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

GUAM POWER AUTHORITY WORK SESSION

CCU Conference Room
8:30 a.m., Thursday, September 22, 2022

AGENDA

1. **CALL TO ORDER**

2. **ISSUES FOR DECISION**
   - 2.1 **Approval of the Phase IV Renewable Acquisition Multistep Bid / Resolution FY'2022-30**
   - 2.2 **Relative to Clarifying the GM's Contract Approval Authority /GPA Resolution FY'2022-31 & GWA Resolution 33-FY2022**

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 **5-Year Implementation Program Towards Achieving Clean Energy Plan**

5. **ANNOUNCEMENT**
   - 5.1 **Next Meeting: CCU Mtg: Tuesday, September 27, 2022**

6. **ADJOURNMENT**

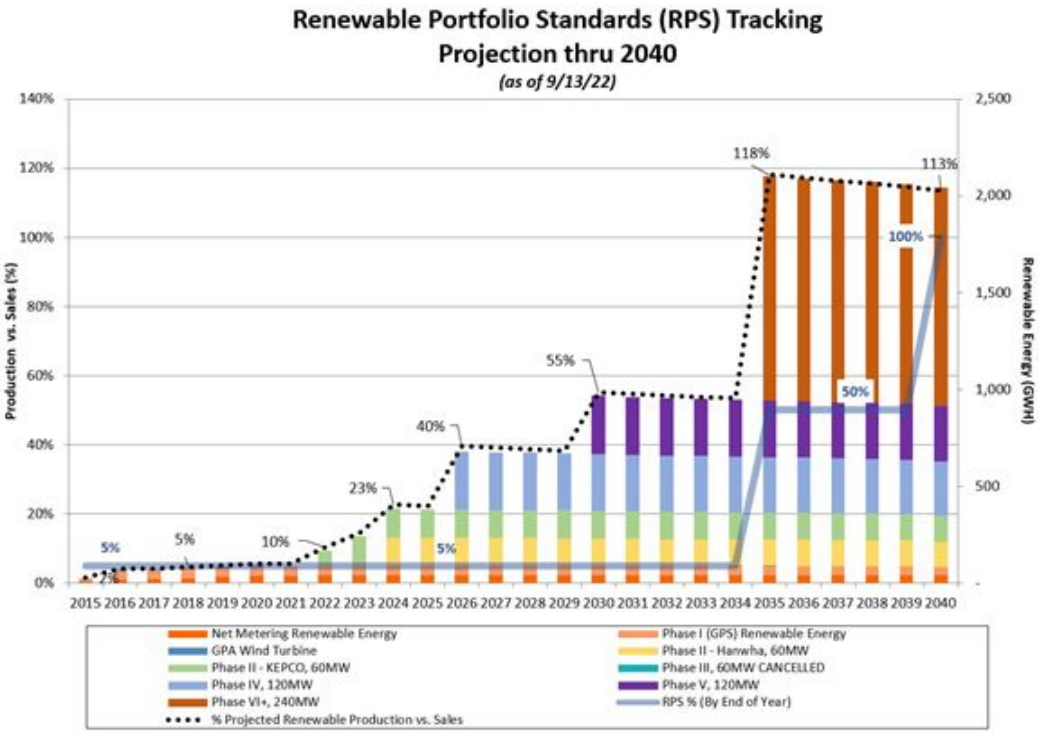
GUAM POWER AUTHORITY
ATURIDÅT ILEKTRESEDÅT GUAHAN
P.O.BOX 2977 • AGANA, GUAM U.S.A. 96932-2977

Issues for Decision

Resolution No. FY2022-30:

Relative to the Approval of the Phase IV Renewable Acquisition Multistep Bid

What is the project's objective and is it necessary and urgent?
The execution of this project will contribute towards GPA's goal to meet the Renewable Portfolio Standards adopted under Guam Public Law 35-46 which requires 50% of GPA's net sales to come from Renewable Energy (RE) by 2035. Please see attached Renewable Portfolio Standards (RPS) Tracking Projection thru 2040.



According to this projection, the completion of Phase IV Renewable Acquisition will result in GPA having approximately 40% of net sales coming from RE production by 2026 giving ample time for GPA to continue building its renewable capacity to 50% by 2035. Without the Phase IV Renewable Resource Acquisition Project Completion, GPA anticipates that at years 2026 to 2029 only about 23% of net sales will be from RE production. Approximately 27% of net sales would still need to be served by RE in order for GPA to meet the 50% RPS. In this case, GPA would have to more than double its RE capacity in 2026 over nine years.

Where is it at?
The exact project site will be determined by the winning proposal's proposed location.

How much will it cost?
This will be determined by bid process.

When will it be completed?
The renewable energy resource shall be available for commercial operation within thirty-six (36) months from the contract execution. Below is a tentative bid milestone for the project. Please note that these dates will shift according to PUC's approval date of the solicitation documents for this project.

Bid Schedule Milestones			
Task	**Days**	**Start**	**End**
PUC Review	31	9/27/22	10/27/22
Announce	14	11/17/22	11/30/22
Bid Proposals Due	119	11/17/22	3/15/23
STEP 1: Technical Evaluation	26	3/20/22	4/14/22
Priced Proposals Opening	1	4/24/23	4/24/23
STEP 2: Price Bid Evaluation	25	4/25/23	5/19/23
System Impact Study	90	5/29/23	8/26/23
Contract Negotiation	30	8/27/23	9/25/23
CCU Approval (4th Tues)	1	9/26/23	9/26/23
PUC Approval	30	9/27/23	10/26/23

What is its funding source?
GPA intends to seek LEAC recovery for renewable energy contracts.

THE RFP/BID responses?
None. This request is to obtain authorization to petition approval bid documents before solicitation.

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RESOLUTION NO. FY2022–30

AUTHORIZING MANAGEMENT OF THE GUAM POWER AUTHORITY TO PETITION THE PUC FOR APPROVAL OF THE PHASE IV RENEWABLE ACQUISITION MULTISTEP BID DOCUMENTS UNDER THE PROCUREMENT PROTOCOL

WHEREAS, Guam Public Law 35-46 established Guam's Renewable Portfolio Standard (RPS) with the ultimate RPS goal of 50% of GPA's net sales to come from renewable energy by 2035 and 100% by 2045; and

WHEREAS, Guam Public Law 30-66 established that the Guam Power Authority may enter into Long Term Contracts to make way for Power Purchase Agreements for renewable energy generation; and

WHEREAS, the previous Renewable Energy Resources Acquisitions were a result of GPA's 2008 Integrated Resource Plan and include the following projects:

- Under Renewable Energy Resource Acquisition Phase I, GPA entered into two Power Purchase Agreements with now GPS Solar Dandan, LLC to purchase renewable energy generated from the Solar PV farm in Dandan with the aggregate capacity of 25.65 MW in 2015; and
- Under Renewable Energy Resource Acquisition Phase II, GPA entered into Power Purchase Agreements with now KEPCO Mangilao Solar, LLC and HEC Guam, LLC to purchase renewable energy generated from the recently commissioned 60 MW Solar PV farm in Mangilao and a to-be-completed construction of 60 MW Solar PV farm in Malojloj, respectively; and
- Under Renewable Energy Resource Acquisition Phase III, GPA intended to acquire up to 60 MW of renewable capacity with energy storage, installed on predetermined military sites the U.S. Department of Navy has leased to GPA which has recently been cancelled due to Navy's need to use proposed leased lands; and

WHEREAS, Guam Power Authority's Net Metering Program is currently comprised of 30+ MW of renewable generation; and

WHEREAS, under federal grant funding from the U.S. Department of Interior, Office of Insular Affairs GPA constructed its first wind turbine which added 275 KW of renewable energy capacity to GPA's generating fleet in 2017; and

WHEREAS, GPA intends to continue building its renewable capacity in order to meet the RPS goals set forth by Guam Public Law 35-46 and address the following goals discussed in the 2022 IRP:

- Meet or exceed the renewable energy resource portfolio standard adopted by the Guam Legislature; and
- Lower billing volatility by reducing fuel oil price impact on GPA's financial resources and working capital; and
- Diversify its fuel sources for generation and utilize renewables as a part of the implementation; and
- Acquire renewable resources that will result in cost savings to the customers of GPA; and

WHEREAS, the 2022 IRP recommends to initiate procurement for renewable energy contracts for additional annual 300,000 MWh by 2025 and another 300,000 MWh by 2029 to achieve 50% renewables by 2030; and

WHEREAS, GPA has drafted bid documents for Phase IV Renewable Acquisition Multi-Step Bid procurement of renewable energy through a purchase power contract(s) which has been structured against the following:

- Delivery of firm, non-intermittent power from one, or more, renewable generation resources dispatchable with a combined minimum annual energy total of 300,000 MWh and up to 530,000MWH; and
- Acceptable technologies include biomass, hydro, geothermal, solar, wind, ocean thermal, wave action and tidal action; and
- An energy storage system will be co-located with the renewable energy resource for energy shifting primarily to deliver energy produced at another time of the day and also for rapid reserve to respond to under-frequency events; and
- Project(s) must be commissioned within 36 months after contract award; and
- Minimum annual energy production guarantees are required with non-performance subject to a penalty; and
- Requires Bidder to be responsible for all costs related to the system integration study and recommendations from the study for project interconnection; and

WHEREAS, GPA believes these documents form the best procurement option by:

- Ensuring resource capital investment is recoverable through a minimum contract period that extends over a longer period of time; and
- Introducing price competitiveness by allowing various renewable technologies to compete amongst each other; and

- Placing construction risk on bidder which protects ratepayers against construction cost overruns; and
- Eliminating requirement for GPA to make upfront capital investment interconnection of renewable resources which will impact base rate requirements; and
- Evaluating the bid proposals against projected production costs used in the IRP to determine if the bid proposals are economical; and
- Allowing GPA to make selections by resource technology to meet fuel diversification goals; and

WHEREAS, GPA reserves the right to not select any bids that exceed projected production costs; and

WHEREAS, under procurement protocol ordered by PUC, GPA is required to obtain PUC approval for procurement documents for contracts in excess of $1.5 million; and

WHEREAS, the anticipated annual minimum of 300,000 MWh and up to 530,000MWH over 25 years to be acquired under Phase IV of the Renewable Acquisition Project would exceed GPA's contracting authorization of $1.5 million.

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

1. The General Manager is authorized to petition the PUC for review for approval of the Phase IV Renewable Acquisition Multi-Step Bid Documents as prepared by GPA.

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

DULY and REGULARY ADOPTED this 27th day of September 2022.

Certified by: **Attested by:**

JOSEPH T. DUENAS
Chairperson
Consolidated Commission on Utilities

PETER ROY MARTINEZ
Secretary
Consolidated Commission on Utilities

I, **Peter Roy Martinez,** Secretary for the Consolidated Commission on Utilities do hereby certify as follow:

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

AYES: _____
NAYS: _____
ABSENT: _____
ABSTAIN: _____

Gloria B. Nelson Public Service Building| 688 Route 15 | Mangilao, Guam 96913
Tel: (671) 300-6846

Issues for Decision

GPA Resolution No. FY2022-31 / GWA Resolution No. 33-FY2022
Relative to Clarifying the Obligating Authority for the General Managers of the Guam Power Authority and the Guam Waterworks Authority

What is the project's objective and is it necessary and urgent?
The current obligating authority granted to the General Managers of GPA and GWA by the CCU is limited to $1,000,000.00. The objective is to authorize the General Managers an increase in obligating authority to approve change orders which shall not exceed 20% of the originally approved contract amount.

Where is the location?
GPA and GWA agency-wide

How much will it cost?
No cost

When will it be completed?
Upon approval of this Resolution by the CCU.

