
| P 222  | 22 KW                                                  | 2                   |
| P 223  | 13 KW                                                  | 25                  |
| APRA   | 23 KW                                                  | 57                  |

Net: 1.3 MW Support

Batteries will smooth the system variability and reduce the voltage fluctuations and provide some stability to PV production dependencies on the weather. Implementing storage on the load side of the distribution transformer reduces the increase burden on protection equipment. A typical 7KW battery bank for GPA consumers coupled with incentive programs that allow GPA to program voltage profiles and PF curves as well as control to charge and discharge to support optimizing management of renewables.

50



# Options for Corrective Action

## EV Charging station and support of DR

| Feeder | Assuming Automated Control of L2 Chargers | Number of Customers |
|--------|-------------------------------------------|---------------------|
| P 220  | 8 KW                                      | 464                 |
| P 221  | 8 KW                                      | 20                  |
| P 222  | 8 KW                                      | 12                  |
| P 223  | 8 KW                                      | 164                 |
| APRA   | 8 KW                                      | 660                 |

Net: 1.3 MW Support (assumes 25% availability)

Implementing a centralized and automated EV charging control solution can also provide the virtual power plant (VPP), and controllable load capacity needed to manage variability associated with the high PV penetration in the GPA service territory. Level 2 charge programs can support from 8-11.5KW support depending on the service voltage.

# APRA

## Solution Summary:

- Focus on deploying inverter control for PV production and storage at the identified locations in the study.
- If target Inverter or storage control is not adopted see which customer sites are open for load control, specifically EV charging solutions that can supplement load curve flattening, and shifting load volatility.



**GUAM POWER AUTHORITY**  
ATURIDÂT ILEKTRESEDÂT GUAHAN  
P.O.BOX 2977 • AGANA, GUAM U.S.A. 96932-2977

## Issues for Decision

### **Resolution No. 2022-08:**

#### **Relative to Approval of the 2022 Integrated Resource Plan (IRP)**

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

The IRP is a 10 year plan that addresses load growth that reduced and lower rates on a sustainable basis, operational efficiencies, environmental compliance, renewable portfolio mandates and other GPA strategic initiatives. The approval of the plan allows GPA to focus near term activities on the recommendations from the IRP.

##### **Where is the location?**

Various locations

##### **How much will it cost?**

In addition to renewable energy contracts for Phase III – Phase V renewable acquisition that would offset fuel costs, the IRP identifies \$233M of capital projects that will support the recommendations for renewable integration. As projects are developed they will still obtain the necessary contract protocol approvals from CCU and PUC as required. Depending on the eventual nature of the procurement, this amount may change. These projects may be bid as capital asset (GPA ownership) or O&M service (Contractor ownership) projects.

##### **When will it be completed?**

The IRP is a 10-year CIP and O&M plan analyzed over a 20-year planning horizon.

##### **What is its funding source?**

Fuel revenue funds for renewable energy contracts, revenue funds for capital improvement projects.



**CONSOLIDATED COMMISSION ON UTILITIES**

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

**RESOLUTION NO. FY2022-08**

**APPROVAL OF THE 2022 INTEGRATED RESOURCE PLAN**

**WHEREAS**, the Integrated Resource Plan (IRP) is a process that evaluates the need for new generation resources to meet future load growth at reduced and lower rates on a sustainable basis, address environmental requirements and optimize costs and sets the stage for projects and activities over the next 10 years; and

**WHEREAS**, since 2008, the common strategic initiatives through the past IRP's have been:

- Fuel Diversity, fuel supply risk, and renewable energy;
- Supporting the electric power service requirements for the impending Department of Defense (DOD) build-up and its economic consequences;
- Acquisition of new electric energy supply and its implication on human resource requirements and the Authority business model; and

**WHEREAS**, through the 2008 IRP recommendations for renewable energy, GPA was able to contract its first renewable energy contract and initiate evaluation of fuel diversification to reduce costs; and

**WHEREAS**, from the 2012 IRP and its update in 2016, the IRP also considered and addressed environmental compliance requirements which have resulted in the contracting of additional renewable energy contracts and the new Ukudu Power Plant as well as the fuel conversion and retirement plans for Cabras and Piti units; and

**WHEREAS**, with the Ukudu Power Plant set for commissioning in 2024 and GPA commitment to a 50% Renewable Portfolio Standard by 2030, the 2022 IRP focuses on to how to achieve additional operational savings through efficiencies and to implement projects and programs to support these as well as to support grid security, stability and reliability while also achieving reduction in greenhouse gas emissions; and

**WHEREAS**, the 2022 IRP recommends the following:

- No additional synchronous generation resources are required in the next 10-20 year with New Ukudu Power Plant (CCCP & Reserve Facility) contingent on the amount of synchronous generation retired;
- Initiate procurement for renewable energy contracts for additional annual 300,000 MWH by 2025 and another 300,000MWH by 2029 to achieve 50% Renewables by 2030;

- Execute portfolio of about \$233M in projects and initiatives for integration of renewables;
- Continued analysis of distributing circuits to determine projects necessary to mitigate negative impacts attributed to uncontrolled solar roof top generation;
- Increase optimization of infrastructure to enhance and improve operations and reduce costs;
- Continue to evaluate and implement demand side management programs and programs to address EV charging to reduce impacts on peak system, harmonics, 3-phase power unbalance, and power quality;
- Evaluate and implement charging facilities as necessary to support growth in electric vehicle utilization;
- Implement IT/OT Shared Services Transformation between GPA and GWA to support GPA increased IT operation; and

**WHEREAS**, the review and approval of the IRP allows dialogue between GPA, CCU and the Public Utilities Commission and an understanding and reasoning of the GPA project planning and activities over the next 10 years;

**WHEREAS**, the approval of the IRP does not waive necessary procurement or contract protocols that may require CCU and PUC approvals and GPA will continue to follow these processes as required.

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

1. The General Manager of the Guam Power Authority is hereby authorized to submit the IRP to the PUC for review and approval.

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

**DULY and REGULARY ADOPTED AND APPROVED THIS 25TH DAY of JANUARY, 2022**

**Certified by:**

**Attested by:**

---

**JOSEPH T. DUENAS**  
Chairperson  
Consolidated Commission on Utilities

---

**MICHAEL LIMTIACO**  
Secretary  
Consolidated Commission on Utilities

59  
60  
61  
62  
63  
64  
65  
66  
67  
68  
69  
70  
71  
72  
73  
74  
75  
76  
77  
78  
79  
80

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

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

Ayes: \_\_\_\_\_

Nays: \_\_\_\_\_

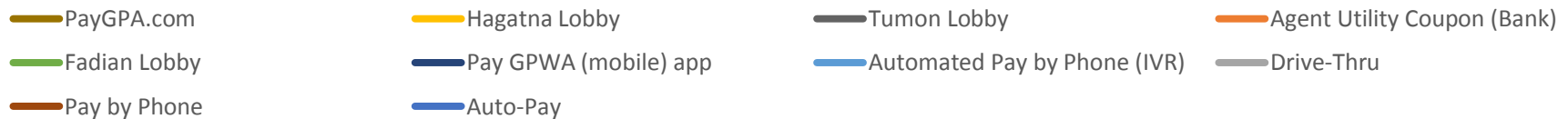
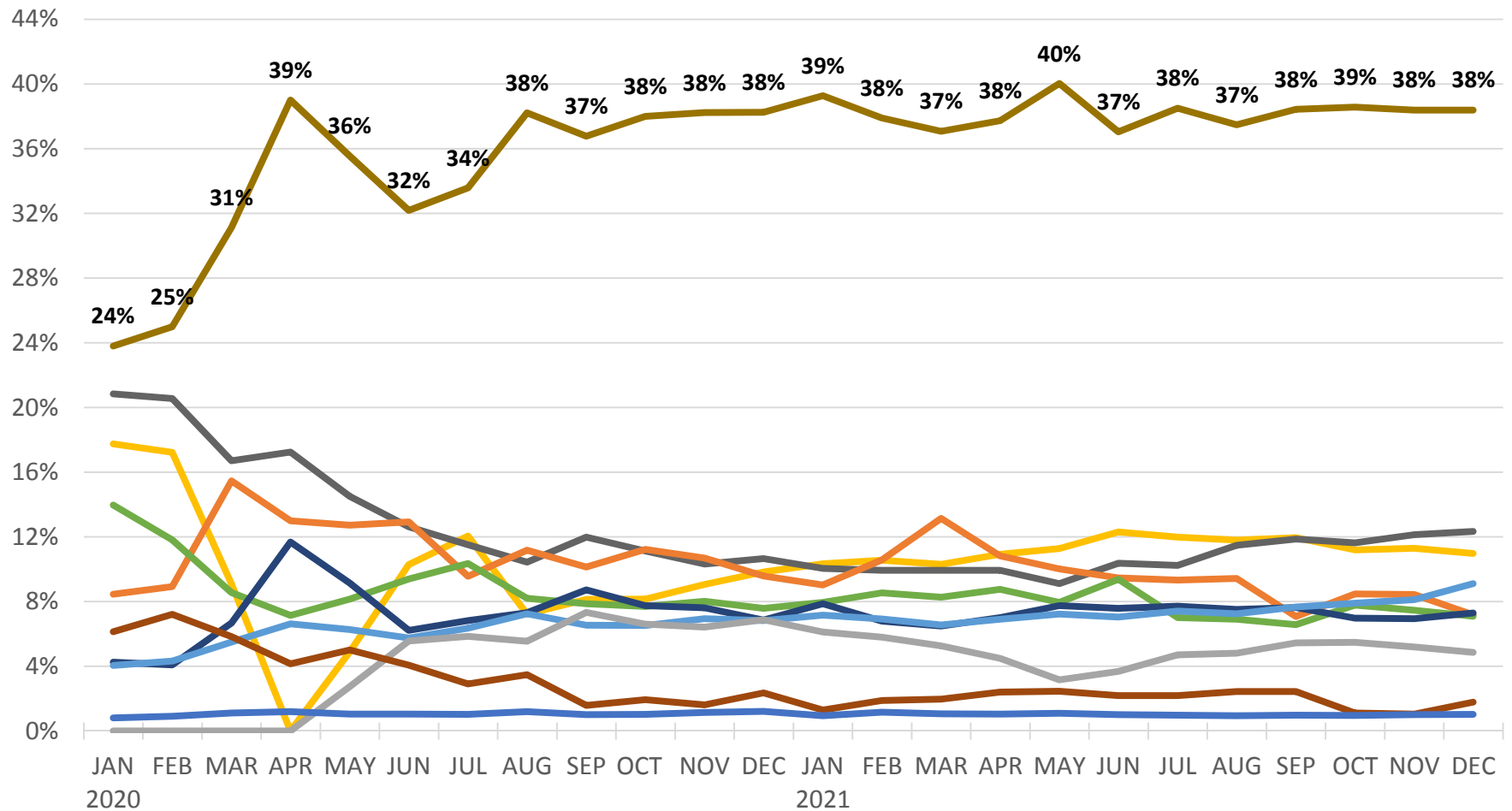
Absent: \_\_\_\_\_

Abstain: \_\_\_\_\_

## Customer Service (Administration Division)

Percentage of transactions by collection point

January 2020 - December 2021

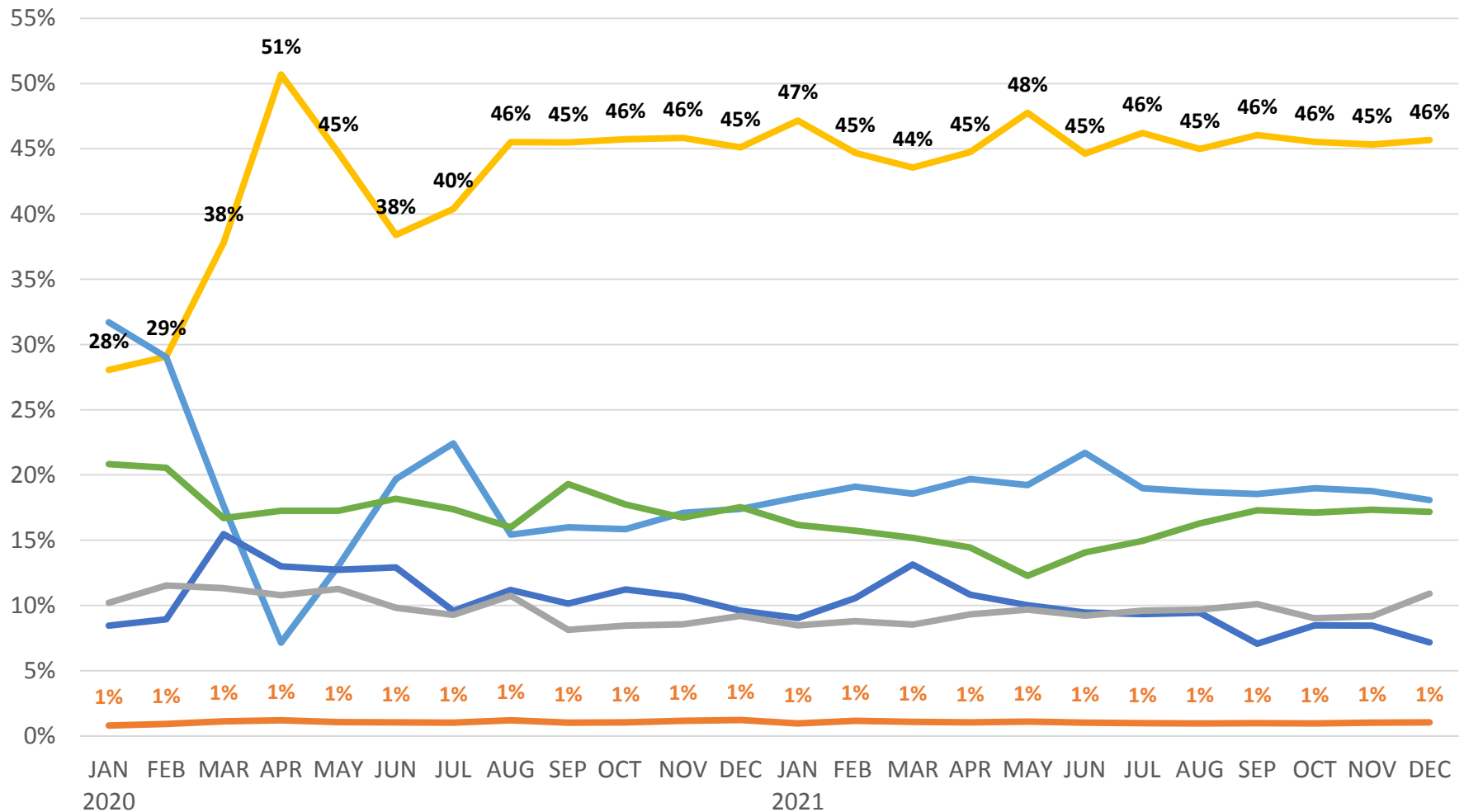


## Customer Service (Administration Division)

### Percentage of transactions by collection platform type

(KPI 1.2.4 – Increase web, pay-by-phone, and prepay payments)

January 2020 - December 2021



Web / Mobile App Payment

In-Person Payment

Drive-Thru Payment

Agent Utility Coupon (Bank)

Pay by Phone (Live and Automated)

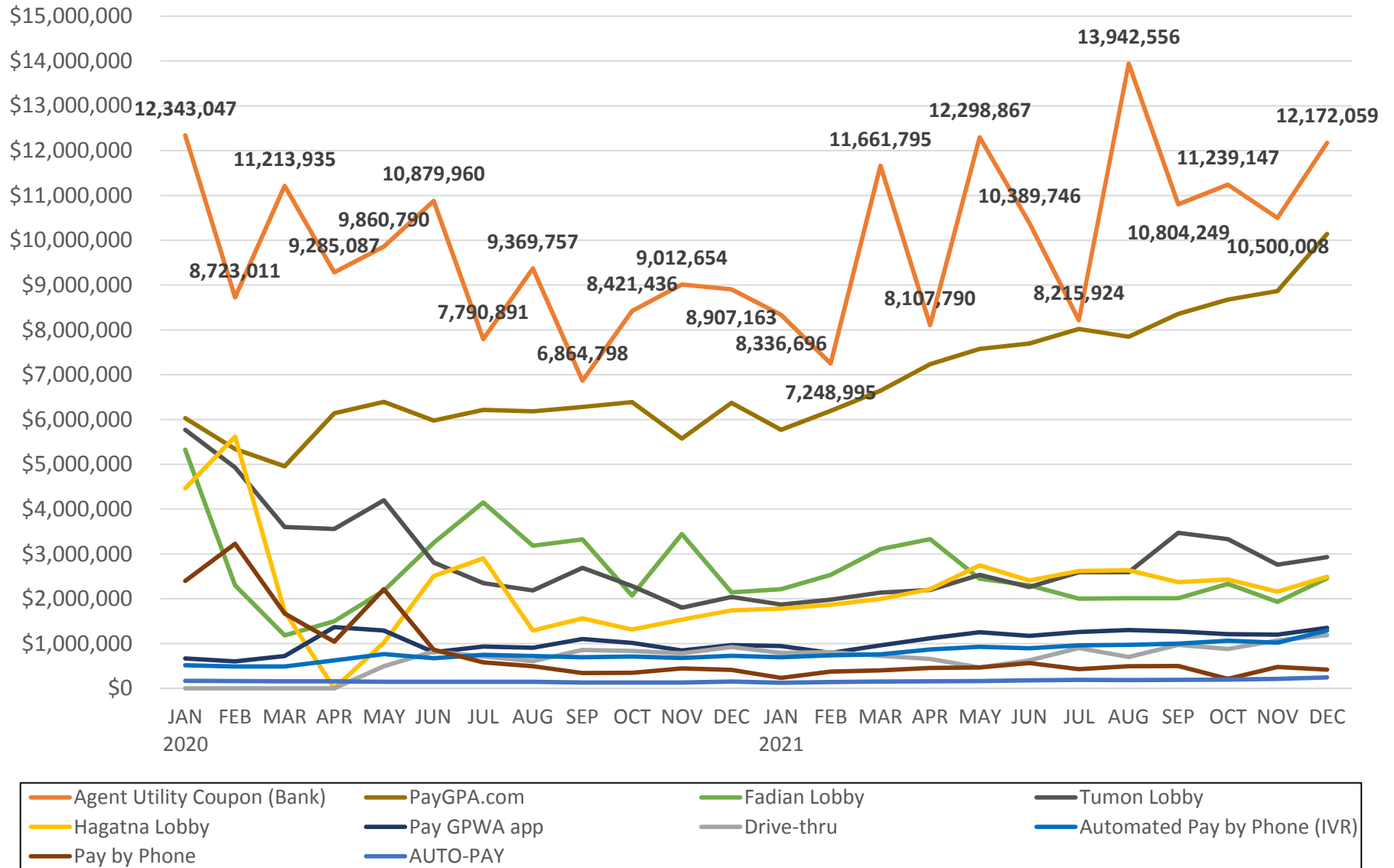
Auto-Pay



## Customer Service (Administration Division)

Dollar amount collected per collection point

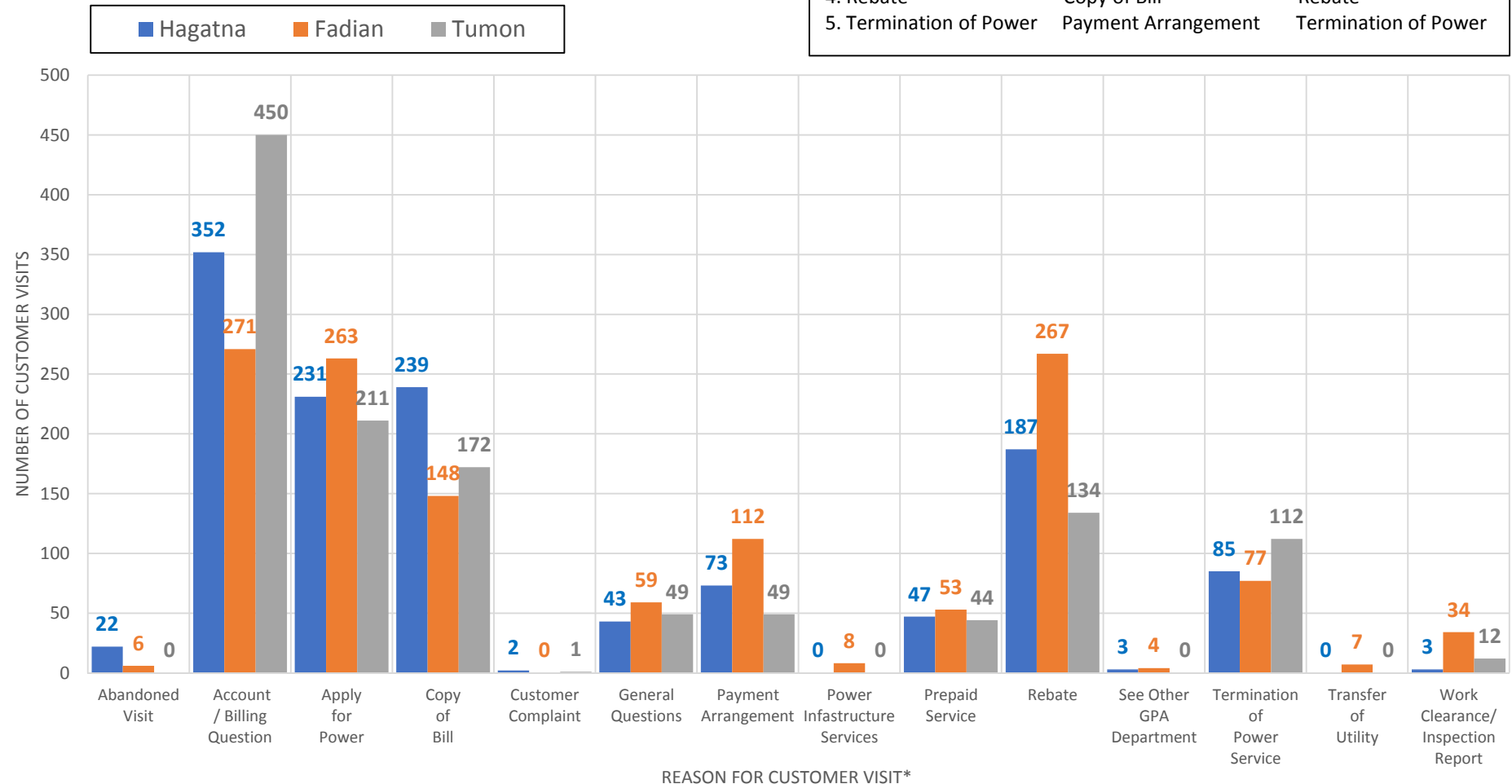
January 2020 - December 2021



## Customer Service (Administration Division)

### Reason for Visit by Location

December 2021

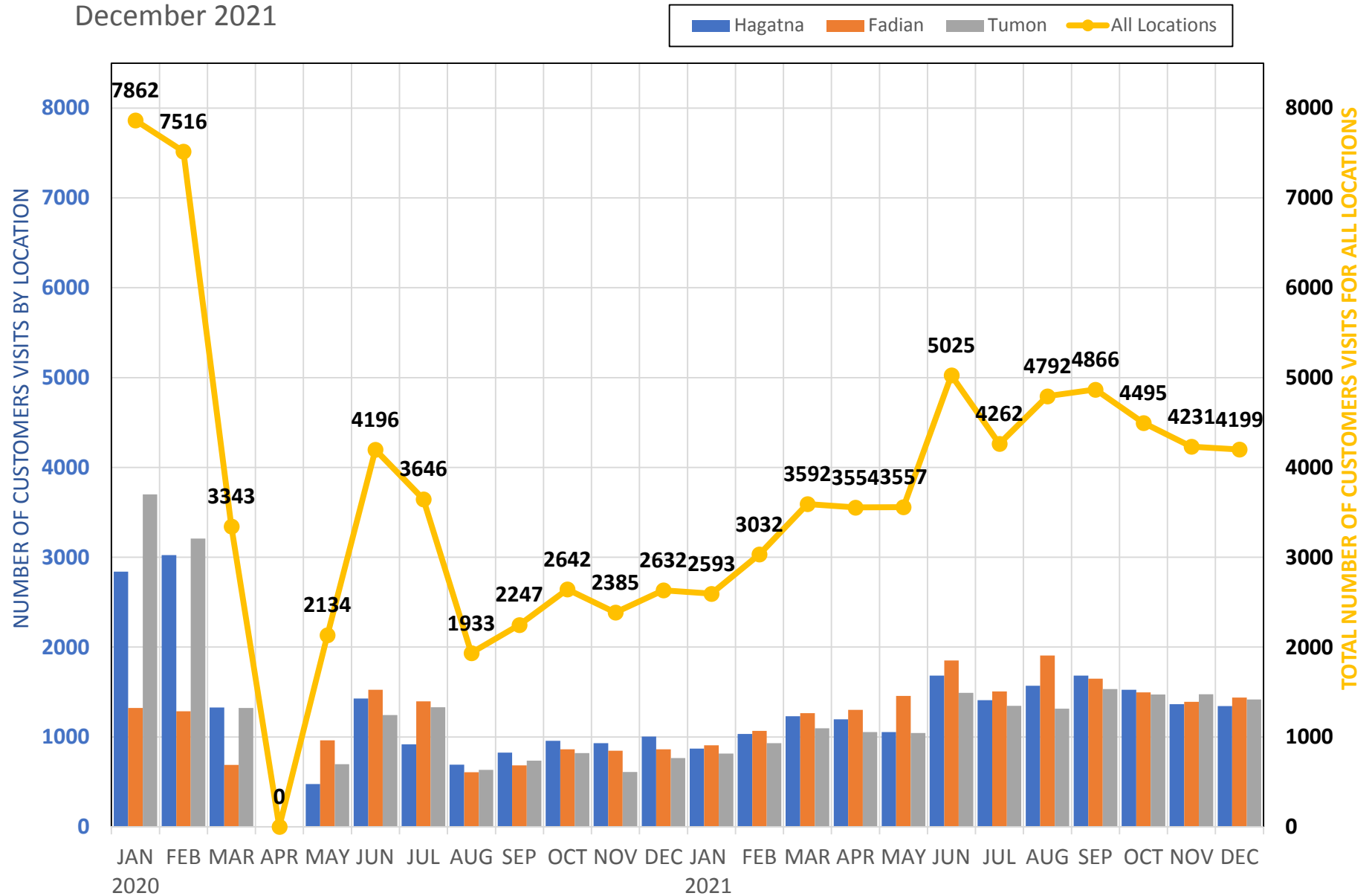


\*Each count per **Reason for Customer Visit** represents a customer who visits one of our lobbies. During their visit, the customer will only be counted once, regardless of the number of services provided to the customer. Their reason for visit will be coded based on their initial or primary reason for visit. Each reason for customer visit option shall include but not be limited to, an inquiry of service, submission of an application, submission of multiple applications, submission of supporting documents, customer question regarding the service, customer follow-up, etc.

## Customer Service (Administration Division)

Lobby Traffic by Location (KPI 1.2.3. Reduce Service Center Traffic)

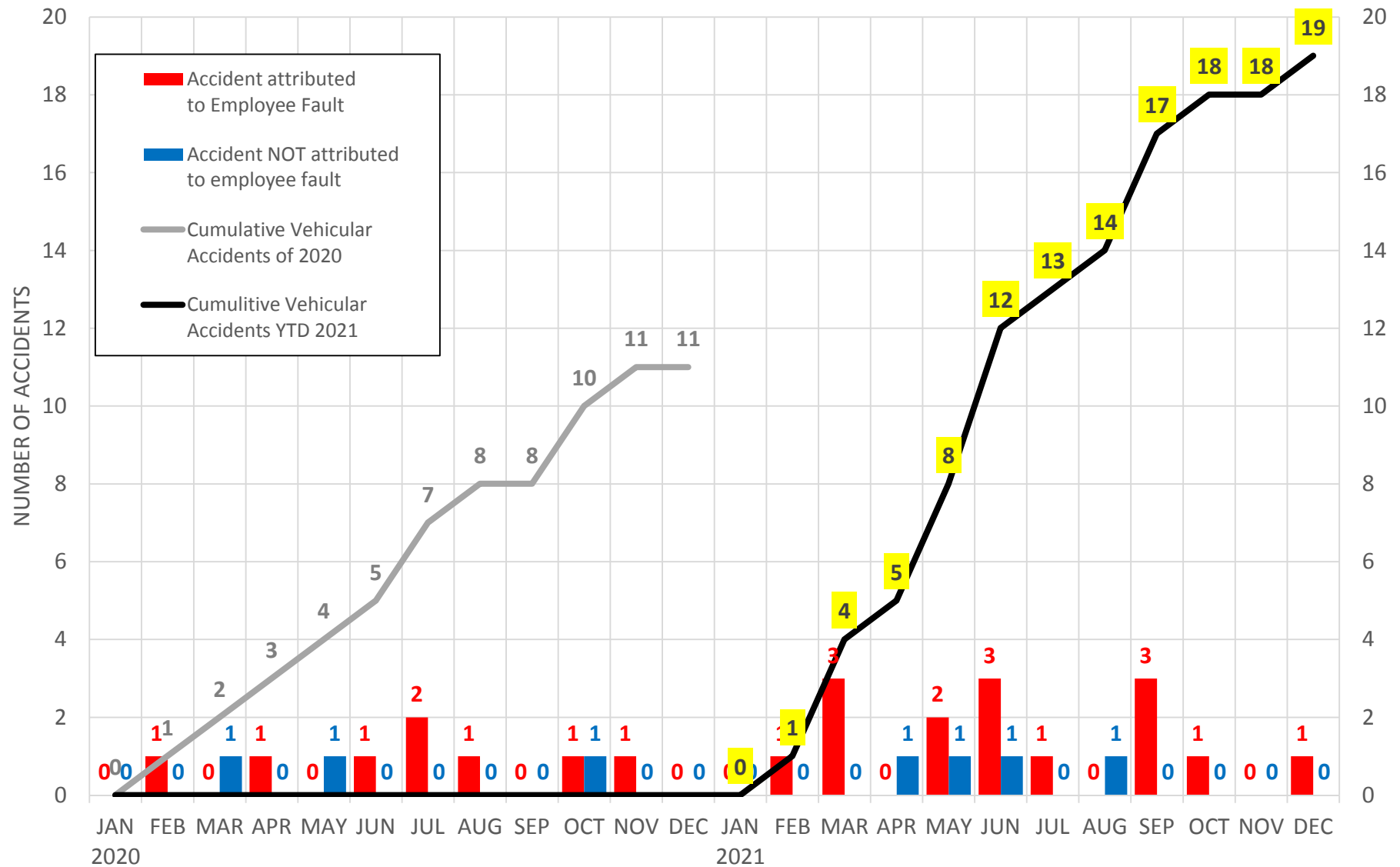
December 2021



## Safety (Administration Division)

### Vehicular Accidents

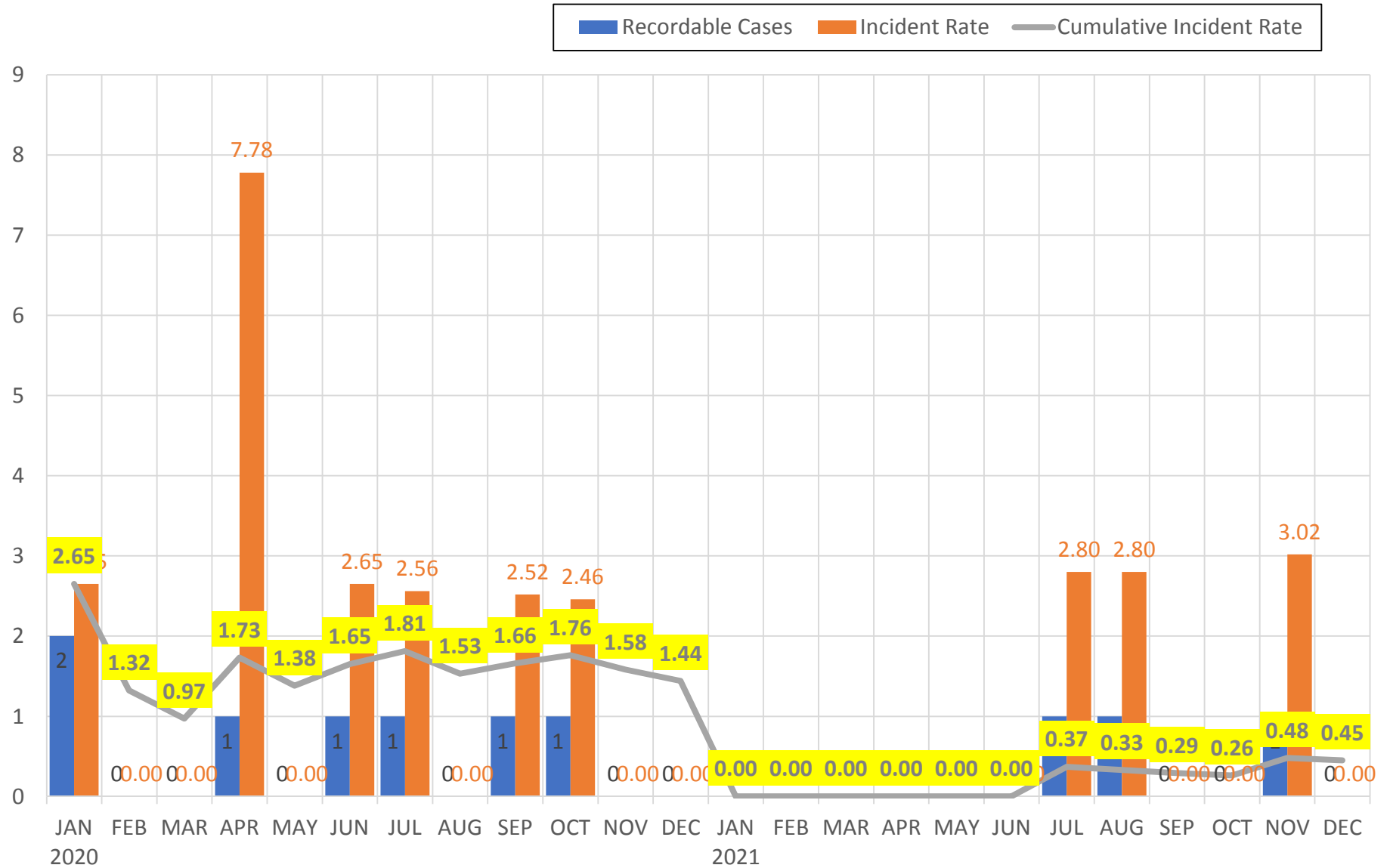
December 2021



## Safety (Administration Division)

### Incident Rate

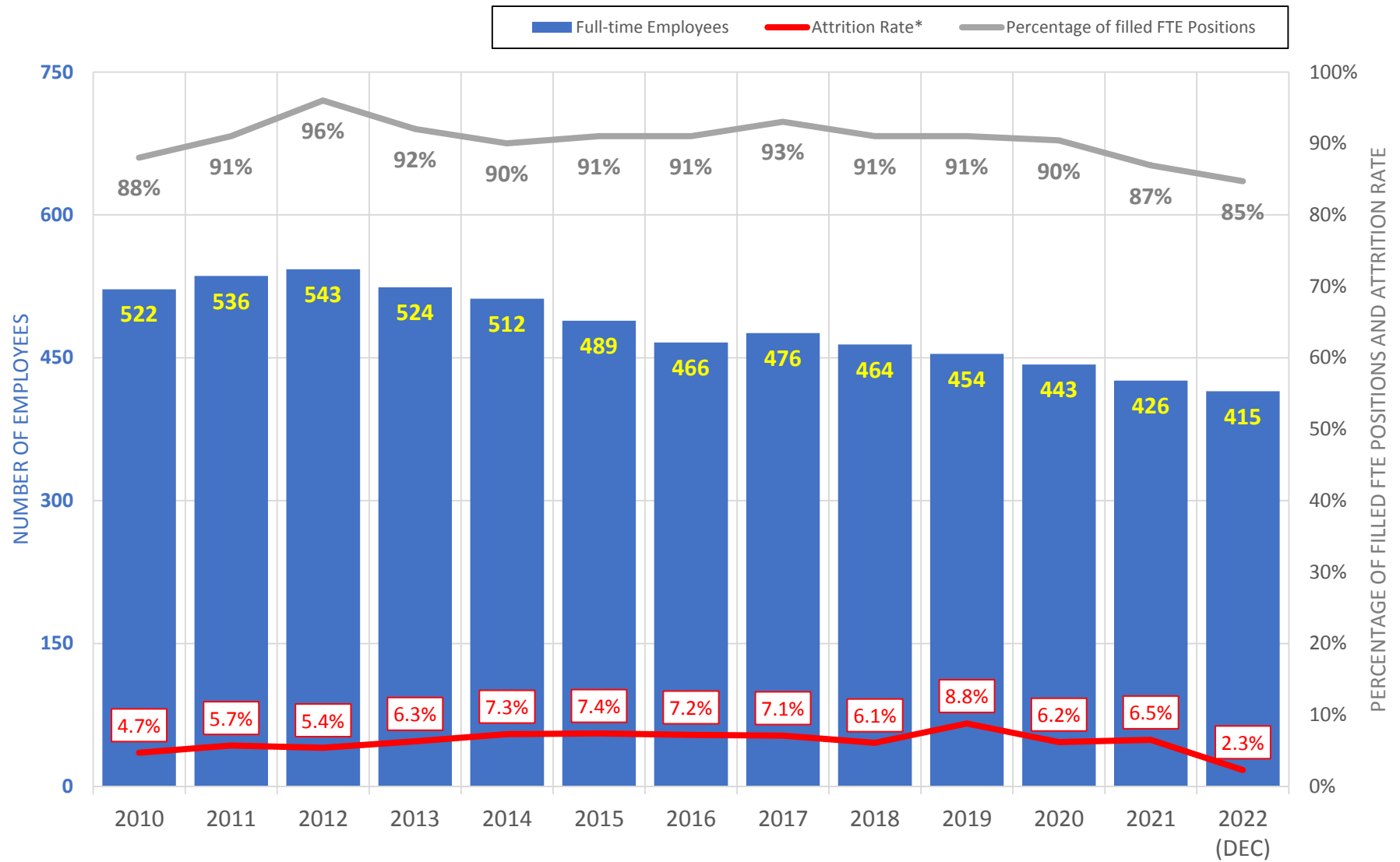
December 2021



## Human Resources (Administration Division)

### Recruitment Analysis

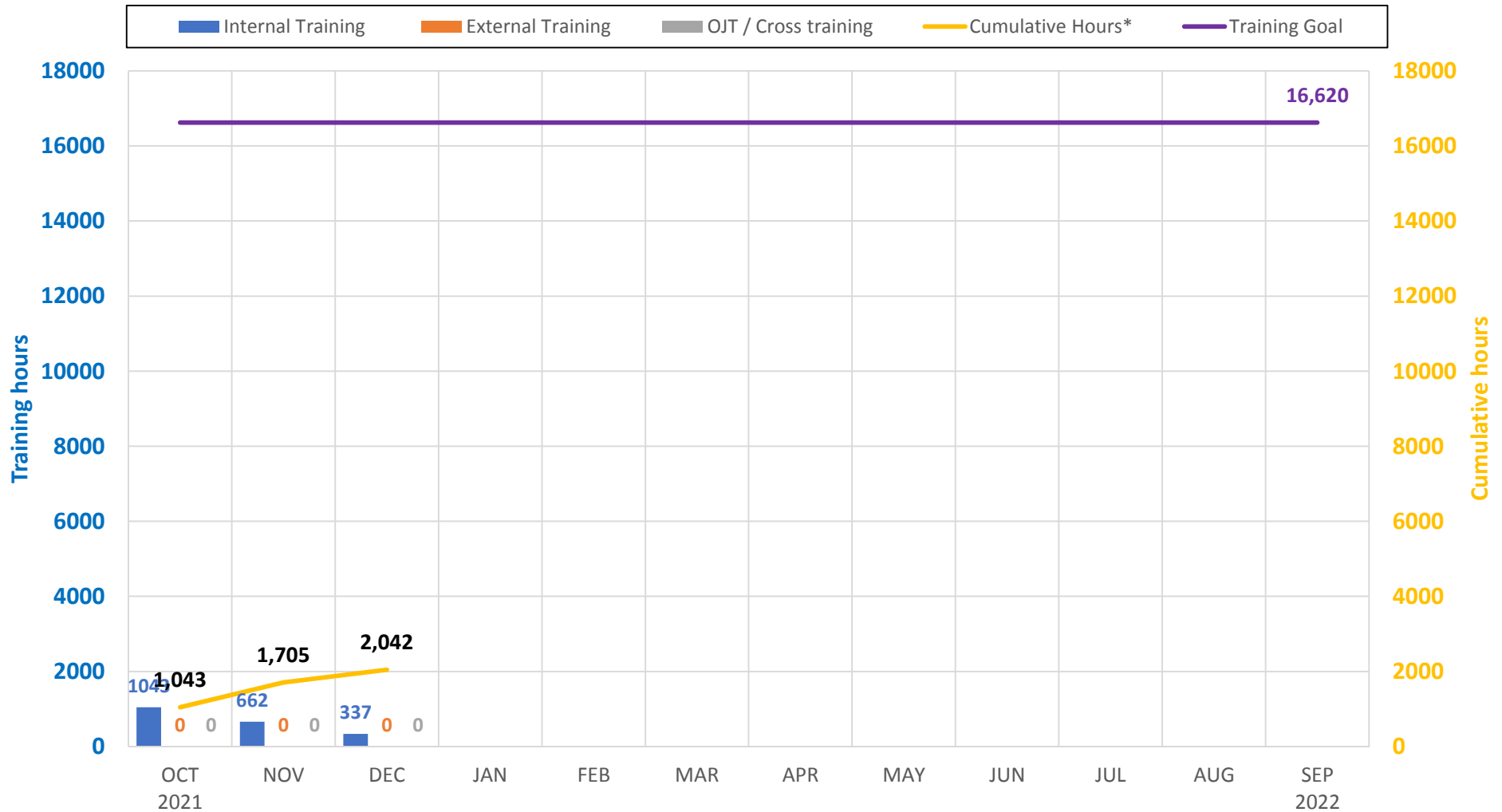
December 2021 (FY 2022)



\*Attrition rate is calculated by dividing the sum of resignations, retirements, deaths, and terminations by the total filled FTE positions.