What is the funding source?
N/A

The RFP/BID responses (if applicable):
N/A

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GPA RESOLUTION NO. FY2022-31
GWA RESOLUTION NO. 33-FY2022

RELATIVE TO CLARIFYING THE OBLIGATING AUTHORITY FOR THE GENERAL MANAGERS OF THE GUAM POWER AUTHORITY AND GUAM WATERWORKS AUTHORITY

WHEREAS, 12 GCA Chapter 79 created the Consolidated Commission on Utilities (CCU) and authorized the Consolidated Commission on Utilities (CCU) to exercise powers vested in them by the laws establishing the Guam Power Authority (GPA) and the Guam Waterworks Authority (GWA); and

WHEREAS, the current obligating authority granted to the General Managers of GPA and GWA by the CCU is limited to $1,000,000; and

WHEREAS, any GPA or GWA expenditure above the $1,000,000 threshold requires the Consolidated Commission on Utilities approval, based on sound justification and prudent governmental and business practices; and

WHEREAS, the CCU desires to streamline and clarify the approval process to allow the General Managers of GPA and GWA to approve change orders not to exceed 20% of the originally approved contract amount that exceeds the $1,000,000 threshold; and

WHEREAS, the 20% threshold is consistent the Public Utilities Commission's practice for PUC approved GPA and GWA projects;

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

1. The General Managers of GPA and GWA are authorized an increase in obligating authority to approve change orders which shall not exceed 20% of the originally approved contract amount.

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

DULY AND REGULARLY ADOPTED AND APPROVED THIS 27th DAY OF SEPTEMBER, 2022.

Certified by:	Attested by:
JOSEPH T. DUENAS	PETER ROY MARTINEZ
Chairperson	Secretary
Consolidated Commission on Utilities	Consolidated Commission on Utilities

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

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

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

GM REPORT

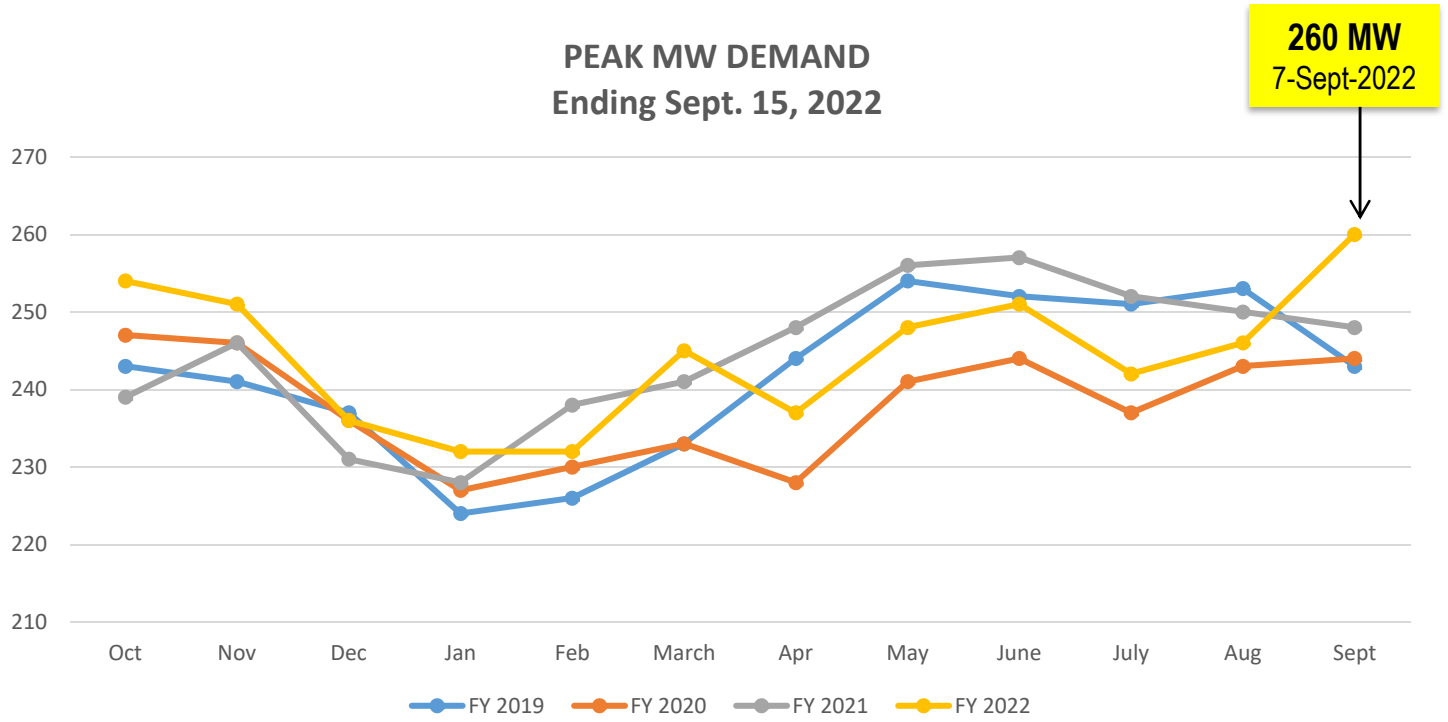
SEPT 2022

Generation Status

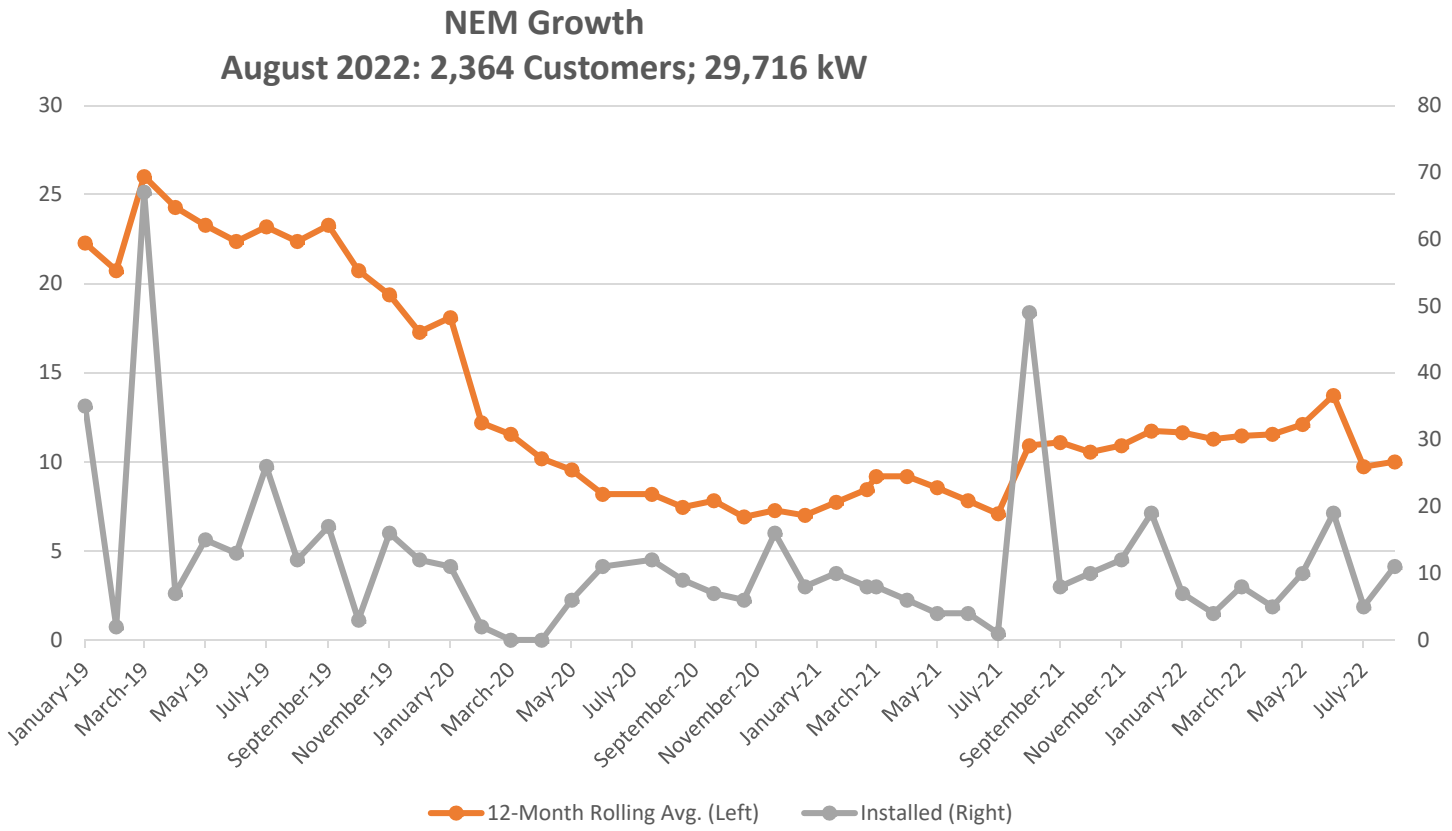
1. **Reserve Margin Forecast for October 2022:**

   Projected Available Capacity: 276 MW
   Projected Demand: 262 MW
   Anticipated Reserve Margin: 14 MW
   Cabras 2 Boiler/Steam Turbine Overhaul begins October 15, 2022 for 50 days

2. **System Peak Demand:**

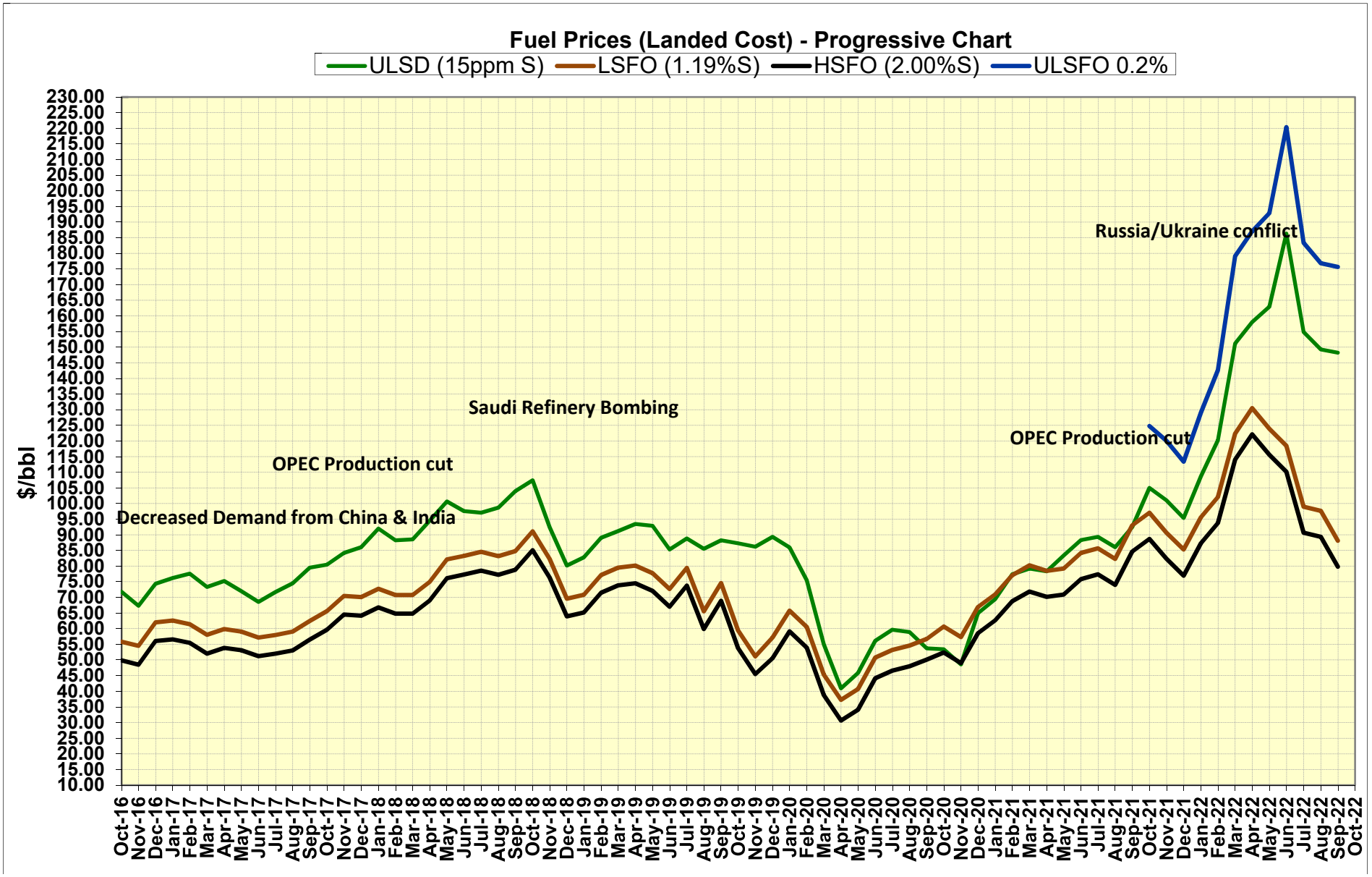


3. Net Metering (NEM) Growth Thru August 2022:



GPA Fuel Landed Cost (Per Barrel) Thru Sept. 14, 2022

4. 0.2% LSRFO $175.63; ULSD $148.26



General Manager's Report (cont'd)