## Human Resources (Administration Division)

### Cumulative Training Hours for Fiscal Year 2022 as of December 2021



\*For fiscal year 2022, the training goal has been set at 16,620 hours, 2% of total straight (831,013 hours) worked for FY 2021. As of December 2021, GPA has achieved 12.29% progress towards its cumulative hours training goal.

**Procurement** (Administration Division)

Notable RFP monthly status update

December 2021

| RFP NO.                           | DESCRIPTION                                                                               | DATE                     |                     | STATUS<br>(as of 01/07/2022)                             |
|-----------------------------------|-------------------------------------------------------------------------------------------|--------------------------|---------------------|----------------------------------------------------------|
|                                   |                                                                                           | ADVERTISTED              | RFP Closing         |                                                          |
| GPA-RFP-21-008                    | Application Support Services                                                              | 09/09/2021<br>09/16/2021 | 10/07/2021<br>@ 4pm | In progress:<br>Pending bid committee clarification memo |
| GPA-RFP-21-011                    | Archaeological Services for various locations                                             | 09/09/2021<br>09/16/2021 | 09/28/2021<br>@ 4pm | In progress: Evaluation "Best & Final"                   |
| GPA-RFP-22-001                    | Geographic Information Systems (GIS) Support Services                                     | 10/14/2021<br>10/21/2021 | 11/12/2021<br>@ 4pm | In progress: Pending price proposal submission           |
| RE-SOLICITATION-<br>GPA-RFP-22-02 | Professional Services for the Maintenance of the GPA Compensation and Classification Plan | 12/16/2021<br>12/23/2021 | 03/17/2022<br>@ 4pm | In progress                                              |



**Procurement** (Administration Division)

## Notable IFB monthly status update

December 2021

| IFB NO.              | DESCRIPTION                                                                      | DATE<br>ADVERTISTED      | BID<br>OPENING       | STATUS<br>(as of 01/07/2022)                                    |
|----------------------|----------------------------------------------------------------------------------|--------------------------|----------------------|-----------------------------------------------------------------|
| Re-Bid<br>GPA-001-21 | Upgrade of Fire Protection & Smoke Alarm Systems at Manenggon Diesel Power Plant | 09/14/2021<br>09/21/2021 | 10/21/2021<br>@ 10am | In progress:<br>Pending bid committee recommendation            |
| GPA-032-21           | Portable Generators (WSD)                                                        | 03/18/2021<br>03/25/2021 | 04/20/2021           | In progress:<br>w/GM as of 08/09/2021                           |
| GPA-043-21           | Protection Relays                                                                | 07/27/2021<br>08/03/2021 | 08/11/2021<br>@ 11am | In progress:<br>To re-award to A.B.E.-Women's Business Cited    |
| Re-Bid<br>GPA-044-21 | Corrective Maintenance for Wind Turbine Power Plant                              | 10/28/2021<br>11/04/2021 | 12/30/2021<br>@ 10am | In progress:<br>Evaluation                                      |
| MS<br>GPA-046-21     | Petroleum Inspection & Testing Services for Diesel Fuel Oil #2                   | 06/10/2021<br>06/17/2021 | 09/20/2021<br>@ 10am | In progress:<br>14 Days Protest Period                          |
| MS<br>GPA-047-21     | Bulk Supply Diesel Oil #2                                                        | 06/10/2021<br>06/17/2021 | 10/15/2021<br>@ 10am | In progress:<br>Pending insurance requirements                  |
| GPA-048-21           | New, 2021 65 Foot 4x4 Bucket Trucks                                              | 06/17/2021<br>06/24/2021 | 07/07/2021<br>@ 11am | In progress:<br>Pending Legal Guidance                          |
| GPA-061-21           | Electrical Transient Analyzer Program (ETAP)                                     | 10/14/2021<br>10/21/2021 | 10/28/2021<br>@ 10am | In progress:<br>Pending GM approved Committee Selection Memo    |
| GPA-001-22           | Pad Mounted Transformer 1500 kVA                                                 | 10/28/2021<br>11/04/2021 | 11/16/2021<br>@ 11am | In progress:<br>Pending budget certification                    |
| GPA-002-22           | Pad Mounted Transformer 750 kVA                                                  | 10/28/2021<br>11/04/2021 | 11/16/2021<br>@ 11am | In progress:<br>OP/Status letters sent for mgmt review/approval |
| GPA-004-22           | Wire                                                                             | 11/09/2021<br>11/16/2021 | 11/23/2021<br>@ 10am | In progress:<br>Evaluation                                      |
| GPA-005-22           | New 2022 50 Ton Trailer                                                          | 11/09/2021<br>11/16/2021 | 12/02/2021<br>@ 10am | In progress:<br>Pending budget certification                    |
| GPA-006-22           | Pad Mount Transformer                                                            | 11/18/2021<br>11/25/2021 | 12/14/2021<br>@ 9am  | In progress:<br>Pending vendor clarification response           |
| GPA-007-22           | Pad Mount Transformer                                                            | 11/18/2021<br>11/25/2021 | 12/15/2021<br>@ 9am  | In progress:<br>Evaluation                                      |

**Procurement** (Administration Division)

## Notable IFB monthly status update

December 2021

| IFB NO.       | DESCRIPTION                                                                                        | DATE<br>ADVERTISTED      | BID<br>OPENING                | STATUS<br>(as of 01/07/2022)                                  |
|---------------|----------------------------------------------------------------------------------------------------|--------------------------|-------------------------------|---------------------------------------------------------------|
| GPA-009-22    | Pole Mounted Transformer                                                                           | 11/18/2021<br>11/25/2021 | 12/15/2021<br>@ 10am          | In progress:<br>Evaluation                                    |
| GPA-010-22    | Substation Controller Units                                                                        | 12/14/2021<br>12/21/2021 | 12/30/2021<br>@ 9am           | In progress:<br>Committee evaluation scheduled for 01/12/2022 |
| GPA-011-22    | Vacuum Circuit Breaker, 13.8 kV                                                                    | 12/30/2021<br>01/06/2022 | 02/03/2022<br>@ 10am          | In progress                                                   |
| MS-GPA-012-22 | Diesel Fuel Oil No.2 for GPA's Water<br>Systems Distribution (WSD) and GWA<br>Emergency Generators | 12/14/2021<br>12/21/2021 | STEP 1<br>02/11/2022<br>@ 4pm | In progress                                                   |
| MS-GPA-015-22 | Performance Management Contract for<br>the Guam Power Authority Fuel Bulk<br>Storage Facility      | 01/06/2022<br>01/13/2022 | STEP 1<br>02/28/2022<br>@ 4pm | In progress                                                   |
| GPA-017-22    | Pad Mounted Transformers                                                                           | 12/30/2021<br>01/06/2020 | 01/13/2022<br>@ 9am           | In progress                                                   |

## Procurement (Administration Division)

### Protests and Appeals monthly status

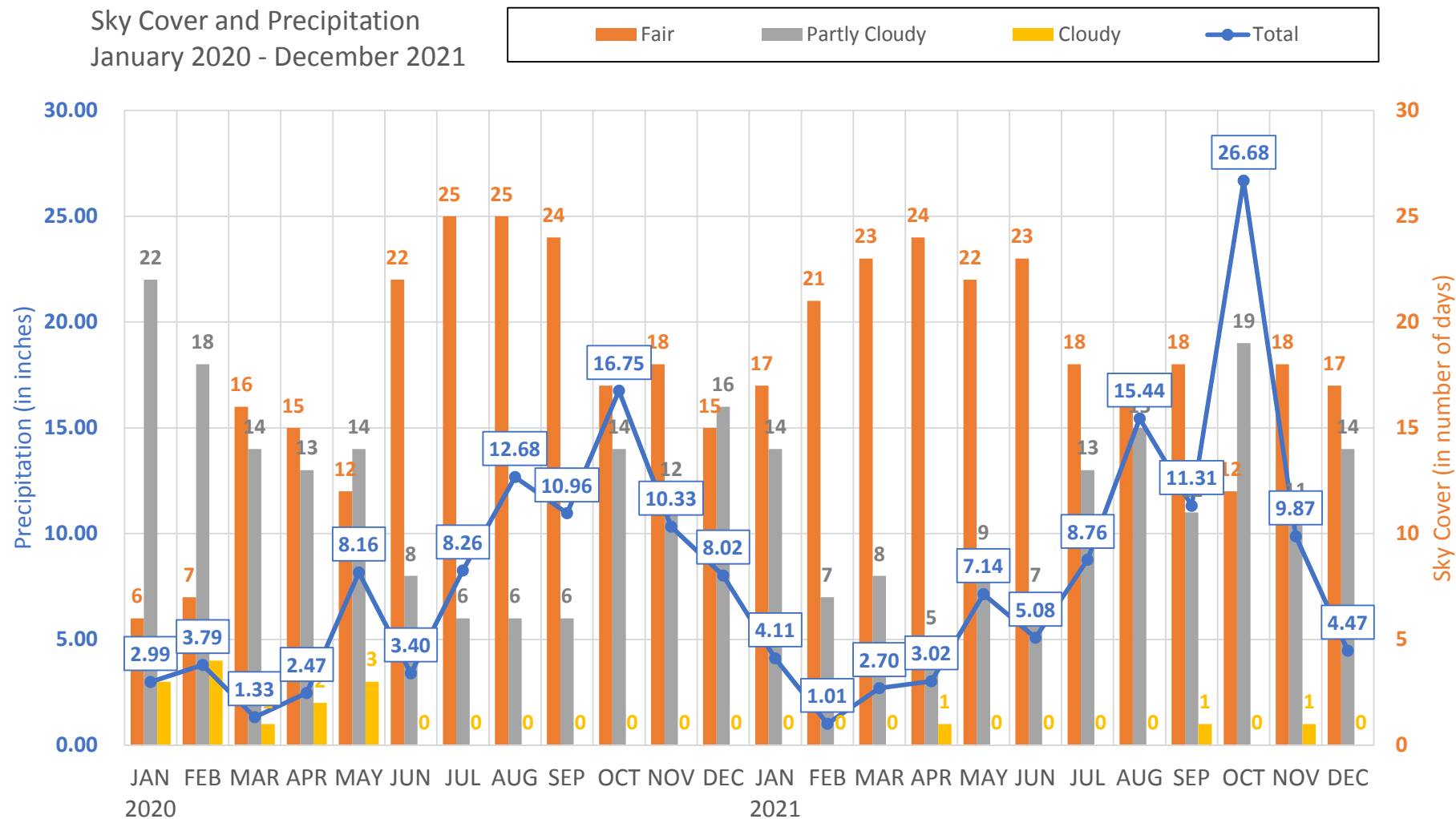
December 2021

| No. | IFB / MS Bid / RFP | Description                                | Protest or Appeal | Protest filed by:           | Stay of Procurement Issue date | Stay of Procurement Lift date | Status / Comments                             |
|-----|--------------------|--------------------------------------------|-------------------|-----------------------------|--------------------------------|-------------------------------|-----------------------------------------------|
| 1   | GPA-IFB-081-18     | 2018, 2-wheel steel body step van          | Protest           | Morricono                   | 06-15-2018                     |                               | Roberts Folwer & Visosky Office filed protest |
| 2   | GPA-IFB-043-20     | Voice and data services                    | Protest           | Pacific Data System         | 06-09-2020                     |                               |                                               |
| 3   | GPA-IFB-059-21     | Substation network switch                  | Protest           | Pacific Data System         | 09-09-2021                     |                               |                                               |
| 4   | GPA-IFB-057-21     | Bolts, double arming, galvanize 5/8" x 20' | Protest           | R&D Marketing               | 09-10-2021                     |                               |                                               |
| 5   | GPA RFP-21-005     | Merchant services                          | Protest           | Bank of Guam                | 10-04-2021                     |                               |                                               |
| 6   | GPA-052-21         | LED Luminaire Unit, 250W Equivalent        | Protest           | America's Best Electricmart | 11-09-2021                     |                               | Pending legal determination                   |
| 7   | GPA-054-21         | LED Luminaire Unit                         | Protest           | America's Best Electricmart | 11-11-2021                     |                               | Pending legal determination                   |

| No. | IFB / MS Bid / RFP | Description                                                                             | Protest or Appeal | OPA or Civil Case No.                                                                         | Notice of Appeal Received date | Notice of Appeal Hearing date | Status / Comments                                             |
|-----|--------------------|-----------------------------------------------------------------------------------------|-------------------|-----------------------------------------------------------------------------------------------|--------------------------------|-------------------------------|---------------------------------------------------------------|
| 1   | MS GPA-007-18      | Renewable energy resource phase III                                                     | Appeal            | OPA-PA-19-010, OPA-PA-20-001, OPA-PA-20-007, and Superior Court of Guam Civil Case #CV0797-20 |                                |                               | Appeal currently at Superior Court of Guam                    |
| 2   | GPA-024-21         | Fleet and fuel management software services                                             | Appeal            | OPA-PA-21-002                                                                                 | 07-01-2021                     | 9/7/2021                      | With merit - to be re-bid                                     |
| 3   | GPA RFP-21-002     | Professional print, mailing and processing services related to utility customer billing | Appeal            | OPA-PA-21-012                                                                                 | 10-25-2021                     |                               | Mr. James M Maher, Esq. Attorney for Appellant Graphic Center |

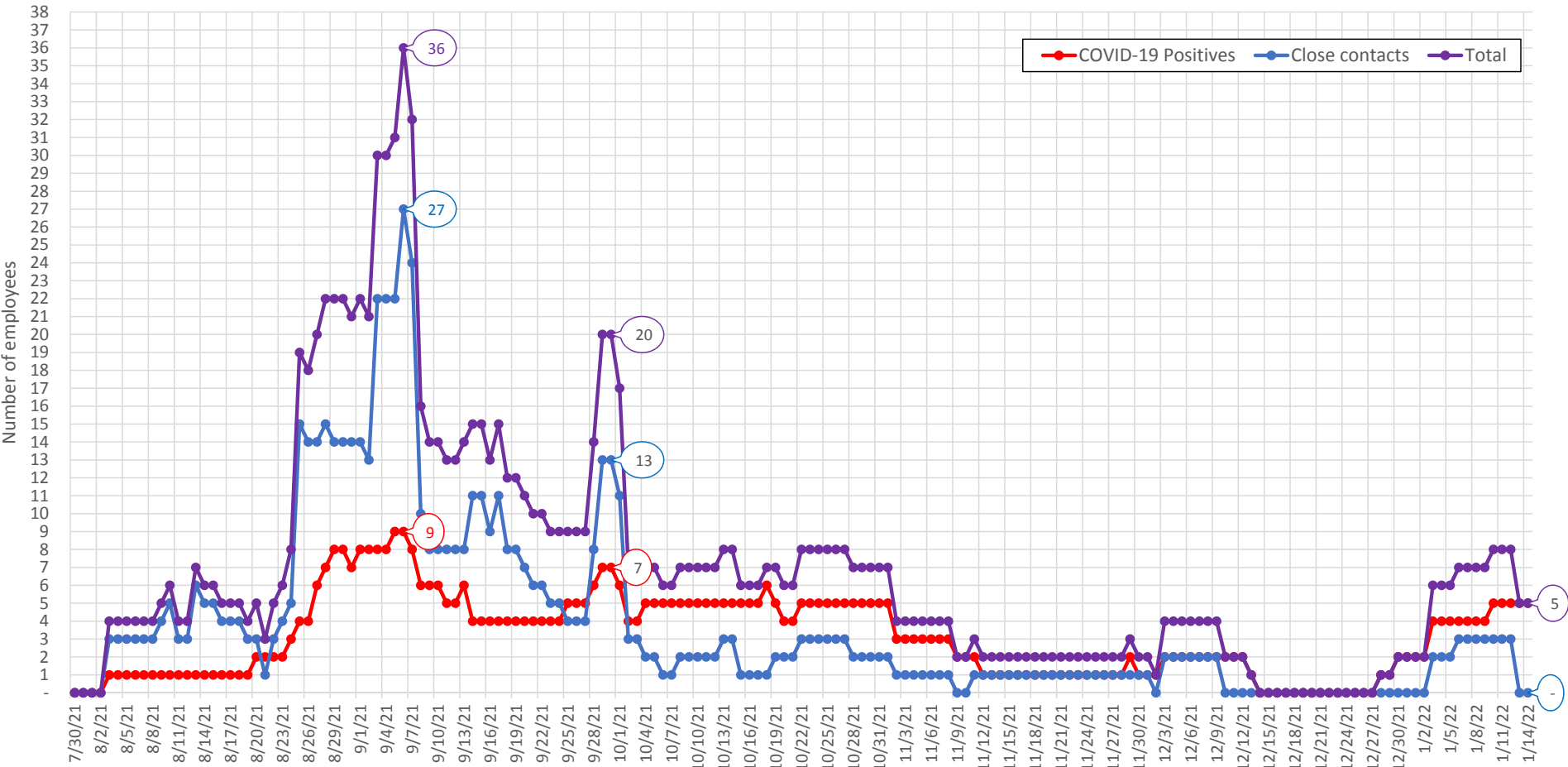
## Guam Climate Summary

Sky Cover and Precipitation  
January 2020 - December 2021



| Month | Year | Temperature<br>(in Fahrenheit) |      |     | Precipitation<br>(in inches) |                  | Sky Cover<br>(in days) |               |        | Weather Conditions<br>(no. of days with) |            |      |            |     |      | Weather Event |     |
|-------|------|--------------------------------|------|-----|------------------------------|------------------|------------------------|---------------|--------|------------------------------------------|------------|------|------------|-----|------|---------------|-----|
|       |      | High                           | Mean | Low | Total                        | Greatest 24-hour | Fair                   | Partly Cloudy | Cloudy | Thunder storm                            | Heavy Rain | Rain | Light Rain | Fog | Haze | Name          | Day |
| DEC   | 2021 | 87                             | 81.0 | 72  | 4.47                         | 2.33             | 17                     | 14            | 0      | 0                                        | 6          | 5    | 25         | 0   | 0    | n/a           | n/a |

GPA Employee Availability  
COVID-19 count (Positives and Close Contacts)  
From 07/30/2021 to 01/14/2022



# E&TS Divisional Report Summary

December 31, 2021

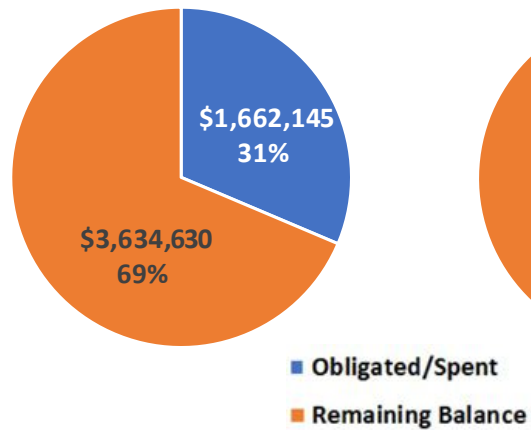
*\*Data still being gathered for 12/2021*

# Contents

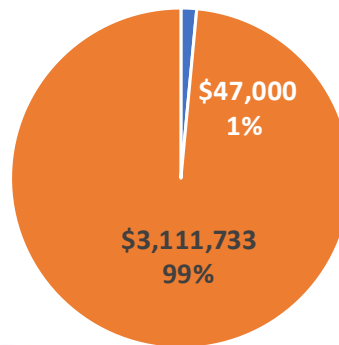
- E&TS Budget Execution Performance
  - O&M Contract Budget
  - CIP Budget
  - DSM Budget
- Environmental Compliance (SPCC and BMP Inspections)

# E&TS Budget Execution Performance

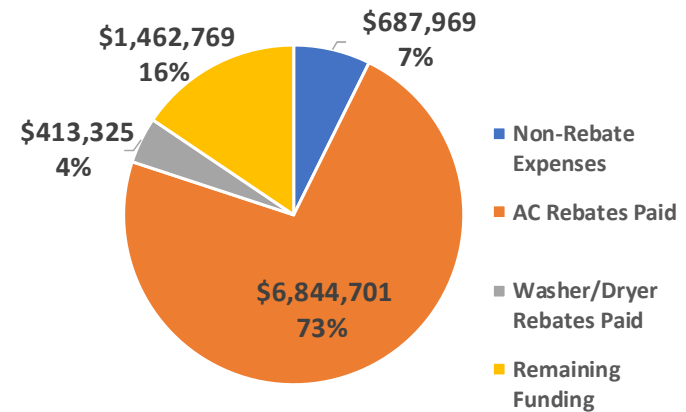
E&TS O&M Contract Budget



E&TS CIP Budget

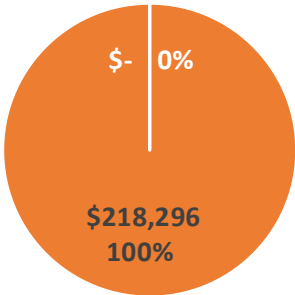


OCT 2016 to DEC 2021 DSM EXPENSE SUMMARY

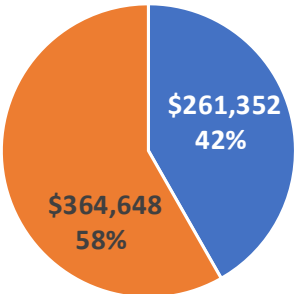




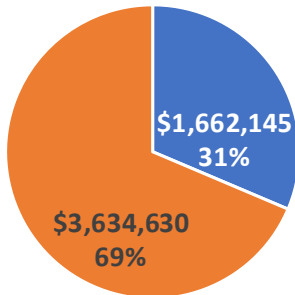
ENG O&M Contract Budget



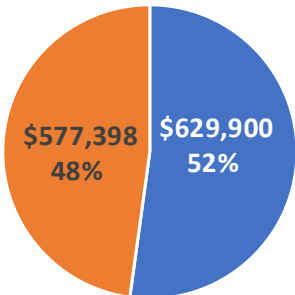
SPORD O&M Contract Budget



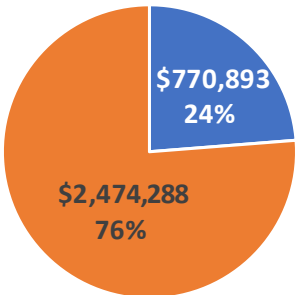
E&TS O&M Contract Budget



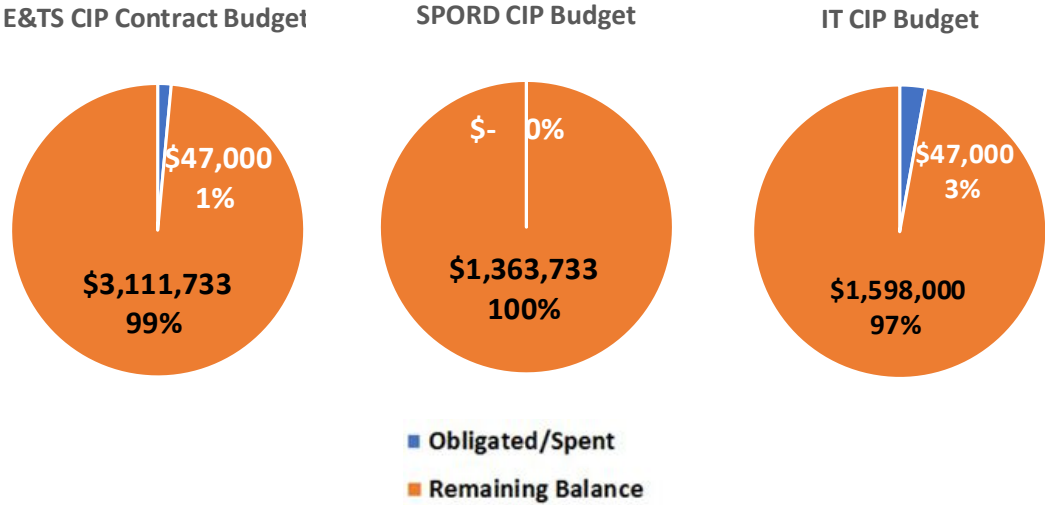
P&R O&M Contract Budget



IT O&M Contract Budget



■ Obligated/Spent  
■ Remaining Balance



# FY 2022 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     |
| <b>SPORD</b>             |              | 1        | 1             | 2        |             |                 |                      | 2         | 2        |          | 3             | 5         |
| <b>Engineering</b>       |              |          |               | 0        |             |                 |                      |           |          |          |               | 0         |
| <b>SPORD/Engineering</b> |              |          |               | 0        |             |                 |                      |           |          |          |               | 0         |
| <b>IT</b>                | 3            | 1        |               | 4        |             |                 |                      |           | 4        |          |               | 4         |
| <b>P&amp;R</b>           |              | 2        | 1             | 3        |             |                 | 1                    |           | 1        | 1        |               | 2         |
|                          |              |          |               |          |             |                 |                      |           |          |          |               |           |
| <b>Total</b>             | <b>3</b>     | <b>4</b> | <b>2</b>      | <b>9</b> | <b>0</b>    | <b>0</b>        | <b>1</b>             | <b>2</b>  | <b>7</b> | <b>1</b> | <b>3</b>      | <b>11</b> |

# Environmental Compliance

## P&R Inspections Status Ending December 31, 2021

| Inspection Type                                      | Organization Responsibility | Violations Not Remediated          | Number |
|------------------------------------------------------|-----------------------------|------------------------------------|--------|
| Spill Prevention, Control, and Countermeasure (SPCC) | Generation                  | New Violation Notifications Issued | 5      |
|                                                      |                             | Remediations Past Due              | 20     |
|                                                      |                             | Remediations Not Past Due          | 0      |
|                                                      | T&D                         | New Violation Notifications Issued | 0      |
|                                                      |                             | Remediations Past Due              | 3      |
|                                                      |                             | Remediations Not Past Due          | 0      |
| Best Management Practices (BMPs)                     | Generation                  | New Violation Notifications Issued | 1      |
|                                                      |                             | Remediations Past Due              | 9      |
|                                                      |                             | Remediations Not Past Due          | 0      |

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

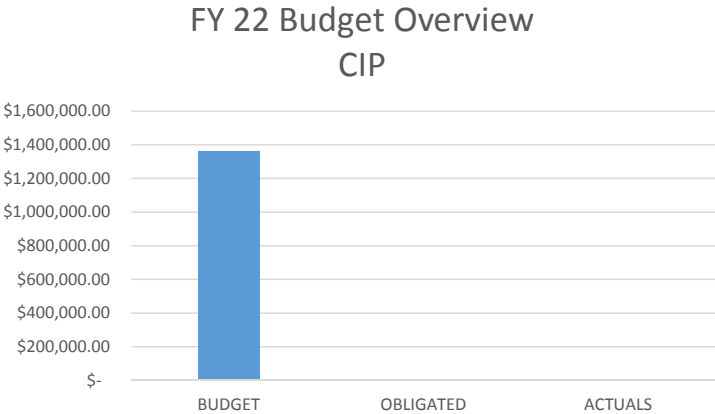
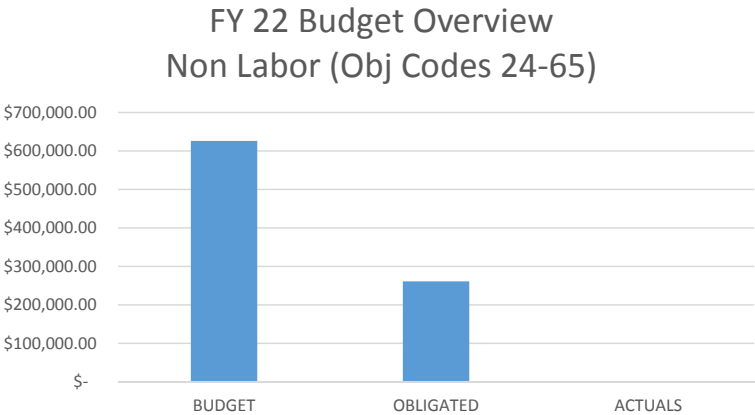
# SPORD CCU Report

Update thru October 31, 2021

*\*Data still being gathered for 12/2021*

# SPORD FY 2022 Budget Status

thru October 31, 2021



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

# SPORD FY 2022 Budget Status

- Major Contracts (Non-O&M) thru October 2021

| <b>Contract Description</b>    | <b>Budgeted Amount</b> | <b>Obligated Amount</b> | <b>Actuals</b> | <b>PO Balance</b> |
|--------------------------------|------------------------|-------------------------|----------------|-------------------|
| Fuel Contracts                 | \$ 238,975,062         | \$ 188,032,154          | \$ 27,443,118  | \$ 160,589,036    |
| MEC IPP (Piti 8&9)             | \$ 20,542,768          | \$ 18,253,110           | \$ -           | \$ 18,253,110     |
| Glidepath Contract (Renewable) | \$ 10,210,938          | \$ 10,293,842           | \$ -           | \$ 10,293,842     |

*Preliminary and subject to final postings.*

# SPORD FY 2022 Budget Status

## Demand Side Management

| Description               | FY16                | FY17                | FY18                  | FY19                  | FY20                  | FY21                  | FY22               | Total to Date         |
|---------------------------|---------------------|---------------------|-----------------------|-----------------------|-----------------------|-----------------------|--------------------|-----------------------|
| Regular/OT Pay            | \$11,348.80         | \$22,256.00         | \$26,121.83           | \$50,715.19           | \$47,402.18           | \$162,395.40          | \$11,296.75        | \$331,536.15          |
| Other Contractual         | \$28,278.50         | \$85,550.05         | \$116,977.50          | \$3,025.00            | -                     | \$107,854.90          |                    | \$341,685.95          |
| Ads & Radio Announcements | -                   | -                   | -                     | \$9,000.00            | -                     | -                     |                    | \$9,000.00            |
| Paid Rebates-Split AC     | \$154,700.00        | \$557,275.00        | \$1,349,825.00        | \$1,374,650.00        | \$1,468,001.00        | \$1,855,550.00        | \$55,900.00        | \$6,815,901.00        |
| Paid Rebates-Central AC   | \$3,400.00          | \$8,200.00          | \$4,400.00            | \$6,500.00            | \$2,400.00            | \$3,900.00            |                    | \$28,800.00           |
| Paid Rebates-Washer/Dryer | \$2,800.00          | \$7,425.00          | \$57,200.00           | \$110,800.00          | \$91,003.00           | \$134,497.00          | \$9,600.00         | \$413,325.00          |
| <b>Total Expenses</b>     | <b>\$200,527.30</b> | <b>\$680,706.05</b> | <b>\$1,554,524.33</b> | <b>\$1,554,690.19</b> | <b>\$1,608,806.18</b> | <b>\$2,264,197.30</b> | <b>\$76,796.75</b> | <b>\$7,940,248.10</b> |
| Bank Interest (+)         | \$1,676.42          | \$1,722.74          | \$1,222.29            | \$730.05              | \$439.12              | \$320.72              | \$63.97            | \$6,175.31            |
| Bank Fees                 | \$155.00            | \$1,032.06          | \$1,085.08            | \$1,247.54            | \$1,702.64            | \$475.00              | \$50.00            | \$5,747.32            |

\*Preliminary Data as of 10/31/21

DSM Ending Balance: \$1,540,658.05



# Ongoing Activities

- Contract Performance Management (IPP)
- Generation Fuel Supply & Fuel Farm Management
- DSM Rebate Processing & UESC Program
- Renewables (DOAg MOA, Phase I, II & III Projects)
- Energy Storage System
- New Power Plant
- Smart Grid/Network Support
- Planning Studies (Integrated Resource Plan, Distribution Study)
- Project Management
  - Procurement
  - *October 2021 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 (ANF) | FUEL    | Diesel Inspection and Testing Services | NA                                 | NA                             | 12/1/2021        | 11/15/2021           | Contract commencement date: Dec 1, 2021 |
| SPORD (ANF) | FUEL    | Bulk ULSD Supply                       | MS Bid                             | MS GPA-047-21                  | 6/10/2021        | 11/30/2021           | Contract commencement date: Jan 1, 2022 |

**ONGOING PROCUREMENT**

| Responsible | PROJECT    | Description                                                                | Bid or RFP | Bid/RFP No     | Announced  | Bid Opening / Due | Notes                                                                                                                |
|-------------|------------|----------------------------------------------------------------------------|------------|----------------|------------|-------------------|----------------------------------------------------------------------------------------------------------------------|
| SPORD (LOS) | RENEWABLES | Renewable Energy Resource Phase III                                        | MS Bid     | GPA-007-18     | 11/16/2017 | 9/12/2019 (Price) | OPA Released decision in favor of GPA. Protest filed to Superior Court as of Oct 2020. Hearing scheduled for 9/22/21 |
| SPORD (JGS) | EPCM       | Engineering, Procurement & Construction Management (for Ukudu Power Plant) | RFP        | GPA-RFP-21-010 | 9/9/2021   | 10/14/2021        |                                                                                                                      |
| SPORD (ANF) | FUEL       | Diesel Supply to WSD                                                       | MS Bid     | MS GPA-012-22  | 12/14/2021 | 2/11/2022         |                                                                                                                      |

**DEVELOPING PROCUREMENT**

| Responsible | PROJECT    | Description                                                    | Bid or RFP | Projected Start | Projected Completion | Status                                                                                                                                                                                       |
|-------------|------------|----------------------------------------------------------------|------------|-----------------|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SPORD (ANF) | FUEL       | GPA Bulk Fuel Storage Facility PMC                             | MS Bid     | Jan-22          | Jul-21               | Bid Package Preparation In Progress.                                                                                                                                                         |
| SPORD (LOS) | RENEWABLES | Phase IV Renewable Resource Acquisition                        | (TBD)      | Jan-20          | Jun-21               | Scope of Work & Bid Documents currently under AGMETS & SPORD Management review. Changes based on 2021 Reliability Study and 2021 Generation Expansion Plan recommendations will be included. |
| SPORD (RAC) | SCADA      | Replicated Database                                            | RFP        | TBD             | TBD                  | Developing Scope of Work & RFP Documents (No budget this fiscal year)                                                                                                                        |
| SPORD (JTL) | ESS        | Standby Generator & Automatic Transfer Switch for Talofofo ESS | RFP        | FY 2021         | FY 2022              | RFP package pending, need management approval prior to submittal to PMM for advertisement                                                                                                    |
| SPORD (JTL) | RENEWABLES | Installation of Solar Canopy at Fadian Public Parking Area     | (TBD)      | FY 2021         | FY 2023              | Bid Package Preparation Ongoing. Developing Concept design & Interconnection Requirement Details (Fadian Electrical Room Site Visit 11/05/21) Canopy Structure Location Approval pending     |
| SPORD (ANF) | FUEL       | RFO Inspection and Testing Services                            | MS Bid     | Feb-22          | Jul-22               | Bid Package Preparation In Progress.                                                                                                                                                         |

| Assigned to | No. | Project Description                | October 2021 Activities                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Status / Est. Completion                                                                                                                                | RFP/Bid No        |
|-------------|-----|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| LOS         | 1   | Energy Storage System (Phase I)    | Full operation and O&M contract commenced on 3/1/21. Replacement of recalled batteries at the Talofofo ESS site commenced 8/30/21. Replacement of fire suppression system aerosol for the Talofofo ESS control container was completed on 12/3/21 and the ESS resumed service on 12/3/21. Replacement of recalled batteries at the Agana ESS site commenced on 12/6/21 and was completed on 12/23/21. The Agana ESS resumed service on 12/23/21.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Construction phase of contract completed.<br>O&M phase on-going. Talofofo ESS battery replacements completed. Agana ESS battery replacements completed. | MS Bid GPA-082-15 |
| FJI         | 2   | Renewable Energy Resource Phase II | <p>- KEPCO overall project is approximately 96.73% complete and all PV Panels and Battery Inverters Stations installed. Samsung is still working with GEPA on NOV compliance. The new target for commissioning is March 2022.</p> <p>- Hanwha's design, construction permit and site grading and clearing are ongoing. Hanwha is anticipating to complete the site clearing and grading work by February 2022.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <p>KEPCO PV plant COD is extended from January 21, 2022 to May 20, 2022.</p> <p>Hanwha's COD is extended from Aug 22, 2022 to Dec 22, 2023.</p>         | MS Bid GPA-070-16 |
| FJI         | 3   | New Power Plant Bid (EPCM)         | <p>Progress includes:</p> <p><b>Guam EPA/ USEPA</b> - Revision to Ukudu Plant air permit under USEPA/GEPA review. Minor Source permit for the reserve engine facility is being pursued after GPA's meeting with USEPA.</p> <p><b>GWA</b> - GWA hasn't signed off on the agreement. GPA/GEPA/Doosan met with DPW to discuss water source for the power plant.</p> <p><b>Pipeline Activities</b> - Pigging and removal for the Tanguisson pipeline are ongoing. Another oil leak incident occurred and clean-up completed.</p> <p><b>EPCM Contract</b> - New EPCM RFP was cancelled due to lack of competitive bid.</p> <p><b>Buffer Zone Issue</b> - GPA seeking to get waiver through legislature for Piti location of the Ukudu back up diesel units.</p> <p><b>Section 106</b> - Pending the Harmon Substation design drawings.</p> <p><b>Substation (Single Line Diagram) Design</b> - Doosan visited Harmon Substation for design assessment. GPA's team met with Doosan to discuss substation design. Design still under review.</p> <p><b>Construction Activities</b> - Ukudu Power Plant site clearing/grading is ongoing. Temporary power work is ongoing (most of the power poles are installed). Doosan completed asbestos removal from site.</p> <p><b>Design Activities</b> - KEPCO/Doosan has submitted power plant and pipeline design drawings for review. KEPCO/Doosan have requested information for the Navy easement at the Chaot Bridge so they can finalize their design.</p> <p><b>Zone Variance for Height</b> - Notice of action to be finalized.</p> <p><b>Lender's Questions</b> - GPA's team is still addressing additional questions.</p> | ECA Project COD -Target<br>November 2023 (NLT April 2024)                                                                                               | MS GPA-034-18     |

GPA Work Session - January 20, 2022 - GM REPORT UPDATES

| Assigned to | No. | Project Description                                                                                                            | October 2021 Activities                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Status / Est. Completion                                   | RFP/Bid No                        |
|-------------|-----|--------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|-----------------------------------|
| FJI         | 4   | DSM Marketing                                                                                                                  | - The following tasks - EV dealership survey, K-12 Stem marketing kit, commercial rebate program - factsheets, website updates, media press plan, and Energy Sense Survey are in progress.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Continuos                                                  |                                   |
| FJI         | 5   | DSM Rebate Program                                                                                                             | Processed 557 applications for rebates totaling \$152K in the reporting period (Dec 2021).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Continuous                                                 |                                   |
| RAC         | 6   | Wireless Network Expansion                                                                                                     | Commenced Southern Expansion<br>Dandan Substation Installation Design - Waiting on Materials for installation<br>Apra Heights Installation Design - Waiting on Materials for installation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Dec-22<br>Dec-22                                           | GPA-RFP-19-010                    |
| RAC         | 7   | Smartworks MDM and Eportal                                                                                                     | Data Migration from Oracle to Postgres Planned on Jan-22 (Upgrade to latest version pre-requisite)<br>MDM Upgrade on Existing Test and Production System Completed. Eportal Upgrade Completed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Feb-22                                                     | GPA-RFP-19-007                    |
| JTL         | 8   | GDOE BEST Schools                                                                                                              | <b><u>2019 DOI Award Projects:</u></b><br><b>Agueda Johnston Middle School LED Lighting Retrofit (\$586,771) and Maria Ulloa Elementary School LED Lighting Retrofit (\$522,616).</b><br>- LED Retrofit at Maria Ulloa Elementary School substantially completed, pending punchlist. LED Retrofit at Agueda Johnston Middle substantially completed, pending punchlist.<br><br>- GPA requested for reallocation/reprogram of funds in excess of Ulloa & Johnston schools updated costs (~\$80,480) for Southern High School exterior HPS lighting fixtures to LEDs and Agueda Johnston SOW modifications. Approval from Department of Interior pending.<br><br><i>GPA received Authorization to Proceed from DOI on 9/11/20. Guam DOE signed MOAs for both schools on 3/10/21. Notice to Proceed was provided to Siemens on 3/10/21.</i> | Construction Start: June 2021<br>Est. Completion: Feb 2022 | GPA-RFP-16-013                    |
| RAC         | 9   | Consulting Services for Smart Grid Analytics Enabled Distribution System Planning, Technical, and Economic Feasibility Studies | L+G submitted remaining reports.<br>LG updating GPA comments on reports.<br>Reports updates due for the Apra Substation - Due Jan-22 (Delay due to reporter had CoVid)<br>5 remaining Substation update reports - Due Feb -22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Continuous                                                 | RE-SOLICITATION<br>GPA-RFP-19-002 |
| VAT         | 10  | MEC Piti & #8 and #9 - ECA Extension                                                                                           | Contract Extension commenced 12:00 Noon January 29, 2019. (No issues)<br>Review and adjustment of Recapitalization Projects in-progress. (No issues)<br>ULSD Conversion CIP finalized with MEC & BWSC. Second Milestone Payment completed on April 12021. 100% Design est. completion by October 2021.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | IN PROGRESS                                                | (N/A)                             |

GPA Work Session - January 20, 2022 - GM REPORT UPDATES

|     | No. | Project Description                          | October 2021 Activities                                                                                                                                                                                                                                                  | Status / Est. Completion                                                             | RFP/Bid No                 |
|-----|-----|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|----------------------------|
| RAC | 11  | EV Infrastructure                            | Fast charge station scope for Mangilao offices.<br>Developing fast charge station scope for Mangilao offices.                                                                                                                                                            | On-Hold                                                                              |                            |
| JGS | 12  | Renewable Energy Resource Phase III          | OPA released decision 9/2020. Protest filed to Superior Court in October 2020. Hearing in September 2021 but no oral arguments.                                                                                                                                          | TBD                                                                                  | GPA-007-18                 |
| FJI | 13  | Utility Energy Services Contract (UESC)      | - Continued work with GDOE on Best Schools Program (Grant & Pilot).<br>- Obtained extension through March 2022 approval on AAFB parking lot lighting upgrade due to site condition findings (~\$198K).<br>- Siemens continued work on the Investment Grade Audit for UOG | Ongoing                                                                              |                            |
| ANF | 14  | GPA Fuel Farm ULSD Pipeline Upgrade          | c/o Engineering Project Mgt. Design in progress. Delays due to COVID will move project completion into early 2022.                                                                                                                                                       | Project Timeline:<br>Estimated Start: Jan 2020<br>Est. Completion: Dec 2021-Mar 2022 | IFB GPA-027-19             |
| ANF | 15  | Tk 1934 & Tk1935 API 653 Internal Inspection | c/o Engineering Project Mgt. Implementation in progress. Delays were experienced for Tank 1935 due to COVID and sludge processing however the total project schedule may still be within the projection completion date.                                                 | Project Timeline:<br>Estimated Start: Feb 2020<br>Est. Completion: Dec 2022          | IFB GPA-028-19             |
| RAC | 16  | Milsoft Systems Software Services            | OMS Training being completed on week of Sept 12. Upgrade of OMS production planned December pending resources. Integration to SEL devices ongoing                                                                                                                        | Continuous                                                                           | GPA-RFP-18-003             |
| RAC | 17  | MV90 Integration Services                    | Production Implementation Completed                                                                                                                                                                                                                                      | Oct-21                                                                               | GPA-RFP-18-001             |
| VAT | 18  | Grant Support                                | Continued grant development and execution.<br><b>For Guam Energy Office Grant:</b><br>1. Energy Management Plan ongoing.<br>2. EnergySmart Schools Conference Nov. 17, 2021.<br>3. Project closeout in progress                                                          | GEO MOA Finalize: Sept '19<br>Grant Scope Completion: Dec. '21                       |                            |
| ANF | 19  | GPA Fuel Farm- OWS Upgrading                 | c/o Engineering Project Mgt. Scope included in Tk 1934 & Tk1935 API 653 Internal Inspection and repair. Implementation in progress                                                                                                                                       | Project Timeline:<br>Estimated Start: Feb 2020<br>Est. Completion: Dec 2022          | IFB GPA-028-19             |
| ANF | 20  | GPA Fuel Farm- LD System Upgrading           | c/o Engineering Project Mgt. Scope included in Tk 1934 & Tk1935 API 653 Internal Inspection and repair. Implementation in progress                                                                                                                                       | Project Timeline:<br>Estimated Start: Feb 2020<br>Est. Completion: Dec 2022          | IFB GPA-028-19             |
| LOS | 21  | Integrated Resource Plan                     | IRP Kickoff Meeting completed on January 29, 2021, and 2nd meeting completed on March 26, 2021. 3rd Meeting completed on December 10, 2021. Vols 1,2,3,4,7 and 8 are printed, signed and submitted to CCU.                                                               | Oct-21                                                                               | GPA-RFP-17-002 / UFS / S&P |
| LOS | 22  | Energy Storage Development Support           | Consultant provided support for third-party commissioning services.                                                                                                                                                                                                      | Work Completed - PO expired 9/30/21                                                  | GPA-RFP-13-007             |

GPA Work Session - January 20, 2022 - GM REPORT UPDATES

|     | No. | Project Description                      | October 2021 Activities                                                                                                                                                                                         | Status / Est. Completion                                                                                               | RFP/Bid No        |
|-----|-----|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|-------------------|
| LOS | 23  | Utility Resource Planning Software RFP.  | RFP cancelled. A new RFP is being developed and scheduled for announcement in FY 2022. Budget is approved for FY 2023, so work will be planned to commence in FY 2023.                                          | Planned Completion: 9/30/2023                                                                                          | TBD               |
| LOS | 24  | Power System Analyses and Studies        | Signed contract and PO Acknowledgement received from S&C. System impact studies for Phase III are on hold due to Phase III Protest.                                                                             | Estimated Start: TBD<br>Est. Completion: TBD                                                                           |                   |
| ANF | 25  | Diesel Supply to Tenjo Vista             | Bid Package prepared. Approved by CCU (Resolution 2020-02) and PUC (Docket 20-07). For solicitation.                                                                                                            | Project Timeline:<br>Estimated Start: TBD<br>Est. Completion: TBD                                                      | TBD               |
| ANF | 26  | GPA Fuel Farm Mgt Contract               | 2nd & 3rd Year Contract Extension (10/01/20-09/30/22) approved by CCU (Resolution 2020-03) and PUC (Docket 20-08).                                                                                              | 2-year base period: Completed 09/30/19<br>1st Year Extn: Completed 09/30/20<br>2nd & 3rd Yr Extn: 10/01/20 to 09/30/22 | MS IFB GPA-014-17 |
| ANF | 27  | RFO Supply to Baseload Plants            | Contract awarded to Hyundai Corporation<br>ContractTerm: 3-year base period: 09/01/20 to 08/31/23 w/ 2 Year Extn Option                                                                                         | 3-year base period: 9/1/2020-8/31/2023                                                                                 | MS IFB GPA-050-20 |
| LOS | 28  | Reliability Studies                      | RFQ to complete SC-MVA analysis supplementing Reliability Study and Generation Expansion Plan issued and awarded in Sept 2021.                                                                                  | Est. Completion: 9/30/2022                                                                                             | S&C               |
| ANF | 29  | RFO Testing Services Contract            | Contract awarded to SGS Guam<br>ContractTerm: 2-year base period w/ 3 Year Extn Option                                                                                                                          | 2-year base period: 9/1/2020-8/31/2022                                                                                 | MS IFB GPA-013-20 |
| HJC | 30  | DSM Digitization                         | UAT concluded but did not pass. Vendor is making necessary updates based on UAT results. Migration to production, marketing plan, and training are all currently still in progress. Target Go Live is 2/2/2022. | Project Start: Sep 2020<br>Est. Completion: 3/15/2022                                                                  | TBD               |
| ANF | 31  | Diesel Supply (except Tenjo Vista & WSD) | Resolution 2021-09 passed by CCU. PUC approved GPA Docket 21-09 (3 consecutive year extension).                                                                                                                 | 2-year base period: 01/01/19-12/31/21<br>3-Yrs extension: 01/01/22-12/31/24                                            | GPA-008-18        |

# CCU Report- DSM

As of October 31, 2021

*\*Data still being gathered for 12/2021*

# All Expenses – Fiscal Year

| Description               | FY16                | FY17                | FY18                  | FY19                  | FY20                  | FY21                  | FY22               | Total to Date         |
|---------------------------|---------------------|---------------------|-----------------------|-----------------------|-----------------------|-----------------------|--------------------|-----------------------|
| Regular/OT Pay            | \$11,348.80         | \$22,256.00         | \$26,121.83           | \$50,715.19           | \$47,402.18           | \$162,395.40          | \$11,296.75        | \$331,536.15          |
| Other Contractual         | \$28,278.50         | \$85,550.05         | \$116,977.50          | \$3,025.00            | -                     | \$107,854.90          |                    | \$341,685.95          |
| Ads & Radio Announcements | -                   | -                   | -                     | \$9,000.00            | -                     | -                     |                    | \$9,000.00            |
| Paid Rebates–Split AC     | \$154,700.00        | \$557,275.00        | \$1,349,825.00        | \$1,374,650.00        | \$1,468,001.00        | \$1,855,550.00        | \$55,900.00        | \$6,815,901.00        |
| Paid Rebates–Central AC   | \$3,400.00          | \$8,200.00          | \$4,400.00            | \$6,500.00            | \$2,400.00            | \$3,900.00            |                    | \$28,800.00           |
| Paid Rebates–Washer/Dryer | \$2,800.00          | \$7,425.00          | \$57,200.00           | \$110,800.00          | \$91,003.00           | \$134,497.00          | \$9,600.00         | \$413,325.00          |
| <b>Total Expenses</b>     | <b>\$200,527.30</b> | <b>\$680,706.05</b> | <b>\$1,554,524.33</b> | <b>\$1,554,690.19</b> | <b>\$1,608,806.18</b> | <b>\$2,264,197.30</b> | <b>\$76,796.75</b> | <b>\$7,940,248.10</b> |
| Bank Interest (+)         | \$1,676.42          | \$1,722.74          | \$1,222.29            | \$730.05              | \$439.12              | \$320.72              | \$63.97            | \$6,175.31            |
| Bank Fees                 | \$155.00            | \$1,032.06          | \$1,085.08            | \$1,247.54            | \$1,702.64            | \$475.00              | \$50.00            | \$5,747.32            |

*\*Preliminary Data as of 10/31/21*



# DSM Funding

| No. | Description                            | Amount                |
|-----|----------------------------------------|-----------------------|
| 1   | Initial DSM Budget FY 2016             | \$1,806,014.00        |
| 2   | Interest Income                        | \$6,175.31            |
| 3   | Bank Fees                              | \$5,747.32            |
| 4   | Additional Funding Source              |                       |
|     | 2017 Bond Refunding savings            | \$1,139,189.00        |
|     | FY 2019 Revenue Funding                | \$1,031,500.00        |
|     | FY 2020 Revenue Funding                | \$348,075.00          |
|     | FY2020 LEAC (June to September)        | \$1,296,397.67        |
|     | FY2021 LEAC (October 2020 to Aug 2021) | \$3,859,302.49        |
| 5   | Total Funding Source                   | \$9,480,906.15        |
| 6   | Total Expense FY2016 –FY2022           | \$7,940,248.10        |
|     | <b>DSM Ending Balance – LEAC Funds</b> | <b>\$1,540,658.05</b> |

*\*Preliminary Data as of 10/31/21*

## FY 2020- Rebate Amount Paid Monthly

| Month   | Total          | Split A/C Units | Central A/C Units | Washers/ Dryers |
|---------|----------------|-----------------|-------------------|-----------------|
| OCT '19 | \$130,450.00   | \$119,350.00    | \$500.00          | \$10,600.00     |
| NOV '19 | \$14,900.00    | \$14,300.00     | \$0.00            | \$600.00        |
| DEC '19 | \$116,775.00   | \$105,875.00    | \$500.00          | \$10,400.00     |
| JAN '20 | \$39,050.00    | \$36,650.00     | \$0.00            | \$2,400.00      |
| FEB '20 | \$65,050.00    | \$60,450.00     | \$0.00            | \$4,600.00      |
| MAR '20 | \$96,425.00    | \$86,825.00     | –                 | \$9,600.00      |
| APR '20 | –              |                 | –                 |                 |
| MAY '20 | \$21,325.00    | \$19,525.00     | –                 | \$1,800.00      |
| JUN '20 | \$148,825.00   | \$141,225.00    | –                 | \$7,600.00      |
| JUL '20 | \$139,450.00   | \$127,150.00    | \$500.00          | \$11,800.00     |
| AUG '20 | \$50,775.00    | \$45,175.00     | –                 | \$5,600.00      |
| SEP '20 | \$381,725.00   | \$360,925.00    | \$0.00            | \$20,800.00     |
| TOTALS  | \$1,204,750.00 | \$1,117,450.00  | \$1,500.00        | \$85,800.00     |

## FY 2021- Rebate Amount Paid Monthly

| Month   | Total           | Split A/C Units | Central A/C Units | Washers/ Dryers |
|---------|-----------------|-----------------|-------------------|-----------------|
| OCT '20 | \$ 110,825.00   | \$ 110,325.00   | \$ 500.00         | –               |
| NOV '20 | \$ 151,925.00   | \$ 142,425.00   | \$ 500.00         | \$ 9,000.00     |
| DEC '20 | \$ 180,075.00   | \$ 173,975.00   | \$ 500.00         | \$ 5,600.00     |
| JAN '21 | \$ 158,450.00   | \$ 153,650.00   | \$ –              | \$ 4,800.00     |
| FEB '21 | \$ 91,100.00    | \$ 86,100.00    | \$ –              | \$ 5,000.00     |
| MAR '21 | \$ 310,600.00   | \$ 295,200.00   | \$ –              | \$ 15,400.00    |
| APR '21 | \$ 154,750.00   | \$ 146,650.00   | \$ 500.00         | \$ 7,600.00     |
| MAY '21 | \$ 300,000.00   | \$ 278,000.00   | \$ –              | \$ 22,000.00    |
| JUN '21 | \$ 47,975.00    | \$ 41,575.00    | \$ 800.00         | \$ 5,600.00     |
| JUL '21 | \$ 301,875.00   | \$ 280,675.00   | \$ 1,000.00       | \$ 20,200.00    |
| AUG '21 | \$ 178,575.00   | \$ 164,875.00   | \$ –              | \$ 13,700.00    |
| SEP '21 | \$ 195,800.00   | \$ 180,000.00   | \$ 1,600.00       | \$ 14,200.00    |
| TOTALS  | \$ 2,181,950.00 | \$ 2,053,450.00 | \$ 5,400.00       | \$ 123,100.00   |

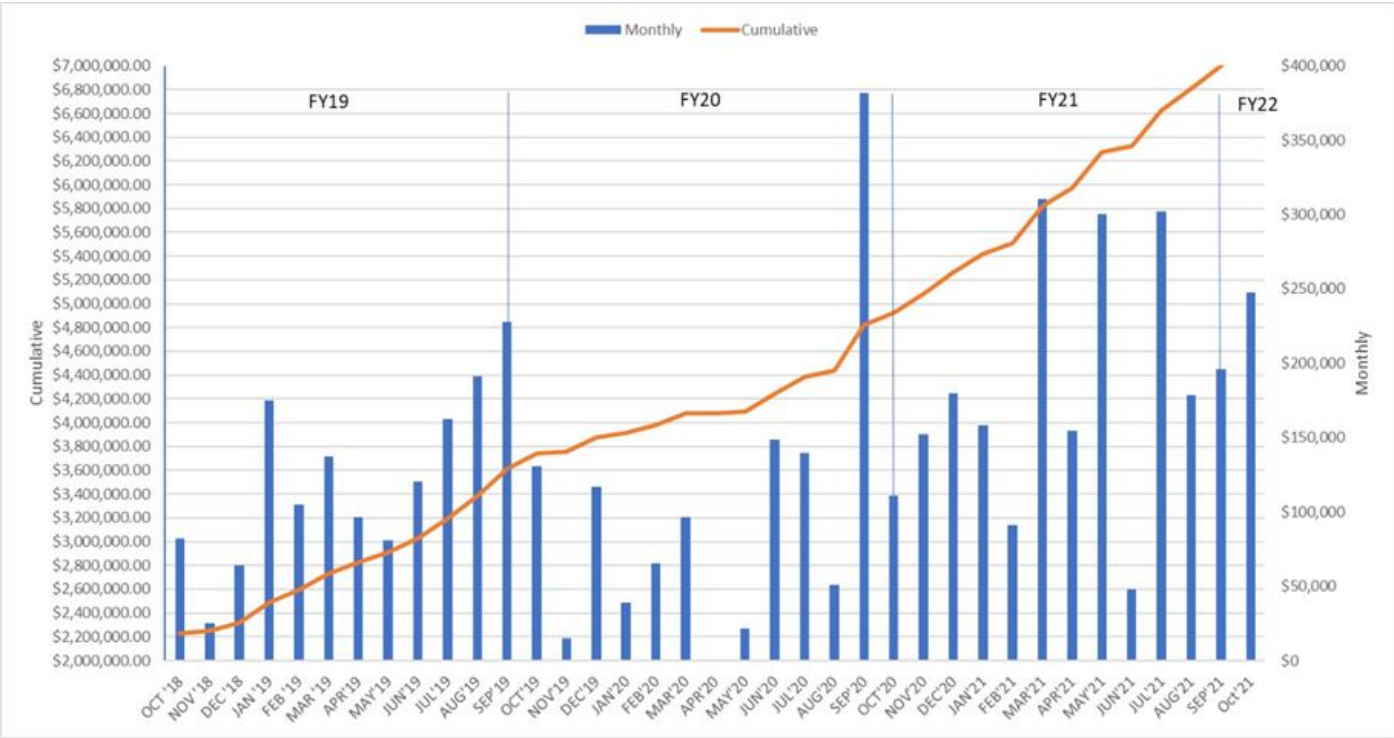
*\*Preliminary Data as of 9/30/21*

## FY 2022- Rebate Amount Paid Monthly

| Month   | Total         | Split A/C Units | Central A/C Units | Washers/ Dryers |
|---------|---------------|-----------------|-------------------|-----------------|
| OCT '21 | \$ 247,325.00 | \$ 221,125.00   |                   | \$ 26,200.00    |
| NOV '21 |               |                 |                   |                 |
| DEC '21 |               |                 |                   |                 |
| JAN '22 |               |                 |                   |                 |
| FEB '22 |               |                 |                   |                 |
| MAR '22 |               |                 |                   |                 |
| APR '22 |               |                 |                   |                 |
| MAY '22 |               |                 |                   |                 |
| JUN '22 |               |                 |                   |                 |
| JUL '22 |               |                 |                   |                 |
| AUG '22 |               |                 |                   |                 |
| SEP '21 |               |                 |                   |                 |
| TOTALS  | \$ 247,325.00 | \$ 221,125.00   | \$ -              | \$ 26,200.00    |

*\*Preliminary Data as of 9/30/21*

# FY'19- FY'22 Rebate Amount Paid



## 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 | 353         | 51              |
| DEC '19 | 445         | 363             |
| JAN'20  | 431         | 126             |
| FEB '20 | 394         | 205             |
| MAR '20 | 194         | 292             |
| APR '20 | -           | -               |
| MAY '20 | 435         | 41              |
| JUN '20 | 825         | 501             |
| JUL '20 | 824         | 618             |
| AUG '20 | 410         | 838             |
| SEP '20 | 425         | 500             |

## FY 2021 Number of Applications Received By Customer Service and Paid Monthly

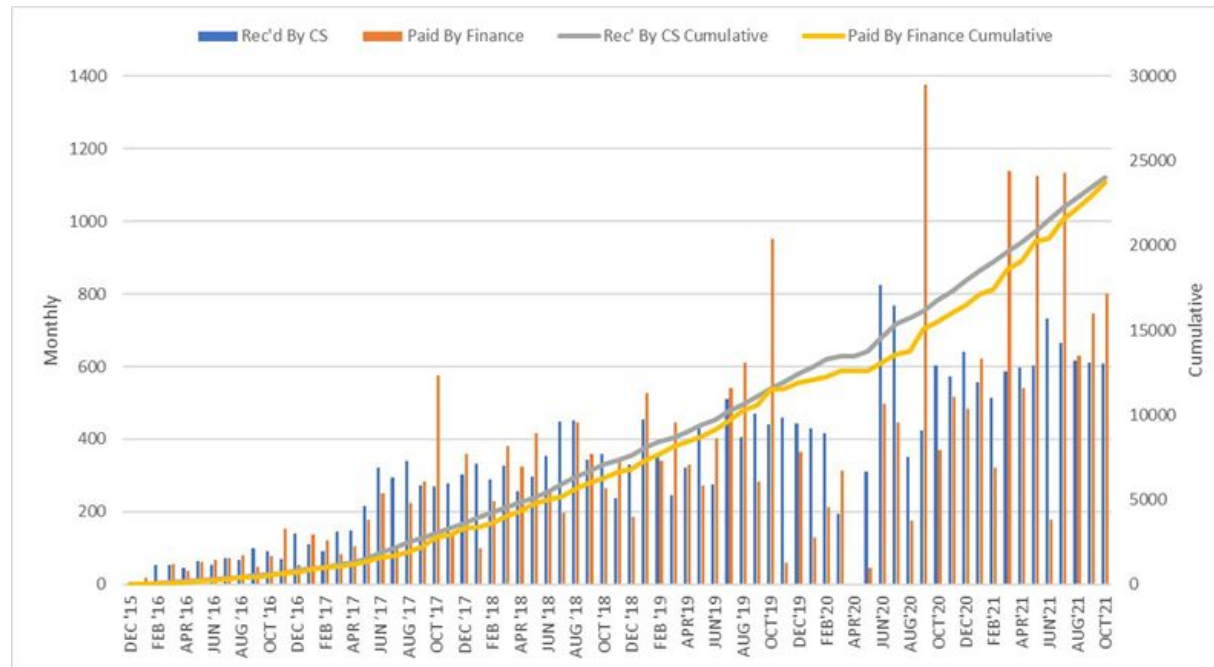
| Month   | Rec'd By CS | Paid By Finance |
|---------|-------------|-----------------|
| OCT '20 | 603         | 370             |
| NOV '20 | 573         | 516             |
| DEC '20 | 640         | 484             |
| JAN'21  | 557         | 621             |
| FEB '21 | 512         | 322             |
| MAR '21 | 587         | 1139            |
| APR '21 | 598         | 540             |
| MAY '21 | 603         | 1124            |
| JUN '21 | 733         | 178             |
| JUL '21 | 665         | 1133            |
| AUG '21 | 590         | 631             |
| SEP '21 | 603         | 747             |

## FY 2022 Number of Applications Received By Customer Service and Paid Monthly

| Month   | Rec'd By CS | Paid By Finance |
|---------|-------------|-----------------|
| OCT '21 | 608         | 801             |
| NOV '21 |             |                 |
| DEC '21 |             |                 |
| JAN'22  |             |                 |
| FEB '22 |             |                 |
| MAR '22 |             |                 |
| APR '22 |             |                 |
| MAY '22 |             |                 |
| JUN '22 |             |                 |
| JUL '22 |             |                 |
| AUG '22 |             |                 |
| SEP '22 |             |                 |



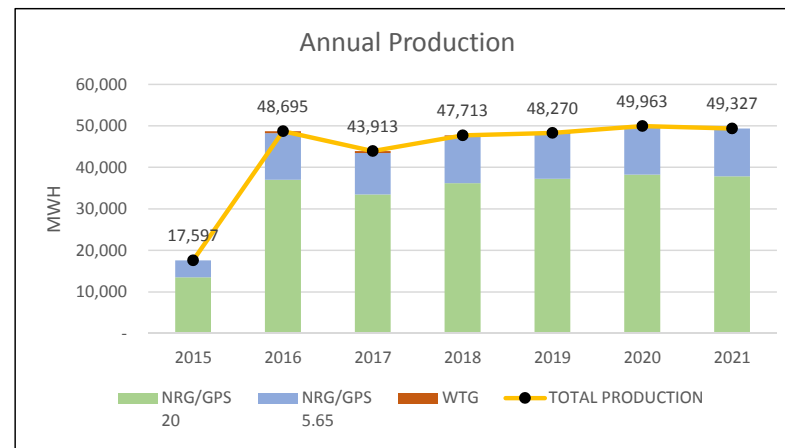
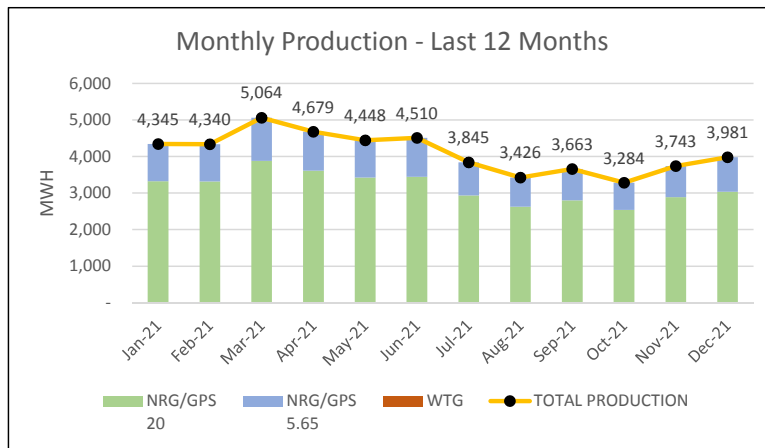
## FY'18 - FY'21 Number of Applications Received By Customer Service and Paid



# Renewable Energy Production CCU Report

December 31, 2021

# Renewable Energy Charts



# Renewable Energy Data

**Monthly Renewable Production - Last 12 Months (LTM)**

| Date         | NRG/GPS<br>20    | NRG/GPS<br>5.65  | WTG      | TOTAL<br>PRODUCTION |
|--------------|------------------|------------------|----------|---------------------|
| Jan-21       | 3,323.45         | 1,021.14         | -        | 4,344.60            |
| Feb-21       | 3,318.26         | 1,021.24         | -        | 4,339.50            |
| Mar-21       | 3,880.61         | 1,183.49         | -        | 5,064.10            |
| Apr-21       | 3,613.77         | 1,064.99         | -        | 4,678.76            |
| May-21       | 3,428.20         | 1,019.55         | -        | 4,447.75            |
| Jun-21       | 3,443.80         | 1,066.39         | -        | 4,510.19            |
| Jul-21       | 2,938.64         | 906.25           | -        | 3,844.90            |
| Aug-21       | 2,627.57         | 798.27           | -        | 3,425.84            |
| Sep-21       | 2,799.56         | 863.31           | -        | 3,662.87            |
| Oct-21       | 2,539.45         | 744.89           | -        | 3,284.35            |
| Nov-21       | 2,891.96         | 851.21           | -        | 3,743.16            |
| Dec-21       | 3,036.19         | 944.45           | -        | 3,980.63            |
| <b>Total</b> | <b>37,841.47</b> | <b>11,485.18</b> | <b>-</b> | <b>49,326.65</b>    |

**Annual Renewable Production**

| Date         | NRG/GPS<br>20     | NRG/GPS<br>5.65  | WTG             | TOTAL<br>PRODUCTION |
|--------------|-------------------|------------------|-----------------|---------------------|
| 2015         | 13,522.50         | 4,074.07         | -               | 17,596.57           |
| 2016         | 37,037.15         | 11,183.91        | 473.53          | 48,694.59           |
| 2017         | 33,472.41         | 9,983.29         | 456.90          | 43,912.60           |
| 2018         | 36,158.00         | 11,228.24        | 327.02          | 47,713.25           |
| 2019         | 37,247.12         | 10,792.06        | 231.26          | 48,270.44           |
| 2020         | 38,249.82         | 11,393.79        | 319.85          | 49,963.46           |
| 2021         | 37,841.47         | 11,485.18        | -               | 49,326.65           |
| <b>Total</b> | <b>233,528.47</b> | <b>70,140.53</b> | <b>1,808.57</b> | <b>305,477.57</b>   |

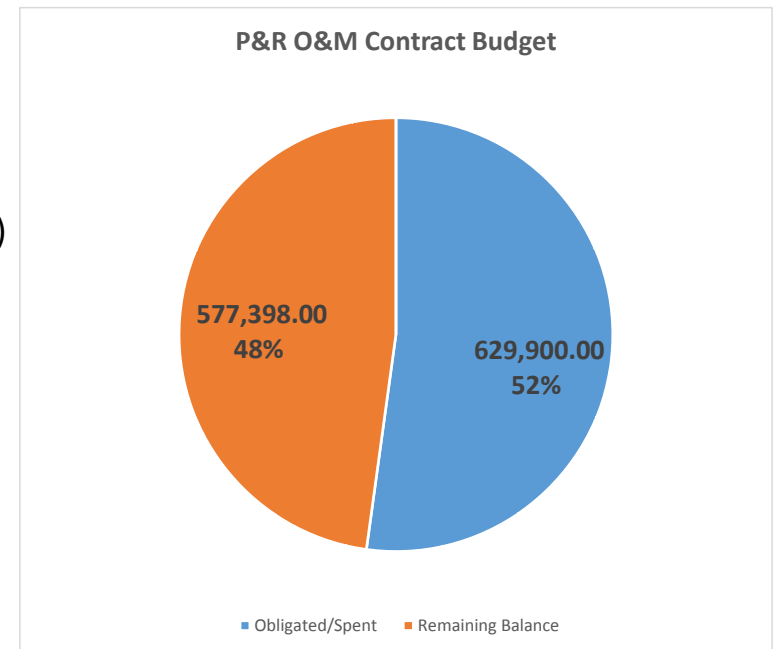
- Dandan / GPS = Phase I Solar commissioned on 10/2015
- WTG = Wind Turbine Generation
- Data as of December 2021 in MWH

# Planning & Regulatory CCU Report

December 31, 2021

# Planning & Regulatory O&M Contract Budget

- Revenue Funded
- Target
  - 46.80% O&M Obligation as of October 31, 2021 (Actual)
  - 52.17% O&M Obligation as of December 31, 2021 (Actual)



## 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

| <b>WEEKLY BMP REPORT SUMMARY</b><br><b>CABRAS POWER PLANT</b><br><b>MONTH OF DECEMBER 2021</b>                                                                                           |                                           |                                           |                                           |                                           |                                                                                                     |                             |          |                       |          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|-----------------------------------------------------------------------------------------------------|-----------------------------|----------|-----------------------|----------|
| <div> <div>LEGEND OF TRACKING</div> <div> <div>Notification Date</div> <div>Completed</div> <div>Within Scheduled Remediation Period</div> <div>Deadline is Past Due</div> </div> </div> |                                           |                                           |                                           |                                           |                                                                                                     |                             |          |                       |          |
| LOCATION                                                                                                                                                                                 | WE<br>12/03/21<br>FINDINGS                | WE<br>12/10/21<br>FINDINGS                | WE<br>12/17/21<br>FINDINGS                | WE<br>12/31/21<br>FINDINGS                | RECOMMENDATION/<br>REMARKS                                                                          | INITIAL<br>FINDINGS<br>DATE | DUE DATE | DATE<br>COMPLETE<br>D | RESPONSE |
| Cabras Facility                                                                                                                                                                          |                                           |                                           |                                           |                                           |                                                                                                     |                             |          |                       |          |
|                                                                                                                                                                                          | Fuel Treatment Area -<br>trash and meatal | Fuel Treatment Area -<br>trash and meatal | Fuel Treatment Area -<br>trash and meatal | Fuel Treatment Area -<br>trash and meatal | Conduct cleanup and dispose of<br>metal                                                             | 8/27/2021                   | ASAP     |                       |          |
|                                                                                                                                                                                          | Fuel Teratment Area -<br>oil in trench    | Fuel Teratment Area -<br>oil in trench    | Fuel Teratment Area -<br>oil in trench    | Fuel Teratment Area -<br>oil in trench    | Remove oil and conduct cleanup                                                                      | 8/27/2021                   | ASAP     |                       |          |
|                                                                                                                                                                                          | C3&4 building ground-<br>oil on the pit   | C3&4 building ground-<br>oil on the pit   | C3&4 building ground-<br>oil on the pit   | C3&4 building ground-<br>oil on the pit   | Remaining oil must be pumped out<br>to prevent accidental overflow due<br>to rainwater accumulation | 6/12/2020                   | ASAP     |                       |          |
|                                                                                                                                                                                          | C3&4 building - used<br>booms and debris  | C3&4 building - used<br>booms and debris  | C3&4 building - used<br>booms and debris  | C3&4 building - used<br>booms and debris  | Remove and dispose                                                                                  | 8/27/2021                   | ASAP     |                       |          |

## Weekly BMP Report

| <p align="center"><b>WEEKLY BMP REPORT SUMMARY</b><br/> <b>CABRAS POWER PLANT</b><br/> <b>MONTH OF DECEMBER 2021</b></p> <p align="center"><b>LEGEND OF TRACKING</b></p> <p> <span style="background-color: yellow; border: 1px solid black; display: inline-block; width: 15px; height: 10px; vertical-align: middle;"></span> Notification Date         <span style="background-color: green; border: 1px solid black; display: inline-block; width: 15px; height: 10px; vertical-align: middle; margin-left: 100px;"></span> Completed<br/> <span style="background-color: orange; border: 1px solid black; display: inline-block; width: 15px; height: 10px; vertical-align: middle;"></span> Within Scheduled Remediation Period         <span style="background-color: red; border: 1px solid black; display: inline-block; width: 15px; height: 10px; vertical-align: middle; margin-left: 100px;"></span> Deadline is Past Due       </p> |                                                           |                                                           |                                                           |                                                           |                                          |                             |          |                       |          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------|------------------------------------------|-----------------------------|----------|-----------------------|----------|
| LOCATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | WE<br>12/03/21<br>FINDINGS                                | WE<br>12/10/21<br>FINDINGS                                | WE<br>12/17/21<br>FINDINGS                                | WE<br>12/31/21<br>FINDINGS                                | RECOMMENDATION/<br>REMARKS               | INITIAL<br>FINDINGS<br>DATE | DUE DATE | DATE<br>COMPLETE<br>D | RESPONSE |
| Cabras Facility                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                           | Across C1&2 -<br>corroded containers                      | Across C1&2 -<br>corroded containers                      | Across C1&2 -<br>corroded containers                      | Remove or replace corroded<br>containers | 12/10/2021                  | ASAP     |                       |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Pavillion Area - metal<br>debris in the area              | Pavillion Area - metal<br>debris in the area              | Pavillion Area - metal<br>debris in the area              | Pavillion Area - metal<br>debris in the area              | Remove and dispose                       | 8/13/2021                   | ASAP     |                       |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Dumpster area - Some<br>household items were<br>dumped    | Dumpster area - Some<br>household items were<br>dumped    | Dumpster area - Some<br>household items were<br>dumped    | Dumpster area - Some<br>household items were<br>dumped    | Dispose                                  | 7/16/2021                   | ASAP     |                       |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Cool water intake -<br>corroded intake covers             | Cool water intake -<br>corroded intake covers             | Cool water intake -<br>corroded intake covers             | Cool water intake -<br>corroded intake covers             | Chip corrosion recoat                    | 7/23/2021                   | ASAP     |                       |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Tank #1-#4 Refilling<br>Valve Pit - water<br>accumulation | Tank #1-#4 Refilling<br>Valve Pit - water<br>accumulation | Tank #1-#4 Refilling<br>Valve Pit - water<br>accumulation | Tank #1-#4 Refilling<br>Valve Pit - water<br>accumulation | Drain water & monitor regularly          | 8/13/2021                   | ASAP     |                       |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 20' Container Near<br>Ponding Basin -<br>corroded ladder  | 20' Container Near<br>Ponding Basin -<br>corroded ladder  | 20' Container Near<br>Ponding Basin -<br>corroded ladder  | 20' Container Near<br>Ponding Basin -<br>corroded ladder  | Remove and dispose                       | 8/27/2021                   | ASAP     |                       |          |

37

## T&amp;D SPCC Inspection Report

SUMMARY OF SPCC MONTHLY INSPECTION REPORT

MONTH OF DECEMBER 2021

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 (T-55, T-191, & T-192)) | Clean                    |                                                           |                        |        |             |                 |          |                       |
| DEDEDO SUBSTATION WAREHOUSE               | Sump Area                | Debris around the area                                    | Dispose                |        |             |                 | ASAP     | Oct. 2021             |
|                                           | Transformer Storage Area | Scrap metal in the area                                   | Dispose                |        |             |                 | ASAP     | July 2021             |
|                                           |                          |                                                           |                        |        |             |                 |          |                       |
| MACHECHE SUBSTATION                       | Secondary Containment    | NO CORRECTIVE ACTION                                      |                        |        |             |                 |          |                       |
| TALOFOFO SUBSTATION                       | Secondary Containment    | Water accumulation in sec. containment if T80 transformer | Drain Water            |        |             |                 | ASAP     | Nov. 2021             |
| TENJO SUBSTATION                          |                          | NO CORRECTIVE ACTION                                      |                        |        |             |                 |          |                       |
| YIGO SUBSTATION                           | Secondary Containment    | NO CORRECTIVE ACTION                                      |                        |        |             |                 |          |                       |

## Generation SPCC Inspection Report

SUMMARY OF SPCC MONTHLY INSPECTION REPORT

MONTH OF DECEMBER 2021

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 |                                                                   |                                                |                                                               |                             |             |                 |          |                       |
|                    |                                                                   |                                                |                                                               |                             |             |                 |          |                       |
|                    | Cabras 8" supply line                                             | No secondary containment                       | Frequent monitoring for leaks, corrosion & deterioration must |                             |             |                 | ASAP     | Nov. 2021             |
|                    | Cabras 3&4 Generator Building                                     | Oil coming out from the trenches               | Remove oil and conduct cleanup                                |                             |             |                 |          | July 2021             |
|                    | Cabras 1&2 Diesel Tank & C3&4 Service Tanks Secondary Containment | Water accumulation                             | Drain Water                                                   | Corrective action completed |             | Dec.2021        | ASAP     | Nov. 2021             |
|                    | Tank 3 Pipelines                                                  | Corroded pipelines                             | Conduct repair                                                |                             |             |                 | ASAP     | Sept 2021             |
| DEDEDO CT          | OWS Containment                                                   | Rainwater in secondary containment             | Drain water                                                   | Corrective action completed |             | Dec.2021        | ASAP     | July 2021             |
|                    | OWS Containment                                                   | mold/corroded tank surface                     | remove molds & repaint tank surf.                             |                             |             |                 | ASAP     | Dec. 2021             |
|                    | Pipeline                                                          | Surface corrosion                              | Repaint                                                       |                             |             |                 | ASAP     | Aug 2021              |
| MACHECHE CT        | Tank No. 140                                                      | Corroded flange                                | Remove rust and repaint                                       |                             |             |                 | ASAP     | Aug 2021              |
|                    | Tank T-130/140                                                    | Surface corrosion                              | Remove corrosion, repaint                                     |                             |             |                 | ASAP     | July 2021             |
|                    | Water Softener Tank                                               | Corroded                                       | Verify/repair                                                 |                             |             |                 | ASAP     | July 2021             |
|                    | OWS                                                               | Rainwater & algae, disconnected pipe           | Remove water & algae & repair pipeline connection             |                             |             |                 | ASAP     | Dec.2021              |
|                    | Tank No. 140                                                      | Rust buildup on foundation (several locations) | Remove rust, repaint                                          |                             |             |                 | ASAP     | Jan. 2021             |

## Generation SPCC Inspection Report (cont.)

SUMMARY OF SPCC MONTHLY INSPECTION REPORT

MONTH OF DECEMBER 2021

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 |
|------------------|-------------------------------------------|-----------------------------------|-------------------------------------------------------|--------|-------------|-----------------|----------|-----------------------|
| YIGO CT          | Fuel Purifier                             | Oil spill                         | Conduct cleanup                                       |        |             | Dec. 2021       | ASAP     | Oct 2021              |
|                  | Tank - 140                                | Mild corrossion on tank surface   | Repaint tank                                          |        |             |                 | ASAP     | Dec. 2021             |
|                  | Tank - 140                                | Corroded bolts on flange          | Replace bolts                                         |        |             |                 | ASAP     | Dec. 2021             |
|                  | Oil Water Separator secondary containment | Algae & rainwater                 | Remove algae & water                                  |        |             |                 | ASAP     | Oct 2021              |
| MANENGGON DIESEL | Tank No. 1 Shell                          | Corroded tank shell               | Chip corrosion and recoat                             |        |             |                 | ASAP     | May 2021              |
|                  | Secondary Containment                     | Water accumulation                | Drain water and regularly monitor during rainy season |        |             |                 | ASAP     | Dec. 2021             |
|                  |                                           |                                   |                                                       |        |             |                 |          |                       |
| TALOFOFO DIESEL  | Fuel Storage Tank Area                    | Algae buil up in containment deck | Remove algae                                          |        |             |                 | ASAP     | Nov. 2021             |
| TENJO DIESEL     |                                           | NO CORRECTIVE ACTION              |                                                       |        |             |                 |          |                       |

## Generation SPCC Inspection Report (cont.)

SUMMARY OF SPCC MONTHLY INSPECTION REPORT

MONTH OF DECEMBER 2021

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 |
|---------------------|---------------------------------|----------------------------------------------------------------------|----------------------------------------------------|--------|-------------|-----------------|----------|-----------------------|
| YIGO DIESEL         | Generator #13                   | Oil on the floor of storage                                          | Conduct cleanup                                    |        |             |                 | ASAP     | July 2021             |
|                     | Pipeline                        | No secondary pipeline on aboveground pipeline                        | Install secondary containment                      |        |             |                 | ASAP     | July 2021             |
|                     | Generator #20 & #26             | Contaminated soil from oil leak found on ground outside of generator | Clean up and properly dispose of contaminated soil |        |             |                 | ASAP     | May 2021              |
|                     | Site Facility                   | Overgrown vegetation                                                 | Cut vegetation                                     |        |             |                 | ASAP     | June 2021             |
| PITI #7 POWER PLANT | Main Fuel Tank                  | No integrity testing                                                 | Integrity testing is required                      |        |             |                 | ASAP     | January 2018          |
|                     | Old Pitti PP Facility Structure | Improper storage of drum full of contaminated soil from spill        | Properly dispose of drum                           |        |             |                 | ASAP     | January 2021          |
|                     | Main Fuel Tank                  | Portion of pipeline on pipe support is corroded                      | Chip corrosion and repair                          |        |             |                 | ASAP     | May 2021              |
|                     | Old Pitti PP structure          | improper storage of open drums filled with resin, mixed water& soil  | Properly dispose of drums                          |        |             |                 | ASAP     | July 2021             |
|                     | Main Fuel Tank                  | Portion of pipeline is corroded                                      | Chip corrosion and repair                          |        |             |                 | ASAP     | Nov. 2021             |

GPA Work Session - January 20, 2022 - GM REPORT UPDATES

ENGINEERING WORK ORDERS

| Engineering Work Order Summary - December 2021 |     |
|------------------------------------------------|-----|
| Work Orders Received from CSR                  | 74  |
| Work Orders Processed & Released to T&D        | 93  |
| Work Orders Processed & Released to CSR        | N/A |
| Work Orders Cancelled                          | N/A |
| Work Orders Pending Survey                     | 25  |
| Total Pending WO at Engineering                | 700 |

| Engineering Large Customer, GPI and Net Metering Tracking |                                                         |                         |                              |        |           |                                                                                                                                                                                                                                                                                                                                   |
|-----------------------------------------------------------|---------------------------------------------------------|-------------------------|------------------------------|--------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Date Received                                             | Customer Name                                           | Work Order Numbers      | Location                     | KVA    | Meter Qty | Status                                                                                                                                                                                                                                                                                                                            |
| 1/27/2015                                                 | TG Engineers                                            | 422182-85, 90-93, 96-98 | Agana Heights                | 100    | 11        | 10 Unit Apartment, 100 kVA, 80% Completed. Work restarted 12/2021                                                                                                                                                                                                                                                                 |
| 6/1/2017                                                  | New Underground Line (P-047)                            | 466064                  | Tumon                        | 1,500  | 1         | New Underground line 99% completed, Riser terminated. Mandrelling completed on completed sections. T&D started pulling wire and installing splices in August 2019. Pending final outage at SV1A and SV1B and repair of existing arms and metal brackets on P-047. Design for P-047 Repair of Support Arms on going 95% completed. |
| 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 pending updates from designer.                                                                                                                                                                                                          |
| 10/10/18                                                  | Don Sadwahni                                            | 465341                  | Harmon                       | 2,000  | 1         | New Industrial Subdivision, Inspection of civil work only, Proposed 12 Pad Mounted Xfms 100% Completed, pending submission of meter applications.                                                                                                                                                                                 |
| 05/14/19                                                  | Joyrich Group LLC                                       | Multiple                | Tamuning                     | 150    | 17        | New 17 Unit Apartments, 75% completed, 150 kVA. No recent progress.                                                                                                                                                                                                                                                               |
| 10/01/19                                                  | Don Don Donkey "Don Quijote" Shopping Center            | Pending Application     | Tamuning                     | 5,500  | 1         | New Shopping Center at the intersection of Route 1 and 10A. 35% Completed. GPA reminded their designers to finalize plans and submit applications as soon as possible to avoid delays with energizing their new facility.                                                                                                         |
| 07/07/20                                                  | Guam Waterworks Authority New Northern Wastewater Plant | 479663                  | Dededo                       | 3,000  | 1         | New Northern Wastewater Plant, 95% completed, 3500kVA. Temp. power work order for testing purposes at T&D. Power will be limited to 20% of capacity until completion of P-046, P-271 and P-112 Load redistribution.                                                                                                               |
| 11/19/20                                                  | Paradise Subdivision                                    | Pending Applications    | Mangilao                     | 170    | 17        | 17 unit subdivision, pending submission of plans and permitting.                                                                                                                                                                                                                                                                  |
| 11/01/20                                                  | Agat Pole Relocation GPI                                | Pending                 | Agat                         |        |           | 5 Pole Relocation due to easement issues.                                                                                                                                                                                                                                                                                         |
| 01/31/21                                                  | Songsong Hills Subdivision                              | 484158                  | Yigo                         | 160    | 1         | New 16 Unit Subdivision, 85% completed, multiple xfms. Temp power completed, pending submission of meter applications.                                                                                                                                                                                                            |
| 01/31/21                                                  | GWA -Kaiser Reservoir                                   | 484070                  | Dededo                       | 225    | 1         | New GWA Reservoir, 50% completed.                                                                                                                                                                                                                                                                                                 |
| 06/30/21                                                  | Guam Five Star Corporation                              | Multiple                | Dededo                       | 1,160  | 16        | New 116 Unit Subdivision, 16 application submitted, 100 Applications pending, 40% completed.                                                                                                                                                                                                                                      |
| 09/10/21                                                  | University of Guam                                      | 489070                  | Mangilao                     | 500    | 1         | New Cultural Depository, 90% Completed, 500 kVA.                                                                                                                                                                                                                                                                                  |
| 09/24/21                                                  | Guam Advance Ent. Inc (Ukudo Power Plant)               | 489288                  | Dededo                       | 2,200  | 1         | Temp Power for New Ukudo Power Plant. 27 ea. 45' C/P and 7 Pad Mtd X-Fmr 2200 KVA total load. 50% completed.                                                                                                                                                                                                                      |
| 10/31/21                                                  | GTA Data Center                                         | Pending Application     | Tamuning                     | 2,000  | 1         | New Data Center, 2000 kVA, pending submission of plans and permitting.                                                                                                                                                                                                                                                            |
| 11/01/21                                                  | IT&E Data Center                                        | Pending Application     | Tamuning                     | 2,500  | 1         | New Data Center, 2500 kVA, pending submission of plans and permitting.                                                                                                                                                                                                                                                            |
| Varies                                                    | Pending Net Metering Customers                          | Varies                  | Various Locations Islandwide |        | 1         | Pending Net Metering Customers as of December 31, 2021.                                                                                                                                                                                                                                                                           |
| Total                                                     |                                                         |                         |                              | 24,165 | 73        |                                                                                                                                                                                                                                                                                                                                   |

## **PLANNING & REGULATORY DIVISION REPORT**

The following summarizes P&R's activities for the month of December 2021

### **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, Talofoto, 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 Yigo Diesel
  - Monitoring CO and NOx emissions of the Yigo Diesel generators not to exceed the allowable limit.
  - GPA Plants Limits based on Hours and/or Fuel Use
- Fuel switching data monitoring

### **CONSENT DECREE**

- Working on Emissions Netting Analysis. Providing data to TRC
- Working on getting status update on the ULSD Pipeline to Piti 8&9 to include Contractor response and new deadline

### **ENVIRONMENTAL DISPOSAL & MITIGATION**

- KEPCO/Guam Advance pipeline demolition project fuel leak near Old Pangilinan Pole Yard, Barrigada clean-up monitoring, coordination with GEPA and assistance provided to Contractor.
- Marbo Diesel tank drained, diesel fuel #2 shipped off-island via 3rd party contractor.