5. PUC Update:

Friday, September 29, 2022 Agenda Items:

- GPA Docket 22-16, Petition for Extension of the Term of the Lease Agreements for Pipeline and RFO Storage with Tristar Terminals
- GPA Docket 22-17, Petition Extension of Dock Facility Agreement with Tristar Terminals
- GPA Docket 22-18, Petition to Extend the Contract for the Management, Operation, and Maintenance of GPA's Fuel Storage Facility with ISLA Petroleum & Energy
- GPA Docket 22-19, Petition to Approve Contract with TEMES for Macheche CT Repairs,
- GPA Docket 22-20, Petition to Approve Bond Refinancing Savings for Capital Lease and O&M Expense of the Ukudu Power Project

6. Energy Sense Rebate Program (ESRP) Application Now Online Update

- August 17, 2022 – Launched online rebate application submission and tracking for residential and commercial customers.
  - Reduces the use of paper, ink and courier services.
  - Improved efficiency saves customers & staff time, expenses, and resources.
  - Currently available to GPA customers under the **rate schedules R, J, and G**.
  - Large Commercial, Government, and Prepaid Residential customers must use existing paper application process. Transition to online submittal process is in the planning stage.
- A step-by-step Online Application Guide and FAQs to aid customers in the online process.
- **Approximately 600 on-line applications have been received from both residential and commercial customers. A report will be generated next month with a breakdown of applications submitted.**

7. Customer Assistance Programs

- $935,803 – Guam Homeowner Assistance Fund Program (HAF)
- $2,924,555 – Emergency Rental Assistance Program (ERA)

General Manager's Report (cont'd)

8. CONSENT DECREE UPDATE

IN PROGRESS

CABRAS 1 & 2 FUEL
Contract Issued
December 31, 2022 COD
Use only 0.2%S LSRFO

UTILITY-SCALE SOLAR
Contracts Issued
Dec 2023 COD
Build additional 100MW solar PV

NEW BASELOAD PLANT
Under Construction
Apr 2024
Build & operate new 198MW power plant using ULSD and capable of burning LNG

CABRAS 1 & 2
Oct 2024
Retire Cabras 1&2

COMPLETED

PENALTY
COMPLETED
$400,000 civil penalty paid, avoiding hundreds of millions in potential fines

DECOMMISSION
COMPLETED
Tanguisson 1&2, and Cabras 3&4 are permanently decommissioned

ENERGY STORAGE SYSTEM
COMPLETED
Install and operate 40MW ESS

FUEL DELIVERY SYSTEM
COMPLETED
Convert RFO to ULSD
Construct new pipeline

PITI 8 & 9
COMPLETED
Convert Piti 8 & 9 to ULSD

General Manager's Report (cont'd)

9. New Power Plant Update: GPA Activities

Completed:

- ECA Amendment: Signed on March 17, 2021.
- Resolution on Section 106 process between Navy/SHPO/GPA (cultural process)
- Archaeological Inventory Survey of Ukudu Site
- Cultural Survey for boring scope fuel/water/power project areas (outside of plant)
- Baseline noise study for Piti 41 MW diesel generator plant site.
- Water Supply and Discharge Agreement signed.
- Approval of research design for boring of proposed site in Piti for diesel generator relocation
- Approval of Archaeological Monitoring & Discovery Plan for pipeline construction
- Public Law 36-91 was signed on 4/11/22 for exemption of construction of Reserve Facility in Piti.
- GHPO Concurrence of Section 106 of the bull cart trails
- Land Lease Agreement was signed by Governor, Lt. Governor and Attorney General on July 6, 2022
- GEPA approves and issues Ukudu Air Permit on 7/20/22 during construction ground breaking ceremony.

Ongoing / Pending:

- Archaeological & Cultural Requirements:
  - ✓ Section 106 process for cultural survey on Navy properties (Harmon Substation) submitted to SHPO by Navy on July 18. Navy to complete NEPA documents once SHPO provides review response to allow for construction activities on the bull cart trails along pipeline route and in the Harmon Substation.
  - ✓ Archaeological monitoring for pipeline construction work (Chaot & Nimitz areas).
- Water & Wastewater Requirements:
  - ✓ Change of Law issues due to update GWA NPDES permit affecting discharge of wastewater from cooling system. Follow up with GWA on the NPDES permit modification.

Critical Path & Risk Items

Cultural Survey
(SHPO Approvals Required)
- Section 106 process required for Navy properties

Delays on Permit Approvals
- Construction Permits
- Air Permit (Reserve Facility)
- NPDES Permit

Construction Mitigation
- For any wetland, biological, cultural or other findings during construction (unknowns)

41 MW Reserve Facility
- **Discussions of revised scope due to increased contracting cost.**

General Manager's Report (cont'd)

9. New Power Plant Update: GPA Activities *(continued)*

- Construction Permit & Drawing Reviews:
  - ✓ Several construction permits received: temporary power (office/construction), new pipeline construction, new plant construction (phases 1-5 of 6 permits submitted).
  - ✓ Phase 5-6 pending GPA approval
  - ✓ Interconnection drawings reviewed with comments, permit for construction approved.
  - ✓ Drawings and material specifications are being reviewed

- **Reserve Facility:**
  - ✓ **Awaiting revised scope and cost for evaluation due to increase contract costs.**

- Air Permit Support:
  - ✓ Assisting with information to support the Reserve Facility permit. GPA to modify Piti 8&9 permit to reduce operating hours allowing planned operational support for the new Piti plant.
    - ✓ Discussing netting analysis and requirements for Piti 8&9 operating hours

- Other:
  - ✓ Geotechnical boring tests at the Piti site completed. **Report pending final comments/review.**
  - ✓ Project Schedule review is ongoing.
  - ✓ Coordination with Navy on excavation activities for pipeline construction
  - ✓ Attending transportation logistic meetings for heavy transport to Ukudu from Port.
  - ✓ **GPA researching easement options to move new pipelines further away from waterways (Sinajana)**
  - ✓ **Contract amendment which primarily addresses construction period for COD reference and includes phosphate treatment additional costs due to Change of Law condition of GWA revised NPDES permit.**

General Manager's Report (cont'd)

9. New Power Plant Update: GUP Activities (Contractor)

Completed:

- EPC Contract – Doosan
- Height Variance for Ukudu Site
- Financing Contracts Signed – Equity Bridge Loan in place. Senior loan requires air permit and land lease legislation for funds drawdown.
- Down payment to Siemens to secure Turbine Order (long lead item)
- Survey maps for land lease recorded at Dept. of Land Management
- Phase I for Ukudu Plant construction permit approved. Foundation work is ongoing.
- GUP issued Notice to Proceed to EPC on May 31, 2022.
- Land Lease Agreement was signed by Governor, Lt. Governor and Attorney General on July 6, 2022
- GEPA approved and issued Ukudu Air Permit on 7/20/22 during construction groundbreaking ceremony.

Ongoing / Pending:

- Design / Permitting
  - ✓ Construction
    - Power Plant – 6 phases of design under review for permitting. Phase 2-6 pending approvals
    - Pipeline – design and material specifications under review.
    - Transmission Line – design and material specifications under review.
  - ✓ Air Permits
    - Piti Reserve Facility – USEPA approved netting plan with restrictions on Piti 8&9 to allow minor source permit. **Application hold pending resolution on Reserve Facility revised scope.**
- Financial Close – **GUP addressing lender concerns. Expected end of September.**
- Procurement – initiating other equipment procurement
- Existing Pipeline Cleaning & Demolition – Pending Route 16 (Airport) to Route 34 evaluation of abandonment plan.
- Reserve Facility Existing Pipeline Cleaning & Demolition – Pending Route 16 (Airport) to Route 34 evaluation of abandonment plan.

General Manager's Report (cont'd)

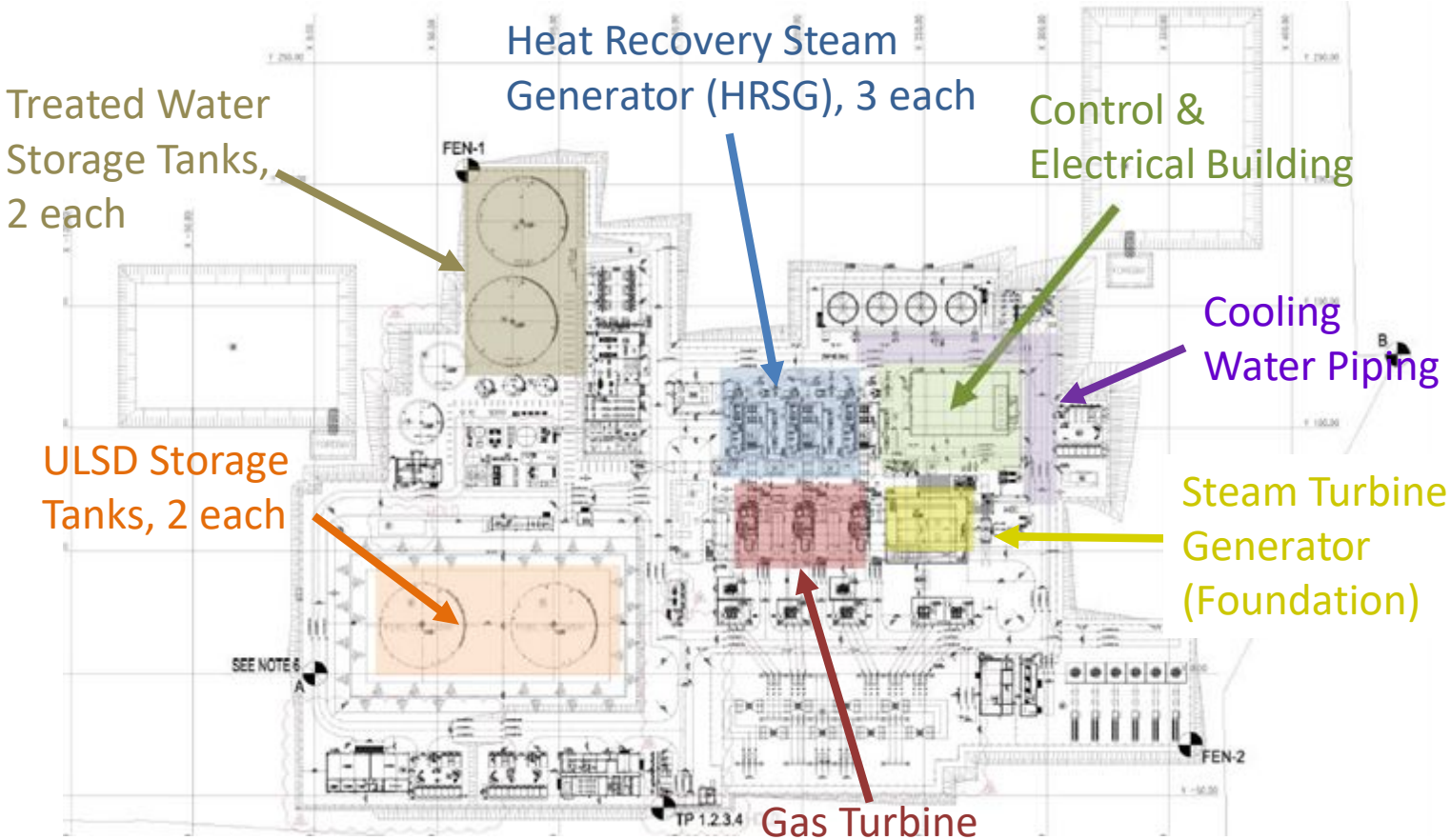
9. New Power Plant Update: GUP Activities (Contractor) *continued*