### **PROCUREMENT**

#### **Purchase Orders**

#### **Coordination with procurement on the following bids/continuing contracts:**

- OR#33750 – Environmental Emergency Response Contractor- Bid is on going
- OR# 35418 – Office Supplies PO's ISSUED
- OR# 35413 – Contaminated Wastes Disposal PO ISSUED
- GPA-RFP-21-009 - GPA Committee meeting to procure Professional Land Survey Services for Various Locations
- GPA-RFP-21-011 - Price Proposal Review: GPA-RFP-21-011, Archaeological Services for Various Locations
- OR 35319 Environmental Engineering and Technical Services – Submitted SOW to Procurement



- Bid Committee Evaluation, MS GPA-046-21, Petroleum Inspection & Testing Services for Diesel Fuel Oil No.2

#### **NPDES PERMIT GU00200001**

- Prepare response letter to USEPA, a resolution to Seek Settlement for Clean Water Act Violations.

#### **REPORTING**

- Monthly NSPS reporting for Cabras, CT's and Diesel plants submitted to GEPA and US EPA

#### **TESTING**

- Yigo Diesel Coordination and quarterly Testing/Monitoring

#### **UKKUDU POWER PLANT**

- Weekly update conference calls:
  - Prep Call between GPA and Stanley
  - Air Permitting with contractors
  - All other Permitting and status updates with contractors
  - GPA Internal discussions with Stanley
- Other:
  - Compiled New Plant public hearing and public outreach for internal use
  - Attended meeting between GUP and GEPA. GUP submitted paper copy of Reserve facility Permit Application

#### **OTHER**

- Abandoned Derelict Vessels ADV Project monitoring
  - ADV Metallic Waste Disposal at PAG site completed. Will continue with the last ADV (aka Guahan 2) by mid-January 2022.
    - Roughly 60 metric tons of scrap metal was removed from the site.
- Voiceover work for GPA Radio advertisement on 101.9

## NET METERING

December 2021

|             | <u>Quantity</u> | <u>Connected kVA</u> |
|-------------|-----------------|----------------------|
| Completed   | 2,295           | 28,222               |
| Pending     | 1               | 7                    |
| Grand Total | 2,296           | 28,229               |

| Rate Class and Technology |                      |                |           |
|---------------------------|----------------------|----------------|-----------|
| Technology                | Schedule             | Customer Count | Total kW  |
| Solar Energy              | R - Residential      | 2,131          | 20,477.21 |
|                           | J - Gen Service Dmd  | 65             | 4,086.45  |
|                           | K - Small Gov Dmd    | 13             | 448.10    |
|                           | L - Large Government | 2              | 122.80    |
|                           | P - Large Power      | 13             | 1,182.70  |
|                           | G - Gen Serv Non-Dmd | 62             | 1,821.92  |
|                           | S - Sm Gov Non-Dmd   | 7              | 78.80     |
| Wind Turbine              | R - Residential      | 2              | 3.60      |
| Grand Total               |                      | 2,295          | 28,221.58 |

| Projection Date Ending 12/31/2022 |                  |                                       |                          |                                  |
|-----------------------------------|------------------|---------------------------------------|--------------------------|----------------------------------|
| Customer Rate Class               | Sum of Size (kW) | *Annual<br>Projected kWh<br>Generated | Non-Fuel Yield<br>\$/kWh | Estimated Annual<br>Revenue Loss |
| R                                 | 20,480.81        | 33,362,343                            | 0.087492                 | \$ 2,918,939.06                  |
| J                                 | 4,086.45         | 6,714,865                             | 0.125682                 | \$ 843,937.89                    |
| K                                 | 448.10           | 730,656                               | 0.133883                 | \$ 97,822.45                     |
| L                                 | 122.80           | 200,522                               | 0.129809                 | \$ 26,029.59                     |
| P                                 | 1,182.70         | 1,949,085                             | 0.109950                 | \$ 214,302.00                    |
| G                                 | 1,821.92         | 2,992,831                             | 0.145397                 | \$ 435,148.73                    |
| S                                 | 78.80            | 123,265                               | 0.147902                 | \$ 18,231.16                     |
| Grand Total                       | 28,221.58        | 46,073,568                            |                          | \$ 4,554,410.90                  |

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

| Estimated Annual Revenue Loss |               |                          |
|-------------------------------|---------------|--------------------------|
| Year                          | Estimated kWh | *Total Estimated<br>Cost |
| 2021                          | 42,545,416    | \$ 4,146,394.89          |
| 2020                          | 39,941,816    | \$ 3,874,385.68          |
| 2019                          | 36,806,287    | \$ 3,546,649.04          |
| 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              |
| 2009                          | 23,912        | \$ 1,656.87              |

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

## NET METERING

December 2021

| 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   | 373.03                    | 33             | 21.6%                  | 43.4%                          |
|                                                                                                            | P-046   | 323.09                    | 38             | 7.6%                   | 11.6%                          |
|                                                                                                            | P-088   | 843.38                    | 84             | 14.0%                  | 22.2%                          |
|                                                                                                            | P-089   | 738.79                    | 83             | 16.5%                  | 39.8%                          |
|                                                                                                            | P-111   | 216.00                    | 5              | 4.0%                   | 7.0%                           |
|                                                                                                            | P-203   | 776.09                    | 46             | 10.4%                  | 29.4%                          |
|                                                                                                            | P-204   | 164.18                    | 18             | 3.5%                   | 7.2%                           |
|                                                                                                            | P-205   | 128.00                    | 6              | 2.7%                   | 4.6%                           |
|                                                                                                            | P-210   | 855.73                    | 70             | 16.7%                  | 22.7%                          |
|                                                                                                            | P-212   | 1,117.96                  | 107            | 27.0%                  | 70.0%                          |
|                                                                                                            | P-213   | 353.33                    | 16             | 13.5%                  | 18.1%                          |
|                                                                                                            | P-220   | 225.41                    | 24             | 37.0%                  | 116.2%                         |
|                                                                                                            | P-221   | 635.60                    | 64             | 14.5%                  | 28.8%                          |
|                                                                                                            | P-223   | 737.91                    | 69             | 31.0%                  | 44.2%                          |
|                                                                                                            | P-240   | 148.55                    | 4              | 2.3%                   | 19.9%                          |
|                                                                                                            | P-245   | 259.60                    | 7              | 5.2%                   | 11.1%                          |
|                                                                                                            | P-250   | 1,434.85                  | 132            | 22.1%                  | 38.8%                          |
|                                                                                                            | P-251   | 160.50                    | 8              | 6.5%                   | 10.0%                          |
|                                                                                                            | P-253   | 1,031.55                  | 100            | 22.9%                  | 36.2%                          |
|                                                                                                            | P-262   | 1,243.12                  | 124            | 32.7%                  | 78.3%                          |
|                                                                                                            | P-270   | 562.21                    | 44             | 11.0%                  | 22.3%                          |
|                                                                                                            | P-271   | 433.37                    | 20             | 7.4%                   | 15.6%                          |
|                                                                                                            | P-272   | 306.25                    | 22             | 12.0%                  | 27.2%                          |
|                                                                                                            | P-280   | 649.45                    | 35             | 36.1%                  | 67.2%                          |
|                                                                                                            | P-281   | 204.90                    | 5              | 7.3%                   | 20.4%                          |
|                                                                                                            | P-282   | 231.75                    | 6              | 6.2%                   | 18.7%                          |
|                                                                                                            | P-283   | 786.75                    | 62             | 21.7%                  | 37.3%                          |
|                                                                                                            | P-294   | 1,391.46                  | 130            | 32.1%                  | 63.7%                          |
|                                                                                                            | P-301   | 233.76                    | 24             | 16.5%                  | 29.4%                          |
|                                                                                                            | P-311   | 1,362.84                  | 71             | 34.2%                  | 58.5%                          |
|                                                                                                            | P-322   | 2,268.37                  | 125            | 29.9%                  | 59.4%                          |
|                                                                                                            | P-323   | 316.52                    | 21             | 6.7%                   | 20.8%                          |
|                                                                                                            | P-330   | 767.35                    | 93             | 14.1%                  | 28.3%                          |
|                                                                                                            | P-331   | 848.03                    | 93             | 13.5%                  | 21.8%                          |
|                                                                                                            | P-332   | 897.98                    | 83             | 15.9%                  | 23.3%                          |
|                                                                                                            | P-340   | 624.29                    | 53             | 34.5%                  | 75.8%                          |
|                                                                                                            | P-087   | 1,633.30                  | 160            | 41.6%                  | 65.1%                          |
|                                                                                                            | P-252   | 688.73                    | 38             | 16.3%                  | 33.3%                          |
|                                                                                                            | P-321   | 471.70                    | 39             | 8.4%                   | 9.5%                           |
|                                                                                                            | P-260   | 99.76                     | 10             | 14.5%                  | 49.9%                          |
|                                                                                                            | P-067   | 86.20                     | 10             | 1.0%                   | 1.3%                           |
|                                                                                                            | P-312   | 144.64                    | 6              | 8.7%                   | 10.1%                          |
|                                                                                                            | P-206   | 106.08                    | 6              | 10.9%                  | 19.6%                          |
|                                                                                                            | P-242   | 23.75                     | 2              | 0.4%                   | 1.1%                           |
|                                                                                                            | P-310   | 181.57                    | 8              | 6.6%                   | 12.1%                          |
|                                                                                                            | P-261   | 522.06                    | 55             | 18.9%                  | 32.4%                          |
|                                                                                                            | P-201   | 115.86                    | 10             | 3.3%                   | 5.8%                           |
|                                                                                                            | P-007   | 85.86                     | 8              | 11.9%                  | 25.3%                          |
|                                                                                                            | P-244   | 86.56                     | 3              | 4.9%                   | 5.0%                           |
|                                                                                                            | P-202   | 113.70                    | 6              | 3.5%                   | 8.4%                           |
|                                                                                                            | P-341   | 4.30                      | 1              | 0.4%                   | 1.6%                           |
|                                                                                                            | P-401   | 117.00                    | 2              | 10.3%                  | 17.3%                          |
|                                                                                                            | P-400   | 68.88                     | 5              | 7.2%                   | 7.3%                           |
|                                                                                                            | P-241   | 19.72                     | 1              | 0.5%                   | 0.7%                           |
| Completed Total                                                                                            |         | 28,221.58                 | 2,295          |                        |                                |
| pending                                                                                                    | Pending | 7.31                      | 1              | 0.0%                   | 0.0%                           |
| pending Total                                                                                              |         | 7.31                      | 1              | 0.0%                   | 0.0%                           |
| Grand Total                                                                                                |         | 28,228.89                 | 2,296          |                        |                                |
| Feeders highlighted in yellow indicates renewable energy capacity has reached 25% of minimum daytime load. |         |                           |                |                        |                                |
| Feeders highlighted in red indicates renewable energy capacity has reached 75% of minimum daytime load.    |         |                           |                |                        |                                |

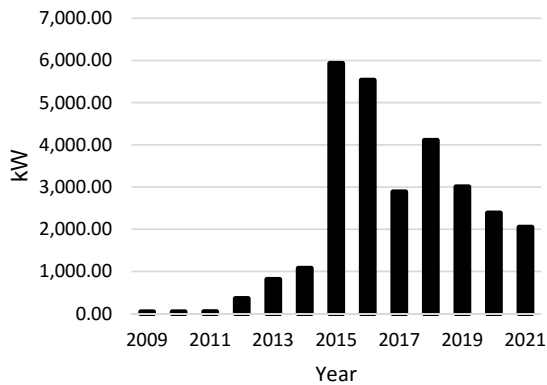
## NET METERING

December 2021

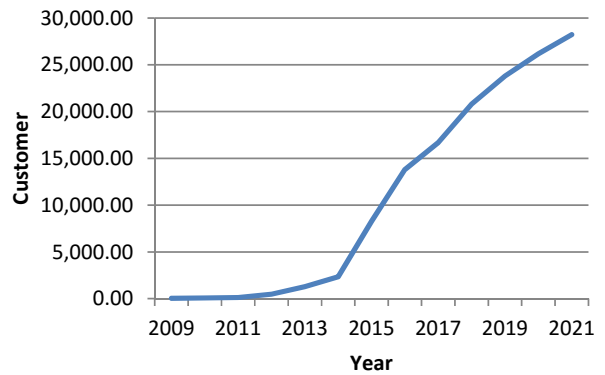
| Installed kW by Year |                  |            |
|----------------------|------------------|------------|
| Year                 | Total            | Cumulative |
| 2009                 | 39.46            | 39.46      |
| 2010                 | 39.20            | 78.66      |
| 2011                 | 41.61            | 120.27     |
| 2012                 | 354.61           | 474.88     |
| 2013                 | 808.15           | 1,283.03   |
| 2014                 | 1,072.04         | 2,355.07   |
| 2015                 | 5,926.44         | 8,281.51   |
| 2016                 | 5,527.93         | 13,809.43  |
| 2017                 | 2,881.10         | 16,690.53  |
| 2018                 | 4,103.13         | 20,793.66  |
| 2019                 | 3,002.17         | 23,795.83  |
| 2020                 | 2,380.16         | 26,175.99  |
| 2021                 | 2,045.59         | 28,221.58  |
| <b>Grand Total</b>   | <b>28,221.58</b> |            |

| 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                   | 292          | 1,883      |
| 2019                   | 190          | 2,073      |
| 2020                   | 97           | 2,170      |
| 2021                   | 125          | 2,295      |
| <b>Grand Total</b>     | <b>2,295</b> |            |

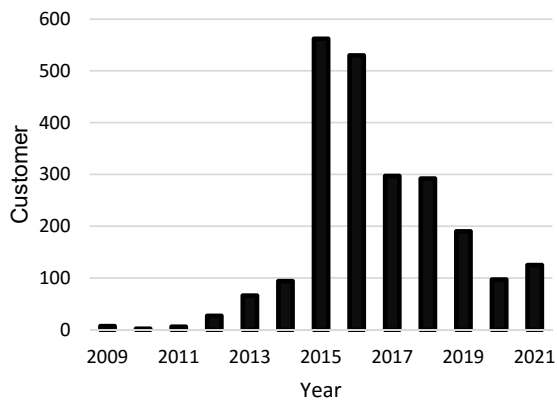
Yearly Installed kW



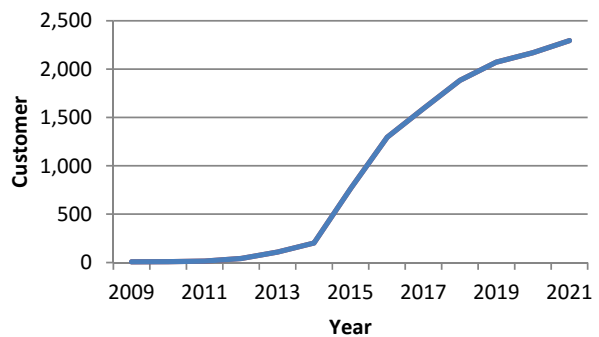
Cumulative Installed kW



Yearly Connected Customer Count



Cumulative Connected Customer Count

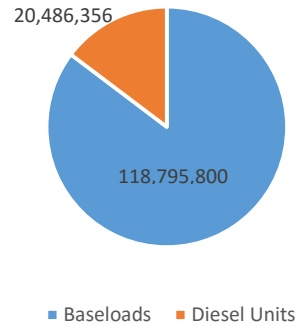


## Production Data December 2021

### 2021 Gross Generation (kWh)

| Month     | Baseloads   | Diesel Units |
|-----------|-------------|--------------|
| January   | 121,809,600 | 12,656,252   |
| February  | 98,398,300  | 25,379,502   |
| March     | 99,635,600  | 38,706,615   |
| April     | 110,195,900 | 30,909,258   |
| May       | 103,328,300 | 37,604,671   |
| June      | 99,389,500  | 43,650,908   |
| July      | 124,081,100 | 22,778,648   |
| August    | 122,100,200 | 19,702,072   |
| September | 119,786,300 | 19,642,693   |
| October   | 118,795,800 | 20,486,356   |
| November  | 103,522,200 | 36,259,369   |
| December  | 99,332,390  | 39,686,045   |

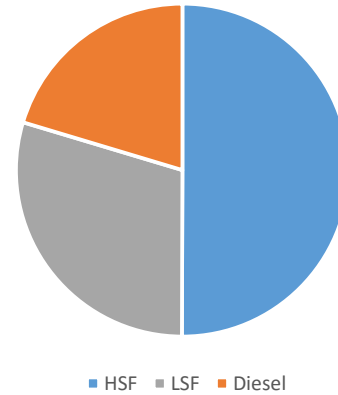
Dec 2021 Gross Generation (kWh)



### 2021 Fuel Consumption (gal)

| Month     | Baseloads |           | Diesel Units |
|-----------|-----------|-----------|--------------|
|           | HSF       | LSF       | Diesel       |
| January   | 7,754,685 | 252,919   | 1,355,551    |
| February  | 6,196,905 | 241,268   | 2,361,550    |
| March     | 5,930,287 | 385,344   | 3,790,705    |
| April     | 4,872,098 | 2,170,263 | 3,047,806    |
| May       | 4,956,847 | 1,607,352 | 3,605,472    |
| June      | 4,690,486 | 1,650,915 | 4,350,746    |
| July      | 5,289,339 | 2,715,782 | 2,359,128    |
| August    | 5,442,359 | 2,523,369 | 1,931,220    |
| September | 3,483,312 | 4,416,730 | 1,864,021    |
| October   | 4,957,375 | 2,931,094 | 2,016,632    |
| November  | 5,834,957 | 1,216,727 | 3,635,738    |
| December  | 5,624,851 | 778,183   | 3,857,805    |

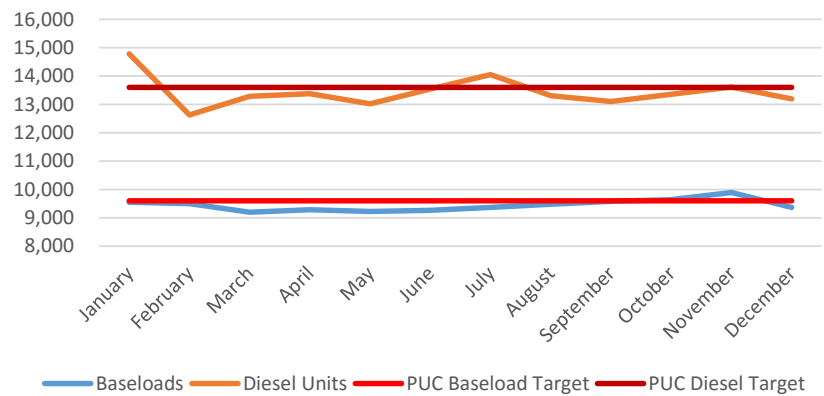
Dec 2021 Fuel Consumption (gal)



### 2021 Gross Heat Rate (Btu/kWh)

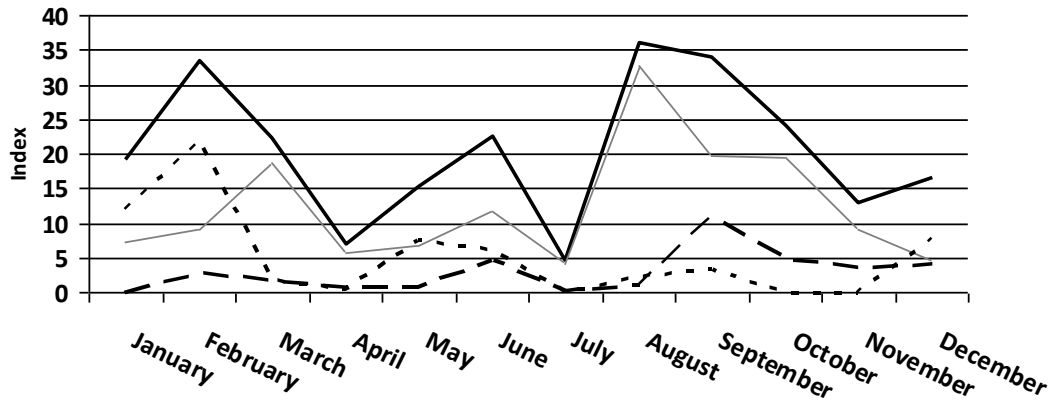
| Month     | Baseloads | Diesel Units |
|-----------|-----------|--------------|
| January   | 9,548     | 14,783       |
| February  | 9,503     | 12,628       |
| March     | 9,198     | 13,291       |
| April     | 9,282     | 13,382       |
| May       | 9,227     | 13,024       |
| June      | 9,267     | 13,540       |
| July      | 9,370     | 14,056       |
| August    | 9,475     | 13,303       |
| September | 9,579     | 13,105       |
| October   | 9,638     | 13,359       |
| November  | 9,893     | 13,608       |
| December  | 9,365     | 13,193       |

2021 Gross Heat Rate (Btu/kWh)





**(Item 1.1,1.2,1.5) December 2021 SAIDI = 248.12 ↑ (246.55)**



ALL

GEN=63.78

(61.65)

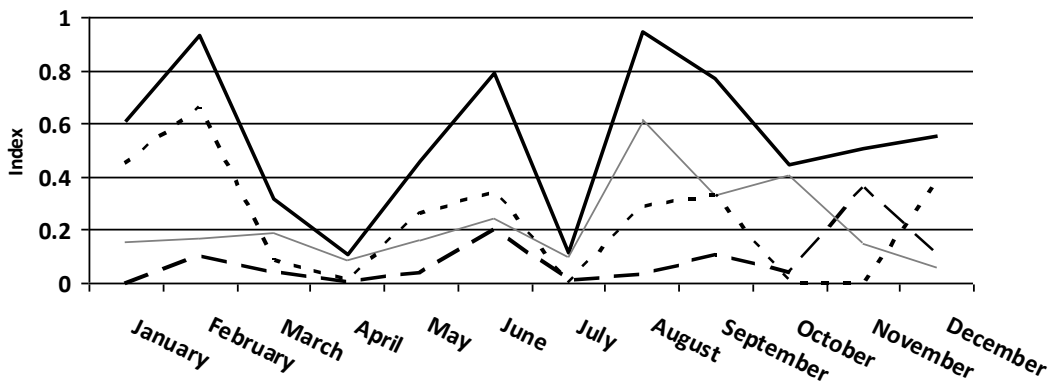
TRANS=35.47

(35.53)

DIST=148.86

(149.37)

**(Item 1.1,1.2,1.5) December 2021 SAIFI = 6.55 ↓ (6.64)**



ALL

GEN=2.84

(2.84)

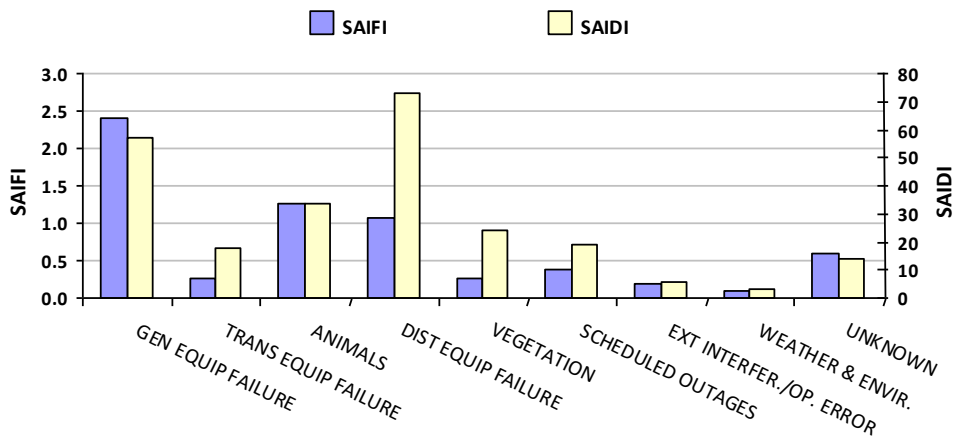
TRANS=1.05

(1.12)

DIST=2.67

(2.69)

**(Item 1.9) 12-Month Cause Contributions to Reliability**



GEN EQUIP FAILURE

F:37.4% D:23.0%

TRANS EQUIP FAILURE

F:3.5% D:7.2%

ANIMALS

F:15.6% D:13.5%

DIST EQUIP FAILURE

F:16.1% D:29.6%

VEGETATION

F:3.3% D:9.7%

SCHEDULED OUTAGES

F:13.9% D:7.8%

EXT INTERFER./OP. ERROR

F:1.9% D:2.2%

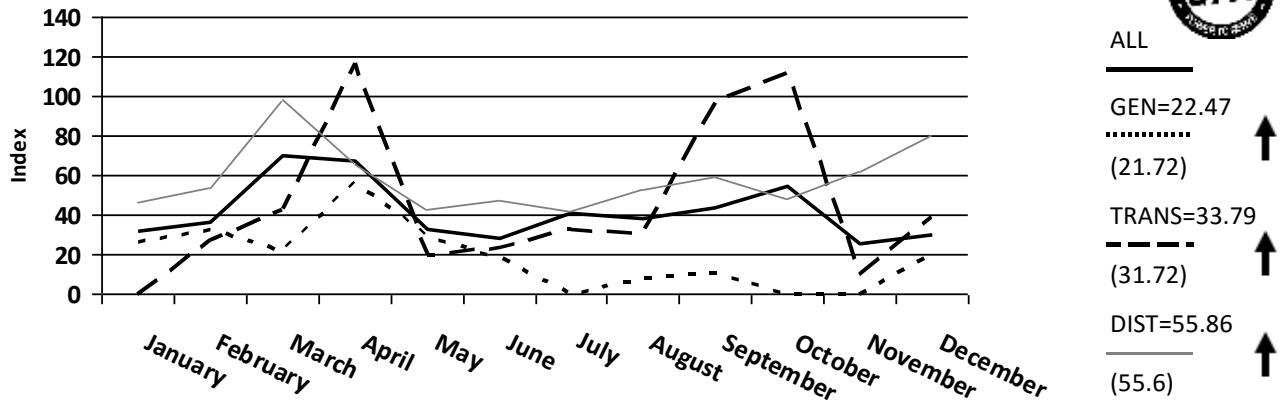
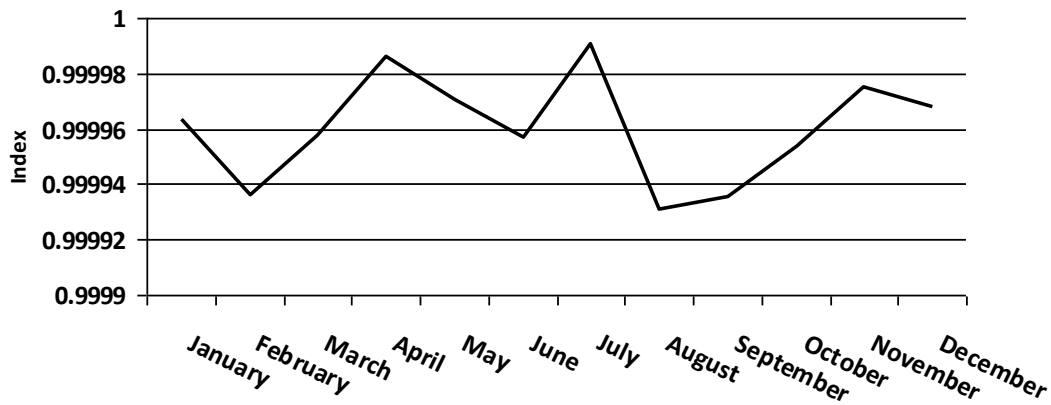
WEATHER & ENVIR.

F:0.9% D:1.2%

UNKNOWN

F:7.3% D:5.7%

As of December 31, 2021

**(Item 1.1,1.2,1.5) December 2021 CAIDI = 37.86 ↑ (37.11)****(Item 1.1,1.2,1.5) December 2021 ASAI = 0.9995 UNC\* (0.9995)****(Item 1.4) Top 5 Worst Feeders Distribution Causes**

| # | Feeder | Outage Count |
|---|--------|--------------|
| 1 | P340   | 11           |
| 2 | P250   | 8            |
| 3 | P294   | 8            |
| 4 | P046   | 7            |
| 5 | P088   | 7            |

**(Item 1.3) Outage Count**

| TOTAL | UFLS | Non-UFLS |
|-------|------|----------|
| 425   | 193  | 232      |

**(Item 1.4) Top 5 Distribution Outage Causes**

| # | Outage Cause          | Count |
|---|-----------------------|-------|
| 1 | Overhead Equipment    | 44    |
| 2 | Snakes                | 19    |
| 3 | Underground Equipment | 18    |
| 4 | Vegetation            | 14    |
| 5 | Substation Equipment  | 6     |

**(Item 1.3) UFLS Contribution to Reliability**

| SAIDI | SAIFI | CAIDI |
|-------|-------|-------|
| 59.53 | 2.96  | 20.10 |

---

# **CFO**

# **FINANCIAL HIGHLIGHTS**

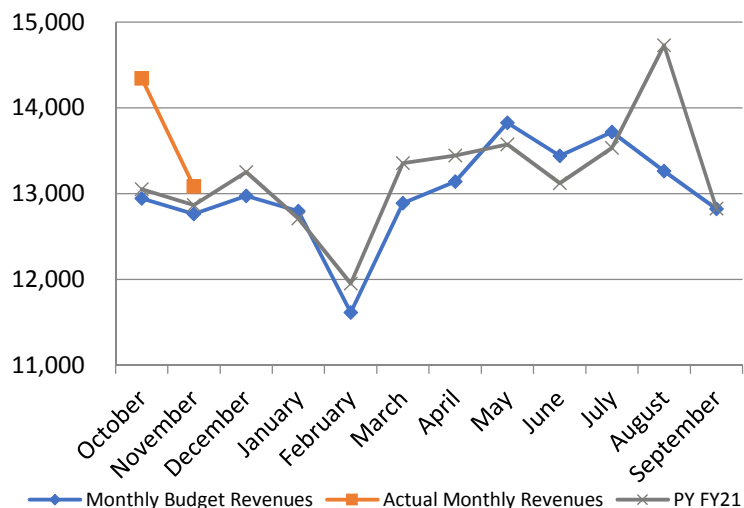
# **November 2021**





# November 2021 Monthly Financial Highlights

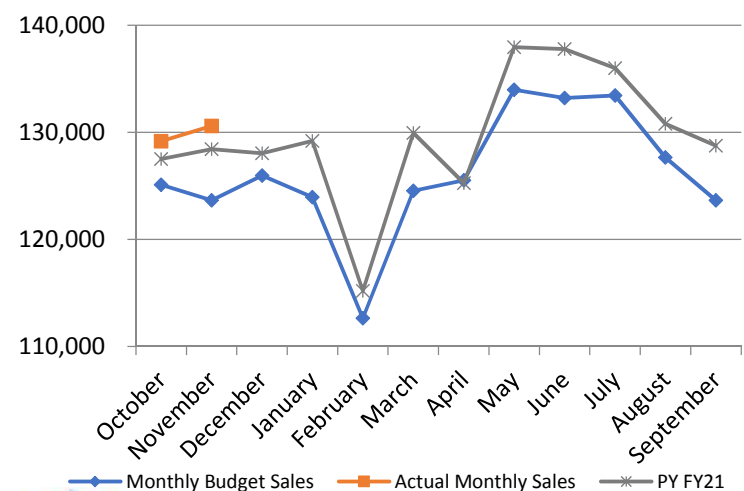
## Base Rate Revenue (in '000)



### Through November 30, 2021

|              | Monthly Budget<br>\$000 Revenues | Actual Monthly<br>Revenues | Variance        |   | PY FY21           | CY vs PY<br>Variance |   |
|--------------|----------------------------------|----------------------------|-----------------|---|-------------------|----------------------|---|
| October      | \$ 12,946                        | \$ 14,345                  | \$ 1,400        | ↑ | \$ 13,053         | \$ 1,292             | ↑ |
| November     | \$ 12,762                        | \$ 13,085                  | \$ 323          | ↑ | \$ 12,869         | \$ 216               | ↑ |
| December     | \$ 12,975                        |                            |                 |   | \$ 13,254         |                      |   |
| January      | \$ 12,796                        |                            |                 |   | \$ 12,712         |                      |   |
| February     | \$ 11,615                        |                            |                 |   | \$ 11,954         |                      |   |
| March        | \$ 12,891                        |                            |                 |   | \$ 13,357         |                      |   |
| April        | \$ 13,142                        |                            |                 |   | \$ 13,444         |                      |   |
| May          | \$ 13,826                        |                            |                 |   | \$ 13,574         |                      |   |
| June         | \$ 13,443                        |                            |                 |   | \$ 13,121         |                      |   |
| July         | \$ 13,719                        |                            |                 |   | \$ 13,534         |                      |   |
| August       | \$ 13,264                        |                            |                 |   | \$ 14,729         |                      |   |
| September    | \$ 12,822                        |                            |                 |   | \$ 12,825         |                      |   |
| <b>Total</b> | <b>\$ 156,200</b>                | <b>\$ 27,430</b>           | <b>\$ 1,723</b> |   | <b>\$ 158,427</b> | <b>\$ 1,508</b>      |   |

## MWH Sales (in 'mWh)



### Through November 30, 2021

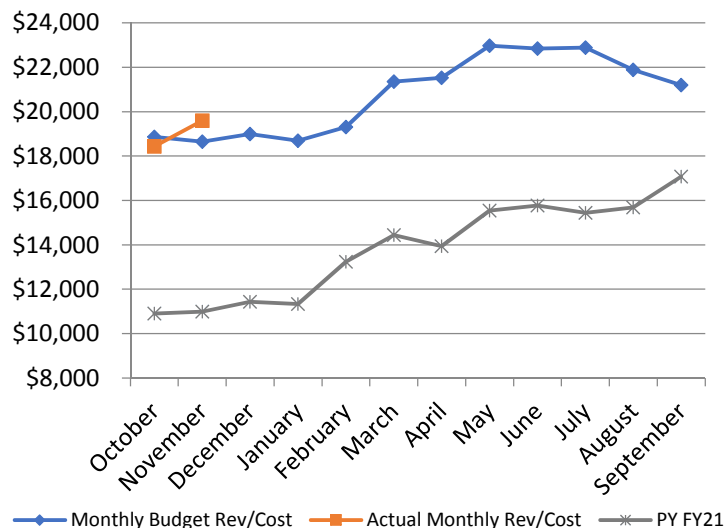
|              | Monthly Budget<br>mwh Sales | Actual Monthly<br>Sales | Variance      |   | PY FY21          | CY vs PY<br>Variance |   |
|--------------|-----------------------------|-------------------------|---------------|---|------------------|----------------------|---|
| October      | 125,120                     | 129,175                 | 4,055         | ↑ | 127,515          | 1,660                | ↑ |
| November     | 123,655                     | 130,597                 | 6,943         | ↑ | 128,440          | 2,157                | ↑ |
| December     | 125,973                     |                         |               |   | 128,053          |                      |   |
| January      | 123,970                     |                         |               |   | 129,208          |                      |   |
| February     | 112,638                     |                         |               |   | 115,199          |                      |   |
| March        | 124,550                     |                         |               |   | 129,958          |                      |   |
| April        | 125,540                     |                         |               |   | 125,268          |                      |   |
| May          | 133,995                     |                         |               |   | 137,960          |                      |   |
| June         | 133,212                     |                         |               |   | 137,774          |                      |   |
| July         | 133,451                     |                         |               |   | 136,012          |                      |   |
| August       | 127,675                     |                         |               |   | 130,812          |                      |   |
| September    | 123,646                     |                         |               |   | 128,768          |                      |   |
| <b>Total</b> | <b>1,513,425</b>            | <b>259,772</b>          | <b>10,997</b> |   | <b>1,554,967</b> | <b>3,817</b>         |   |



# November 2021 Monthly Financial Highlights (Continued)

3

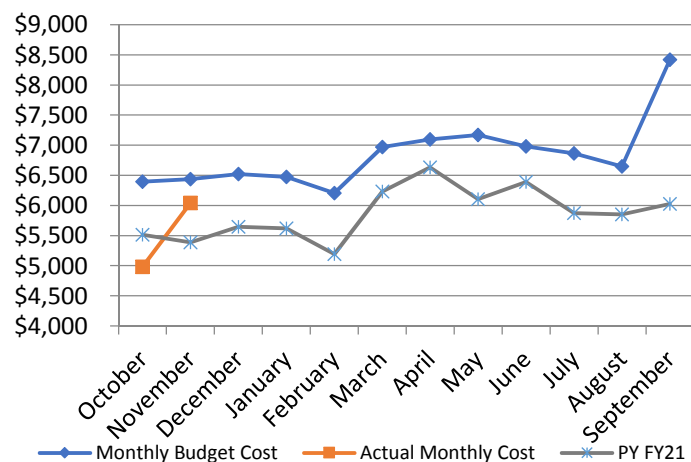
## Fuel Revenues (in '000)



### Through November 30, 2021

|              | Monthly Budget<br>\$000 | Actual Monthly<br>Rev/Cost | Variance      |   | PY FY21           | CY vs PY<br>Variance |   |
|--------------|-------------------------|----------------------------|---------------|---|-------------------|----------------------|---|
| October      | \$ 18,868               | \$ 18,431                  | \$ (437)      | ↓ | \$ 10,910         | \$ 7,521             | ↑ |
| November     | \$ 18,647               | \$ 19,600                  | \$ 953        | ↑ | \$ 10,984         | \$ 8,616             | ↑ |
| December     | \$ 18,997               |                            |               |   | \$ 11,435         |                      |   |
| January      | \$ 18,695               |                            |               |   | \$ 11,335         |                      |   |
| February     | \$ 19,313               |                            |               |   | \$ 13,241         |                      |   |
| March        | \$ 21,355               |                            |               |   | \$ 14,442         |                      |   |
| April        | \$ 21,525               |                            |               |   | \$ 13,932         |                      |   |
| May          | \$ 22,975               |                            |               |   | \$ 15,547         |                      |   |
| June         | \$ 22,840               |                            |               |   | \$ 15,770         |                      |   |
| July         | \$ 22,881               |                            |               |   | \$ 15,446         |                      |   |
| August       | \$ 21,891               |                            |               |   | \$ 15,685         |                      |   |
| September    | \$ 21,200               |                            |               |   | \$ 17,080         |                      |   |
| <b>Total</b> | <b>\$ 249,186</b>       | <b>\$ 38,031</b>           | <b>\$ 516</b> |   | <b>\$ 165,807</b> | <b>\$ 16,137</b>     |   |