Ongoing / Pending: *(continued)*

- Schedule Update – Discussions concluded major long lead items have been ordered reducing schedule from delays on financial close.
  - HRSG modules were ready in August but delayed due to transportation plant to Ukudu site. Expected arrival on Guam is early October.
- Transportation Logistics – EPC continues to work with DPW on transport plan from Port to Ukudu site.
  - Bridge analysis dictating required transport equipment.
  - **Temporary bridge to be delivered in October as required by DPW as backup for any bridge damage due to limited alternate routes in some areas.**
  - Transportation will take several hours over several days to move HRSG modules and will affect traffic during movement.
  - Weekly meetings being held to discuss plans and requirements.
  - **25 heavy cargo movements expected thru April 2023.**

Ukudu Power Plant Construction Status

Construction work ongoing with Control & Electric Building, Heat Recovery Steam Generator foundation, Fuel Storage Tanks, Cooling Water Piping, ***Water Treatment Tanks, Gas Turbine Foundations, and Steam Turbine Generator Foundation*** *progressing*



Ukudu Power Plant Construction Status

Control & Electrical Building – Foundation backfilled

Ukudu Power Plant Construction Status

Heat Recovery Steam Generator (HRSG)

HRSG (#1 & #2 of 3) Rebar work & backfill

HRSG (#3 of 3) Foundation backfill & additional rebar work

Ukudu Power Plant Construction Status

ULSD Storage Tank #1 – Rebar work for anchor bolt

ULSD Storage Tank #2 – Anchor bolt in concrete.

Ukudu Power Plant Construction Status

Cooling Water Piping – Tested and backfilled.

Ukudu Power Plant Construction Status

Treated Water Storage Tanks 1 & 2 – foundation work

Ukudu Power Plant Construction Status

Gas Turbines Foundations

GT #1

GT #2

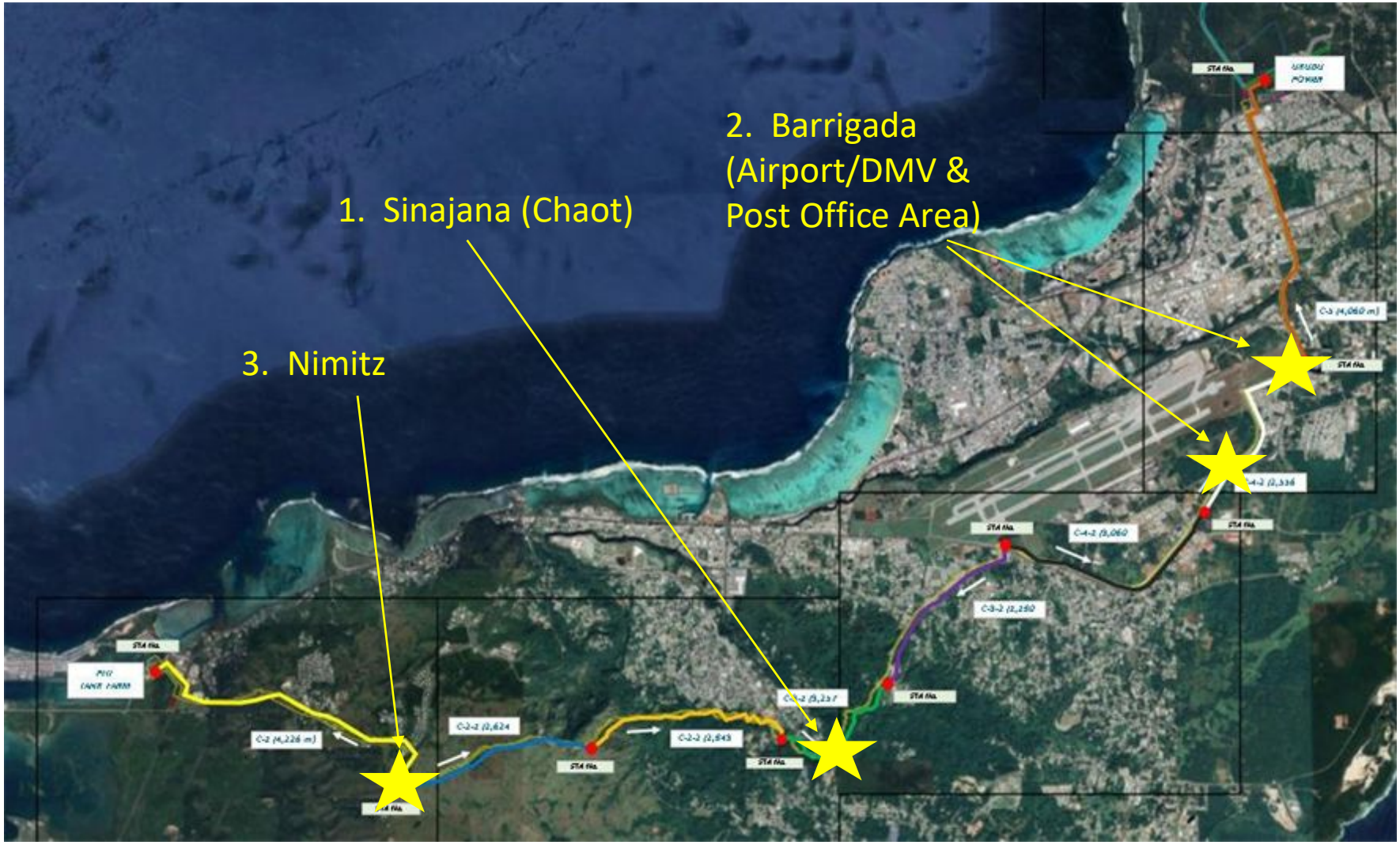
GT #3

Ukudu Power Plant Construction Status

Steam Turbine Generator – Earthwork for foundation preparation.

600 Ton Crane – Assembly ongoing. For heavy equipment installations

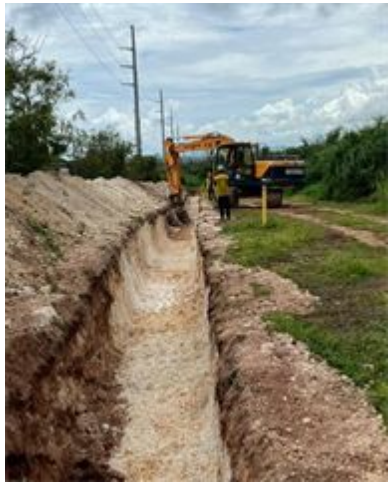
Fuel Pipeline Construction Status



Fuel Pipeline Construction Status

1. Chaot area (100 M)
Backfill and compacting testing completed.

2. Barrigada – Near Post Office
Excavation towards Airport continues.



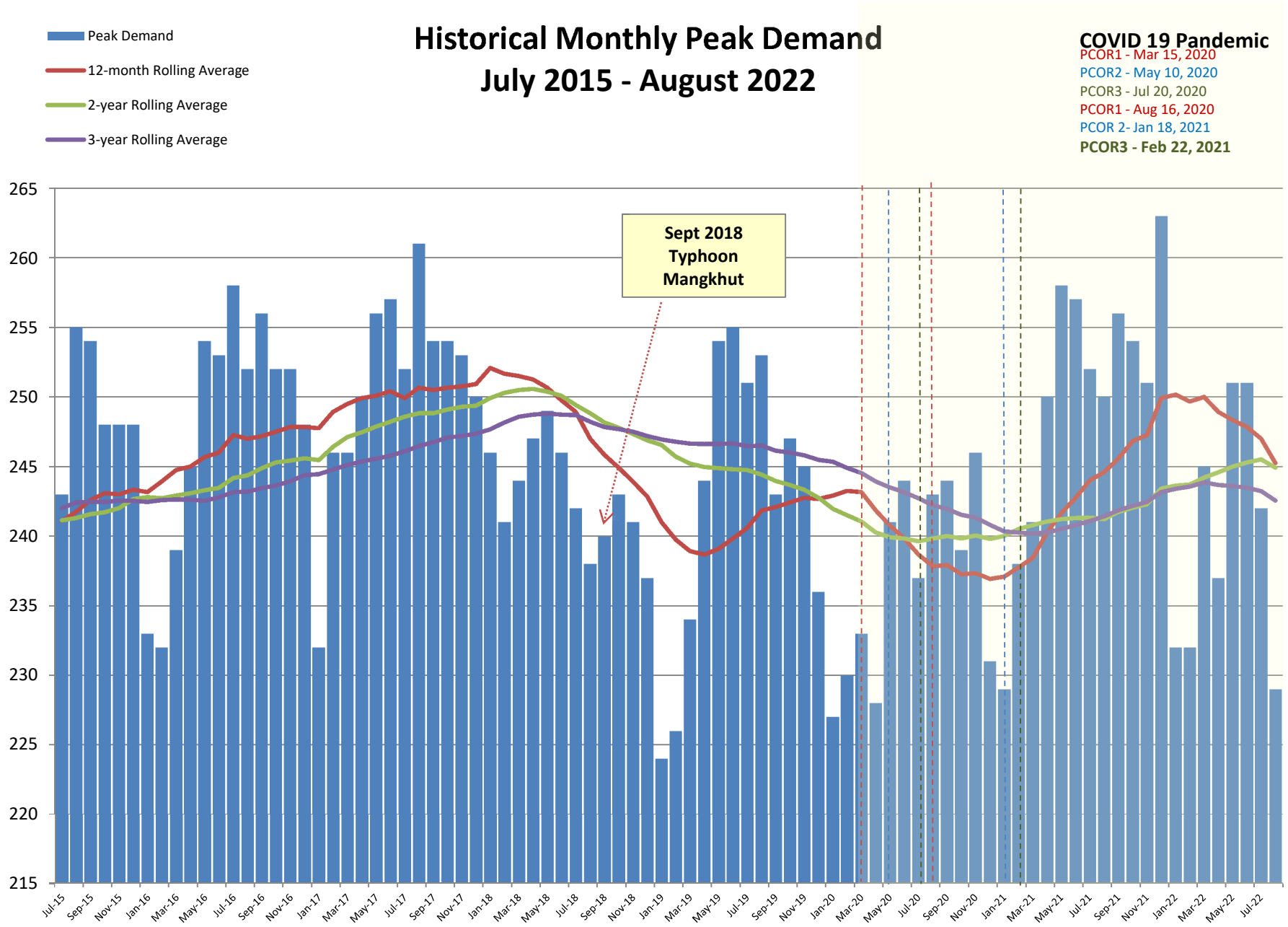
2. Barrigada - Airport / Across DMV
All excavation within Airport fencing completed. Portion of area has completed pipe installation and is backfilled with fiber optic cables being installed

Fuel Pipeline Construction Status

3. Nimitz

Work at Nimitz on hold as staging areas for excavated soils, bedding sand, piping and other materials are being addressed. Crews are also addressing leaking culverts filling trenches.