## O&M Costs (in '000)



### Through November 30, 2021

|              | Monthly Budget<br>\$000 | Actual Monthly<br>Cost | Variance        |   | PY FY21          | CY vs PY<br>Variance |   |
|--------------|-------------------------|------------------------|-----------------|---|------------------|----------------------|---|
| October      | \$ 6,394                | \$ 4,979               | \$ 1,415        | ↑ | \$ 5,515         | \$ (536)             | ↓ |
| November     | \$ 6,439                | \$ 6,039               | \$ 400          | ↑ | \$ 5,389         | \$ 650               | ↑ |
| December     | \$ 6,524                |                        |                 |   | \$ 5,645         |                      |   |
| January      | \$ 6,474                |                        |                 |   | \$ 5,620         |                      |   |
| February     | \$ 6,206                |                        |                 |   | \$ 5,193         |                      |   |
| March        | \$ 6,969                |                        |                 |   | \$ 6,231         |                      |   |
| April        | \$ 7,095                |                        |                 |   | \$ 6,634         |                      |   |
| May          | \$ 7,171                |                        |                 |   | \$ 6,106         |                      |   |
| June         | \$ 6,978                |                        |                 |   | \$ 6,390         |                      |   |
| July         | \$ 6,863                |                        |                 |   | \$ 5,871         |                      |   |
| August       | \$ 6,648                |                        |                 |   | \$ 5,852         |                      |   |
| September    | \$ 8,421                |                        |                 |   | \$ 6,023         |                      |   |
| <b>Total</b> | <b>\$ 82,182</b>        | <b>\$ 11,018</b>       | <b>\$ 1,816</b> |   | <b>\$ 70,469</b> | <b>\$ 114</b>        |   |



# November 2021 Monthly Financial Highlights (Continued)

4

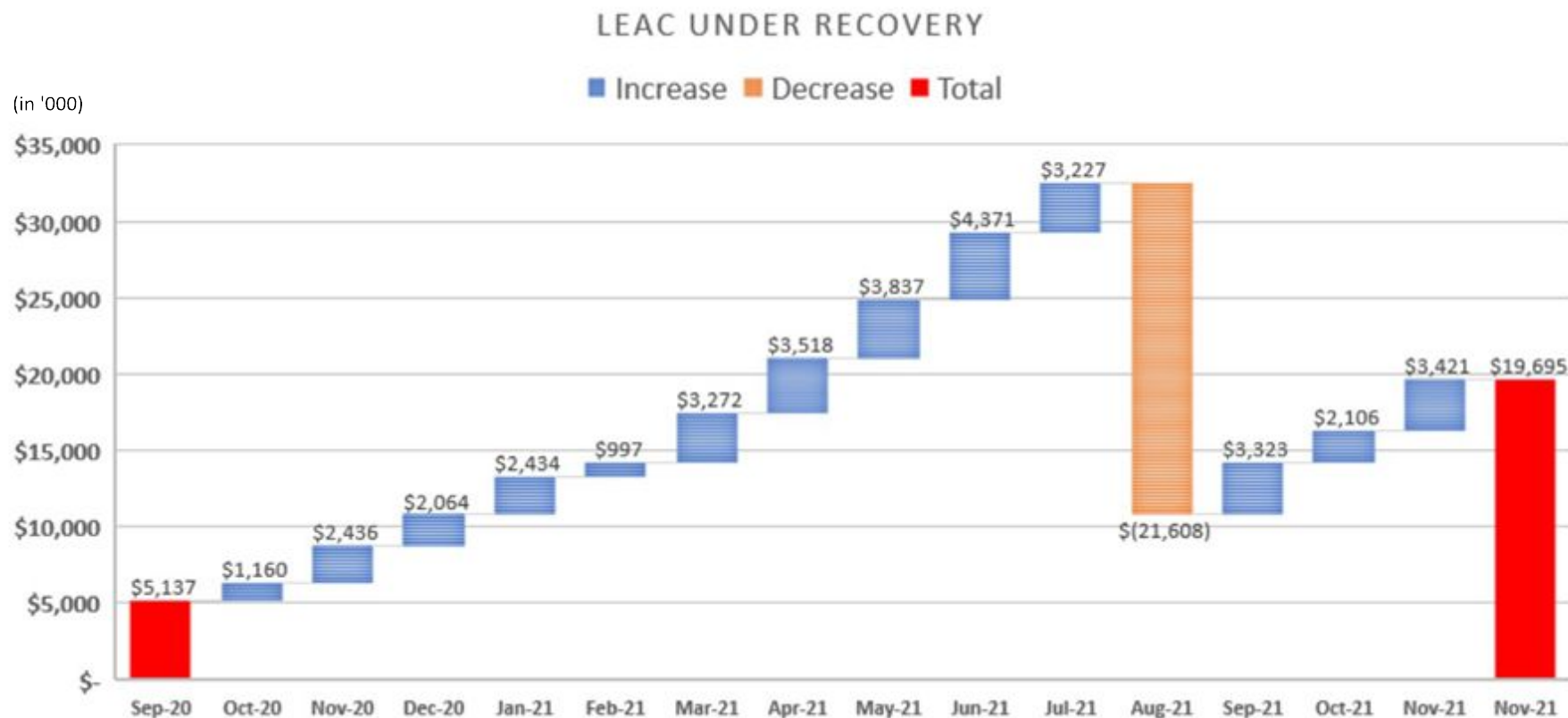
| Through November 30, 2021 |        |        |        |        |        |        |        |        |        |        |        |        |        |
|---------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                           | 1Q2019 | 2Q2019 | 3Q2019 | 4Q2019 | 1Q2020 | 2Q2020 | 3Q2020 | 4Q2020 | 1Q2021 | 2Q2021 | 3Q2021 | 4Q2021 | 1Q2022 |
| Residential               | 43,920 | 44,144 | 44,329 | 44,479 | 44,203 | 44,509 | 45,069 | 44,191 | 44,503 | 44,575 | 45,247 | 45,317 | 45,232 |
| Commercial                | 5,273  | 5,291  | 5,303  | 5,289  | 5,154  | 5,352  | 5,309  | 5,366  | 5,301  | 5,307  | 5,330  | 5,338  | 5,347  |
| Government                | 1,090  | 1,074  | 1,075  | 1,070  | 1,072  | 1,059  | 1,061  | 1,081  | 1,063  | 1,060  | 1,049  | 1,058  | 1,087  |
| Streetlights              | 1,151  | 1,152  | 1,138  | 1,138  | 1,135  | 1,128  | 1,139  | 1,132  | 1,133  | 1,132  | 1,132  | 1,134  | 1,162  |
| Navy                      | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1      |
| Total                     | 51,435 | 51,662 | 51,846 | 51,977 | 51,565 | 52,049 | 52,579 | 51,771 | 52,001 | 52,075 | 52,759 | 52,848 | 52,829 |

| Debt service coverage (DSC) calculation-indenture  | 2018 | 2019 | 2020 | 2021 | 2022 |
|----------------------------------------------------|------|------|------|------|------|
| Senior lien coverage                               | 2.53 | 1.78 | 1.42 | 1.72 | 1.95 |
|                                                    |      |      |      |      |      |
| Debt service coverage (DSC) calculation-IPP as O&M |      |      |      |      |      |
| Senior lien coverage                               | 1.65 | 1.46 | 1.23 | 1.67 | 1.95 |



# November 2021 Monthly Financial Highlights (Continued)

5



(in '000)

Opening Recovery Balance

Under/(Over)

Closing Recovery Balance

| 2020     |          |           | 2021      |           |           |           |           |           |           |           |           |           |           |
|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Oct      | Nov      | Dec       | Jan       | Feb       | Mar       | Apr       | May       | June      | July      | Aug       | Sept      | Oct       | Nov       |
| \$ 5,137 | \$ 6,297 | \$ 8,733  | \$ 10,797 | \$ 13,231 | \$ 14,228 | \$ 17,500 | \$ 21,018 | \$ 24,855 | \$ 29,226 | \$ 32,453 | \$ 10,845 | \$ 14,168 | \$ 16,274 |
| 1,160    | 2,436    | 2,064     | 2,434     | 997       | 3,272     | 3,518     | 3,837     | 4,371     | 3,227     | (21,608)  | 3,323     | 2,106     | 3,421     |
| \$ 6,297 | \$ 8,733 | \$ 10,797 | \$ 13,231 | \$ 14,228 | \$ 17,500 | \$ 21,018 | \$ 24,855 | \$ 29,226 | \$ 32,453 | \$ 10,845 | \$ 14,168 | \$ 16,274 | \$ 19,695 |





# Guam Power Authority

## Financial Report

### November 30, 2021



## 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 2021

Attached are the financial statements and supporting schedules for the month and fiscal year ended November 30, 2021.

#### Summary

The increase in net assets for the month ended was \$1.5 million as compared to the anticipated net decrease of \$0.5 million projected at the beginning of the year. The total kWh sales for the month were 5.61% more than projected and non-fuel revenues were \$323k more than the estimated amounts. O & M expenses for the month were \$6.0 million which was \$0.4 million under 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 \$2.8 million, which was \$0.1 million greater than projected amounts. There were no other significant departures from the budget during the period.

#### Analysis

| Description                             | Previous Month | Current Month | Target      |
|-----------------------------------------|----------------|---------------|-------------|
| Quick Ratio                             | 2.88           | 2.58          | 2           |
| Days in Receivables                     | 51             | 53            | 52          |
| Days in Payables                        | 30             | 33            | 30          |
| LEAC (Over)/Under Recovery Balance -YTD | \$16,274,331   | \$19,695,128  | \$7,847,664 |
| T&D Losses                              | 5.44%          | 5.39%         | <7.00%      |
| Debt Service Coverage                   | 2.23           | 1.95          | 1.75        |
| Long-term equity ratio                  | 4.88%          | 5.17%         | 30 – 40%    |
| Days in Cash                            | 169            | 145           | 60          |

The Quick Ratio has been a challenge for GPA historically. However, the influx of cash from insurance proceeds continues to improve this ratio. GPA has current obligations of approximately \$66 million and approximately \$169 million in cash and current receivables. The LEAC under-recovery for the month was \$3.4 million. Debt Service Coverage ratio is calculated using the methodology in use before the Fiscal Year 2002 change in accounting practice.

**Financial Statements  
November 2021**

---

**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:



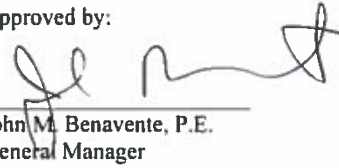
Maripaz N. Perez  
Assistant Chief Financial Officer

Reviewed by:



John J.E. Kim  
Chief Financial Officer

Approved by:



John M. Benavente, P.E.  
General Manager

| GUAM POWER AUTHORITY<br>(A COMPONENT UNIT OF THE GOVERNMENT OF GUAM)<br>Statements of Net Position<br>November 30, 2021 and September 30, 2021 |                               |                                |                                |
|------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|--------------------------------|--------------------------------|
|                                                                                                                                                | Unaudited<br>November<br>2021 | Unaudited<br>September<br>2021 | Change from<br>Sept 30<br>2021 |
| <b>ASSETS AND DEFERRED OUTFLOWS OF RESOURCES</b>                                                                                               |                               |                                |                                |
| Current assets:                                                                                                                                |                               |                                |                                |
| Cash and cash equivalents:                                                                                                                     |                               |                                |                                |
| Held by trustee for restricted purposes:                                                                                                       |                               |                                |                                |
| Interest and principal funds                                                                                                                   | \$ 13,010,411                 | \$ 39,685,396                  | \$ (26,674,985)                |
| Bond indenture funds                                                                                                                           | 3,068,451                     | 7,636,028                      | (4,567,577)                    |
| Held by Guam Power Authority:                                                                                                                  |                               |                                |                                |
| Bond indenture funds                                                                                                                           | 120,323,627                   | 146,602,303                    | (26,278,676)                   |
| Self insurance fund-restricted                                                                                                                 | 10,088,750                    | 9,478,718                      | 610,032                        |
| Energy sense fund                                                                                                                              | 2,564,298                     | 2,478,883                      | 85,414                         |
| Total cash and cash equivalents                                                                                                                | 149,055,537                   | 205,881,327                    | (56,825,790)                   |
| Accounts receivable, net                                                                                                                       | 48,621,604                    | 41,836,294                     | 6,785,310                      |
| Total current receivables                                                                                                                      | 48,621,604                    | 41,836,294                     | 6,785,310                      |
| Materials and supplies inventory                                                                                                               | 13,524,241                    | 12,999,867                     | 524,374                        |
| Fuel inventory                                                                                                                                 | 58,764,181                    | 36,234,483                     | 22,529,698                     |
| Prepaid expenses                                                                                                                               | 4,611,412                     | 3,307,390                      | 1,304,022                      |
| Total current assets                                                                                                                           | 274,576,975                   | 300,259,361                    | (25,682,386)                   |
| Utility plant, at cost:                                                                                                                        |                               |                                |                                |
| Electric plant in service                                                                                                                      | 1,164,965,173                 | 1,164,457,692                  | 507,481                        |
| Construction work in progress                                                                                                                  | 25,068,580                    | 24,018,930                     | 1,049,650                      |
| Total                                                                                                                                          | 1,190,033,753                 | 1,188,476,622                  | 1,557,131                      |
| Less: Accumulated depreciation                                                                                                                 | (709,771,932)                 | (703,965,760)                  | (5,806,172)                    |
| Total utility plant                                                                                                                            | 480,261,821                   | 484,510,861                    | (4,249,041)                    |
| Other non-current assets:                                                                                                                      |                               |                                |                                |
| Investment - bond reserve funds held by trustee                                                                                                | 48,014,948                    | 48,502,496                     | (487,548)                      |
| Unamortized debt issuance costs                                                                                                                | 1,658,211                     | 1,684,472                      | (26,261)                       |
| Total other non-current assets                                                                                                                 | 49,673,159                    | 50,186,968                     | (513,809)                      |
| Total assets                                                                                                                                   | 804,511,955                   | 834,957,191                    | (30,445,236)                   |
| Deferred outflow of resources:                                                                                                                 |                               |                                |                                |
| Deferred fuel revenue                                                                                                                          | 19,695,128                    | 14,168,085                     | 5,527,042                      |
| Unamortized loss on debt refunding                                                                                                             | 19,792,324                    | 20,172,384                     | (380,060)                      |
| Pension                                                                                                                                        | 17,005,307                    | 17,005,307                     | 0                              |
| Other post employment benefits                                                                                                                 | 44,664,204                    | 44,664,204                     | 0                              |
| Unamortized forward delivery contract costs                                                                                                    |                               |                                | 0                              |
| Total deferred outflows of resources                                                                                                           | 101,156,963                   | 96,009,981                     | 5,146,982                      |
|                                                                                                                                                | \$ 905,668,918                | \$ 930,967,172                 | \$ (25,298,254)                |

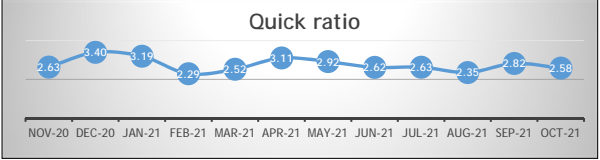
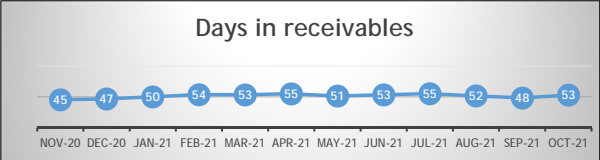

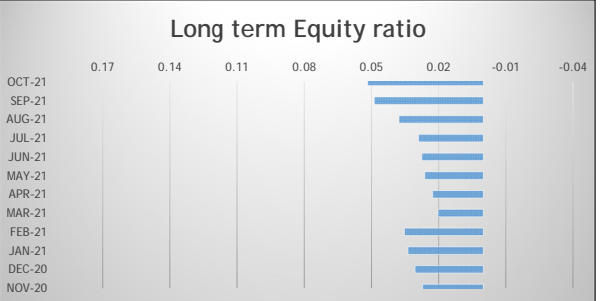
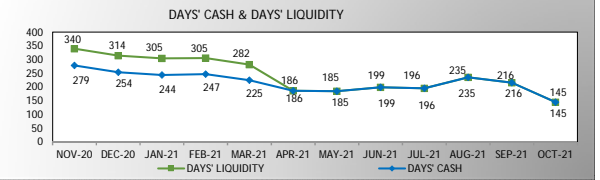


| GUAM POWER AUTHORITY<br>(A COMPONENT UNIT OF THE GOVERNMENT OF GUAM)<br>Statement of Net Position, Continued<br>November 30, 2021 and September 30, 2021 |                               |                                |                                |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|--------------------------------|--------------------------------|
|                                                                                                                                                          | Unaudited<br>November<br>2021 | Unaudited<br>September<br>2021 | Change from<br>Sept 30<br>2021 |
| LIABILITIES, DEFERRED INFLOWS OF RESOURCES AND NET POSITION                                                                                              |                               |                                |                                |
| Current liabilities:                                                                                                                                     |                               |                                |                                |
| Current maturities of long-term debt                                                                                                                     | \$ 22,705,000                 | \$ 21,540,000                  | \$ 1,165,000                   |
| Current obligations under capital leases                                                                                                                 | 1                             | 1                              | (0)                            |
| Accounts payable                                                                                                                                         |                               |                                |                                |
| Operations                                                                                                                                               | 24,873,000                    | 24,791,092                     | 81,908                         |
| Others                                                                                                                                                   | 396,598                       | 363,933                        | 32,664                         |
| Accrued payroll and employees' benefits                                                                                                                  | 630,321                       | 389,833                        | 240,489                        |
| Current portion of employees' annual leave                                                                                                               | 3,068,936                     | 3,059,947                      | 8,989                          |
| Interest payable                                                                                                                                         | 5,260,562                     | 13,995,961                     | (8,735,399)                    |
| Customer deposits                                                                                                                                        | 8,902,766                     | 9,095,907                      | (193,141)                      |
| Total current liabilities                                                                                                                                | 65,837,184                    | 73,236,674                     | (7,399,490)                    |
| Regulatory liabilities:                                                                                                                                  |                               |                                |                                |
| Provision for self insurance                                                                                                                             | 10,556,258                    | 9,955,323                      | 600,934                        |
| Total regulatory liabilities                                                                                                                             | 10,556,258                    | 9,955,323                      | 600,934                        |
| Long term debt, net of current maturities                                                                                                                | 511,964,053                   | 535,280,390                    | (23,316,337)                   |
| Obligations under capital leases, net of current portion                                                                                                 |                               |                                | 0                              |
| Net Pension liability                                                                                                                                    | 85,058,321                    | 85,644,960                     | (586,639)                      |
| Other post employment benefits liability                                                                                                                 | 161,936,073                   | 161,936,073                    | 0                              |
| DCRS sick leave liability                                                                                                                                | 1,502,154                     | 1,502,154                      | 0                              |
| Employees' annual leave net of current portion                                                                                                           | 1,204,085                     | 1,204,085                      | 0                              |
| Customer advances for construction                                                                                                                       | 470,165                       | 470,165                        | 0                              |
| Total liabilities                                                                                                                                        | 838,528,294                   | 869,229,824                    | (30,701,531)                   |
| Deferred inflows of resources:                                                                                                                           |                               |                                |                                |
| Unearned forward delivery contract revenue                                                                                                               | 292,009                       | 292,009                        | 0                              |
| Pension                                                                                                                                                  | 1,663,500                     | 1,663,500                      | 0                              |
| Other post employment benefits                                                                                                                           | 39,067,668                    | 39,067,668                     | 0                              |
| Total deferred inflows of resources                                                                                                                      | 41,023,177                    | 41,023,177                     | 0                              |
| Commitments and contingencies                                                                                                                            |                               |                                |                                |
| Net Position:                                                                                                                                            |                               |                                |                                |
| Net investment in capital assets                                                                                                                         | (3,793,999)                   | (16,641,170)                   | 12,847,171                     |
| Restricted                                                                                                                                               | 25,682,151                    | 66,343,958                     | (40,661,808)                   |
| Unrestricted                                                                                                                                             | 4,229,296                     | (28,988,618)                   | 33,217,914                     |
| Total net position                                                                                                                                       | 26,117,447                    | 20,714,171                     | 5,403,277                      |
|                                                                                                                                                          | \$ 905,668,918                | \$ 930,967,172                 | \$ (25,298,254)                |

| GUAM POWER AUTHORITY<br>(A COMPONENT UNIT OF THE GOVERNMENT OF GUAM)<br>Statement of Revenues, Expenses and Changes in Net Assets |                   |                   |                             |                                     |                   |                             |
|-----------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------|-----------------------------|-------------------------------------|-------------------|-----------------------------|
|                                                                                                                                   | November 30       |                   | % of<br>change<br>Inc (dec) | Two Months<br>Ending<br>November 30 |                   | % of<br>change<br>Inc (dec) |
|                                                                                                                                   | Unaudited<br>2021 | Unaudited<br>2020 |                             | Unaudited<br>2021                   | Unaudited<br>2020 |                             |
| Revenues                                                                                                                          |                   |                   |                             |                                     |                   |                             |
| Sales of electricity                                                                                                              | \$ 32,685,303     | \$ 23,853,184     | 37                          | \$ 65,461,554                       | \$ 47,816,837     | 37                          |
| DSM-Rebates                                                                                                                       | 329,116           | 322,469           | 2                           | 644,243                             | 625,329           | 3                           |
| Miscellaneous                                                                                                                     | 138,686           | 217,043           | (36)                        | 262,673                             | 280,243           | (6)                         |
| Total                                                                                                                             | 33,153,105        | 24,392,696        | 36                          | 66,368,470                          | 48,722,409        | 36                          |
| Bad debt expense                                                                                                                  | (101,917)         | (87,083)          | 17                          | (203,834)                           | (174,166)         | 17                          |
| Total revenues                                                                                                                    | 33,051,188        | 24,305,613        | 36                          | 66,164,636                          | 48,548,243        | 36                          |
| Operating and maintenance expenses                                                                                                |                   |                   |                             |                                     |                   |                             |
| Production fuel                                                                                                                   | 19,600,460        | 10,984,229        | 78                          | 38,031,355                          | 21,894,551        | 74                          |
| Other production                                                                                                                  | 1,367,885         | 1,321,410         | 4                           | 2,535,291                           | 2,270,011         | 12                          |
|                                                                                                                                   | 20,968,345        | 12,305,639        | 70                          | 40,566,646                          | 24,164,562        | 68                          |
| Depreciation                                                                                                                      | 2,932,929         | 3,761,362         | (22)                        | 5,907,933                           | 6,588,893         | (10)                        |
| Energy conversion cost                                                                                                            | 791,433           | 1,059,870         | (25)                        | 1,610,710                           | 2,161,496         | (25)                        |
| Transmission & distribution                                                                                                       | 1,045,373         | 1,110,532         | (6)                         | 1,981,211                           | 2,391,427         | (17)                        |
| Customer accounting                                                                                                               | 688,749           | 401,099           | 72                          | 1,141,265                           | 796,441           | 43                          |
| Administrative & general                                                                                                          | 2,936,753         | 2,555,715         | 15                          | 5,359,976                           | 5,445,763         | (2)                         |
| Total operating and maintenance expenses                                                                                          | 29,363,582        | 21,194,217        | 39                          | 56,567,740                          | 41,548,582        | 36                          |
| Operating income                                                                                                                  | 3,687,606         | 3,111,396         | 19                          | 9,596,896                           | 6,999,661         | 37                          |
| Other income (expenses)                                                                                                           |                   |                   |                             |                                     |                   |                             |
| Interest income                                                                                                                   | 11,868            | 51,359            | (77)                        | 3,167                               | 91,761            | (97)                        |
| Interest expense and amortization                                                                                                 | (2,279,797)       | (2,189,177)       | 4                           | (4,382,568)                         | (4,295,272)       | 2                           |
| Bond issuance costs                                                                                                               | 102,507           | 89,228            | 15                          | 205,015                             | 178,456           | 15                          |
| Allowance for funds used during construction                                                                                      | 18,256            | 0                 | 0                           | 44,125                              | 0                 | 0                           |
| Pandemic-COVID19                                                                                                                  | (42,686)          | (45,187)          | 0                           | (42,686)                            | (48,204)          | 0                           |
| Losses due to typhoon                                                                                                             | (12,090)          | 0                 | 0                           | (12,090)                            | 0                 | 0                           |
| Grant from GovGuam                                                                                                                |                   |                   | 0                           | 0                                   | 0                 | 0                           |
| Reduction in Under Recovery of Fuel                                                                                               |                   |                   | 0                           | 0                                   | 0                 | 0                           |
| Other expense                                                                                                                     | (4,291)           | (4,291)           | (0)                         | (8,582)                             | (8,582)           | (0)                         |
| Total other income (expenses)                                                                                                     | (2,206,233)       | (2,098,068)       | 5                           | (4,193,620)                         | (4,081,841)       | 3                           |
| Income (loss) before capital contributions                                                                                        | 1,481,373         | 1,013,328         | 46                          | 5,403,276                           | 2,917,820         | 85                          |
| Capital contributions                                                                                                             |                   | 0                 | 0                           | 0                                   | 0                 | 0                           |
| Increase (decrease) in net assets                                                                                                 | 1,481,373         | 1,013,328         | 46                          | 5,403,276                           | 2,917,820         | 85                          |
| Total net assets at beginning of period                                                                                           | 24,636,075        | 3,470,713         | 610                         | 20,714,172                          | 1,566,221         | 1,223                       |
| Total net assets at end of period                                                                                                 | \$ 26,117,448     | \$ 4,484,041      | 482                         | \$ 26,117,448                       | \$ 4,484,041      | 482                         |

| <b>GUAM POWER AUTHORITY</b><br><b>(A COMPONENT UNIT OF THE GOVERNMENT OF GUAM)</b><br><b>Statements of Cash Flows</b><br><b>Period Ended November 30, 2021</b> |                            |                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|--------------------------|
|                                                                                                                                                                | Month Ending<br>11/30/2021 | YTD Ending<br>11/30/2021 |
| Increase(decrease) in cash and cash equivalents                                                                                                                |                            |                          |
| Cash flows from operating activities:                                                                                                                          |                            |                          |
| Cash received from customers                                                                                                                                   | \$30,059,584               | \$ 59,393,725            |
| Cash payments to suppliers and employees<br>for goods and services                                                                                             | 41,343,625                 | 79,911,573               |
| Net cash provided by operating activities                                                                                                                      | (\$11,284,041)             | (20,517,848)             |
| Cash flows from investing activities:                                                                                                                          |                            |                          |
| Interest and dividends on investments and<br>bank accounts                                                                                                     | 11,868                     | 3,167                    |
| Net cash provided by investing activities                                                                                                                      | 11,868                     | 3,167                    |
| Cash flows from non-capital financing activities                                                                                                               |                            |                          |
| Interest paid on short term debt                                                                                                                               | (14,867)                   | (20,093)                 |
| Provision for self insurance funds                                                                                                                             | (610,032)                  | (610,032)                |
| Net cash provided by noncapital financing activities                                                                                                           | (624,899)                  | (630,125)                |
| Cash flows from capital and related financing activities                                                                                                       |                            |                          |
| Acquisition of utility plant                                                                                                                                   | (941,346)                  | (1,658,893)              |
| Principal paid on bonds and other long-term debt                                                                                                               | -                          | (21,540,000)             |
| Interest paid on bonds(net of capitalized interest)                                                                                                            | 18,256                     | (13,053,750)             |
| Interest paid on capital lease obligations                                                                                                                     | -                          | -                        |
| Interest & principal funds held by trustee                                                                                                                     | (3,977,544)                | 26,674,985               |
| Reserve funds held by trustee                                                                                                                                  | 477,384                    | 487,548                  |
| Bond funds held by trustee                                                                                                                                     | 4,567,640                  | 4,567,577                |
| Principal payment on capital lease obligations                                                                                                                 | (0)                        | (0)                      |
| Grant from DOI/FEMA                                                                                                                                            | -                          | -                        |
| Grant from GovGuam                                                                                                                                             | -                          | -                        |
| Reduction in Under Recovery of Fuel                                                                                                                            | -                          | -                        |
| Debt issuance costs/loss on defeasance                                                                                                                         | (314,900)                  | (611,337)                |
| Net cash provided by (used in) capital and related<br>financing activities                                                                                     | (170,509)                  | (5,133,870)              |
| Net (decrease) increase in cash and cash equivalents                                                                                                           | (12,067,582)               | (26,278,676)             |
| Cash and cash equivalents, beginning                                                                                                                           | 132,391,209                | 146,602,303              |
| Cash and cash equivalents-Funds held by GPA, November 30, 2021                                                                                                 | \$ 120,323,627             | \$ 120,323,627           |

| <b>GUAM POWER AUTHORITY</b><br><b>(A COMPONENT UNIT OF THE GOVERNMENT OF GUAM)</b><br><b>Statements of Cash Flows, continued</b><br><b>Period Ended November 30, 2021</b> |                            |                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|--------------------------|
|                                                                                                                                                                           | Month Ending<br>11/30/2021 | YTD Ending<br>11/30/2021 |
| Reconciliation of operating earnings to net cash provided by operating activities:                                                                                        |                            |                          |
| Operating earnings net of depreciation expense and excluding interest income                                                                                              | \$3,687,606                | \$9,596,896              |
| Adjustments to reconcile operating earnings to net cash provided by operating activities:                                                                                 |                            |                          |
| Depreciation and amortization                                                                                                                                             | 2,932,929                  | 5,907,933                |
| Other expense                                                                                                                                                             | 43,440                     | 141,657                  |
| (Increase) decrease in assets:                                                                                                                                            |                            |                          |
| Accounts receivable                                                                                                                                                       | (2,998,690)                | (6,785,310)              |
| Materials and inventory                                                                                                                                                   | (569,824)                  | (524,374)                |
| Fuel inventory                                                                                                                                                            | (13,029,630)               | (22,529,698)             |
| Prepaid expenses                                                                                                                                                          | 736,442                    | (1,304,022)              |
| Unamortized debt issuance cost                                                                                                                                            | 22,362                     | 26,261                   |
| Deferred fuel revenue                                                                                                                                                     | (3,420,796)                | (5,527,042)              |
| Unamortized loss on debt refunding                                                                                                                                        | 190,030                    | 380,060                  |
| Unamortized forward delivery contract costs                                                                                                                               | -                          | -                        |
| Increase (decrease) in liabilities:                                                                                                                                       |                            |                          |
| Accounts payable-operations                                                                                                                                               | 1,674,148                  | 81,908                   |
| Accounts payable-others                                                                                                                                                   | (461,410)                  | (52,750)                 |
| Accrued payroll and employees' benefits                                                                                                                                   | 187,479                    | 240,489                  |
| Provision for Self-Insurance                                                                                                                                              | 306,991                    | 600,934                  |
| Net pension liability                                                                                                                                                     | (298,953)                  | (586,639)                |
| Employees' annual leave                                                                                                                                                   | 14,860                     | 8,989                    |
| Customers deposits                                                                                                                                                        | (301,026)                  | (193,141)                |
| Customer advances for construction                                                                                                                                        | -                          | -                        |
| Unearned forward delivery contract revenue                                                                                                                                | -                          | -                        |
| <b>Net cash provided by operating activities</b>                                                                                                                          | <b>(\$11,284,041)</b>      | <b>\$ (20,517,848)</b>   |

| Guam Power Authority<br>Financial Analysis<br>11/30/21                               |                |  |
|--------------------------------------------------------------------------------------|----------------|--|
| <b>Quick Ratio</b>                                                                   |                |  |
| A Reserve Funds Held by GPA                                                          | 120,323,627    |  |
| B Current Accounts Receivable                                                        | 49,763,906     |  |
| C Total Cash and A/R (A+B)                                                           | 170,087,533    |  |
| D Total Current Liabilities                                                          | 65,837,184     |  |
| E Quick Ratio (F/G)                                                                  | 2.58           |  |
|    |                |  |
| <b>Days in Receivables</b>                                                           |                |  |
| A FY 22 Moving 12 Mos. -Actual                                                       | 341,879,082    |  |
| B No. of Days                                                                        | 365            |  |
| C Average Revenues per day (A/B)                                                     | 936,655        |  |
| D Current Accounts Receivable                                                        | 49,763,906     |  |
| E Days in Receivables (D/C)                                                          | 53             |  |
|    |                |  |
| <b>Days in Payables</b>                                                              |                |  |
| A FY 22 Moving 12 Months-Actual                                                      | 276,686,980    |  |
| B No. of Days                                                                        | 365            |  |
| C Average Payables per day (A/B)                                                     | 758,047        |  |
| D Current Accounts Payables                                                          | 25,285,016     |  |
| E Days in Payables (D/C)                                                             | 33             |  |
|    |                |  |
| <b>Long term equity ratio</b>                                                        |                |  |
| A Equity                                                                             | \$ 26,117,447  |  |
| B Total Long term Liability                                                          | \$ 478,904,257 |  |
| C Total Equity and liability                                                         | \$ 505,021,705 |  |
| D Long term equity ratio (A/C)                                                       | 5.17%          |  |
|   |                |  |
| <b>Days cash on hand</b>                                                             |                |  |
| A Unrestricted cash & cash equivalents                                               | 120,324        |  |
| B No. of Days -YTD                                                                   | 61             |  |
| C A x B                                                                              | 7,339,741      |  |
| D Total Operating expenses excluding depreciation                                    | 50,660         |  |
| E Days cash on hand                                                                  | 145            |  |
| <b>Days' Liquidity</b>                                                               |                |  |
| A Unrestricted cash , cash equivalents & revolving Credit                            | 120,324        |  |
| B No. of Days -YTD                                                                   | 61             |  |
| C A x B                                                                              | 7,339,741      |  |
| D Total Operating expenses excluding depreciation                                    | 50,660         |  |
| E Days liquidity                                                                     | 145            |  |
|  |                |  |

**GUAM POWER AUTHORITY  
ACCRUED REVENUE  
NOVEMBER 2021**

|                             | FOR THE MONTH ENDED<br>NOVEMBER |                    | TWO MONTHS ENDED<br>NOVEMBER |                    |
|-----------------------------|---------------------------------|--------------------|------------------------------|--------------------|
|                             | 2021                            | 2020               | 2021                         | 2020               |
| <b>KWH SALES:</b>           |                                 |                    |                              |                    |
| Residential                 | 48,087,642                      | 47,924,589         | 94,296,909                   | 94,941,650         |
| Residential - Apt & Condo   | 662,924                         | -                  | 1,324,595                    | -                  |
| Small Gen. Non Demand       | 6,873,816                       | 5,490,013          | 13,770,190                   | 11,212,266         |
| Small Gen. Demand           | 16,599,417                      | 15,180,559         | 32,689,395                   | 30,930,898         |
| Large General               | 17,942,248                      | 18,776,244         | 35,479,193                   | 37,312,279         |
| Independent Power Producer  | 41,173                          | 74,692             | 69,815                       | 108,017            |
| Private St. Lights          | 33,774                          | 33,159             | 65,127                       | 67,432             |
| Sub-total                   | 90,240,994                      | 87,479,256         | 177,695,224                  | 174,572,543        |
| <b>Government Service:</b>  |                                 |                    |                              |                    |
| Small Non Demand            | 954,648                         | 785,007            | 1,973,105                    | 1,612,222          |
| Small Demand                | 9,376,567                       | 7,754,428          | 18,737,986                   | 15,619,195         |
| Large                       | 4,066,393                       | 4,826,626          | 8,403,344                    | 10,008,048         |
| Street Lighting             | 403,673                         | 557,701            | 980,949                      | 1,192,327          |
| Sub-total                   | 14,801,282                      | 13,923,762         | 30,095,384                   | 28,431,792         |
| Total                       | 105,042,276                     | 101,403,018        | 207,790,608                  | 203,004,335        |
| U. S. Navy                  | 25,554,904                      | 27,037,233         | 51,981,082                   | 52,950,589         |
| <b>GRAND TOTAL</b>          | <b>130,597,180</b>              | <b>128,440,251</b> | <b>259,771,691</b>           | <b>255,954,924</b> |
| <b>REVENUE:</b>             |                                 |                    |                              |                    |
| Residential                 | 11,676,919                      | 8,561,989          | 23,387,455                   | 17,001,508         |
| Residential - Apt & Condo   | 155,449                         | -                  | 310,823                      | -                  |
| Small Gen. Non Demand       | 1,963,390                       | 1,242,336          | 4,011,776                    | 2,548,901          |
| Small Gen. Demand           | 4,258,463                       | 3,031,479          | 8,559,378                    | 6,204,224          |
| Large General               | 4,531,785                       | 3,471,380          | 9,041,551                    | 7,069,475          |
| Independent Power Producer  | 11,236                          | 8,640              | 18,460                       | 15,186             |
| Private St. Lights          | 25,776                          | 23,400             | 50,711                       | 47,687             |
| Sub-total                   | 22,623,018                      | 16,339,223         | 45,380,155                   | 32,886,981         |
| <b>Government Service:</b>  |                                 |                    |                              |                    |
| Small Non Demand            | 291,714                         | 192,813            | 600,490                      | 396,045            |
| Small Demand                | 2,601,332                       | 1,687,099          | 5,196,916                    | 3,409,879          |
| Large                       | 1,059,790                       | 1,003,746          | 2,191,427                    | 2,103,429          |
| Street Lighting             | 392,968                         | 387,718            | 820,590                      | 785,908            |
| Sub-total                   | 4,345,805                       | 3,271,376          | 8,809,423                    | 6,695,261          |
| Total                       | 26,968,822                      | 19,610,598         | 54,189,578                   | 39,582,242         |
| U. S. Navy                  | 5,716,481                       | 4,242,586          | 11,271,976                   | 8,234,596          |
| <b>GRAND TOTAL</b>          | <b>32,685,303</b>               | <b>23,853,184</b>  | <b>65,461,554</b>            | <b>47,816,837</b>  |
| <b>NUMBER OF CUSTOMERS:</b> |                                 |                    |                              |                    |
| Residential                 | 45,227                          | 44,271             | 45,232                       | 43,994             |
| Residential - Apt & Condo   | 5                               | -                  | 6                            | -                  |
| Small Gen. Non Demand       | 4,523                           | 4,380              | 4,519                        | 4,180              |
| Small Gen. Demand           | 737                             | 823                | 738                          | 983                |
| Large General               | 85                              | 97                 | 85                           | 118                |
| Independent Power Producer  | 2                               | 2                  | 2                            | 3                  |
| Private St. Lights          | 521                             | 517                | 520                          | 526                |
| Sub-total                   | 51,100                          | 50,090             | 51,100                       | 49,802             |
| <b>Government Service:</b>  |                                 |                    |                              |                    |
| Small Non Demand            | 709                             | 684                | 702                          | 677                |
| Small Demand                | 358                             | 355                | 351                          | 340                |
| Large                       | 20                              | 40                 | 20                           | 43                 |
| Street Lighting             | 641                             | 618                | 640                          | 618                |
| Sub-total                   | 1,728                           | 1,697              | 1,713                        | 1,677              |
| Total                       | 52,828                          | 51,787             | 52,813                       | 51,479             |
| US Navy                     | 1                               | 1                  | 1                            | 1                  |
|                             | 52,829                          | 51,788             | 52,814                       | 51,480             |

GPA Work Session - January 20, 2022 - GM REPORT UPDATES

| GPA403                     |                        | GUAM POWER AUTHORITY<br>ACCRUED REVENUE |                 |                   |                |               |               |               |               |               |                  |                 |                  |  |
|----------------------------|------------------------|-----------------------------------------|-----------------|-------------------|----------------|---------------|---------------|---------------|---------------|---------------|------------------|-----------------|------------------|--|
|                            | TWELVE<br>MONTHS ENDED | NOVEMBER<br>2021                        | OCTOBER<br>2021 | SEPTEMBER<br>2021 | AUGUST<br>2021 | JULY<br>2021  | JUNE<br>2021  | MAY<br>2021   | APRIL<br>2021 | MARCH<br>2021 | FEBRUARY<br>2021 | JANUARY<br>2021 | DECEMBER<br>2020 |  |
| KWH SALES:                 |                        |                                         |                 |                   |                |               |               |               |               |               |                  |                 |                  |  |
| Residential                | 580,543,356            | 48,087,642                              | 46,209,267      | 47,028,402        | 46,760,737     | 50,202,955    | 54,956,782    | 52,850,154    | 46,568,762    | 48,771,669    | 42,297,847       | 49,701,539      | 47,107,600       |  |
| Residential - Apt & Condo  | 4,480,760              | 662,924                                 | 661,671         | 637,015           | 632,147        | 653,330       | 677,455       | 556,219       | 0             | 0             | 0                | 0               | 0                |  |
| Small General Non Demand   | 77,753,632             | 6,873,816                               | 6,896,374       | 6,593,068         | 6,793,429      | 7,108,892     | 6,924,843     | 7,276,536     | 6,491,718     | 6,181,821     | 5,320,594        | 5,647,220       | 5,645,321        |  |
| Small General Demand       | 190,842,444            | 16,599,417                              | 16,089,978      | 15,455,731        | 16,098,295     | 16,688,580    | 16,243,376    | 16,369,442    | 16,491,201    | 15,846,106    | 14,414,603       | 14,940,853      | 15,604,863       |  |
| Large General              | 217,331,425            | 17,942,248                              | 17,536,945      | 17,704,888        | 18,597,960     | 18,930,932    | 17,898,901    | 18,958,969    | 17,748,417    | 18,590,234    | 16,494,154       | 17,811,468      | 19,116,309       |  |
| Private Outdoor Lighting   | 388,530                | 33,774                                  | 28,642          | 33,440            | 32,913         | 32,435        | 33,557        | 31,625        | 34,507        | 30,651        | 31,009           | 34,202          | 31,775           |  |
| Independent Power Producer | 384,895                | 41,173                                  | 31,353          | 27,693            | 34,376         | 29,999        | 28,733        | 21,893        | 34,625        | 31,495        | 33,249           | 35,152          | 35,155           |  |
| Sub-Total                  | 1,071,725,041          | 90,240,994                              | 87,454,230      | 87,480,236        | 88,949,856     | 93,647,123    | 96,763,645    | 96,064,839    | 87,369,230    | 89,451,976    | 78,591,456       | 88,170,433      | 87,541,022       |  |
| Government Service:        |                        |                                         |                 |                   |                |               |               |               |               |               |                  |                 |                  |  |
| Small Non Demand           | 11,066,599             | 954,648                                 | 1,018,457       | 973,499           | 999,588        | 979,317       | 933,456       | 1,021,708     | 968,685       | 887,301       | 735,075          | 798,105         | 796,758          |  |
| Small Demand               | 105,666,236            | 9,376,567                               | 9,361,419       | 8,781,057         | 9,198,450      | 9,188,345     | 8,996,648     | 9,426,469     | 9,008,025     | 8,477,141     | 7,585,311        | 8,032,905       | 8,233,899        |  |
| Large                      | 52,686,407             | 4,066,393                               | 4,336,950       | 4,083,142         | 4,412,625      | 4,354,590     | 4,202,613     | 4,307,222     | 4,168,906     | 4,895,498     | 4,438,169        | 4,651,006       | 4,769,294        |  |
| Street Lighting (Agencies) | 6,866,782              | 403,673                                 | 577,276         | 634,577           | 558,806        | 634,626       | 557,701       | 576,932       | 634,691       | 538,470       | 557,701          | 557,750         | 634,577          |  |
| Sub-Total                  | 176,286,023            | 14,801,282                              | 15,294,102      | 14,472,274        | 15,169,469     | 15,156,878    | 14,690,418    | 15,332,331    | 14,780,307    | 14,798,411    | 13,316,257       | 14,039,765      | 14,434,528       |  |
| Total                      | 1,248,011,064          | 105,042,276                             | 102,748,332     | 101,952,511       | 104,119,326    | 108,804,002   | 111,454,063   | 111,397,170   | 102,149,537   | 104,250,386   | 91,907,713       | 102,210,199     | 101,975,550      |  |
| U.S. Navy                  | 310,772,797            | 25,554,904                              | 26,426,178      | 26,815,294        | 26,692,993     | 27,207,666    | 26,320,152    | 26,562,916    | 23,118,519    | 25,707,988    | 23,290,980       | 26,998,129      | 26,077,078       |  |
| Grand Total                | 1,558,783,862          | 130,597,180                             | 129,174,510     | 128,767,804       | 130,812,319    | 136,011,668   | 137,774,215   | 137,960,086   | 125,268,057   | 129,958,374   | 115,198,693      | 129,208,328     | 128,052,627      |  |
| REVENUE:                   |                        |                                         |                 |                   |                |               |               |               |               |               |                  |                 |                  |  |
| Residential                | \$ 122,338,629         | \$ 11,676,919                           | \$ 11,710,536   | \$ 10,482,378     | \$ 10,967,335  | \$ 10,140,852 | \$ 10,297,031 | \$ 10,560,583 | \$ 10,189,207 | \$ 9,990,684  | \$ 9,140,772     | \$ 8,731,054    | \$ 8,451,276     |  |
| Residential - Apt & Condo  | \$ 947,917             | \$ 155,449                              | \$ 155,374      | \$ 136,108        | \$ 136,247     | \$ 126,253    | \$ 131,054    | \$ 107,432    | \$ -          | \$ -          | \$ -             | \$ -            | \$ -             |  |
| Small General Non Demand   | \$ 19,946,371          | \$ 1,963,390                            | \$ 2,048,385    | \$ 1,754,981      | \$ 1,888,758   | \$ 1,740,901  | \$ 1,689,985  | \$ 1,784,142  | \$ 1,588,001  | \$ 1,543,103  | \$ 1,416,678     | \$ 1,246,825    | \$ 1,281,222     |  |
| Small General Demand       | \$ 43,694,738          | \$ 4,258,463                            | \$ 4,300,915    | \$ 3,694,240      | \$ 3,993,223   | \$ 3,642,566  | \$ 3,515,812  | \$ 3,588,205  | \$ 3,588,041  | \$ 3,562,230  | \$ 3,397,314     | \$ 3,009,490    | \$ 3,144,237     |  |
| Large General              | \$ 47,736,578          | \$ 4,531,785                            | \$ 4,509,766    | \$ 4,083,273      | \$ 4,358,675   | \$ 3,983,244  | \$ 3,763,127  | \$ 4,008,672  | \$ 3,729,564  | \$ 3,990,698  | \$ 3,657,630     | \$ 3,446,715    | \$ 3,673,430     |  |
| Private Outdoor Lighting   | \$ 290,003             | \$ 25,776                               | \$ 24,936       | \$ 24,609         | \$ 24,904      | \$ 23,710     | \$ 24,407     | \$ 23,633     | \$ 25,401     | \$ 23,391     | \$ 23,165        | \$ 23,434       | \$ 22,998        |  |
| Independent Power Producer | \$ 91,555              | \$ 11,236                               | \$ 7,224        | \$ 6,610          | \$ 9,000       | \$ 6,767      | \$ 8,011      | \$ 5,021      | \$ 7,140      | \$ 8,082      | \$ 7,203         | \$ 8,477        | \$ 6,783         |  |
| Sub-Total                  | \$ 235,045,792         | \$ 22,623,018                           | \$ 22,757,137   | \$ 20,182,200     | \$ 21,378,144  | \$ 19,664,294 | \$ 19,429,067 | \$ 20,077,688 | \$ 19,127,353 | \$ 19,118,189 | \$ 17,642,760    | \$ 16,465,995   | \$ 16,579,946    |  |
| Government Service:        |                        |                                         |                 |                   |                |               |               |               |               |               |                  |                 |                  |  |
| Small Non Demand           | \$ 3,020,876           | \$ 291,714                              | \$ 308,775      | \$ 275,673        | \$ 284,291     | \$ 258,104    | \$ 246,769    | \$ 268,911    | \$ 254,670    | \$ 237,132    | \$ 200,646       | \$ 197,714      | \$ 196,477       |  |
| Small Demand               | \$ 25,906,464          | \$ 2,601,332                            | \$ 2,595,585    | \$ 2,265,374      | \$ 2,374,691   | \$ 2,167,055  | \$ 2,120,088  | \$ 2,233,484  | \$ 2,123,880  | \$ 2,033,824  | \$ 1,851,945     | \$ 1,761,409    | \$ 1,777,805     |  |
| Large                      | \$ 12,116,067          | \$ 1,059,790                            | \$ 1,131,637    | \$ 987,049        | \$ 1,065,159   | \$ 958,637    | \$ 929,084    | \$ 953,007    | \$ 918,136    | \$ 1,123,487  | \$ 1,035,369     | \$ 971,980      | \$ 982,731       |  |
| Street Lighting (Agencies) | \$ 4,873,891           | \$ 392,968                              | \$ 427,622      | \$ 425,889        | \$ 413,021     | \$ 412,911    | \$ 400,655    | \$ 403,719    | \$ 412,948    | \$ 397,593    | \$ 400,655       | \$ 387,724      | \$ 398,184       |  |
| Sub-Total                  | \$ 45,917,297          | \$ 4,345,805                            | \$ 4,463,619    | \$ 3,953,985      | \$ 4,137,162   | \$ 3,796,707  | \$ 3,696,589  | \$ 3,859,122  | \$ 3,709,634  | \$ 3,792,036  | \$ 3,488,615     | \$ 3,318,827    | \$ 3,355,197     |  |
| Total                      | \$ 280,963,089         | \$ 26,968,822                           | \$ 27,220,756   | \$ 24,136,184     | \$ 25,515,306  | \$ 23,461,001 | \$ 23,125,656 | \$ 23,936,810 | \$ 22,836,987 | \$ 22,910,225 | \$ 21,131,376    | \$ 19,784,822   | \$ 19,935,143    |  |
| U.S. Navy                  | \$ 60,915,993          | \$ 5,716,481                            | \$ 5,555,495    | \$ 5,769,264      | \$ 4,899,219   | \$ 5,519,202  | \$ 5,765,299  | \$ 5,184,093  | \$ 4,539,687  | \$ 4,888,565  | \$ 4,063,178     | \$ 4,262,178    | \$ 4,753,332     |  |
| Grand Total                | \$ 341,879,082         | \$ 32,685,303                           | \$ 32,776,251   | \$ 29,905,448     | \$ 30,414,525  | \$ 28,980,204 | \$ 28,890,955 | \$ 29,120,903 | \$ 27,376,674 | \$ 27,798,789 | \$ 25,194,553    | \$ 24,047,000   | \$ 24,688,476    |  |
| NUMBER OF CUSTOMERS:       |                        |                                         |                 |                   |                |               |               |               |               |               |                  |                 |                  |  |
| Residential                | 44,909                 | 45,227                                  | 45,237          | 45,285            | 45,311         | 45,071        | 45,241        | 44,555        | 44,502        | 44,575        | 45,051           | 44,503          | 44,345           |  |
| Residential - Apt & Condo  | 6                      | 5                                       | 6               | 7                 | 6              | 6             | 6             | 5             | 0             | 0             | 0                | 0               | 0                |  |
| Small General Non Demand   | 4,458                  | 4,523                                   | 4,515           | 4,511             | 4,508          | 4,501         | 4,502         | 4,491         | 4,433         | 4,386         | 4,367            | 4,381           | 4,378            |  |
| Small General Demand       | 775                    | 737                                     | 738             | 743               | 743            | 742           | 741           | 741           | 834           | 824           | 820              | 821             | 821              |  |
| Large General              | 90                     | 85                                      | 84              | 85                | 85             | 85            | 85            | 86            | 95            | 95            | 95               | 97              | 97               |  |
| Private Outdoor Lighting   | 515                    | 521                                     | 518             | 511               | 514            | 511           | 514           | 514           | 517           | 514           | 517              | 515             | 517              |  |
| Independent Power Producer | 2                      | 2                                       | 2               | 2                 | 2              | 2             | 2             | 2             | 2             | 2             | 2                | 2               | 2                |  |
| Sub-Total                  | 50,755                 | 51,100                                  | 51,100          | 51,144            | 51,169         | 50,918        | 51,091        | 50,394        | 50,383        | 50,396        | 50,852           | 50,319          | 50,160           |  |
| Government Service:        |                        |                                         |                 |                   |                |               |               |               |               |               |                  |                 |                  |  |
| Small Non Demand           | 689                    | 709                                     | 695             | 696               | 694            | 686           | 686           | 687           | 692           | 679           | 675              | 682             | 685              |  |
| Small Demand               | 348                    | 358                                     | 344             | 344               | 344            | 343           | 343           | 344           | 360           | 350           | 350              | 350             | 349              |  |
| Large                      | 25                     | 20                                      | 20              | 20                | 20             | 20            | 20            | 20            | 31            | 31            | 31               | 31              | 34               |  |
| Street Lighting (Agencies) | 622                    | 641                                     | 639             | 620               | 620            | 618           | 618           | 618           | 619           | 618           | 618              | 618             | 618              |  |
| Sub-Total                  | 1,684                  | 1,728                                   | 1,698           | 1,680             | 1,678          | 1,667         | 1,667         | 1,669         | 1,702         | 1,678         | 1,674            | 1,681           | 1,686            |  |
| Total                      | 52,439                 | 52,828                                  | 52,798          | 52,824            | 52,847         | 52,585        | 52,758        | 52,063        | 52,085        | 52,074        | 52,526           | 52,000          | 51,846           |  |
| U.S. Navy                  | 1                      | 1                                       | 1               | 1                 | 1              | 1             | 1             | 1             | 1             | 1             | 1                | 1               | 1                |  |
| Grand Total                | 52,440                 | 52,829                                  | 52,799          | 52,825            | 52,848         | 52,586        | 52,759        | 52,064        | 52,086        | 52,075        | 52,527           | 52,001          | 51,847           |  |

## GPA Work Session - January 20, 2022 - GM REPORT UPDATES

GUAM POWER AUTHORITY  
ACCRUED REVENUE  
NOVEMBER 2021

|           |          |
|-----------|----------|
| NEW RATE  |          |
| LEAC      | 0.150800 |
| DSM       | 0.003109 |
| FUEL RATE | 0.147691 |

| RATE                              | NUMBER OF CUSTOMERS | KWH SALES     | TOTAL REVENUE |         | BASE RATE REVENUE |             | AVERAGE PER CUSTOMER |            | NON-FUEL |             | OIL     |             |
|-----------------------------------|---------------------|---------------|---------------|---------|-------------------|-------------|----------------------|------------|----------|-------------|---------|-------------|
|                                   |                     |               | AMOUNT        | C/KWH   | C/KWH             | AMOUNT      | KWH                  | REVENUE    | C/KWH    | AMOUNT      | C/KWH   | AMOUNT      |
| Month                             |                     |               |               |         |                   |             |                      |            | 0        |             |         |             |
| R Residential                     | 45,227              | 48,087,642    | 11,676,919    | 24.2826 | 24.2826           | 11,676,919  | 1,063                | 258.18     | 9.5135   | 4,574,807   | 14.7691 | 7,102,112   |
| D Residential - Apt & Condo       | 5                   | 662,924       | 155,449       | 23.4490 | 23.4490           | 155,449     | 132,585              | 31,089.79  | 8.6799   | 57,541      | 14.7691 | 97,908      |
| G Small Gen. Non Demand           | 4,523               | 6,873,816     | 1,963,390     | 28.5633 | 28.5633           | 1,963,390   | 1,520                | 434.09     | 13.7942  | 948,189     | 14.7691 | 1,015,201   |
| J Small Gen. Demand               | 737                 | 16,599,417    | 4,258,463     | 25.6543 | 25.6543           | 4,258,463   | 22,523               | 5,778.10   | 10.8911  | 1,807,857   | 14.7632 | 2,450,607   |
| P Large General                   | 85                  | 17,942,248    | 4,531,785     | 25.2576 | 25.2576           | 4,531,785   | 211,085              | 53,315.12  | 10.5806  | 1,898,398   | 14.6770 | 2,633,387   |
| I Independent Power Producer      | 2                   | 41,173        | 11,236        | 27.2896 | 27.2896           | 11,236      | 20,586               | 5,617.97   | 13.0653  | 5,379       | 14.2243 | 5,857       |
| H Private St. Lights              | 521                 | 33,774        | 25,776        | 76.3171 | 76.3171           | 25,776      | 65                   | 49.47      | 61.5480  | 20,787      | 14.7691 | 4,988       |
| Sub-Total                         | 51,100              | 90,240,994    | 22,623,018    | 25.0696 | 25.0696           | 22,623,018  | 1,766                | 442.72     | 10.3201  | 9,312,959   | 14.7495 | 13,310,059  |
| Government Service:               |                     |               |               |         |                   |             |                      |            |          |             |         |             |
| S Small Non Demand                | 709                 | 954,648       | 291,714       | 30.5573 | 30.5573           | 291,714     | 1,346                | 411.44     | 15.7882  | 150,722     | 14.7691 | 140,993     |
| K Small Demand                    | 358                 | 9,376,567     | 2,601,332     | 27.7429 | 27.7429           | 2,601,332   | 26,192               | 7,266.29   | 12.9738  | 1,216,497   | 14.7691 | 1,384,835   |
| L Large                           | 20                  | 4,066,393     | 1,059,790     | 26.0622 | 26.0622           | 1,059,790   | 203,320              | 52,989.52  | 11.5421  | 469,348     | 14.5200 | 590,442     |
| F Street Lighting (Agencies)      | 641                 | 403,673       | 392,968       | 97.3481 | 97.3481           | 392,968     | 630                  | 613.05     | 82.5790  | 333,349     | 14.7691 | 59,619      |
| Sub-Total                         | 1,728               | 14,801,282    | 4,345,805     | 29.3610 | 29.3610           | 4,345,805   | 8,566                | 2,514.93   | 14.6603  | 2,169,916   | 14.7007 | 2,175,888   |
| U.S. Navy                         | 1                   | 25,554,904    | 5,716,481     | 22.3694 | 22.3694           | 5,716,481   |                      |            | 6.2687   | 1,601,968   | 16.1007 | 4,114,512   |
| TOTAL                             | 52,829              | 130,597,180   | 32,685,303    | 25.0276 | 25.0276           | 32,685,303  | 2,472                | 618.70     | 10.0192  | 13,084,843  | 15.0083 | 19,600,460  |
| Two Months Ended November 2021    |                     |               |               |         |                   |             |                      |            |          |             |         |             |
| R Residential                     | 45,232              | 94,296,909    | 23,387,455    | 24.8019 | 24.8019           | 23,387,455  | 2,085                | 517.06     | 10.5235  | 9,923,341   | 14.2784 | 13,464,114  |
| D Residential - Apt & Condo       | 6                   | 1,324,595     | 310,823       | 23.4655 | 23.4655           | 310,823     | 240,835              | 56,513.27  | 8.7329   | 115,675     | 14.7326 | 195,148     |
| G Small Gen. Non Demand           | 4,519               | 13,770,190    | 4,011,776     | 29.1338 | 29.1338           | 4,011,776   | 3,047                | 887.76     | 14.8486  | 2,044,683   | 14.2851 | 1,967,092   |
| J Small Gen. Demand               | 738                 | 32,689,395    | 8,559,378     | 26.1840 | 26.1840           | 8,559,378   | 44,325               | 11,605.94  | 11.7795  | 3,850,632   | 14.4045 | 4,708,747   |
| P Large General                   | 85                  | 35,479,193    | 9,041,551     | 25.4841 | 25.4841           | 9,041,551   | 419,872              | 107,000.60 | 10.9456  | 3,883,398   | 14.5385 | 5,158,152   |
| I Independent Power Producer      | 2                   | 69,815        | 18,460        | 26.4415 | 26.4415           | 18,460      | 34,908               | 9,230.11   | 12.1966  | 8,515       | 14.2449 | 9,945       |
| H Private St. Lights              | 520                 | 65,127        | 50,711        | 77.8654 | 77.8654           | 50,711      | 125                  | 97.62      | 63.0963  | 41,093      | 14.7691 | 9,619       |
| Sub-Total                         | 51,100              | 177,695,224   | 45,380,155    | 25.5382 | 25.5382           | 45,380,155  | 3,477                | 888.07     | 11.1806  | 19,867,337  | 14.3576 | 25,512,818  |
| Government Service:               |                     |               |               |         |                   |             |                      |            |          |             |         |             |
| S Small Non Demand                | 702                 | 1,973,105     | 600,490       | 30.4337 | 30.4337           | 600,490     | 2,811                | 855.40     | 15.6646  | 309,080     | 14.7691 | 291,410     |
| K Small Demand                    | 351                 | 18,737,986    | 5,196,916     | 27.7347 | 27.7347           | 5,196,916   | 53,385               | 14,806.03  | 12.9656  | 2,429,485   | 14.7691 | 2,767,432   |
| L Large                           | 20                  | 8,403,344     | 2,191,427     | 26.0780 | 26.0780           | 2,191,427   | 420,167              | 109,571.35 | 11.5398  | 969,732     | 14.5382 | 1,221,695   |
| F Street Lighting (Agencies)      | 640                 | 980,949       | 820,590       | 83.6527 | 83.6527           | 820,590     | 1,533                | 1,282.17   | 68.8836  | 675,713     | 14.7691 | 144,877     |
| Sub-Total                         | 1,713               | 30,095,384    | 8,809,423     | 29.2717 | 29.2717           | 8,809,423   | 17,569               | 5,142.69   | 14.5670  | 4,384,009   | 14.7046 | 4,425,414   |
| U.S. Navy                         | 1                   | 51,981,082    | 11,271,976    | 21.6848 | 21.6848           | 11,271,976  |                      |            | 6.1154   | 3,178,853   | 15.5694 | 8,093,123   |
| TOTAL                             | 52,814              | 259,771,691   | 65,461,554    | 25.1996 | 25.1996           | 65,461,554  | 4,919                | 1,239.47   | 10.5593  | 27,430,199  | 14.6403 | 38,031,355  |
| Twelve Months Ended November 2021 |                     |               |               |         |                   |             |                      |            |          |             |         |             |
| R Residential                     | 44,909              | 580,543,356   | 122,338,629   | 21.0731 | 21.0731           | 122,338,629 | 12,927               | 2,724.17   | 9.8533   | 57,202,700  | 11.2198 | 65,135,928  |
| D Residential - Apt & Condo       | 6                   | 4,480,760     | 947,917       | 21.1553 | 21.1553           | 947,917     | 765,008              | 161,839.45 | 8.7120   | 390,364     | 12.4433 | 557,553     |
| G Small Gen. Non Demand           | 4,458               | 77,753,632    | 19,946,371    | 25.6533 | 25.6533           | 19,946,371  | 17,441               | 4,474.29   | 14.3212  | 11,135,248  | 11.3321 | 8,811,128   |
| J Small Gen. Demand               | 775                 | 190,842,444   | 43,694,738    | 22.8957 | 22.8957           | 43,694,738  | 246,116              | 56,350.01  | 11.6023  | 22,142,152  | 11.2934 | 21,552,586  |
| P Large General                   | 90                  | 217,331,425   | 47,736,578    | 21.9649 | 21.9649           | 47,736,578  | 2,428,284            | 533,369.59 | 10.7531  | 23,369,886  | 11.2118 | 24,366,693  |
| I Independent Power Producer      | 2                   | 384,895       | 91,555        | 23.7870 | 23.7870           | 91,555      | 192,447              | 45,777.41  | 12.8957  | 49,635      | 10.8913 | 41,920      |
| H Private St. Lights              | 515                 | 388,530       | 290,003       | 74.6412 | 74.6412           | 290,003     | 754                  | 562.84     | 63.2392  | 245,703     | 11.4020 | 44,300      |
| Sub-Total                         | 50,755              | 1,071,725,041 | 235,045,792   | 21.9315 | 21.9315           | 235,045,792 | 21,116               | 4,631.02   | 10.6870  | 114,535,684 | 11.2445 | 120,510,108 |
| Government Service:               |                     |               |               |         |                   |             |                      |            |          |             |         |             |
| S Small Non Demand                | 689                 | 11,066,599    | 3,020,876     | 27.2972 | 27.2972           | 3,020,876   | 16,066               | 4,385.50   | 15.8527  | 1,754,358   | 11.4445 | 1,266,518   |
| K Small Demand                    | 348                 | 105,666,236   | 25,906,464    | 24.5173 | 24.5173           | 25,906,464  | 303,421              | 74,390.42  | 13.1149  | 13,858,051  | 11.4023 | 12,048,413  |
| L Large                           | 25                  | 52,686,407    | 12,116,067    | 22.9966 | 22.9966           | 12,116,067  | 2,121,600            | 487,895.30 | 11.8941  | 6,266,552   | 11.1025 | 5,849,515   |
| F Street Lighting (Agencies)      | 622                 | 6,866,782     | 4,873,891     | 70.9778 | 70.9778           | 4,873,891   | 11,038               | 7,834.79   | 59.7542  | 4,103,188   | 11.2236 | 770,703     |
| Sub-Total                         | 1,684               | 176,286,023   | 45,917,297    | 26.0470 | 26.0470           | 45,917,297  | 104,683              | 27,266.80  | 14.7386  | 25,982,148  | 11.3084 | 19,935,149  |
| U.S. Navy                         | 52,439              | 1,248,011,064 | 280,963,089   | 22.5129 | 22.5129           | 280,963,089 | 23,799               | 5,357.94   | 11.2593  | 140,517,832 | 11.2535 | 140,445,257 |
| TOTAL                             | 52,440              | 1,558,783,862 | 341,879,082   | 22      | 21.9324           | 341,879,082 | 29,725               | 6,519.48   | 10.2602  | 159,934,816 | 11.6722 | 181,944,266 |



GPA Work Session - January 20, 2022 - GM REPORT UPDATES

GPA-318

ENERGY ACCOUNT

FOR INTERNAL USE ONLY

318Nov21

FY 2022 Versus FY 2021

|                                               | November 2021      |          | November 2020      |          | Y T D 2022         |          | Y T D 2021         |          | MOVING TWELVE MONTHS |          |
|-----------------------------------------------|--------------------|----------|--------------------|----------|--------------------|----------|--------------------|----------|----------------------|----------|
| Gross Generation                              | 30                 |          | 30                 |          | 61                 |          | 61                 |          | 365                  |          |
| Number of days in Period                      | 251                |          | 246                |          | 254                |          | 246                |          | 258                  |          |
| Peak demand                                   | 11/11/21           |          | 11/03/20           |          | 10/27/21           |          | 11/03/20           |          | 05/14/21             |          |
| Date                                          | KWH                | % change | KWH                | % change | KWH                | % change | KWH                | % change | KWH                  | % change |
| Energy Account:                               |                    |          |                    |          |                    |          |                    |          |                      |          |
| Kilowatt hours GPA:                           |                    |          |                    |          |                    |          |                    |          |                      |          |
| Cabras 1 & 2                                  | 70,184,000         |          | 66,509,000         |          | 140,297,000        |          | 132,013,000        |          | 694,069,000          |          |
| Cabras No. 3                                  | 0                  |          | 0                  |          | 0                  |          | 0                  |          | 0                    |          |
| Cabras No. 4                                  | 0                  |          | 0                  |          | 0                  |          | 0                  |          | 0                    |          |
| MEC (ENRON) Piti 8 (IPP)                      | 29,171,100         |          | 28,494,100         |          | 59,744,300         |          | 52,697,200         |          | 333,650,200          |          |
| MEC (ENRON) Piti 9 (IPP)                      | 4,167,600          |          | 23,059,500         |          | 22,276,300         |          | 51,967,400         |          | 305,035,500          |          |
| TEMES Piti 7 (IPP)                            | 15,431,376         |          | 1,121,054          |          | 23,169,742         |          | 1,621,138          |          | 81,814,847           |          |
| Tanguisson 2                                  | 0                  |          | 0                  |          | 0                  |          | 0                  |          | 0                    |          |
| Tanguisson 1                                  | 0                  |          | 0                  |          | 0                  |          | 0                  |          | 0                    |          |
| Diesels/CT's & Others:                        |                    |          |                    |          |                    |          |                    |          |                      |          |
| MDI 10MW                                      | 0                  |          | 3,832              |          | 0                  |          | 6,162              |          | 251,011              |          |
| NRG Solar Dandan                              | 3,743,210          |          | 3,808,520          |          | 7,026,550          |          | 7,577,473          |          | 50,382,060           |          |
| Dededo CT #1                                  | 2,572,640          |          | 48,180             |          | 3,854,050          |          | 90,190             |          | 21,360,860           |          |
| Dededo CT #2                                  | 4,122,030          |          | 125,310            |          | 5,585,190          |          | 164,690            |          | 26,593,000           |          |
| Macheche CT                                   | 349,832            |          | 3,184,395          |          | 1,743,154          |          | 5,417,869          |          | 71,845,152           |          |
| Yigo CT (Leased)                              | 8,619,720          |          | 2,612,190          |          | 14,609,521         |          | 4,928,866          |          | 47,493,421           |          |
| Tenjo                                         | 2,159,660          |          | 1,974,360          |          | 3,851,880          |          | 4,310,020          |          | 23,951,325           |          |
| Talofofo 10 MW                                | 43,010             |          | 3,410              |          | 43,010             |          | 5,750              |          | 8,511,930            |          |
| Aggreko/Yigo Diesel Units                     | 2,894,631          |          | 10,906,765         |          | 3,809,700          |          | 22,865,264         |          | 54,321,257           |          |
| Wind Turbine*                                 | 0                  |          | 0                  |          | 0                  |          | 0                  |          | 0                    |          |
| Orote                                         | 0                  |          | 0                  |          | 0                  |          | 0                  |          | 0                    |          |
| Marbo                                         | 0                  |          | 0                  |          | 0                  |          | 0                  |          | 0                    |          |
|                                               | <b>143,458,809</b> |          | <b>141,850,616</b> |          | <b>286,010,397</b> |          | <b>283,665,022</b> |          | <b>1,719,279,562</b> |          |
| Ratio to last year                            |                    | 101.13   |                    | 100.13   |                    | 100.83   |                    | 98.23    |                      | 102.25   |
| Station use                                   | 6,080,872          |          | 5,709,658          |          | 12,273,399         |          | 11,488,514         |          | 67,814,425           |          |
| Ratio to Gross generation                     |                    | 4.24     |                    | 4.03     |                    | 4.29     |                    | 4.05     |                      | 3.94     |
| Net send out                                  | 137,377,937        |          | 136,140,958        |          | 273,736,998        |          | 272,176,508        |          | 1,651,465,137        |          |
| Ratio to last year                            |                    | 100.91   |                    | 99.51    |                    | 100.57   |                    | 97.92    |                      | 102.24   |
| KWH deliveries:                               |                    |          |                    |          |                    |          |                    |          |                      |          |
| Sales to Navy (@34.5kv)                       | <b>25,554,904</b>  |          | <b>27,037,233</b>  |          | <b>51,981,082</b>  |          | <b>52,950,590</b>  |          | <b>310,773,079</b>   |          |
| Ratio to last year                            |                    | 94.52    |                    | 107.80   |                    | 98.17    |                    | 104.46   |                      | 99.73    |
| GPA-metered                                   | <b>111,823,033</b> |          | <b>109,103,725</b> |          | <b>221,755,916</b> |          | <b>219,225,918</b> |          | <b>1,340,692,058</b> |          |
| Ratio to last year                            |                    | 102.49   |                    | 97.64    |                    | 101.15   |                    | 96.46    |                      | 102.84   |
| Power factor adj.                             | 0                  |          | 0                  |          | 0                  |          | 0                  |          | 0                    |          |
| Adjusted                                      | 111,823,033        |          | 109,103,725        |          | 221,755,916        |          | 219,225,918        |          | 1,340,692,058        |          |
| GPA KWH Accountability:                       |                    |          |                    |          |                    |          |                    |          |                      |          |
| Sales to civilian customers-<br>accrual basis | <b>105,042,276</b> |          | <b>101,403,018</b> |          | <b>207,790,608</b> |          | <b>203,004,334</b> |          | <b>1,248,011,065</b> |          |
| Ratio to last year                            |                    | 103.59   |                    | 97.18    |                    | 102.36   |                    | 96.35    |                      | 103.45   |
| GPA use-KWH                                   | 287,168            |          | 346,983            |          | 581,001            |          | 632,769            |          | 3,940,220            |          |
| Unaccounted For                               | 6,493,588          |          | 7,353,724          |          | 13,384,307         |          | 15,588,815         |          | 88,740,774           |          |
| Ratio to deliveries                           |                    | 5.81     |                    | 6.74     |                    | 6.04     |                    | 7.11     |                      | 6.62     |
| Ratio to Gross Generation                     |                    | 4.53     |                    | 5.18     |                    | 4.68     |                    | 5.50     |                      | 5.16     |
| Ratio to Net Send Out                         |                    | 4.74     |                    | 5.42     |                    | 4.89     |                    | 5.73     |                      | 5.39     |

GPA-317Nov21

**Guam Power Authority**  
**Fuel Consumption**  
**FY 2021**

| Description                     | November 2021  |                      | YEAR-TO-DATE   |                      | MOVING 12 MONTHS |                       |
|---------------------------------|----------------|----------------------|----------------|----------------------|------------------|-----------------------|
|                                 | BARRELS        | AMOUNT               | BARRELS        | AMOUNT               | BARREL           | AMOUNT                |
| <b>FUEL FURNISHED:</b>          |                |                      |                |                      |                  |                       |
| <b>NAVY:</b>                    |                |                      |                |                      |                  |                       |
| Diesel                          | 0              | 0                    | 0              | 0                    | 0                | 0                     |
| Low Sulfur                      | 0              | 0                    | 0              | 0                    | 0                | 0                     |
|                                 | <b>0</b>       | <b>0</b>             | <b>0</b>       | <b>0</b>             | <b>0</b>         | <b>0</b>              |
| <b>GPA:</b>                     |                |                      |                |                      |                  |                       |
| RFO                             | 139,267        | \$10,436,165         | 256,707        | \$ 19,277,289        | 1,567,281        | \$ 103,382,443        |
| Diesel                          | 86,305         | \$8,811,992          | 135,135        | \$ 13,199,918        | 769,433          | \$ 62,435,104         |
| Low Sulfur                      | 28,919         | \$2,328,029          | 100,010        | \$ 8,058,647         | 497,000          | \$ 32,958,729         |
| Deferred Fuel Costs             | 0              | -\$3,420,796         | 0              | \$(5,527,042)        | 0                | \$(35,961,987)        |
| Fuel Adjustments                | 0              | \$0                  | 0              | \$ -                 | 0                | \$ 715,067            |
| Fuel Handling Costs             | 0              | \$1,445,070          | 0              | \$ 3,022,543         | 0                | \$ 18,414,910         |
|                                 | <b>254,491</b> | <b>\$19,600,460</b>  | <b>491,852</b> | <b>\$ 38,031,355</b> | <b>2,833,714</b> | <b>\$ 181,944,267</b> |
| <b>IWPS:</b>                    |                |                      |                |                      |                  |                       |
| GPA RFO                         | 139,267        | \$10,436,165         | 256,707        | \$ 19,277,289        | 1,567,281        | \$ 103,382,443        |
| Diesel                          | 86,305         | \$8,811,992          | 135,135        | \$ 13,199,918        | 769,433          | \$ 62,435,104         |
| Low Sulfur                      | 28,919         | \$2,328,029          | 100,010        | \$ 8,058,647         | 497,000          | \$ 32,958,729         |
| Deferred Fuel Costs             | 0              | -\$3,420,796         | 0              | \$(5,527,042)        | 0                | \$(35,961,987)        |
| Fuel Variance                   | 0              | \$0                  | 0              | \$ -                 | 0                | \$ 715,067            |
| Fuel Handling Costs             | 0              | \$1,445,070          | 0              | \$ 3,022,543         | 0                | \$ 18,414,910         |
|                                 | <b>254,491</b> | <b>\$19,600,460</b>  | <b>491,852</b> | <b>\$ 38,031,355</b> | <b>2,833,714</b> | <b>\$ 181,944,267</b> |
| <b>AVERAGE COST/Bbl.</b>        |                |                      |                |                      |                  |                       |
| GPA RFO                         |                | <b>\$74.94</b>       |                | <b>\$75.09</b>       |                  | <b>\$65.96</b>        |
| Diesel                          |                | <b>\$102.10</b>      |                | <b>\$97.68</b>       |                  | <b>\$81.14</b>        |
| Low Sulfur                      |                | <b>\$80.50</b>       |                | <b>\$80.58</b>       |                  | <b>\$66.32</b>        |
| <b>AS BURNED</b>                |                |                      |                |                      |                  |                       |
| <b>Cabras 1 &amp; 2</b>         |                |                      |                |                      |                  |                       |
| RFO                             | 100,601        | \$ 7,590,917         | 176,492        | \$ 13,290,142        | 907,088          | \$ 60,016,527         |
| Low Sulfur                      | 22,144         | \$ 1,782,658         | 69,705         | \$ 5,616,064         | 296,715          | \$ 20,132,611         |
| Diesel                          | <u>65</u>      | <u>\$ 5,253</u>      | <u>110</u>     | <u>\$ 8,891</u>      | <u>1,512</u>     | <u>\$ 111,132</u>     |
|                                 | 122,810        | \$ 9,378,828         | 246,308        | \$ 18,915,097        | 1,205,316        | \$ 80,260,271         |
| <b>Cabras 3 &amp; 4</b>         |                |                      |                |                      |                  |                       |
| RFO                             | 0              | \$ -                 | 0              | \$ -                 | 0                | \$ -                  |
| Low Sulfur                      | 0              | \$ -                 | 0              | \$ -                 | 0                | \$ -                  |
| Diesel                          | 0              | \$ -                 | 0              | \$ -                 | 0                | \$ -                  |
|                                 | 0              | \$ -                 | 0              | \$ -                 | 0                | \$ -                  |
| <b>MEC (Piti Units 8&amp;9)</b> |                |                      |                |                      |                  |                       |
| RFO                             | 38,666         | \$ 2,845,249         | 80,215         | \$ 5,987,148         | 660,193          | \$ 43,365,916         |
| Low Sulfur                      | 6,775          | \$ 545,372           | 30,305         | \$ 2,442,582         | 200,285          | \$ 12,826,118         |
| Diesel                          | <u>19</u>      | <u>\$ 1,679</u>      | <u>39</u>      | <u>\$ 3,443</u>      | <u>67</u>        | <u>\$ 5,924</u>       |
|                                 | 45,459         | \$ 3,392,299         | 110,558        | \$ 8,433,173         | 860,544          | \$ 56,197,958         |
| <b>Diesel &amp; CT's - GPA:</b> |                |                      |                |                      |                  |                       |
| MDI Dsl                         | 0              | \$ -                 | 0              | \$ -                 | 437              | \$ 43,847             |
| Macheche CT                     | 847            | \$ 72,682            | 3,729          | \$ 319,938           | 148,990          | \$ 11,630,803         |
| Yigo CT                         | 17,725         | \$ 1,843,573         | 30,202         | \$ 2,988,025         | 98,317           | \$ 8,188,522          |
| Talofofo 10 MW                  | 146            | \$ 12,768            | 146            | \$ 12,768            | 14,359           | \$ 1,182,819          |
| Aggreko                         | 5,505          | \$ 558,188           | 7,328          | \$ 716,877           | 102,149          | \$ 7,224,846          |
| Tenjo                           | 3,797          | \$ 334,933           | 6,661          | \$ 587,483           | 42,075           | \$ 3,692,781          |
| TEMES (IPP)                     | 38,480         | \$ 3,982,284         | 57,668         | \$ 5,727,577         | 216,126          | \$ 18,232,410         |
| GWA Generators                  | <u>13</u>      | <u>\$ 2,053</u>      | <u>43</u>      | <u>\$ 6,679</u>      | <u>147</u>       | <u>\$ 20,757</u>      |
|                                 | 86,221         | \$ 8,805,060         | 134,986        | \$ 13,187,584        | 767,854          | \$ 62,318,048         |
| Deferred Fuel Costs             | 0              | \$ (3,420,796)       | 0              | \$(5,527,042)        | 0                | \$(35,961,987)        |
| Adjustment                      | 0              | \$ -                 | 0              | \$ -                 | 0                | \$ 715,067            |
| Fuel Handling Costs             | 0              | \$ 1,445,070         | 0              | \$ 3,022,543         | 0                | \$ 18,414,910         |
| <b>TOTAL</b>                    | <b>254,491</b> | <b>\$ 19,600,460</b> | <b>491,852</b> | <b>\$ 38,031,355</b> | <b>2,833,714</b> | <b>\$ 181,944,267</b> |

| Statement of operations<br>Comparison-Budget versus Actual<br>For the month and year to date ended November 30, 2021 |             |                       |               |             |             |               |
|----------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|---------------|-------------|-------------|---------------|
|                                                                                                                      | Budget      | Actual<br>November-21 | Variance      | YTD Budget  | YTD Actual  | Variance      |
| KwH Sales-Civilian                                                                                                   | 99,015      | 105,042               | -6,027        | 198,481     | 207,791     | -9,310        |
| Non-fuel yield                                                                                                       | \$ 0.113308 | \$ 0.109317           | \$ 0.003992   | \$ 0.113658 | \$ 0.116711 | \$ (0.003053) |
| KwH Sales-Navy                                                                                                       | 24,640      | 25,555                | -915          | 50,294      | 51,981      | -1,688        |
| Non-fuel yield                                                                                                       | \$ 0.062602 | \$ 0.062687           | \$ (0.000086) | \$ 0.062602 | \$ 0.061154 | \$ 0.001448   |
| Operating revenue                                                                                                    |             |                       |               |             |             |               |
| Civilian sales                                                                                                       | 11,219      | 11,483                | -264          | 22,559      | 24,251      | -1,692        |
| Oil                                                                                                                  | 18,647      | 19,600                | -953          | 37,515      | 38,031      | -516          |
| Navy                                                                                                                 | 1,542       | 1,602                 | -59           | 3,148       | 3,179       | -30           |
| DSM-Rebates                                                                                                          | 0           | 329                   | -329          | 0           | 644         | -644          |
| Other income                                                                                                         | 248         | 139                   | 109           | 320         | 263         | 58            |
|                                                                                                                      | 31,657      | 33,153                | -1,496        | 63,543      | 66,368      | -2,826        |
| Bad debts expense                                                                                                    | 102         | 102                   | 0             | 204         | 204         | 0             |
| Total operating revenues                                                                                             | 31,555      | 33,051                | -1,496        | 63,339      | 66,165      | -2,826        |
| Operating expenses:                                                                                                  |             |                       |               |             |             |               |
| Production fuel                                                                                                      | 18,647      | 19,600                | -953          | 37,515      | 38,031      | -516          |
| O & M expenses:                                                                                                      |             |                       |               |             |             |               |
| Other production                                                                                                     | 1,597       | 1,368                 | 229           | 2,891       | 2,535       | 356           |
| Transmission distribution                                                                                            | 1,007       | 1,045                 | -39           | 2,118       | 1,981       | 137           |
| Administrative expense                                                                                               | 3,472       | 2,937                 | 535           | 7,040       | 5,360       | 1,680         |
| Customer accounting                                                                                                  | 364         | 689                   | -325          | 784         | 1,141       | -357          |
|                                                                                                                      | 6,439       | 6,039                 | 400           | 12,833      | 11,018      | 1,816         |
| IPP costs                                                                                                            | 994         | 791                   | 202           | 1,987       | 1,611       | 376           |
| Depreciation                                                                                                         | 3,999       | 2,933                 | 1,066         | 7,006       | 5,908       | 1,098         |
|                                                                                                                      | 30,080      | 29,364                | 716           | 59,341      | 56,568      | 2,774         |
| Operating income                                                                                                     | 1,475       | 3,688                 | -2,212        | 3,998       | 9,597       | -5,599        |
| Other revenue (expenses):                                                                                            |             |                       |               |             |             |               |
| Investment income                                                                                                    | 77          | 12                    | 65            | 154         | 3           | 151           |
| Interest expense                                                                                                     | (2,103)     | (2,280)               | 177           | (4,206)     | (4,383)     | 176           |
| Allowance for funds used during construction                                                                         | 0           | 18                    | (18)          | 0           | 44          | (44)          |
| Pandemic -COVID19                                                                                                    | 0           | (43)                  | 43            | 0           | (43)        | 43            |
| Losses due to typhoon                                                                                                | 0           | (12)                  | 12            | 0           | (12)        | 12            |
| Bond issuance costs/Other expenses                                                                                   | 40          | 98                    | (59)          | 79          | 196         | (117)         |
| Net income before capital contribution                                                                               | (511)       | 1,481                 | (1,993)       | 24          | 5,403       | (5,380)       |
| Grants from the U.S. Government                                                                                      | -           | -                     | -             | -           | -           | -             |
| Increase (decrease) in net assets                                                                                    | (511)       | 1,481                 | (1,993)       | 24          | 5,403       | (5,380)       |

Sales  
Budget versus Actual

| Category       | YTD budget (\$000) | YTD Actual (\$000) |
|----------------|--------------------|--------------------|
| Civilian sales | 11,219             | 11,483             |
| Oil            | 18,647             | 19,600             |
| Navy           | 1,542              | 1,602              |
| Other income   | 248                | 139                |