10. Generation KPIs Update August 2022


Historical Monthly Peak Demand
July 2015 - August 2022
Peak Demand
12-month Rolling Average
2-year Rolling Average
3-year Rolling Average
COVID 19 Pandemic
PCOR1 - Mar 15, 2020
PCOR2 - May 10, 2020
PCOR3 - Jul 20, 2020
PCOR1 - Aug 16, 2020
PCOR 2- Jan 18, 2021
PCOR3 - Feb 22, 2021
Sept 2018
Typhoon
Mangkhut
265
260
255
250
245
240
235
230
225
220
215
Jul-15
Sep-15
Nov-15
Jan-16
Mar-16
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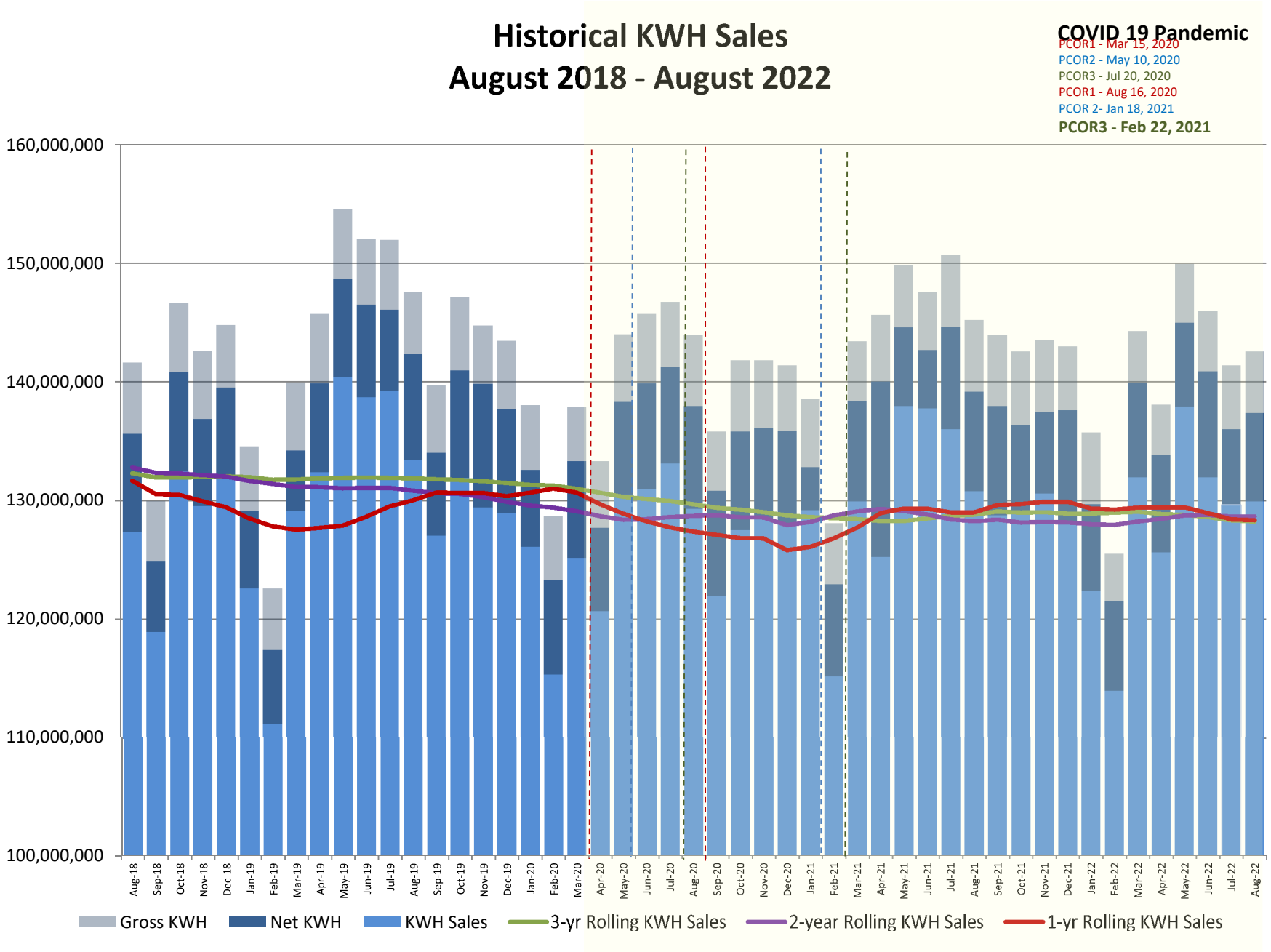
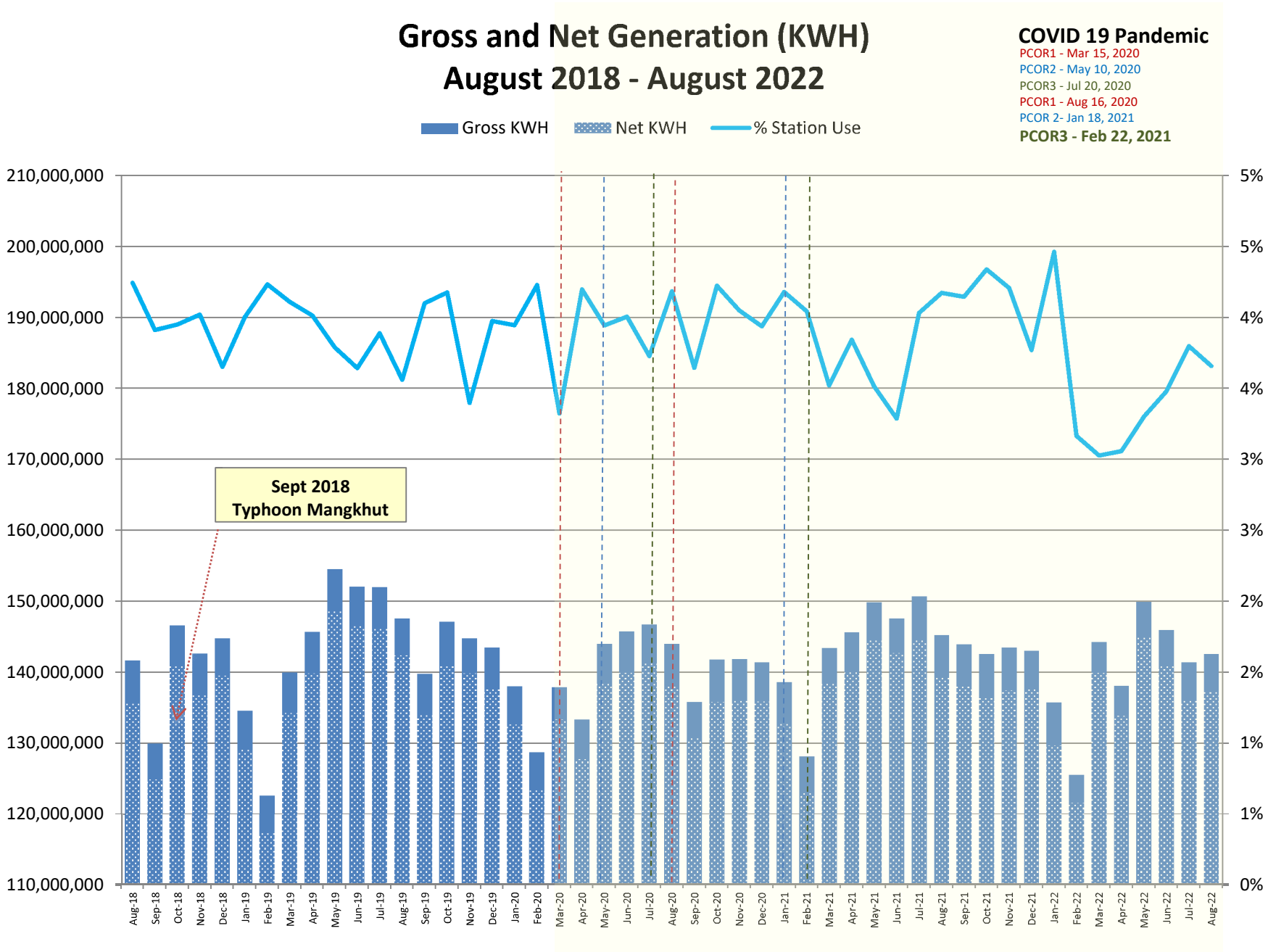

Historical KWH Sales
August 2018 - August 2022
COVID 19 Pandemic
PCOR1 - Mar 15, 2020
PCOR2 - May 10, 2020
PCOR3 - Jul 20, 2020
PCOR1 - Aug 16, 2020
PCOR 2- Jan 18, 2021
PCOR3 - Feb 22, 2021
160,000,000
150,000,000
140,000,000
130,000,000
120,000,000
110,000,000
100,000,000
Aug-18 Sep-18 Oct-18 Nov-18 Dec-18 Jan-19 Feb-19 Mar-19 Apr-19 May-19 Jun-19 Jul-19 Aug-19 Sep-19 Oct-19 Nov-19 Dec-19 Jan-20 Feb-20 Mar-20 Apr-20 May-20 Jun-20 Jul-20 Aug-20 Sep-20 Oct-20 Nov-20 Dec-20 Jan-21 Feb-21 Mar-21 Apr-21 May-21 Jun-21 Jul-21 Aug-21 Sep-21 Oct-21 Nov-21 Dec-21 Jan-22 Feb-22 Mar-22 Apr-22 May-22 Jun-22 Jul-22 Aug-22
Gross KWH
Net KWH
KWH Sales
3-yr Rolling KWH Sales
2-year Rolling KWH Sales
1-yr Rolling KWH Sales