Expenses  
Budget versus Actual

| Category       | YTD budget (\$000) | YTD Actual (\$000) |
|----------------|--------------------|--------------------|
| Fuel           | 18,647             | 19,600             |
| Other prod     | 1,597              | 1,368              |
| T&D            | 1,007              | 1,045              |
| A&G            | 3,472              | 2,937              |
| Customer Acctg | 364                | 689                |
| IPP costs      | 994                | 791                |
| Depreciation   | 3,999              | 2,933              |
| Interest       | 77                 | 12                 |

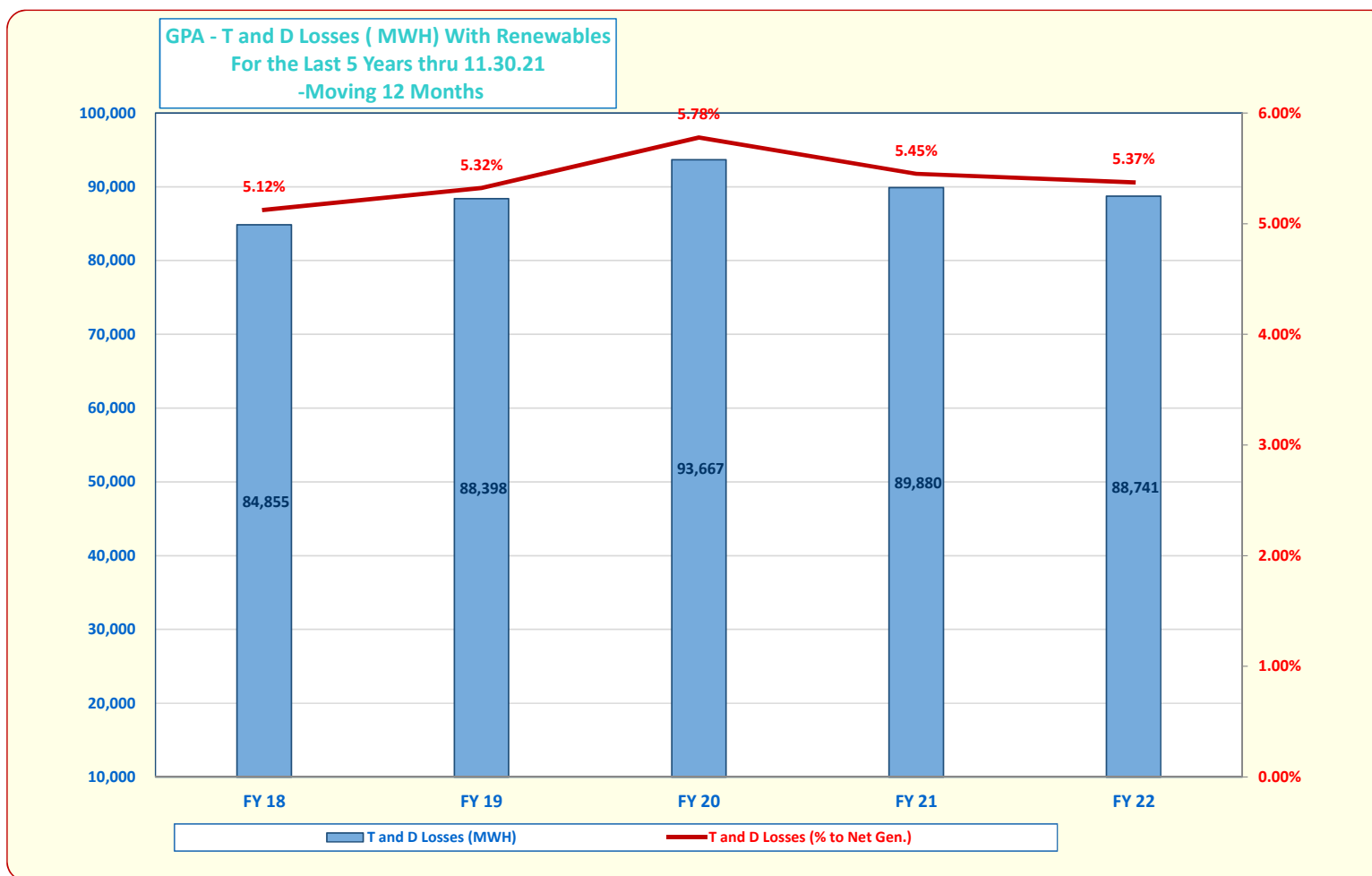
| Guam Power Authority<br>Debt service coverage<br>November 30, 2021                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                  |                 |                 |                 |                          |                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-----------------|-----------------|-----------------|--------------------------|--------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Restated<br>2017 | Audited<br>2018 | Audited<br>2019 | Audited<br>2020 | YTD<br>Unaudited<br>2021 | YTD<br>Unaudited<br>2022 |
| <b>Funds Available for Debt Service</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                  |                 |                 |                 |                          |                          |
| Earnings from Operations                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | \$36,522         | \$38,164        | \$39,053        | \$27,703        | \$43,532                 | \$9,597                  |
| Interest Income                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | \$122            | \$620           | \$2,746         | \$2,377         | 1,087                    | (6)                      |
| Depreciation Expense                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 44,292           | 37,184          | 36,999          | 37,645          | 38,235                   | 5,908                    |
| Balance Available for Debt Service                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <u>\$80,936</u>  | <u>\$75,968</u> | <u>\$78,798</u> | <u>\$67,725</u> | <u>\$82,854</u>          | <u>\$15,499</u>          |
| <b>IPP - Capital Costs</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                  |                 |                 |                 |                          |                          |
| Principal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | \$20,796         | \$23,210        | \$13,470        | \$8,399         | \$2,217                  | -                        |
| Interest                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 5,609            | 3,159           | 1,068           | 531             | 28                       | 0                        |
| Total IPP Payments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <u>\$26,405</u>  | <u>\$26,369</u> | <u>\$14,538</u> | <u>\$8,930</u>  | <u>\$2,245</u>           | <u>\$0</u>               |
| <b>Bond Debt Service</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                  |                 |                 |                 |                          |                          |
| Principal (1993 & 1999 Revenue Bond)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | \$0              | \$0             | \$0             | \$0             | \$0                      | \$0                      |
| Interest (1993 & 1999 Revenue Bond)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0                | 0               | 0               | 0               | 0                        | 0                        |
| Principal and Interest (2010 Subordinate Bond)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0                | 0               | 0               | 0               | 0                        | 0                        |
| Principal and Interest (2010 Senior TE Bond)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 7,999            | 2,000           | 0               | 0               | 0                        | 0                        |
| Principal and Interest (2012 Senior TE Bond)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 17,449           | 17,086          | 31,467          | 35,232          | 35,232                   | 5,872                    |
| Principal and Interest (2014 Senior TE Bond)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 5,084            | 5,083           | 5,084           | 5,087           | 5,088                    | 848                      |
| Principal and Interest (2017 Senior TE Bond)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                  | 5,916           | 7,607           | 7,418           | 7,416                    | 1,236                    |
| Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <u>\$30,532</u>  | <u>\$30,086</u> | <u>\$44,158</u> | <u>\$47,737</u> | <u>\$47,736</u>          | <u>\$7,956</u>           |
| <b>Debt Service Coverage (DSC) Calculation</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                  |                 |                 |                 |                          |                          |
| Existing DSC Methodology (Senior)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1.79 x           | 1.65 x          | 1.46 x          | 1.23 x          | 1.69 x                   | 1.95 x                   |
| Existing DSC Methodology (Senior+Subordinate)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1.79 x           | 1.65 x          | 1.46 x          | 1.23 x          | 1.69 x                   | 1.95 x                   |
| Bond Covenant DSC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2.65 x           | 2.53 x          | 1.78 x          | 1.42 x          | 1.74 x                   | 1.95 x                   |
| <b>Debt Service Coverage Requirements</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                  |                 |                 |                 |                          |                          |
| Existing Ratemaking DSC Target                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1.75 x           | 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                   | 1.30 x                   |
| Minimum Bond Covenant Requirement (Subordinate Bond)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.20 x           | 1.20 x          | 1.20 x          | 1.20 x          | 1.20 x                   | 1.20 x                   |
| <div> <div>MONTHLY DEBT SERVICE COVERAGE<br/>FY2021</div> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |                 |                 |                 |                          |                          |
| <b>Notes:</b><br>(1) Source: Guam Power Authority, 2017 - 2020 Audited Financial Statements and 2020-2021 Unaudited Financial Statements<br>(2) Interest income is net of interest earnings in the Construction Fund and the amortization of deferred credit<br>(3) Existing DSC Methodology (Rating Agency Method):<br>(Operating Earnings + Depreciation Expense - IPP Principal & Interest Payments)/<br>(Senior and Subordinate Bond Principal & Interest Payments)<br>(4) Bond Covenant DSC Methodology: (Operating Earnings + Depreciation Expense)/<br>(Senior and Subordinate Bond Principal & Interest Payments) |                  |                 |                 |                 |                          |                          |

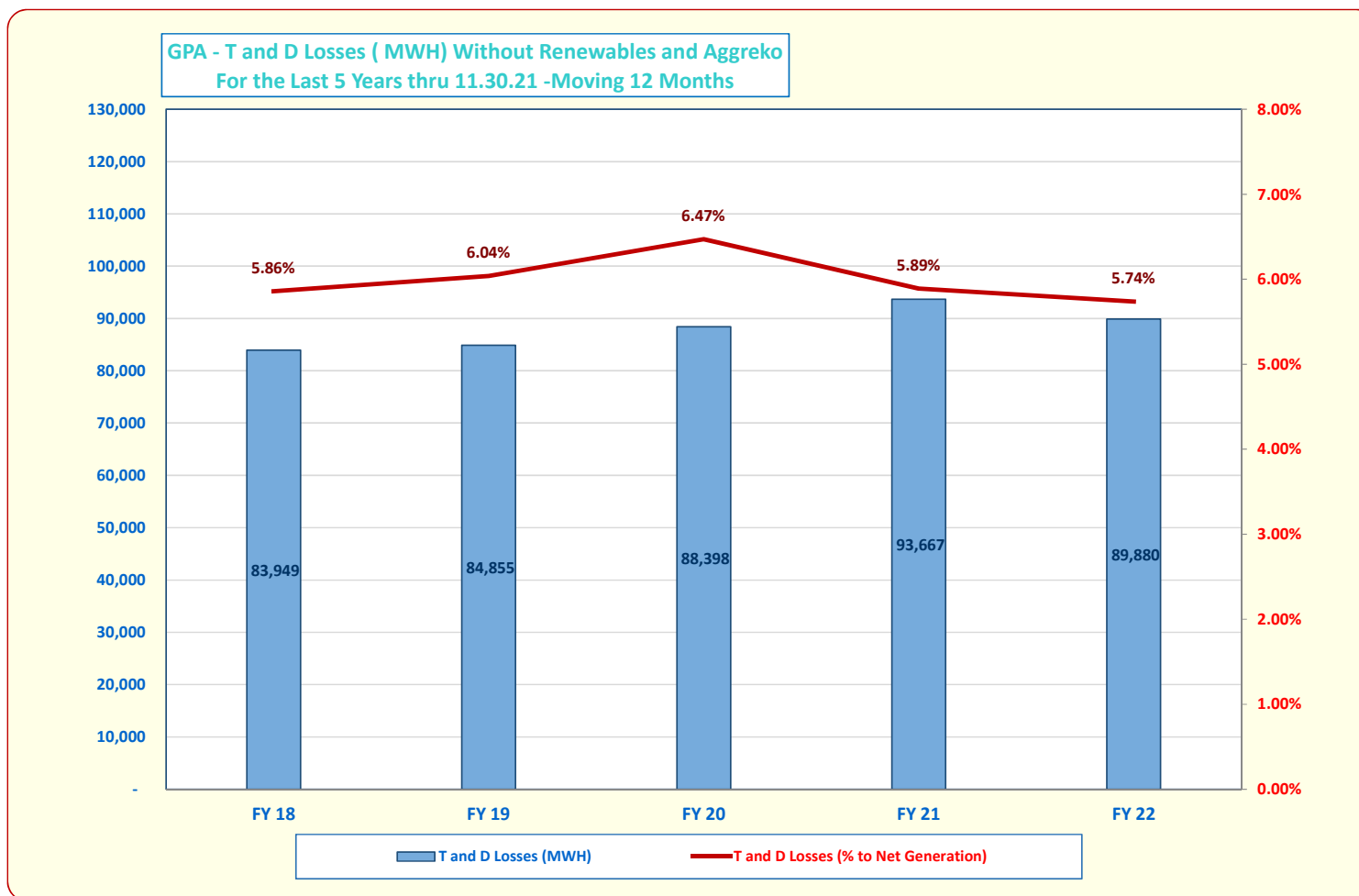
GPA Work Session - January 20, 2022 - GM REPORT UPDATES

| REVENUES-ACTUAL VS PROJECTIONS |                    |                    |                   |               |                    |                    |                   |                |
|--------------------------------|--------------------|--------------------|-------------------|---------------|--------------------|--------------------|-------------------|----------------|
| MONTHLY - NOVEMBER 2021        |                    |                    |                   |               | YTD THRU 11/30/21  |                    |                   |                |
|                                | PROJECTIONS        | ACTUAL             | VARIANCE          | % VARIANCE    | PROJECTIONS        | ACTUAL             | VARIANCE          | % VARIANCE     |
| <b>KWH</b>                     |                    |                    |                   |               |                    |                    |                   |                |
| Residential                    | 45,740,734         | 48,087,642         | 2,346,909         | 5.13%         | 91,310,545         | 94,296,909         | 2,986,364         | 3.27%          |
| Residential - Apt & Condo      | 623,364            | 662,924            | 39,560            | 6.35%         | 1,240,556          | 1,324,595          | 84,039            | 6.77%          |
| Small General-Non-Demand       | 5,369,946          | 6,873,816          | 1,503,870         | 28.01%        | 11,139,408         | 13,770,190         | 2,630,782         | 23.62%         |
| Small General-Demand           | 14,603,046         | 16,599,417         | 1,996,371         | 13.67%        | 29,453,741         | 32,689,395         | 3,235,653         | 10.99%         |
| Large                          | 18,773,292         | 17,942,248         | (831,044)         | -4.43%        | 36,978,618         | 35,479,193         | (1,499,425)       | -4.05%         |
| Independent Power Producers    | 34,611             | 41,173             | 6,562             | 18.96%        | 64,070             | 69,815             | 5,746             | 8.97%          |
| Private St. Lites              | 32,795             | 33,774             | 979               | 2.99%         | 65,152             | 65,127             | (25)              | -0.04%         |
| <b>Sub-total</b>               | <b>85,177,788</b>  | <b>90,240,994</b>  | <b>5,063,206</b>  | <b>5.94%</b>  | <b>170,252,089</b> | <b>177,695,224</b> | <b>7,443,135</b>  | <b>4.37%</b>   |
| Government                     |                    |                    |                   |               |                    |                    |                   |                |
| Small, Non Demand              | 789,424            | 954,648            | 165,224           | 20.93%        | 1,652,086          | 1,973,105          | 321,019           | 19.43%         |
| Small-Demand                   | 7,525,856          | 9,376,567          | 1,850,712         | 24.59%        | 15,368,948         | 18,737,986         | 3,369,038         | 21.92%         |
| Large                          | 4,911,295          | 4,066,393          | (844,902)         | -17.20%       | 9,996,296          | 8,403,344          | (1,592,952)       | -15.94%        |
| Public St. Lites               | 610,576            | 403,673            | (206,904)         | -33.89%       | 1,211,351          | 980,949            | (230,402)         | -19.02%        |
| <b>Sub-total</b>               | <b>13,837,151</b>  | <b>14,801,282</b>  | <b>964,131</b>    | <b>6.97%</b>  | <b>28,228,680</b>  | <b>30,095,384</b>  | <b>1,866,704</b>  | <b>6.61%</b>   |
| <b>Total-Civilian</b>          | <b>99,014,939</b>  | <b>105,042,276</b> | <b>6,027,337</b>  | <b>6.09%</b>  | <b>198,480,770</b> | <b>207,790,608</b> | <b>9,309,839</b>  | <b>4.69%</b>   |
| USN                            | 24,639,605         | 25,554,904         | 915,299           | 3.71%         | 50,293,525         | 51,981,082         | 1,687,557         | 3.36%          |
| <b>Grand Total</b>             | <b>123,654,544</b> | <b>130,597,180</b> | <b>6,942,636</b>  | <b>5.61%</b>  | <b>248,774,295</b> | <b>259,771,691</b> | <b>10,997,396</b> | <b>4.42%</b>   |
| <b>Non-Oil Yield</b>           |                    |                    |                   |               |                    |                    |                   |                |
| Residential                    | 0.095521           | 0.095135           | (0.000386)        | -0.40%        | 0.096953           | 0.105235           | 0.008282          | 8.54%          |
| Residential - Apt & Condo      | 0.009521           | 0.008799           | (0.000722)        | -9.13%        | 0.009521           | 0.0087329          | (0.0007881)       | -8.58%         |
| Small General-Non-Demand       | 0.144739           | 0.137942           | (0.006796)        | -4.70%        | 0.144739           | 0.148486           | 0.003748          | 2.59%          |
| Small General-Demand           | 0.121493           | 0.108911           | (0.012582)        | -10.36%       | 0.121493           | 0.117795           | (0.003698)        | -3.04%         |
| Large                          | 0.108878           | 0.105806           | (0.003072)        | -2.82%        | 0.108878           | 0.109456           | 0.000577          | 0.53%          |
| Independent Power Producers    | 0.122012           | 0.130653           | 0.008641          | 0.00%         | 0.122012           | 0.121966           | (0.000046)        | -0.00%         |
| Private St. Lites              | 0.623726           | 0.615480           | (0.008246)        | -1.32%        | 0.122012           | 0.630963           | 0.508952          | 417.13%        |
| <b>Sub-total</b>               | <b>0.107467</b>    | <b>0.103201</b>    | <b>(0.004266)</b> | <b>-3.97%</b> | <b>0.107112</b>    | <b>0.111806</b>    | <b>0.004693</b>   | <b>4.38%</b>   |
| Government                     |                    |                    |                   |               |                    |                    |                   |                |
| Small, Non Demand              | 0.164306           | 0.157882           | (0.006424)        | -3.91%        | 0.164306           | 0.156646           | (0.007660)        | -4.66%         |
| Small-Demand                   | 0.134162           | 0.129738           | (0.004424)        | -3.30%        | 0.134162           | 0.129656           | (0.004506)        | -3.36%         |
| Large                          | 0.128286           | 0.115421           | (0.012864)        | -10.03%       | 0.128286           | 0.115398           | (0.012887)        | -10.05%        |
| Public St. Lites               | 0.583654           | 0.825790           | 0.242136          | 41.49%        | 0.583654           | 0.688836           | 0.105182          | 18.02%         |
| <b>Sub-total</b>               | <b>0.152656</b>    | <b>0.146603</b>    | <b>(0.006053)</b> | <b>-3.97%</b> | <b>0.153134</b>    | <b>0.145670</b>    | <b>(0.007463)</b> | <b>-4.87%</b>  |
| <b>Total-Civilian</b>          | <b>0.114005</b>    | <b>0.109317</b>    | <b>(0.004688)</b> | <b>-4.11%</b> | <b>0.150800</b>    | <b>0.116711</b>    | <b>(0.034089)</b> | <b>-22.61%</b> |
| USN                            | 0.062602           | 0.062687           | 0.000086          | 0.14%         | 0.062602           | 0.061154           | (0.001448)        | -2.31%         |
| <b>Grand Total</b>             | <b>0.103466</b>    | <b>0.100192</b>    | <b>(0.003273)</b> | <b>-3.16%</b> | <b>0.103336</b>    | <b>0.105593</b>    | <b>0.002258</b>   | <b>2.18%</b>   |
| <b>Non-Oil Revenues</b>        |                    |                    |                   |               |                    |                    |                   |                |
| Residential                    | 4,412,879          | 4,574,807          | 161,928           | 3.67%         | 8,852,797          | 9,923,341          | 1,070,543         | 12.09%         |
| Residential - Apt & Condo      | 59,544             | 57,541             | (2,003)           | -3.36%        | 118,499            | 115,675            | (2,824)           | -2.38%         |
| Small General-Non-Demand       | 777,239            | 948,189            | 170,951           | 21.99%        | 1,612,303          | 2,044,683          | 432,380           | 26.82%         |
| Small General-Demand           | 1,774,168          | 1,807,857          | 33,689            | 1.90%         | 3,578,423          | 3,850,632          | 272,208           | 7.61%          |
| Large                          | 2,044,003          | 1,898,398          | (145,606)         | -7.12%        | 4,026,167          | 3,883,398          | (142,769)         | -3.55%         |
| Independent Power Producers    | 21,588             | 5,379              | (16,209)          | -75.08%       | 39,962             | 8,515              | (31,447)          | -78.69%        |
| Private St. Lites              | 4,001              | 20,787             | 16,786            | 419.51%       | 7,949              | 41,093             | 33,143            | 416.94%        |
| <b>Sub-total</b>               | <b>9,093,423</b>   | <b>9,312,959</b>   | <b>219,536</b>    | <b>2.41%</b>  | <b>18,236,101</b>  | <b>19,867,337</b>  | <b>1,631,236</b>  | <b>8.95%</b>   |
| Government                     |                    |                    |                   |               |                    |                    |                   |                |
| Small, Non Demand              | 129,707            | 150,722            | 21,014            | 16.20%        | 271,448            | 309,080            | 37,632            | 13.86%         |
| Small-Demand                   | 1,009,681          | 1,216,497          | 206,816           | 20.48%        | 2,061,923          | 2,429,485          | 367,562           | 17.83%         |
| Large                          | 630,049            | 469,348            | (160,700)         | -25.51%       | 1,282,381          | 969,732            | (312,649)         | -24.38%        |
| Public St. Lites               | 356,365            | 333,349            | (23,016)          | -6.46%        | 707,009            | 675,713            | (31,297)          | -4.43%         |
| <b>Sub-total</b>               | <b>2,125,802</b>   | <b>2,169,916</b>   | <b>44,114</b>     | <b>2.08%</b>  | <b>4,322,761</b>   | <b>4,384,009</b>   | <b>61,248</b>     | <b>1.42%</b>   |
| <b>Total-Civilian</b>          | <b>11,219,225</b>  | <b>11,482,875</b>  | <b>263,650</b>    | <b>2.35%</b>  | <b>22,558,862</b>  | <b>24,251,346</b>  | <b>1,692,484</b>  | <b>7.50%</b>   |
| USN                            | 1,542,483          | 1,601,968          | 59,485            | 3.86%         | 3,148,465          | 3,178,853          | 30,388            | 0.97%          |
| <b>Grand Total</b>             | <b>12,761,708</b>  | <b>13,084,843</b>  | <b>323,135</b>    | <b>2.53%</b>  | <b>25,707,327</b>  | <b>27,430,199</b>  | <b>1,722,872</b>  | <b>6.70%</b>   |
| % of Total Revenues            | 40.63%             | 40.03%             |                   |               | 40.66%             | 41.90%             |                   |                |
| <b>Oil Revenues</b>            |                    |                    |                   |               |                    |                    |                   |                |
| Residential                    | 6,897,703          | 7,102,112          | 204,409           | 2.96%         | 13,769,630         | 13,464,114         | (305,516)         | -2.22%         |
| Residential - Apt & Condo      | 94,003             | 97,908             | 3,905             |               | 187,076            | 195,148            | 8,072             | 4.31%          |
| Small General-Non-Demand       | 809,788            | 1,015,201          | 205,413           | 25.37%        | 1,679,823          | 1,967,092          | 287,270           | 17.10%         |
| Small General-Demand           | 2,202,139          | 2,450,607          | 248,467           | 11.28%        | 4,441,624          | 4,708,747          | 267,123           | 6.01%          |
| Large                          | 2,831,012          | 2,633,387          | (197,625)         | -6.98%        | 5,576,376          | 5,158,152          | (418,223)         | -7.50%         |
| Independent Power Producers    | 5,219              | 5,857              | 637               | 12.21%        | 9,662              | 9,945              | 283               | 2.93%          |
| Private St. Lites              | 4,945              | 4,988              | 43                | 0.86%         | 9,825              | 9,619              | (206)             | -2.10%         |
| <b>Sub-total</b>               | <b>12,844,810</b>  | <b>13,310,059</b>  | <b>465,249</b>    | <b>3.62%</b>  | <b>25,674,015</b>  | <b>25,512,818</b>  | <b>(161,197)</b>  | <b>-0.63%</b>  |
| Government                     |                    |                    |                   |               |                    |                    |                   |                |
| Small, Non Demand              | 119,045            | 140,993            | 21,948            | 18.44%        | 249,135            | 291,410            | 42,275            | 16.97%         |
| Small-Demand                   | 1,134,899          | 1,384,835          | 249,936           | 22.02%        | 2,317,637          | 2,767,432          | 449,794           | 19.41%         |
| Large                          | 740,623            | 590,442            | (150,181)         | -20.28%       | 1,507,441          | 1,221,695          | (285,746)         | -18.96%        |
| Public St. Lites               | 92,075             | 59,619             | (32,456)          | -35.25%       | 182,672            | 144,877            | (37,794)          | -20.69%        |
| <b>Sub-total</b>               | <b>2,086,642</b>   | <b>2,175,888</b>   | <b>89,246</b>     | <b>4.28%</b>  | <b>4,256,885</b>   | <b>4,425,414</b>   | <b>168,529</b>    | <b>3.96%</b>   |
| <b>Total-Civilian</b>          | <b>14,931,453</b>  | <b>15,485,948</b>  | <b>554,495</b>    | <b>3.71%</b>  | <b>29,930,900</b>  | <b>29,938,232</b>  | <b>7,332</b>      | <b>0.02%</b>   |
| USN                            | 3,715,652          | 4,114,512          | 398,860           | 10.73%        | 7,584,264          | 8,093,123          | 508,859           | 6.71%          |
| <b>Grand Total</b>             | <b>18,647,105</b>  | <b>19,600,460</b>  | <b>953,355</b>    | <b>5.11%</b>  | <b>37,515,164</b>  | <b>38,031,355</b>  | <b>516,191</b>    | <b>1.38%</b>   |
| % of Total Revenues            | 59.37%             | 59.97%             |                   |               | 59.34%             | 58.10%             |                   |                |
| <b>Grand Total</b>             |                    |                    |                   |               |                    |                    |                   |                |
| Residential                    | 11,310,582         | 11,676,919         | 366,337           | 3.24%         | 22,622,428         | 23,387,455         | 765,028           | 3.38%          |
| Residential - Apt & Condo      | 153,547            | 155,449            | 1,901             |               | 305,575            | 310,823            | 5,248             | 1.72%          |
| Small General-Non-Demand       | 1,587,027          | 1,963,390          | 376,363           | 23.72%        | 3,292,126          | 4,011,776          | 719,650           | 21.86%         |
| Small General-Demand           | 3,976,307          | 4,258,463          | 282,156           | 7.10%         | 8,020,048          | 8,559,378          | 539,331           | 6.72%          |
| Large                          | 4,875,016          | 4,531,785          | (343,231)         | -7.04%        | 9,602,543          | 9,041,551          | (560,992)         | -5.84%         |
| Independent Power Producers    | 26,807             | 11,236             | (15,571)          | -58.09%       | 49,624             | 18,460             | (31,163)          | -62.80%        |
| Private St. Lites              | 8,947              | 25,776             | 16,829            | 188.10%       | 17,774             | 50,711             | 32,937            | 185.31%        |
| <b>Sub-total</b>               | <b>21,938,233</b>  | <b>22,623,018</b>  | <b>684,785</b>    | <b>3.12%</b>  | <b>43,910,116</b>  | <b>45,380,155</b>  | <b>1,470,039</b>  | <b>3.35%</b>   |
| Government                     |                    |                    |                   |               |                    |                    |                   |                |
| Small, Non Demand              | 248,752            | 291,714            | 42,962            | 17.27%        | 520,582            | 600,490            | 79,907            | 15.35%         |
| Small-Demand                   | 2,144,580          | 2,601,332          | 456,752           | 21.30%        | 4,379,560          | 5,196,916          | 817,356           | 18.66%         |
| Large                          | 1,370,672          | 1,059,790          | (310,882)         | -22.68%       | 2,789,823          | 2,191,427          | (598,396)         | -21.45%        |
| Public St. Lites               | 448,440            | 392,968            | (55,472)          | -12.37%       | 889,681            | 820,590            | (69,091)          | -7.77%         |
| <b>Sub-total</b>               | <b>4,212,444</b>   | <b>4,345,805</b>   | <b>133,360</b>    | <b>3.17%</b>  | <b>8,579,646</b>   | <b>8,809,423</b>   | <b>229,777</b>    | <b>2.68%</b>   |
| <b>Total-Civilian</b>          | <b>26,150,678</b>  | <b>26,968,822</b>  | <b>818,145</b>    | <b>3.13%</b>  | <b>52,489,762</b>  | <b>54,189,578</b>  | <b>1,699,816</b>  | <b>3.24%</b>   |
| USN                            | 5,258,136          | 5,716,481          | 458,345           | 8.72%         | 10,732,728         | 11,271,976         | 539,248           | 5.02%          |
| <b>Grand Total</b>             | <b>31,408,813</b>  | <b>32,685,303</b>  | <b>1,276,490</b>  | <b>4.06%</b>  | <b>63,222,491</b>  | <b>65,461,554</b>  | <b>2,239,063</b>  | <b>3.54%</b>   |

GPA Work Session - January 20, 2022 - GM REPORT UPDATES

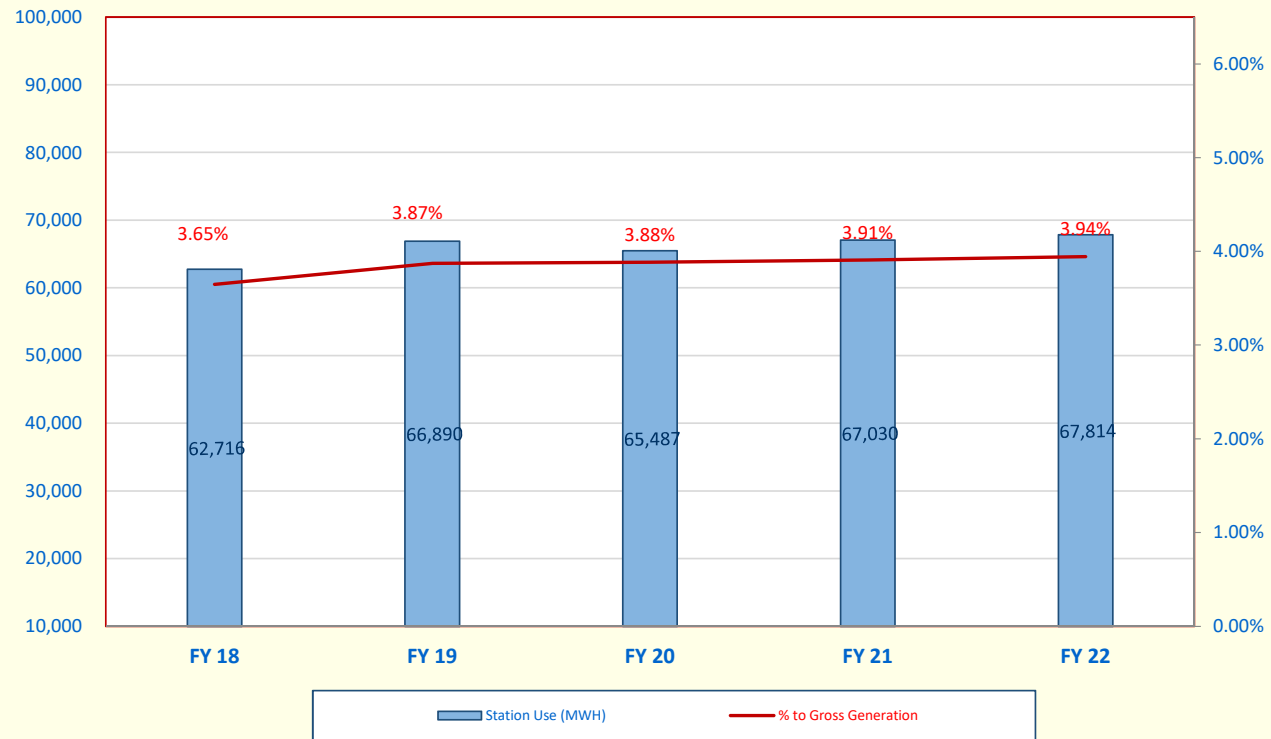
| YTD REVENUES - CURRENT YEAR VS PRIOR YEAR |                    |                    |                   |               | MTD REVENUES - CURRENT YEAR VS PRIOR YEAR |                    |                    |                  |               |
|-------------------------------------------|--------------------|--------------------|-------------------|---------------|-------------------------------------------|--------------------|--------------------|------------------|---------------|
| ACTUALS - 2 MONTHS ENDED NOVEMBER 30      |                    |                    |                   |               | ACTUALS - MONTH ENDED NOVEMBER 30         |                    |                    |                  |               |
|                                           | 2021               | 2020               | VARIANCE          | % VARIANCE    |                                           | 2021               | 2020               | VARIANCE         | % VARIANCE    |
| <b>KWH</b>                                |                    |                    |                   |               |                                           |                    |                    |                  |               |
| Residential                               | 94,296,909         | 94,941,650         | (644,741)         | -0.68%        |                                           | 48,087,642         | 47,017,061         | 1,070,581        | 2.28%         |
| Residential - Apt & Condo                 | 1,324,595          | -                  | 1,324,595         |               |                                           | 662,924            | -                  | 662,924          |               |
| Small General-Non-Demand                  | 13,770,190         | 11,212,266         | 2,557,924         | 22.81%        |                                           | 6,873,816          | 5,722,253          | 1,151,563        | 20.12%        |
| Small General-Demand                      | 32,689,395         | 30,930,898         | 1,758,496         | 5.69%         |                                           | 16,599,417         | 15,750,339         | 849,078          | 5.39%         |
| Large                                     | 35,479,193         | 37,312,279         | (1,833,086)       | -4.91%        |                                           | 17,942,248         | 18,536,035         | (593,787)        | -3.20%        |
| Independent Power Producers               | 69,815             | 108,017            | (38,202)          | -35.37%       |                                           | 41,173             | 33,326             | 7,847            | 23.55%        |
| Private St. Lites                         | 65,127             | 67,432             | (2,305)           | -3.42%        |                                           | 33,774             | 34,273             | (499)            | -1.46%        |
| <b>Sub-total</b>                          | <b>177,695,224</b> | <b>174,572,543</b> | <b>3,122,682</b>  | <b>1.79%</b>  |                                           | <b>90,240,994</b>  | <b>87,093,287</b>  | <b>3,147,707</b> | <b>3.61%</b>  |
| Government                                |                    |                    |                   |               |                                           |                    |                    |                  |               |
| Small, Non Demand                         | 1,973,105          | 1,612,222          | 360,883           | 22.38%        |                                           | 954,648            | 827,215            | 127,433          | 15.41%        |
| Small-Demand                              | 18,737,986         | 15,619,195         | 3,118,791         | 19.97%        |                                           | 9,376,567          | 7,864,767          | 1,511,801        | 19.22%        |
| Large                                     | 8,403,344          | 10,008,048         | (1,604,705)       | -16.03%       |                                           | 4,066,393          | 5,181,422          | (1,115,029)      | -21.52%       |
| Public St. Lites                          | 980,949            | 1,192,327          | (211,378)         | -17.73%       |                                           | 403,673            | 634,626            | (230,953)        | -36.39%       |
| <b>Sub-total</b>                          | <b>30,095,384</b>  | <b>28,431,792</b>  | <b>1,663,592</b>  | <b>5.85%</b>  |                                           | <b>14,801,282</b>  | <b>14,508,029</b>  | <b>293,252</b>   | <b>2.02%</b>  |
| <b>Total-Civilian</b>                     | <b>207,790,608</b> | <b>203,004,335</b> | <b>4,786,274</b>  | <b>2.36%</b>  |                                           | <b>105,042,276</b> | <b>101,601,316</b> | <b>3,440,960</b> | <b>3.39%</b>  |
| USN                                       | 51,981,082         | 52,950,589         | (969,507)         | -1.83%        |                                           | 25,554,904         | 25,913,357         | (358,452)        | -1.38%        |
| <b>Grand Total</b>                        | <b>259,771,691</b> | <b>255,954,924</b> | <b>3,816,767</b>  | <b>1.49%</b>  |                                           | <b>130,597,180</b> | <b>127,514,673</b> | <b>3,082,508</b> | <b>2.42%</b>  |
| <b>Non-Oil Yield</b>                      |                    |                    |                   |               |                                           |                    |                    |                  |               |
| Residential                               | 0.105235           | 0.095382           | 0.057789          | 121.80%       |                                           | 0.095135           | 0.095808           | -0.000673        | -0.70%        |
| Residential - Apt & Condo                 | 0.087329           | 0.000000           | 0.000000          | 0.00%         |                                           | 0.086799           | #DIV/0!            | #DIV/0!          | #DIV/0!       |
| Small General-Non-Demand                  | 0.148486           | 0.143641           | 0.004846          | 3.37%         |                                           | 0.137942           | 0.144640           | -0.006697        | -4.63%        |
| Small General-Demand                      | 0.117795           | 0.116884           | 0.000910          | 0.78%         |                                           | 0.108911           | 0.117741           | -0.008830        | -7.50%        |
| Large                                     | 0.109456           | 0.105684           | 0.003771          | 3.57%         |                                           | 0.105806           | 0.110338           | -0.004532        | -4.11%        |
| Independent Power Producers               | 0.121966           | 0.056794           | 0.065172          | 114.75%       |                                           | 0.130653           | 0.112561           | 0.018092         | 16.07%        |
| Private St. Lites                         | 0.630963           | 0.623494           | 0.007469          | 1.20%         |                                           | 0.615480           | 0.624928           | -0.009449        | -1.51%        |
| <b>Sub-total</b>                          | <b>0.111806</b>    | <b>0.104674</b>    | <b>0.007132</b>   | <b>6.81%</b>  |                                           | <b>0.103201</b>    | <b>0.106290</b>    | <b>-0.003089</b> | <b>-2.91%</b> |
| Government                                |                    |                    |                   |               |                                           |                    |                    |                  |               |
| Small, Non Demand                         | 0.156646           | 0.161961           | -0.005314         | -3.28%        |                                           | 0.157882           | 0.161991           | -0.004109        | -2.54%        |
| Small-Demand                              | 0.129656           | 0.134622           | -0.004967         | -3.69%        |                                           | 0.129738           | 0.135359           | -0.005621        | -4.15%        |
| Large                                     | 0.115398           | 0.126368           | -0.010970         | -8.68%        |                                           | 0.115421           | 0.128431           | -0.013010        | -10.13%       |
| Public St. Lites                          | 0.688836           | 0.575447           | 0.113388          | 19.70%        |                                           | 0.825790           | 0.543751           | 0.282040         | 51.87%        |
| <b>Sub-total</b>                          | <b>0.145670</b>    | <b>0.151754</b>    | <b>-0.006083</b>  | <b>-4.01%</b> |                                           | <b>0.146603</b>    | <b>0.152268</b>    | <b>-0.005665</b> | <b>-3.72%</b> |
| <b>Total-Civilian</b>                     | <b>0.116711</b>    | <b>0.111267</b>    | <b>0.005443</b>   | <b>4.89%</b>  |                                           | <b>0.109317</b>    | <b>0.112855</b>    | <b>-0.003539</b> | <b>-3.14%</b> |
| USN                                       | 0.061154           | 0.062974           | -0.001820         | -2.89%        |                                           | 0.062687           | 0.061246           | 0.001442         | 2.35%         |
| <b>Grand Total</b>                        | <b>0.105593</b>    | <b>0.101277</b>    | <b>0.004317</b>   | <b>4.26%</b>  |                                           | <b>0.100192</b>    | <b>0.102367</b>    | <b>-0.002175</b> | <b>-2.12%</b> |
| <b>Non-Oil Revenues</b>                   |                    |                    |                   |               |                                           |                    |                    |                  |               |
| Residential                               | 9,923,341          | 9,055,747          | 867,594           | 9.58%         |                                           | 4,574,807          | 4,504,615          | 70,192           | 1.56%         |
| Residential - Apt & Condo                 | 115,675            | -                  | 115,675           | 0.00%         |                                           | 57,541             | -                  | 57,541           | #DIV/0!       |
| Small General-Non-Demand                  | 2,044,683          | 1,610,536          | 434,148           | 26.96%        |                                           | 948,189            | 827,665            | 120,525          | 14.56%        |
| Small General-Demand                      | 3,850,632          | 3,615,337          | 235,294           | 6.51%         |                                           | 1,807,857          | 1,854,462          | (46,606)         | -2.51%        |
| Large                                     | 3,883,398          | 3,943,328          | (59,930)          | -1.52%        |                                           | 1,898,398          | 2,045,234          | (146,836)        | -7.18%        |
| Independent Power Producers               | 8,515              | 6,135              | 2,380             | 38.80%        |                                           | 5,379              | 3,751              | 1,628            | 43.41%        |
| Private St. Lites                         | 41,093             | 42,043             | (951)             | -2.26%        |                                           | 20,787             | 21,418             | (631)            | -2.95%        |
| <b>Sub-total</b>                          | <b>19,867,337</b>  | <b>18,273,126</b>  | <b>1,594,211</b>  | <b>8.72%</b>  |                                           | <b>9,312,959</b>   | <b>9,257,145</b>   | <b>55,813</b>    | <b>0.60%</b>  |
| Government                                |                    |                    |                   |               |                                           |                    |                    |                  |               |
| Small, Non Demand                         | 309,080            | 261,116            | 47,963            | 18.37%        |                                           | 150,722            | 134,001            | 16,720           | 12.48%        |
| Small-Demand                              | 2,429,485          | 2,102,693          | 326,792           | 15.54%        |                                           | 1,216,497          | 1,064,570          | 151,927          | 14.27%        |
| Large                                     | 969,732            | 1,264,699          | (294,967)         | -23.32%       |                                           | 469,348            | 665,458            | (196,109)        | -29.47%       |
| Public St. Lites                          | 675,713            | 686,121            | (10,409)          | -1.52%        |                                           | 333,349            | 345,078            | (11,729)         | -3.40%        |
| <b>Sub-total</b>                          | <b>4,384,009</b>   | <b>4,314,630</b>   | <b>69,379</b>     | <b>1.61%</b>  |                                           | <b>2,169,916</b>   | <b>2,209,107</b>   | <b>(39,191)</b>  | <b>-1.77%</b> |
| <b>Total-Civilian</b>                     | <b>24,251,346</b>  | <b>22,587,756</b>  | <b>1,663,590</b>  | <b>7.37%</b>  |                                           | <b>11,482,875</b>  | <b>11,466,252</b>  | <b>16,622</b>    | <b>0.14%</b>  |
| USN                                       | 3,178,853          | 3,334,531          | (155,678)         | -4.67%        |                                           | 1,601,968          | 1,587,079          | 14,889           | 0.94%         |
| <b>Grand Total</b>                        | <b>27,430,199</b>  | <b>25,922,286</b>  | <b>1,507,913</b>  | <b>5.82%</b>  |                                           | <b>13,084,843</b>  | <b>13,053,332</b>  | <b>31,511</b>    | <b>0.24%</b>  |
| % of Total Revenues                       |                    |                    |                   |               |                                           |                    |                    |                  |               |
| <b>Oil Revenues</b>                       |                    |                    |                   |               |                                           |                    |                    |                  |               |
| Residential                               | 13,464,114         | 7,945,762          | 5,518,353         | 69.45%        |                                           | 7,102,112          | 3,934,905          | 3,167,207        | 80.49%        |
| Residential - Apt & Condo                 | 195,148            | -                  | 195,148           | #DIV/0!       |                                           | 97,908             | -                  | 97,908           | #DIV/0!       |
| Small General-Non-Demand                  | 1,967,092          | 938,366            | 1,028,727         | 109.63%       |                                           | 1,015,201          | 478,901            | 536,300          | 111.99%       |
| Small General-Demand                      | 4,708,747          | 2,588,886          | 2,119,860         | 81.88%        |                                           | 2,450,607          | 1,318,282          | 1,132,324        | 85.89%        |
| Large                                     | 5,158,152          | 3,126,146          | 2,032,006         | 65.00%        |                                           | 2,633,387          | 1,552,862          | 1,080,526        | 69.58%        |
| Independent Power Producers               | 9,945              | 9,051              | 894               | 9.88%         |                                           | 5,857              | 2,795              | 3,062            | 109.55%       |
| Private St. Lites                         | 9,619              | 5,643              | 3,975             | 70.44%        |                                           | 4,988              | 2,868              | 2,120            | 73.90%        |
| <b>Sub-total</b>                          | <b>25,512,818</b>  | <b>14,613,855</b>  | <b>10,898,963</b> | <b>74.58%</b> |                                           | <b>13,310,059</b>  | <b>7,290,613</b>   | <b>6,019,446</b> | <b>82.56%</b> |
| Government                                |                    |                    |                   |               |                                           |                    |                    |                  |               |
| Small, Non Demand                         | 291,410            | 134,928            | 156,481           | 115.97%       |                                           | 140,993            | 69,230             | 71,763           | 103.66%       |
| Small-Demand                              | 2,767,432          | 1,307,186          | 1,460,246         | 111.71%       |                                           | 1,384,835          | 658,210            | 726,624          | 110.39%       |
| Large                                     | 1,221,695          | 838,729            | 382,966           | 45.66%        |                                           | 590,442            | 434,225            | 156,217          | 35.98%        |
| Public St. Lites                          | 144,877            | 99,787             | 45,090            | 45.19%        |                                           | 59,619             | 53,112             | 6,506            | 12.25%        |
| <b>Sub-total</b>                          | <b>4,425,414</b>   | <b>2,380,631</b>   | <b>2,044,783</b>  | <b>85.89%</b> |                                           | <b>2,175,888</b>   | <b>1,214,778</b>   | <b>961,111</b>   | <b>79.12%</b> |
| <b>Total-Civilian</b>                     | <b>29,938,232</b>  | <b>16,994,486</b>  | <b>12,943,746</b> | <b>76.16%</b> |                                           | <b>15,485,948</b>  | <b>8,505,391</b>   | <b>6,980,557</b> | <b>82.07%</b> |
| USN                                       | 8,093,123          | 4,900,065          | 3,193,058         | 65.16%        |                                           | 4,114,512          | 2,404,931          | 1,709,582        | 71.09%        |
| <b>Grand Total</b>                        | <b>38,031,355</b>  | <b>21,894,551</b>  | <b>16,136,804</b> | <b>73.70%</b> |                                           | <b>19,600,460</b>  | <b>10,910,322</b>  | <b>8,690,139</b> | <b>79.65%</b> |
| <b>Grand Total</b>                        |                    |                    |                   |               |                                           |                    |                    |                  |               |
| Residential                               | 23,387,455         | 17,001,508         | 6,385,947         | 37.56%        |                                           | 11,676,919         | 8,439,520          | 3,237,399        | 38.36%        |
| Residential - Apt & Condo                 | 310,823            | -                  | 310,823           | #DIV/0!       |                                           | 155,449            | -                  | 155,449          | #DIV/0!       |
| Small General-Non-Demand                  | 4,011,776          | 2,548,901          | 1,462,874         | 57.39%        |                                           | 1,963,390          | 1,306,566          | 656,824          | 50.27%        |
| Small General-Demand                      | 8,559,378          | 6,204,224          | 2,355,155         | 37.96%        |                                           | 4,258,463          | 3,172,745          | 1,085,719        | 34.22%        |
| Large                                     | 9,041,551          | 7,069,475          | 1,972,076         | 27.90%        |                                           | 4,531,785          | 3,598,095          | 933,690          | 25.95%        |
| Independent Power Producers               | 18,460             | 15,186             | 3,274             | 21.56%        |                                           | 11,236             | 6,546              | 4,690            | 71.65%        |
| Private St. Lites                         | 50,711             | 47,687             | 3,025             | 6.34%         |                                           | 25,776             | 24,287             | 1,489            | 6.13%         |
| <b>Sub-total</b>                          | <b>45,380,155</b>  | <b>32,886,981</b>  | <b>12,493,174</b> | <b>37.99%</b> |                                           | <b>22,623,018</b>  | <b>16,547,758</b>  | <b>6,075,260</b> | <b>36.71%</b> |
| Government                                |                    |                    |                   |               |                                           |                    |                    |                  |               |
| Small, Non Demand                         | 600,490            | 396,045            | 204,445           | 51.62%        |                                           | 291,714            | 203,232            | 88,483           | 43.54%        |
| Small-Demand                              | 5,196,916          | 3,409,879          | 1,787,038         | 52.41%        |                                           | 2,601,332          | 1,722,780          | 878,552          | 51.00%        |
| Large                                     | 2,191,427          | 2,103,429          | 87,998            | 4.18%         |                                           | 1,059,790          | 1,099,683          | (39,892)         | -3.63%        |
| Public St. Lites                          | 820,590            | 785,908            | 34,682            | 4.41%         |                                           | 392,968            | 398,191            | (5,223)          | -1.31%        |
| <b>Sub-total</b>                          | <b>8,809,423</b>   | <b>6,695,261</b>   | <b>2,114,163</b>  | <b>31.58%</b> |                                           | <b>4,345,805</b>   | <b>3,423,885</b>   | <b>921,919</b>   | <b>26.93%</b> |
| <b>Total-Civilian</b>                     | <b>54,189,578</b>  | <b>39,582,242</b>  | <b>14,607,336</b> | <b>36.90%</b> |                                           | <b>26,968,822</b>  | <b>19,971,643</b>  | <b>6,997,179</b> | <b>35.04%</b> |
| USN                                       | 11,271,976         | 8,234,596          | 3,037,380         | 36.89%        |                                           | 5,716,481          | 3,992,010          | 1,724,470        | 43.20%        |
| <b>Grand Total</b>                        | <b>65,461,554</b>  | <b>47,816,837</b>  | <b>17,644,717</b> | <b>36.90%</b> |                                           | <b>32,685,303</b>  | <b>23,963,653</b>  | <b>8,721,650</b> | <b>36.40%</b> |

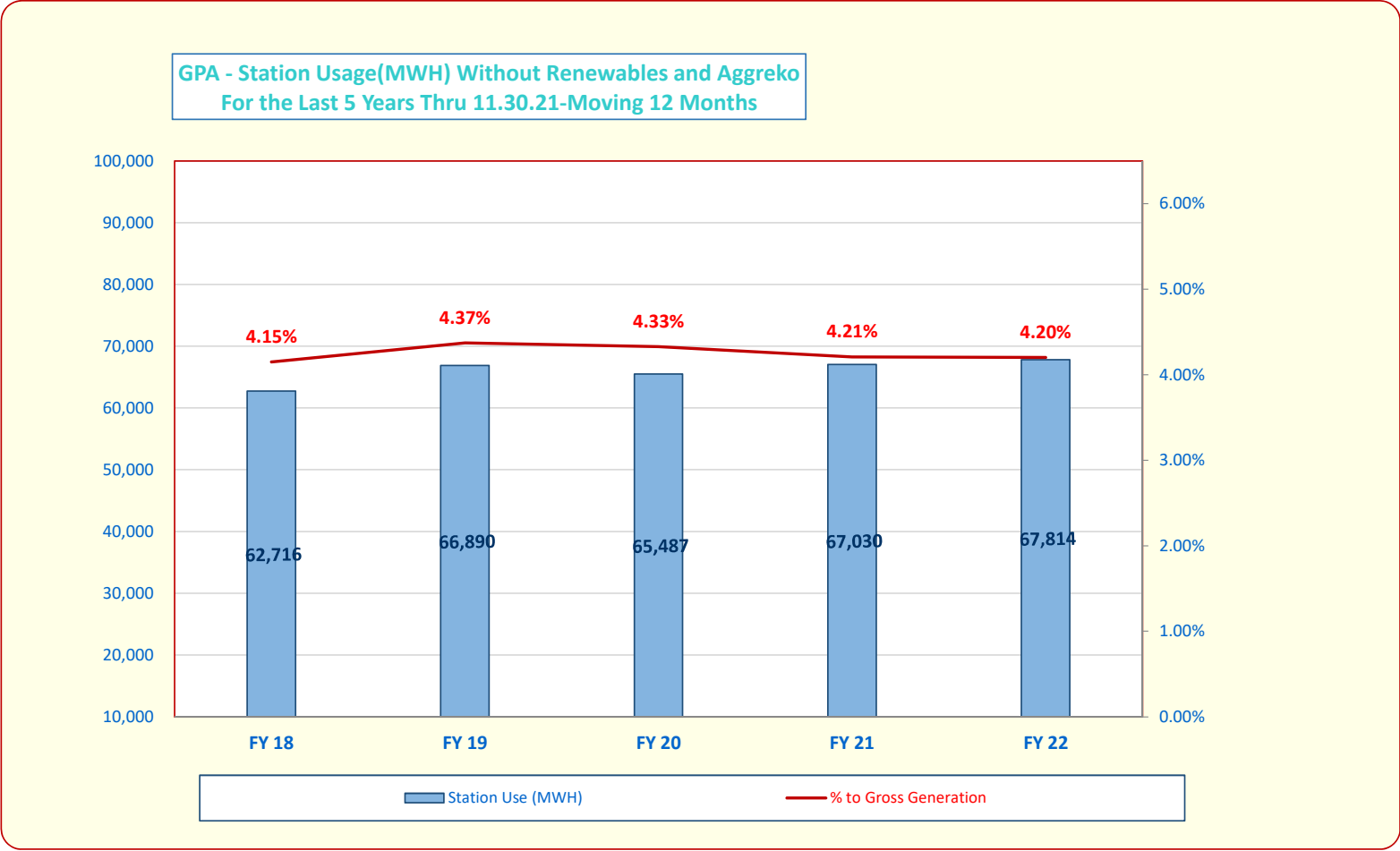


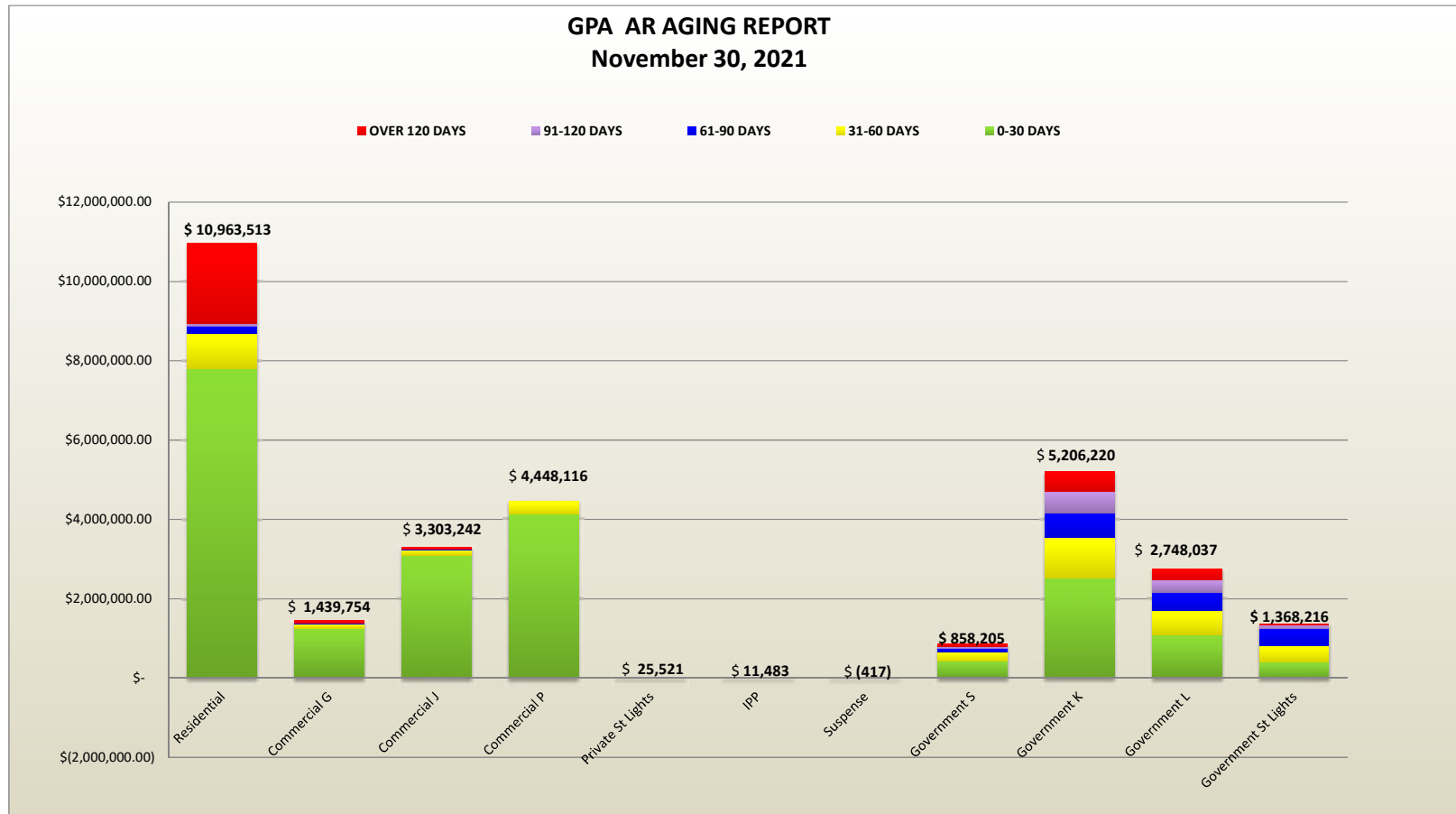




**GPA - Station Usage(MWH) With Renewables  
For the Last 5 Years Thru 11.30.21  
-Moving 12 Months**







**ACCOUNTS RECEIVABLE BY RATE - ACTIVE**  
**AR AGING REPORT**  
**AS OF November 30, 2021**

| RATE                 | TOTAL DUE        | 0-30 DAYS        | 31-60 DAYS      | 61-90 DAYS      | 91-120 DAYS     | OVER 120 DAYS   |
|----------------------|------------------|------------------|-----------------|-----------------|-----------------|-----------------|
| Residential - R      | \$ 8,962,769.95  | 7,646,254.64     | 888,017.16      | 168,951.22      | 76,833.41       | 182,713.52      |
| Residential - PP     | \$ 1,840,822.06  | (2,566.63)       | -               | -               | -               | 1,843,388.69    |
| Residential - D      | \$ 159,921.42    | \$ 159,921.42    |                 |                 |                 |                 |
| Commercial G         | \$ 1,439,754.12  | 1,247,683.02     | 119,342.46      | 17,504.51       | 8,715.12        | 46,509.01       |
| Commercial J         | \$ 3,303,241.70  | 3,093,724.38     | 143,694.20      | 12,458.74       | 11,187.89       | 42,176.49       |
| Commercial P         | \$ 4,448,116.36  | 4,133,379.16     | 314,737.20      |                 |                 |                 |
| Private St Lights    | \$ 25,520.86     | 15,668.30        | 1,437.12        | 469.87          | 815.08          | 7,130.49        |
| IPP                  | \$ 11,483.34     | 11,483.34        | -               | -               | -               | -               |
| Suspense             | \$ (417.18)      | (417.18)         | -               | -               | -               | -               |
| TOTAL PRIVATE        | \$ 20,191,212.63 | \$ 16,305,130.45 | \$ 1,467,228.14 | \$ 199,384.34   | \$ 97,551.50    | \$ 2,121,918.20 |
|                      |                  |                  |                 |                 |                 |                 |
| Government S         | \$ 858,204.56    | \$ 427,193.62    | \$ 239,805.40   | \$ 74,227.06    | \$ 64,477.08    | \$ 52,501.40    |
| Government K         | \$ 5,206,220.37  | \$ 2,528,190.78  | \$ 1,016,391.14 | \$ 608,042.74   | \$ 562,116.21   | \$ 491,479.50   |
| Government L         | \$ 2,748,036.97  | \$ 1,084,225.40  | \$ 616,092.30   | \$ 458,539.04   | \$ 313,517.54   | \$ 275,662.69   |
| Government St Lights | \$ 1,368,215.95  | \$ 395,393.60    | \$ 423,115.85   | \$ 418,388.91   | \$ 101,727.07   | \$ 29,590.52    |
| TOTAL GOVERNMENT     | \$ 10,180,677.85 | \$ 4,435,003.40  | \$ 2,295,404.69 | \$ 1,559,197.75 | \$ 1,041,837.90 | \$ 849,234.11   |
|                      |                  |                  |                 |                 |                 |                 |
| GRAND TOTAL          | \$ 30,371,890.48 | \$ 20,740,133.85 | \$ 3,762,632.83 | \$ 1,758,582.09 | \$ 1,139,389.40 | \$ 2,971,152.31 |
| \$ 26,261,348.77     |                  |                  |                 |                 |                 |                 |
|                      |                  |                  |                 |                 |                 |                 |
| Total Residential    | \$ 10,963,513.43 | \$ 7,803,609.43  | \$ 888,017.16   | \$ 168,951.22   | \$ 76,833.41    | \$ 2,026,102.21 |

# GPA Work Session - January 20, 2022 - GM REPORT UPDATES

GUAM POWER AUTHORITY  
GOVERNMENT ACCOUNTS RECEIVABLE  
Billing up to NOV 30, 2021 and payments as of 11/30/2021

Current (11/30/2021 Billing due 12/30/2021)  
31 days Arrears 10/30/2021 due 11/30/2021)  
61 days and over Arrears (09/30/21 billing due 10/30/2021)

| CC&B New<br>Acct Numer |  | DEPARTMENT | CC&B BALANCE<br>10/31/2021 | CANCEL/REBILL/<br>SPEC CHARGE<br>11/30/2021 | BILLING<br>11/30/2021 | PAYMENT<br>UP TO 11/30/2021 | CC&B BALANCE<br>11/30/2021 |
|------------------------|--|------------|----------------------------|---------------------------------------------|-----------------------|-----------------------------|----------------------------|
|------------------------|--|------------|----------------------------|---------------------------------------------|-----------------------|-----------------------------|----------------------------|

## Line Agencies

|            |               |                                              |              |   |              |              |              |
|------------|---------------|----------------------------------------------|--------------|---|--------------|--------------|--------------|
| 3404311949 | LINE AGENCIES | Guam Environmental Protect                   | 13,439.05    | - | 6,813.33     | (6,400.40)   | 13,851.98    |
| 4554808900 | LINE AGENCIES | Nieves Flores Library                        | 25,100.80    | - | 12,936.82    | (12,238.88)  | 25,798.74    |
| 6069461950 | LINE AGENCIES | Dept of Youth Affairs (Federal)              | 646.66       | - | 302.84       | (335.42)     | 614.08       |
| 6293410000 | LINE AGENCIES | Office of the Governor                       | 40,305.60    | - | 20,531.91    | (19,404.93)  | 41,432.58    |
| 6841080463 | LINE AGENCIES | Guam Behavioral Health & Wellness            | 4,423.93     | - | 2,599.99     | (2,305.16)   | 4,718.76     |
| 7928924534 | LINE AGENCIES | Guam Visitors Bureau                         | 4,245.47     | - | 4,157.28     | (4,245.47)   | 4,157.28     |
| 3227759982 | LINE AGENCIES | Mental Health/Subst.                         | 95,293.40    | - | 48,712.39    | (46,162.26)  | 97,843.53    |
| 7813165805 | LINE AGENCIES | Pacific Energy Resource Center               | 1,218.31     | - | 579.93       | (611.61)     | 1,186.63     |
| 2913461537 | LINE AGENCIES | Dept. of Youth Affair* (Local)               | 28,787.49    | - | 13,834.03    | (14,625.17)  | 27,996.35    |
| 1073430238 | LINE AGENCIES | Dept. of Corrections                         | 148,412.59   | - | 78,261.85    | (72,748.41)  | 153,926.03   |
| 3558733700 | LINE AGENCIES | Dept of Chamorro Affairs/Chamorro Village (N | 28.32        | - | 14.16        | (14.16)      | 28.32        |
| 1099514147 | LINE AGENCIES | Dept of Chamorro Affairs/Repository          | 404.97       | - | 207.53       | (180.10)     | 432.40       |
| 9541109130 | LINE AGENCIES | General Services Agency                      | 523.69       | - | 259.65       | (261.51)     | 521.83       |
| 7663706771 | LINE AGENCIES | Yona Senior Citizen Center                   | 1,197.90     | - | 570.91       | (588.53)     | 1,180.28     |
| 8546479941 | LINE AGENCIES | DOA Supply Mgmt (NET METERED)                | 2,118.99     | - | 1,028.20     | (1,117.08)   | 2,030.13     |
| 0070861777 | LINE AGENCIES | Veteran Affairs                              | 5,623.27     | - | 1,918.98     | -            | 7,552.25     |
| 5247210000 | LINE AGENCIES | Mayors Council                               | 21,907.48    | - | 2,725.55     | (5,711.11)   | 18,921.92    |
| 4129948191 | LINE AGENCIES | Dept of Chamorro Affairs/Chamorro Village    | 5,430.76     | - | 2,859.75     | (2,562.23)   | 5,728.28     |
| 4211873236 | LINE AGENCIES | Dept. of Administration                      | 26,010.78    | - | 9,441.51     | (16,213.70)  | 19,238.59    |
| 1621790133 | LINE AGENCIES | DOA-Data Processing                          | 19,570.76    | - | 10,538.89    | (9,352.79)   | 20,756.86    |
| 1595188609 | LINE AGENCIES | Dept. of Agriculture                         | 22,218.68    | - | 11,111.06    | (3,918.35)   | 29,411.39    |
| 8300435373 | LINE AGENCIES | Civil Defense (Military Affairs)             | 12,208.77    | - | 12,287.94    | -            | 24,496.71    |
| 0453170939 | LINE AGENCIES | Guam Fire Department                         | 33,271.31    | - | 16,725.93    | (16,310.24)  | 33,687.00    |
| 8555858369 | LINE AGENCIES | Dept of Chamorro Affairs (Guam Museum)       | 43,393.55    | - | 20,243.40    | (17,936.83)  | 45,700.12    |
| 1896187753 | LINE AGENCIES | Dept. of PH&SS                               | 137,870.92   | - | 37,659.73    | (92,229.67)  | 83,300.98    |
| 0040515913 | LINE AGENCIES | Dept. of Parks & Rec.                        | 21,641.98    | - | 11,363.71    | (10,439.13)  | 22,566.56    |
| 2535590089 | LINE AGENCIES | DPW-FAC Adm Account                          | 65,814.37    | - | 32,285.97    | (32,531.25)  | 65,569.09    |
| 7252821074 | LINE AGENCIES | Dept. of Education                           | 3,637,355.83 | - | 1,008,824.83 | -            | 4,646,180.66 |
| 0266069082 | LINE AGENCIES | Guam Police Department                       | 129,531.07   | - | 46,606.04    | (43,964.46)  | 132,172.65   |
| Sub-total  |               |                                              | 4,548,006.70 | - | 1,415,404.11 | (432,408.83) | 5,531,001.98 |

## Mayors

|            |        |                           |           |   |           |             |           |
|------------|--------|---------------------------|-----------|---|-----------|-------------|-----------|
| 6393530237 | MAYORS | Hagatna Mayor             | 1,276.07  | - | 661.57    | (606.71)    | 1,330.93  |
| 4469579998 | MAYORS | Merizo Mayor              | 1,734.32  | - | 1,004.17  | (884.94)    | 1,853.55  |
| 1880297633 | MAYORS | Talofolo Mayor            | 2,767.25  | - | 1,418.25  | (1,360.09)  | 2,825.41  |
| 0492244686 | MAYORS | Asan/Maina/Adelup Mayor   | 2,232.12  | - | 1,054.78  | (1,118.02)  | 2,168.88  |
| 3293808984 | MAYORS | Piti Mayor                | 3,136.07  | - | 983.98    | (2,226.08)  | 1,893.97  |
| 7202265287 | MAYORS | Umatac Mayor              | 1,812.51  | - | 804.98    | (879.67)    | 1,737.82  |
| 1837525565 | MAYORS | Yona Mayor                | 2,162.02  | - | 1,464.08  | (1,119.59)  | 2,506.51  |
| 5763167341 | MAYORS | Barrigada Mayors Office   | 4,838.83  | - | 2,216.86  | (673.43)    | 6,382.26  |
| 8715052935 | MAYORS | Mongmong/Toto/Maite Mayor | 3,155.37  | - | 1,691.82  | (1,555.48)  | 3,291.71  |
| 7037924246 | MAYORS | Vigo Mayor                | 5,091.76  | - | 2,616.81  | (2,413.08)  | 5,295.49  |
| 8433959204 | MAYORS | Sinajana Mayor            | 5,917.38  | - | 3,288.05  | (2,915.70)  | 6,289.73  |
| 8472200165 | MAYORS | Agana Hts. Mayor          | 6,103.62  | - | 3,728.42  | (3,036.84)  | 6,795.20  |
| 3832327736 | MAYORS | Santa Rita Mayor          | 5,858.03  | - | 3,205.38  | (2,789.50)  | 6,273.91  |
| 3631627996 | MAYORS | Mangilao Mayor            | 4,997.16  | - | 2,541.26  | (2,251.66)  | 5,286.76  |
| 8041715847 | MAYORS | Dededo Mayor              | 8,856.73  | - | 4,461.18  | (4,165.40)  | 9,152.51  |
| 6957205325 | MAYORS | Tamuning Mayor            | 9,960.13  | - | 5,215.40  | (4,912.07)  | 10,263.46 |
| 6078244037 | MAYORS | Tanarajan Mayor           | 5,905.92  | - | 3,106.05  | (2,867.85)  | 6,144.12  |
| 7247791682 | MAYORS | Agat Mayor                | 5,881.38  | - | 3,071.10  | (2,888.02)  | 6,064.46  |
| 9351070242 | MAYORS | Ordot/Chalan Pago Mayor   | 2,389.04  | - | 762.85    | (1,120.50)  | 2,031.39  |
| Sub-total  |        |                           | 84,075.71 | - | 43,296.99 | (39,784.63) | 87,588.07 |

## DPW Accounts

|            |              |                         |              |   |            |              |              |
|------------|--------------|-------------------------|--------------|---|------------|--------------|--------------|
| 0832698062 | DPW ACCOUNTS | DPW-Signal Lights       | 18,618.96    | - | 9,403.14   | (8,949.40)   | 19,072.70    |
| 0930959866 | DPW ACCOUNTS | DPW- Primary St. Lights | 322,303.69   | - | 70,431.10  | (72,853.71)  | 319,881.08   |
| 3045433600 | DPW ACCOUNTS | DPW-Village St. Lights  | 1,025,307.69 | - | 300,847.53 | (331,226.97) | 994,928.25   |
| 3088040552 | DPW ACCOUNTS | DPW-Sec/Coll St. Lights | 66,442.00    | - | 18,753.86  | (20,077.67)  | 65,118.19    |
| Sub-total  |              |                         | 1,432,672.34 | - | 399,435.63 | (433,107.75) | 1,399,000.22 |

## Autonomous/Public Corp

|            |             |                                  |              |             |              |                |              |
|------------|-------------|----------------------------------|--------------|-------------|--------------|----------------|--------------|
| 0838495949 | AUTONOMOUS/ | Guam Waterworks Authority        | 1,312,892.24 | (145.66)    | 1,245,903.28 | (1,312,746.58) | 1,245,903.28 |
| 1540692986 | AUTONOMOUS/ | Retirement Fund                  | 6,201.89     | -           | 5,994.57     | (6,201.89)     | 5,994.57     |
| 4075914809 | AUTONOMOUS/ | GPA                              | -            | (81,723.42) | 81,723.42    | -              | -            |
| 5357510000 | AUTONOMOUS/ | University of Guam (NET METERED) | 79,963.31    | -           | 77,973.48    | (79,963.31)    | 77,973.48    |
| 6518220019 | AUTONOMOUS/ | Guam Community College           | 46,034.87    | -           | 45,626.33    | (46,034.87)    | 45,626.33    |
| 7736362694 | AUTONOMOUS/ | Guam Airport Authority           | 453,909.64   | -           | 460,889.00   | (453,909.64)   | 460,889.00   |
| 8302337726 | AUTONOMOUS/ | Guam Memorial Hospital           | 107,379.39   | -           | 36,499.63    | (33,590.75)    | 110,288.27   |

## AGING

| 0-30 Days | 31-60 Days | 61-90 Days | 91-120 Days | >120 Days | Total |
|-----------|------------|------------|-------------|-----------|-------|
|-----------|------------|------------|-------------|-----------|-------|

|              |              |            |            |            |              |
|--------------|--------------|------------|------------|------------|--------------|
| 6,813.33     | 7,038.65     | -          | -          | -          | 13,851.98    |
| 12,936.82    | 12,861.92    | -          | -          | -          | 25,798.74    |
| 302.84       | 311.24       | -          | -          | -          | 614.08       |
| 20,531.91    | 20,900.67    | -          | -          | -          | 41,432.58    |
| 2,599.99     | 2,118.77     | -          | -          | -          | 4,718.76     |
| 4,157.28     | -            | -          | -          | -          | 4,157.28     |
| 48,712.39    | 49,131.14    | -          | -          | -          | 97,843.53    |
| 579.93       | 606.70       | -          | -          | -          | 1,186.63     |
| 13,834.03    | 14,162.32    | -          | -          | -          | 27,996.35    |
| 78,261.85    | 75,664.18    | -          | -          | -          | 153,926.03   |
| 14.16        | 14.16        | -          | -          | -          | 28.32        |
| 207.53       | 224.87       | -          | -          | -          | 432.40       |
| 259.65       | 262.18       | -          | -          | -          | 521.83       |
| 570.91       | 609.37       | -          | -          | -          | 1,180.28     |
| 1,028.20     | 1,001.93     | -          | -          | -          | 2,030.13     |
| 1,918.98     | 2,045.27     | 1,746.87   | 1,841.13   | -          | 7,552.25     |
| 2,725.55     | 2,190.13     | 2,496.13   | 3,214.98   | 8,295.13   | 18,921.92    |
| 2,859.75     | 2,868.53     | -          | -          | -          | 5,728.28     |
| 9,441.51     | 9,617.24     | 179.84     | -          | -          | 19,238.59    |
| 10,538.89    | 10,217.97    | -          | -          | -          | 20,756.86    |
| 11,111.06    | 11,163.71    | 7,136.62   | -          | 0.00       | 29,411.39    |
| 12,287.94    | 12,208.77    | -          | -          | -          | 24,496.71    |
| 16,725.93    | 16,961.07    | -          | -          | -          | 33,687.00    |
| 20,243.40    | 25,456.72    | -          | -          | -          | 45,700.12    |
| 37,659.73    | 38,362.47    | 7,278.78   | -          | -          | 83,300.98    |
| 11,363.71    | 11,202.85    | -          | -          | -          | 22,566.56    |
| 32,285.97    | 33,283.12    | -          | -          | -          | 65,569.09    |
| 1,008,824.83 | 1,017,935.89 | 881,568.80 | 929,250.81 | 808,600.33 | 4,646,180.66 |
| 46,606.04    | 45,155.31    | 40,411.30  | -          | -          | 132,172.65   |
| 1,415,404.11 | 1,423,577.15 | 940,818.34 | 934,306.92 | 816,895.46 | 5,531,001.98 |

|           |           |          |   |   |           |
|-----------|-----------|----------|---|---|-----------|
| 661.57    | 669.36    | -        | - | - | 1,330.93  |
| 1,004.17  | 849.38    | -        | - | - | 1,853.55  |
| 1,418.25  | 1,407.16  | -        | - | - | 2,825.41  |
| 1,054.78  | 1,114.10  | -        | - | - | 2,168.88  |
| 983.98    | 909.99    | -        | - | - | 1,893.97  |
| 804.98    | 932.84    | -        | - | - | 1,737.82  |
| 1,464.08  | 1,042.43  | -        | - | - | 2,506.51  |
| 2,216.86  | 2,369.43  | 1,795.97 | - | - | 6,382.26  |
| 1,691.82  | 1,599.89  | -        | - | - | 3,291.71  |
| 2,616.81  | 2,678.68  | -        | - | - | 5,295.49  |
| 3,288.05  | 3,001.68  | -        | - | - | 6,289.73  |
| 3,728.42  | 3,066.78  | -        | - | - | 6,795.20  |
| 3,205.38  | 3,068.53  | -        | - | - | 6,273.91  |
| 2,541.26  | 2,745.50  | -        | - | - | 5,286.76  |
| 4,461.18  | 4,691.33  | -        | - | - | 9,152.51  |
| 5,215.40  | 5,048.06  | -        | - | - | 10,263.46 |
| 3,106.05  | 3,038.07  | -        | - | - | 6,144.12  |
| 3,071.10  | 2,981.51  | 11.85    | - | - | 6,064.46  |
| 762.85    | 670.73    | 597.81   | - | - | 2,031.39  |
| 43,296.99 | 41,885.45 | 2,405.63 | - | - | 87,588.07 |

|            |            |            |            |           |              |
|------------|------------|------------|------------|-----------|--------------|
| 9,403.14   | 9,669.56   | -          | -          | -         | 19,072.70    |
| 70,431.10  | 73,465.47  | 72,853.71  | 70,792.15  | 32,338.65 | 319,881.08   |
| 300,847.53 | 332,676.96 | 331,226.97 | 30,176.79  | -         | 994,928.25   |
| 18,753.86  | 20,148.57  | 20,077.67  | 6,138.09   | -         | 65,118.19    |
| 399,435.63 | 435,960.56 | 424,158.35 | 107,107.03 | 32,338.65 | 1,399,000.22 |

|              |           |           |        |   |              |
|--------------|-----------|-----------|--------|---|--------------|
| 1,245,903.28 | -         | -         | -      | - | 1,245,903.28 |
| 5,994.57     | -         | -         | -      | - | 5,994.57     |
| -            | -         | -         | -      | - | -            |
| 77,973.48    | -         | -         | -      | - | 77,973.48    |
| 45,626.33    | -         | -         | -      | - | 45,626.33    |
| 460,889.00   | -         | -         | -      | - | 460,889.00   |
| 36,499.63    | 36,789.81 | 36,574.88 | 423.95 | - | 110,288.27   |

# GPA Work Session - January 20, 2022 - GM REPORT UPDATES

GUAM POWER AUTHORITY  
GOVERNMENT ACCOUNTS RECEIVABLE  
Billing up to NOV 30, 2021 and payments as of 11/30/2021

Current (11/30/2021 Billing due 12/30/2021)  
31 days Arrears 10/30/2021 due 11/30/2021)  
61 days and over Arrears (09/30/21 billing due 10/30/2021)

| CC&B New<br>Acct Numer |  | DEPARTMENT | CC&B BALANCE<br>10/31/2021 | CANCEL/REBILL/<br>SPEC CHARGE<br>11/30/2021 | BILLING<br>11/30/2021 | PAYMENT<br>UP TO 11/30/2021 | CC&B BALANCE<br>11/30/2021 |
|------------------------|--|------------|----------------------------|---------------------------------------------|-----------------------|-----------------------------|----------------------------|
|------------------------|--|------------|----------------------------|---------------------------------------------|-----------------------|-----------------------------|----------------------------|

## Line Agencies

|            |              |                                      |              |             |              |                |              |
|------------|--------------|--------------------------------------|--------------|-------------|--------------|----------------|--------------|
| 8426836906 | AUTONOMOUS// | Guam Memorial Hospital (NET METERED) | 475,599.72   | -           | 160,307.41   | (154,553.73)   | 481,353.40   |
| 9157510000 | AUTONOMOUS// | Guam Community College (NET METERED) | 37,905.63    | -           | 38,746.52    | (37,905.63)    | 38,746.52    |
| 0563872892 | AUTONOMOUS// | Guam Housing Corp Rental Division    | 975.12       | -           | 1,012.75     | (975.12)       | 1,012.75     |
| 9173210000 | AUTONOMOUS// | Guam Solid Waste Authority           | 13,866.63    | -           | 7,714.77     | (6,405.50)     | 15,175.90    |
| 5434075703 | AUTONOMOUS// | University of Guam                   | 170,962.03   | -           | 175,462.47   | (170,962.03)   | 175,462.47   |
| 1699407298 | AUTONOMOUS// | G H U R A                            | 25,264.69    | (12,064.33) | 25,328.19    | (13,200.88)    | 25,327.67    |
| 4474308144 | AUTONOMOUS// | Port Authority of Guam               | 73,675.89    | -           | 63,204.39    | -              | 136,880.28   |
| Sub-total  |              |                                      | 2,804,631.05 | (93,933.41) | 2,426,386.21 | (2,316,449.93) | 2,820,633.92 |

## Others

|            |        |                                         |            |   |            |              |            |
|------------|--------|-----------------------------------------|------------|---|------------|--------------|------------|
| 3209463043 | OTHERS | Dept. of Military Affairs (NET METERED) | 20,925.68  | - | 20,274.63  | -            | 41,200.31  |
| 4530787043 | OTHERS | U.S. Post Office                        | 47,879.13  | - | 44,991.40  | (47,879.13)  | 44,991.40  |
| 6000770566 | OTHERS | KGTF                                    | 15,964.39  | - | 7,706.85   | (7,241.20)   | 16,430.04  |
| 6602566745 | OTHERS | Tamuning Post Office                    | 5,978.18   | - | 5,842.11   | (5,978.18)   | 5,842.11   |
| 7541928173 | OTHERS | Guam Legislature                        | 377.75     | - | 417.79     | (377.75)     | 417.79     |
| 8108458168 | OTHERS | Guam Post Office (Agana)                | 6,042.74   | - | 6,162.35   | (6,042.74)   | 6,162.35   |
| 8353274954 | OTHERS | Superior Court of Guam                  | 52,466.73  | - | 52,913.70  | (52,466.73)  | 52,913.70  |
| 8607446612 | OTHERS | Dept. of Military Affairs               | 79,990.78  | - | 83,484.18  | -            | 163,474.96 |
| 4329984895 | OTHERS | DEPT OF MILITARY AFFAIRS                | -          | - | 235.84     | -            | 235.84     |
| 8972267005 | OTHERS | Customs & Quarantine Agency             | 1,247.71   | - | 615.61     | (638.10)     | 1,225.22   |
| 9503154359 | OTHERS | Guam Legislature (NET METERED)          | 9,153.46   | - | 9,559.94   | (9,153.46)   | 9,559.94   |
| Sub-total  |        |                                         | 240,026.55 | - | 232,204.40 | (129,777.29) | 342,453.66 |

Grand Total 9,109,412.35 (93,933.41) 4,516,727.34 (3,351,528.43) 10,180,677.85

## AGING

| 0-30 Days | 31-60 Days | 61-90 Days | 91-120 Days | >120 Days | Total |
|-----------|------------|------------|-------------|-----------|-------|
|-----------|------------|------------|-------------|-----------|-------|

|              |            |            |        |   |              |
|--------------|------------|------------|--------|---|--------------|
| 160,307.41   | 166,541.43 | 154,504.56 | -      | - | 481,353.40   |
| 38,746.52    | -          | -          | -      | - | 38,746.52    |
| 1,012.75     | 219.23     | (219.23)   | -      | - | 1,012.75     |
| 7,714.77     | 7,461.13   | -          | -      | - | 15,175.90    |
| 175,462.47   | -          | -          | -      | - | 175,462.47   |
| 25,327.67    | -          | -          | -      | - | 25,327.67    |
| 63,204.39    | 73,675.89  | -          | -      | - | 136,880.28   |
| 2,344,662.27 | 284,687.49 | 190,860.21 | 423.95 | - | 2,820,633.92 |

|            |            |        |   |   |            |
|------------|------------|--------|---|---|------------|
| 20,274.63  | 20,925.68  | -      | - | - | 41,200.31  |
| 44,991.40  | -          | -      | - | - | 44,991.40  |
| 7,706.85   | 7,767.97   | 955.22 | - | - | 16,430.04  |
| 5,842.11   | -          | -      | - | - | 5,842.11   |
| 417.79     | -          | -      | - | - | 417.79     |
| 6,162.35   | -          | -      | - | - | 6,162.35   |
| 52,913.70  | -          | -      | - | - | 52,913.70  |
| 83,484.18  | 79,990.78  | -      | - | - | 163,474.96 |
| 235.84     | -          | -      | - | - | 235.84     |
| 615.61     | 609.61     | -      | - | - | 1,225.22   |
| 9,559.94   | -          | -      | - | - | 9,559.94   |
| 232,204.40 | 109,294.04 | 955.22 | - | - | 342,453.66 |

4,435,003.40 2,295,404.69 1,559,197.75 1,041,837.90 849,234.11 10,180,677.85