Gross and Net Generation (KWH)
August 2018 - August 2022
Gross KWH
Net KWH
% Station Use
COVID 19 Pandemic
PCOR1 - Mar 15, 2020
PCOR2 - May 10, 2020
PCOR3 - Jul 20, 2020
PCOR1 - Aug 16, 2020
PCOR 2- Jan 18, 2021
PCOR3 - Feb 22, 2021
Sept 2018
Typhoon Mangkhut
210,000,000
200,000,000
190,000,000
180,000,000
170,000,000
160,000,000
150,000,000
140,000,000
130,000,000
120,000,000
110,000,000
5%
5%
4%
4%
3%
3%
2%
2%
1%
1%
0%
Aug-18
Sep-18
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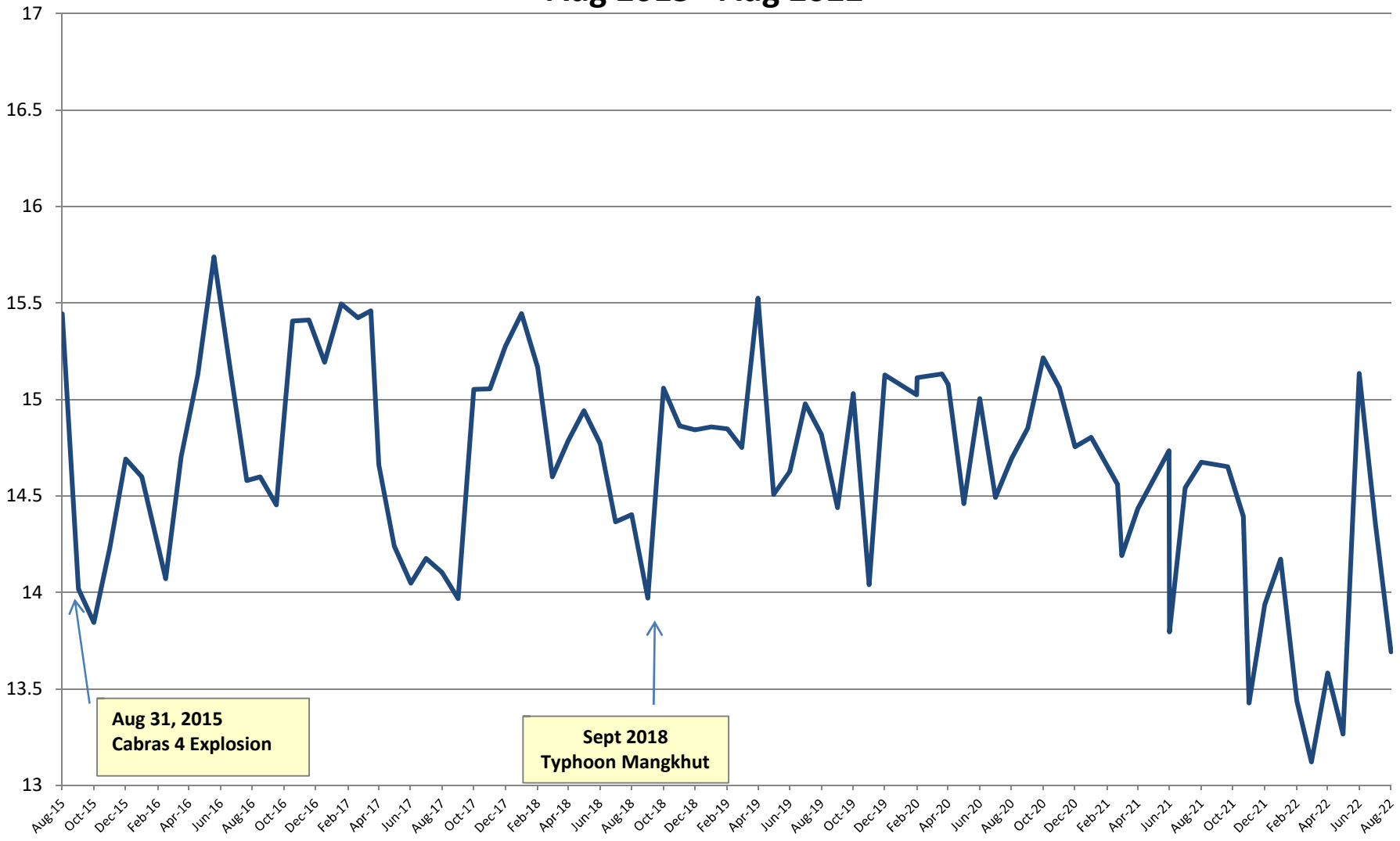
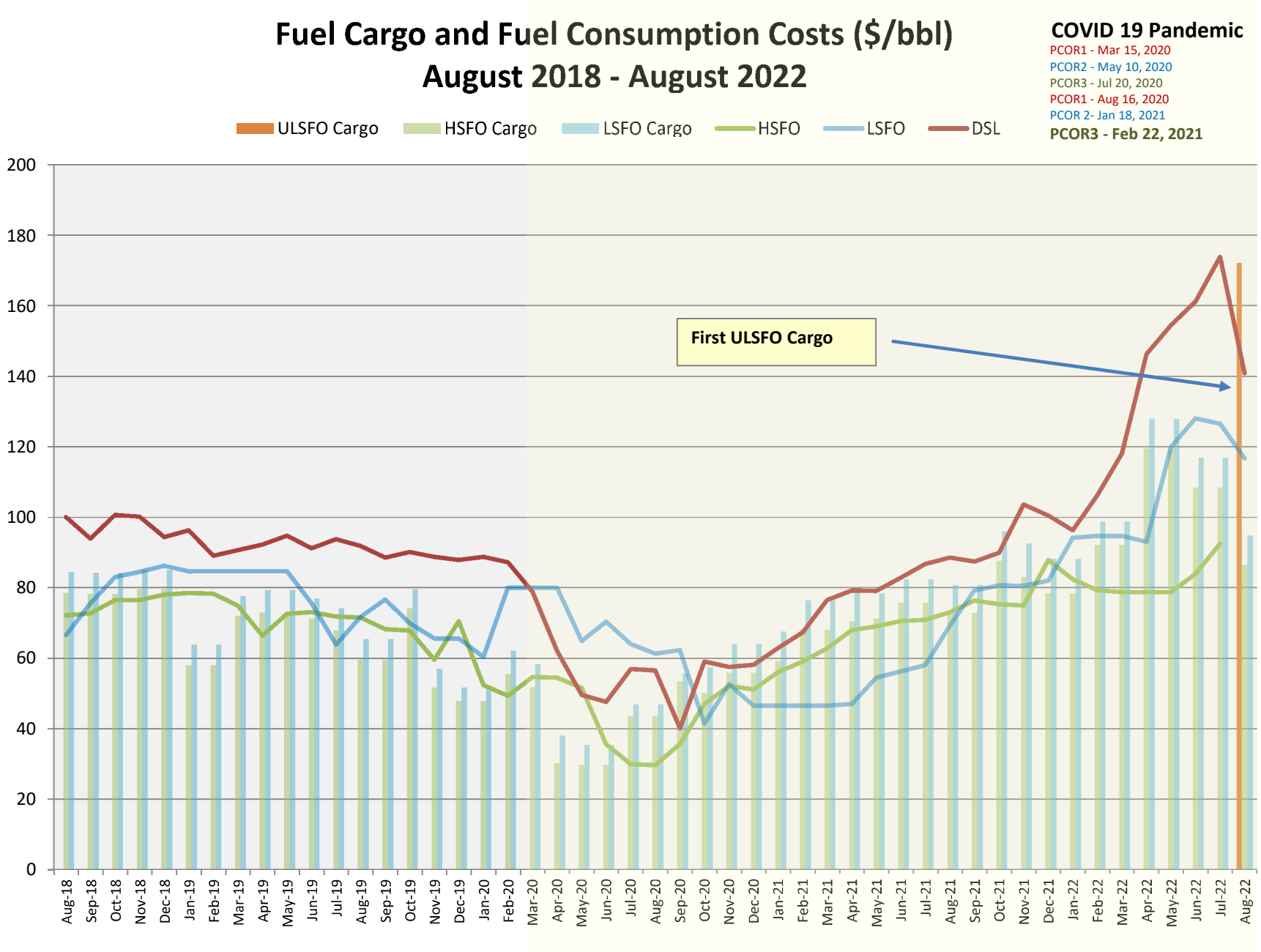
Mar-22
Apr-22
May-22
Jun-22
Jul-22
Aug-22

SYSTEM GROSS HEAT RATE
(kWh/Gal)
Aug 2015 - Aug 2022




Fuel Cargo and Fuel Consumption Costs ($/bbl)
August 2018 - August 2022
ULSFO Cargo
HSFO Cargo
LSFO Cargo
HSFO
LSFO
DSL
COVID 19 Pandemic
PCOR1 - Mar 15, 2020
PCOR2 - May 10, 2020
PCOR3 - Jul 20, 2020
PCOR1 - Aug 16, 2020
PCOR 2- Jan 18, 2021
PCOR3 - Feb 22, 2021
First ULSFO Cargo
200
180
160
140
120
100
80
60
40
20
0
Aug-18
Sep-18
Oct-18
Nov-18
Dec-18
Jan-19
Feb-19
Mar-19
Apr-19
May-19
Jun-19
Jul-19
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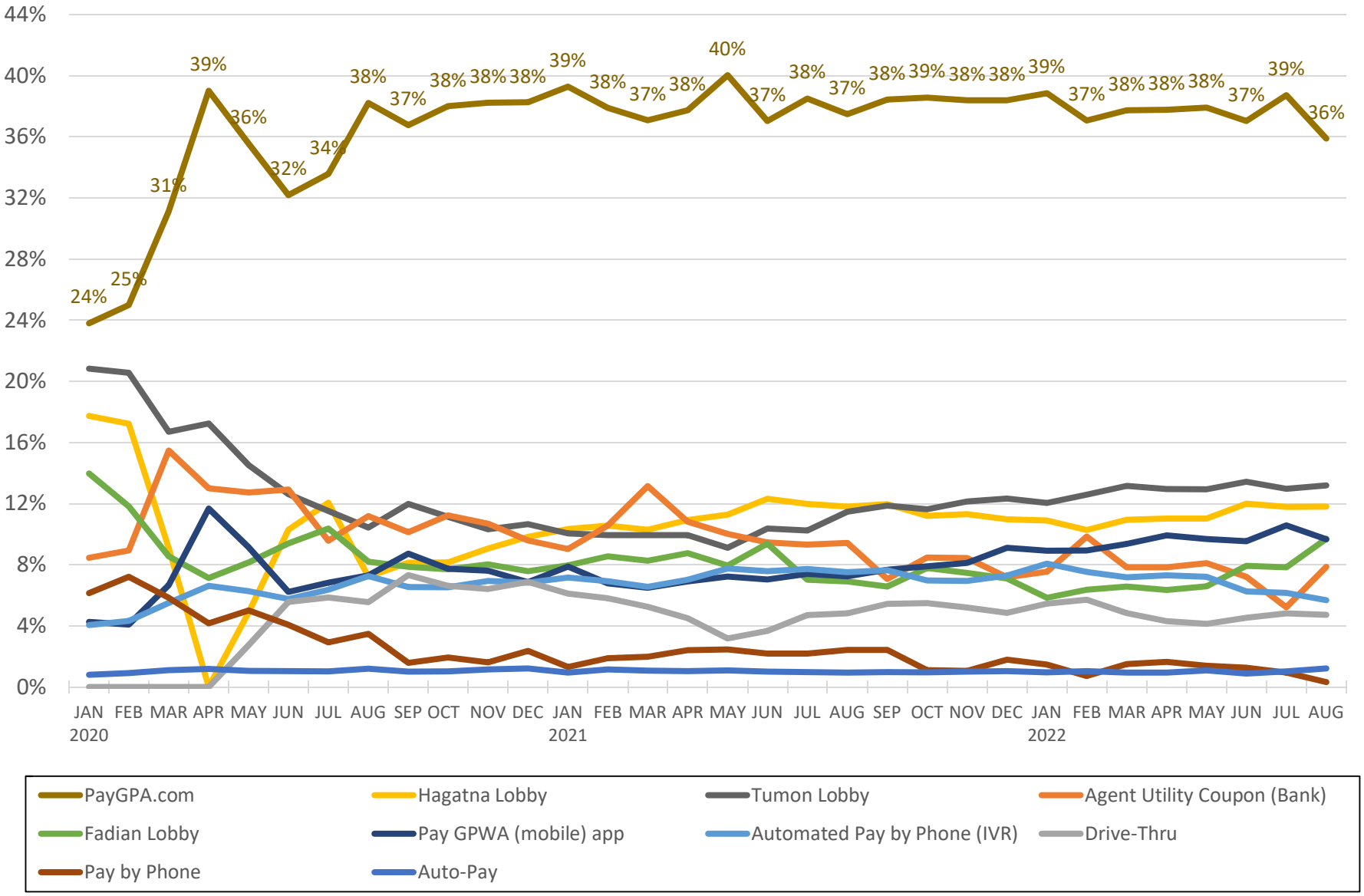
Jun-22
Jul-22
Aug-22

Customer Service (Administration Division)

Percentage of transactions by collection point
January 2020 - August 2022

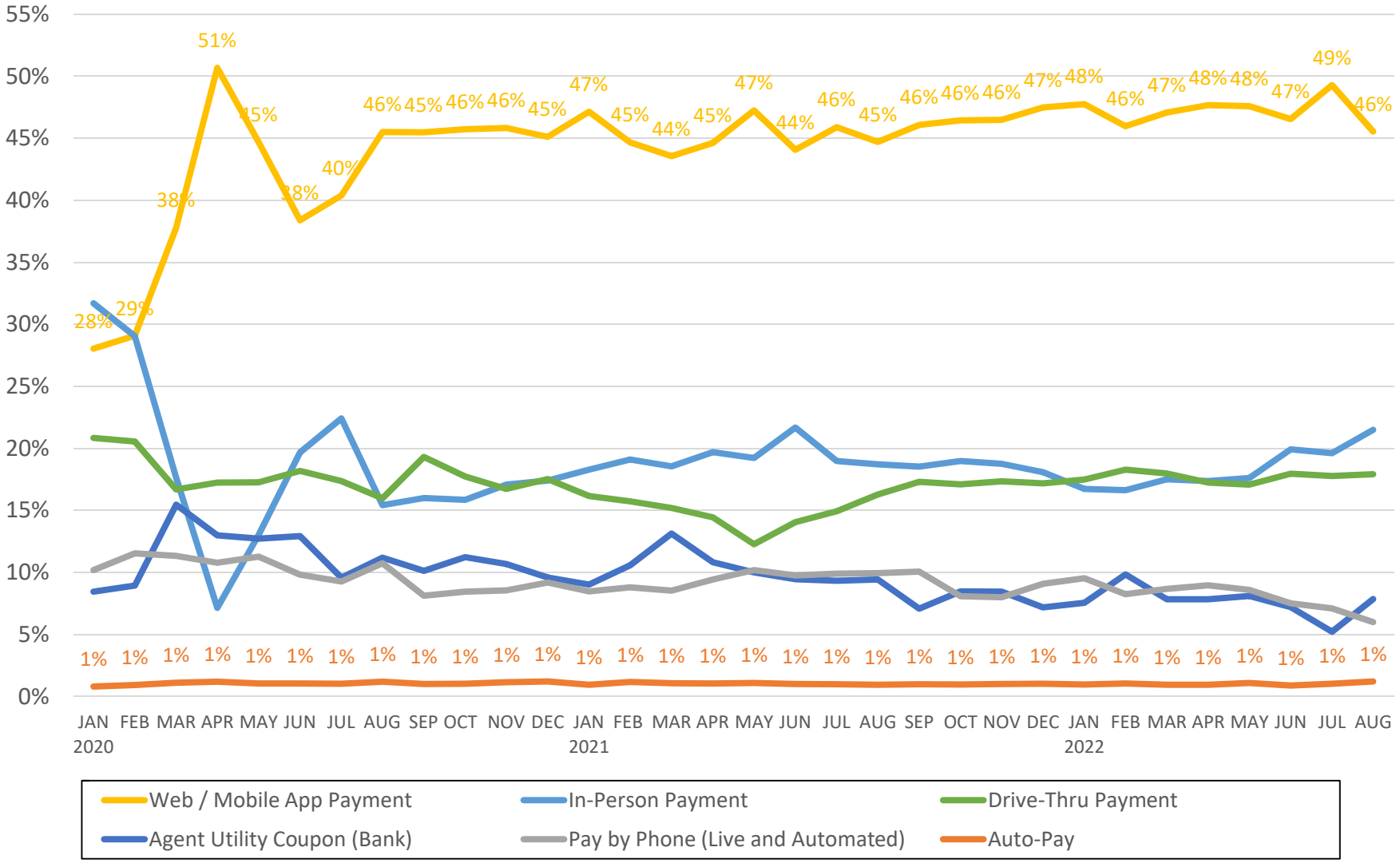


Customer Service (Administration Division)

Percentage of transactions by collection platform type

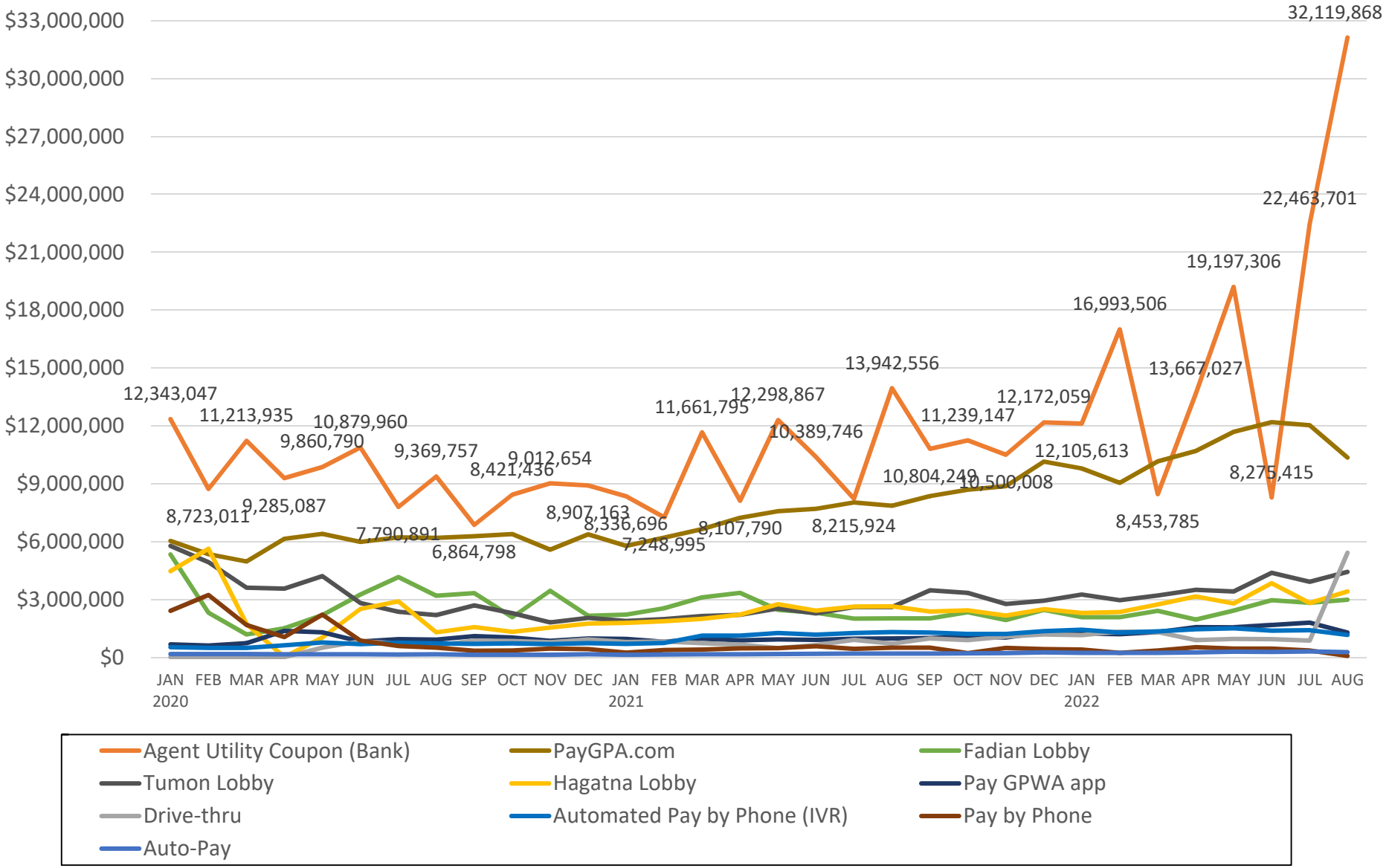
(KPI 1.2.4 – Increase web, pay-by-phone, and prepay payments)

January 2020 - August 2022



Customer Service (Administration Division)

Dollar amount collected per collection point
January 2020 - August 2022

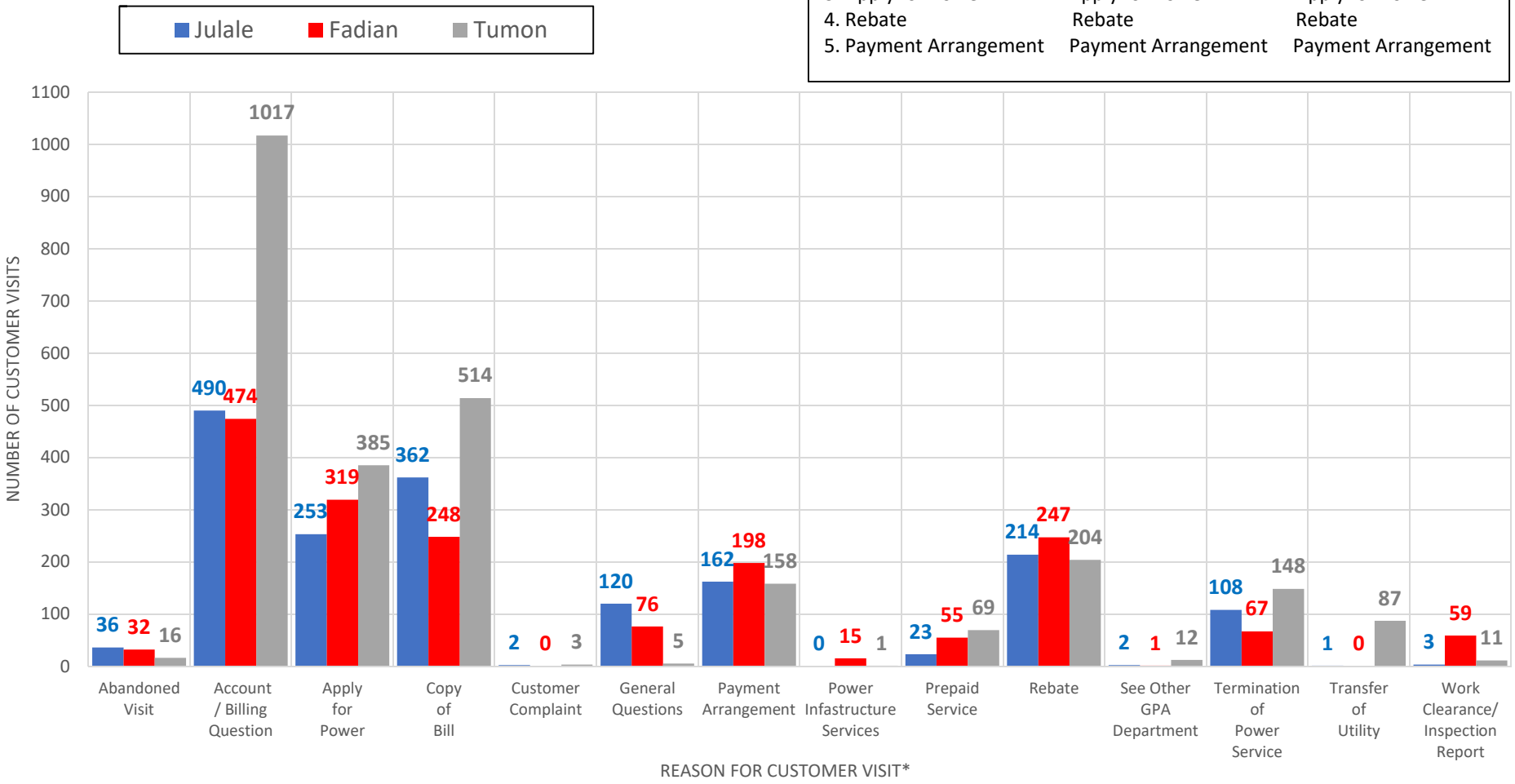


Customer Service (Administration Division)

Reason for Visit by Location
August 2022

Top 5 Reasons for Visit by Location

Hagatna	Fadian	Tumon
1. Acct / Billing Question	Acct / Billing Question	Acct / Billing Question
2. Copy of Bill	Copy of Bill	Copy of Bill
3. Apply for Power	Apply for Power	Apply for Power
4. Rebate	Rebate	Rebate
5. Payment Arrangement	Payment Arrangement	Payment Arrangement

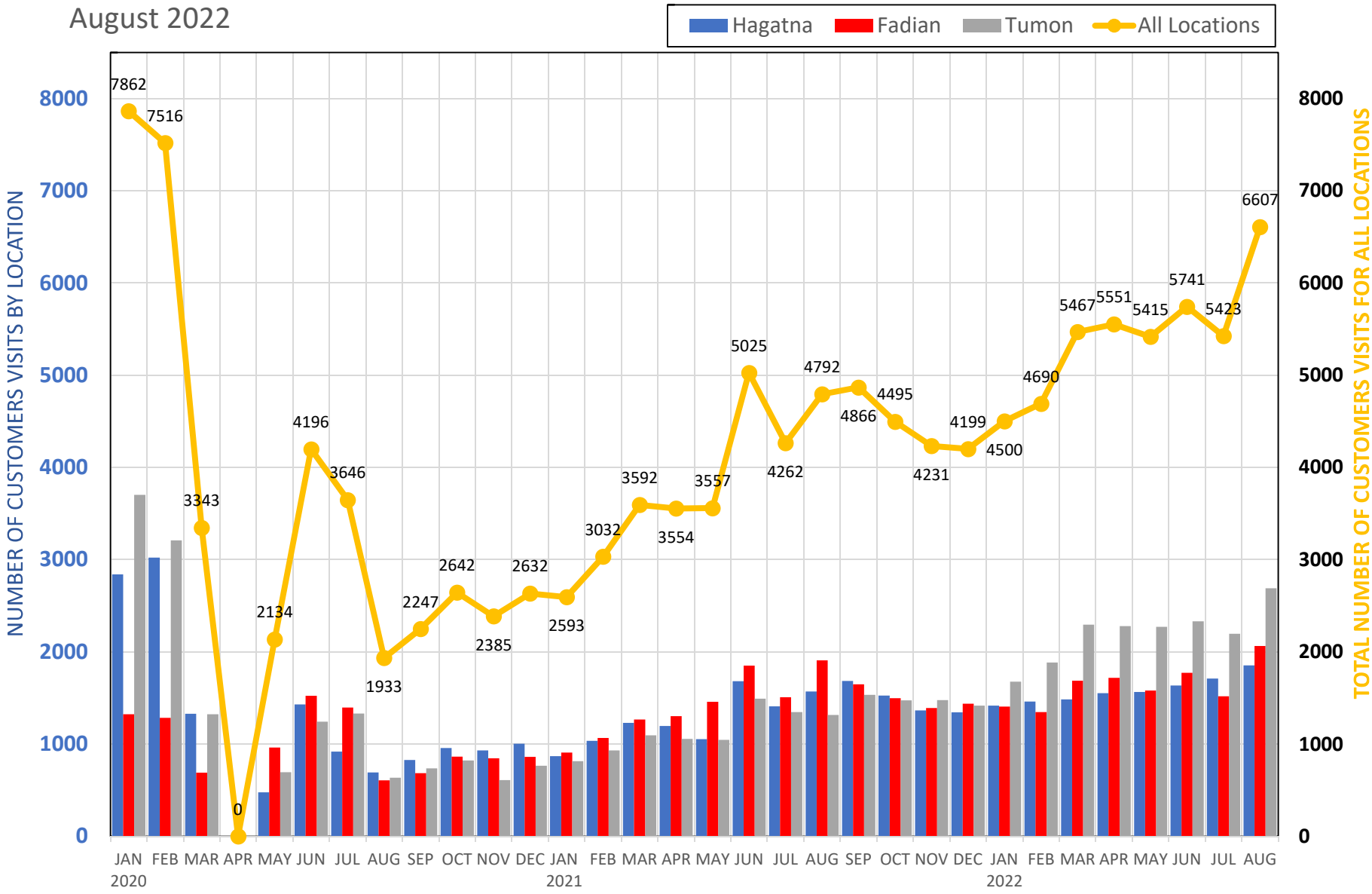


*Each count per **Reason for Customer Visit** represents a customer who visits one of our lobbies. During their visit, the customer will only be counted once, regardless of the number of services provided to the customer. Their reason for visit will be coded based on their initial or primary reason for 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)

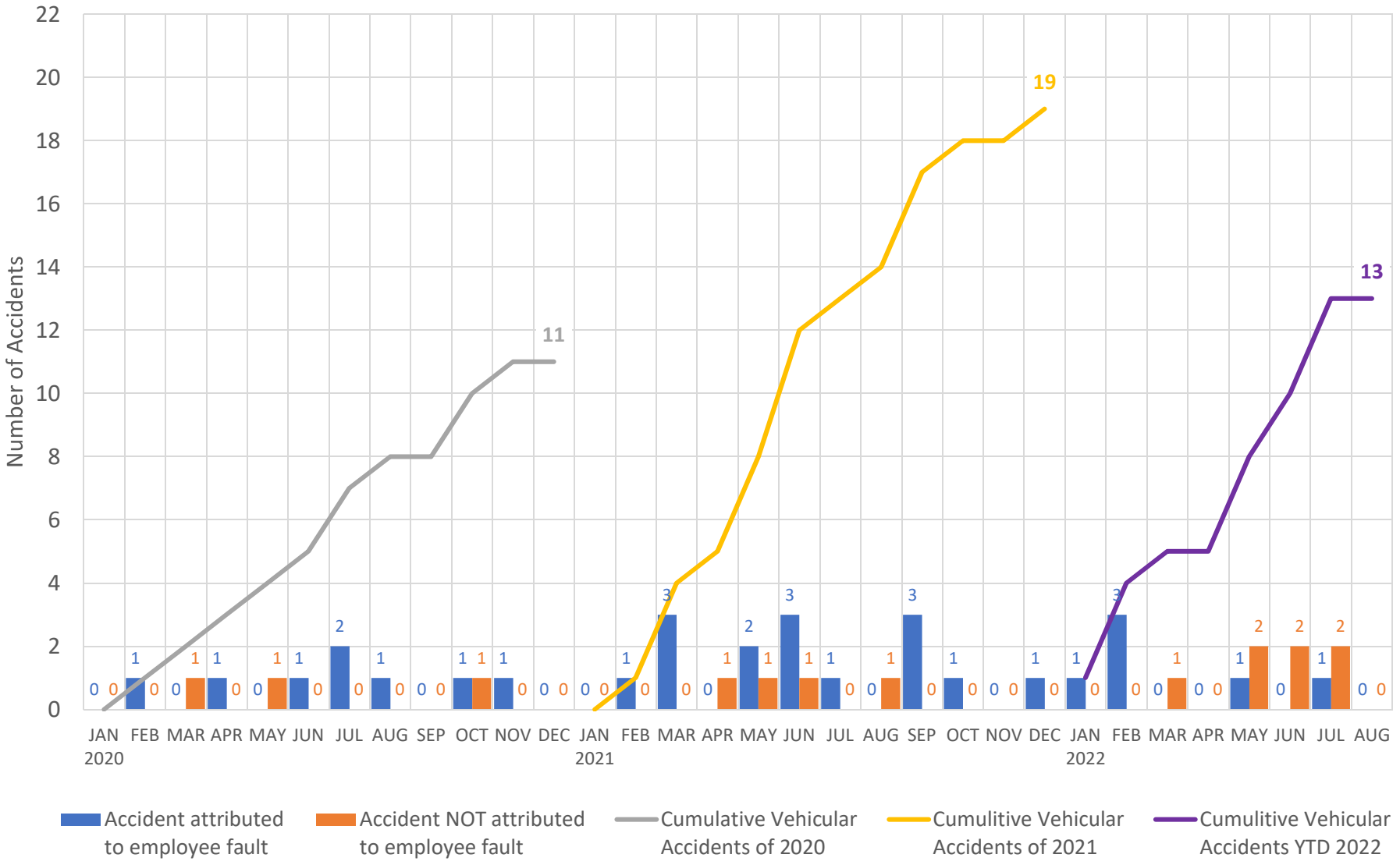
Lobby Traffic by Location (KPI 1.2.3. Reduce Service Center Traffic)

August 2022



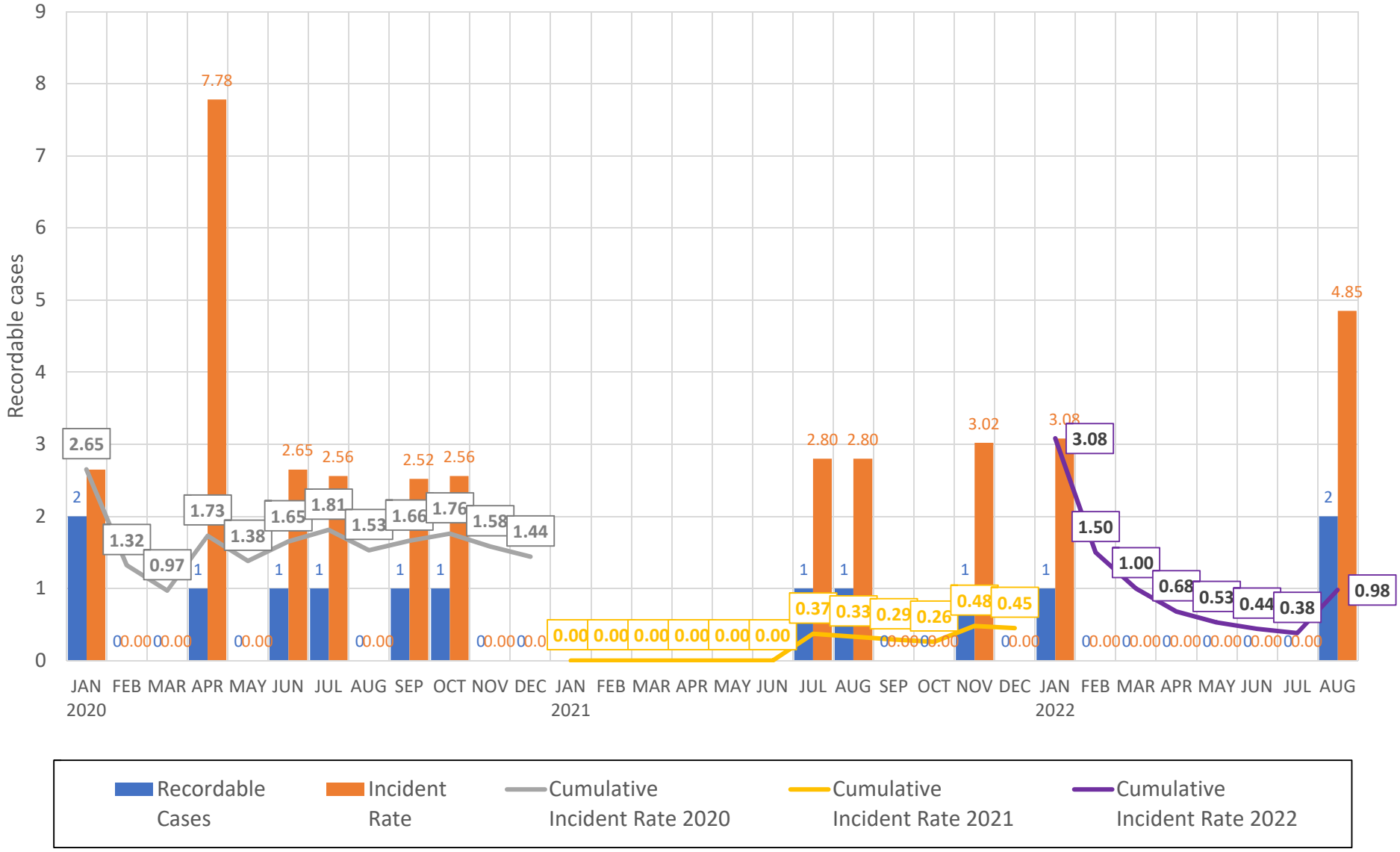
Safety (Administration Division)

Vehicular Accidents
August 2022



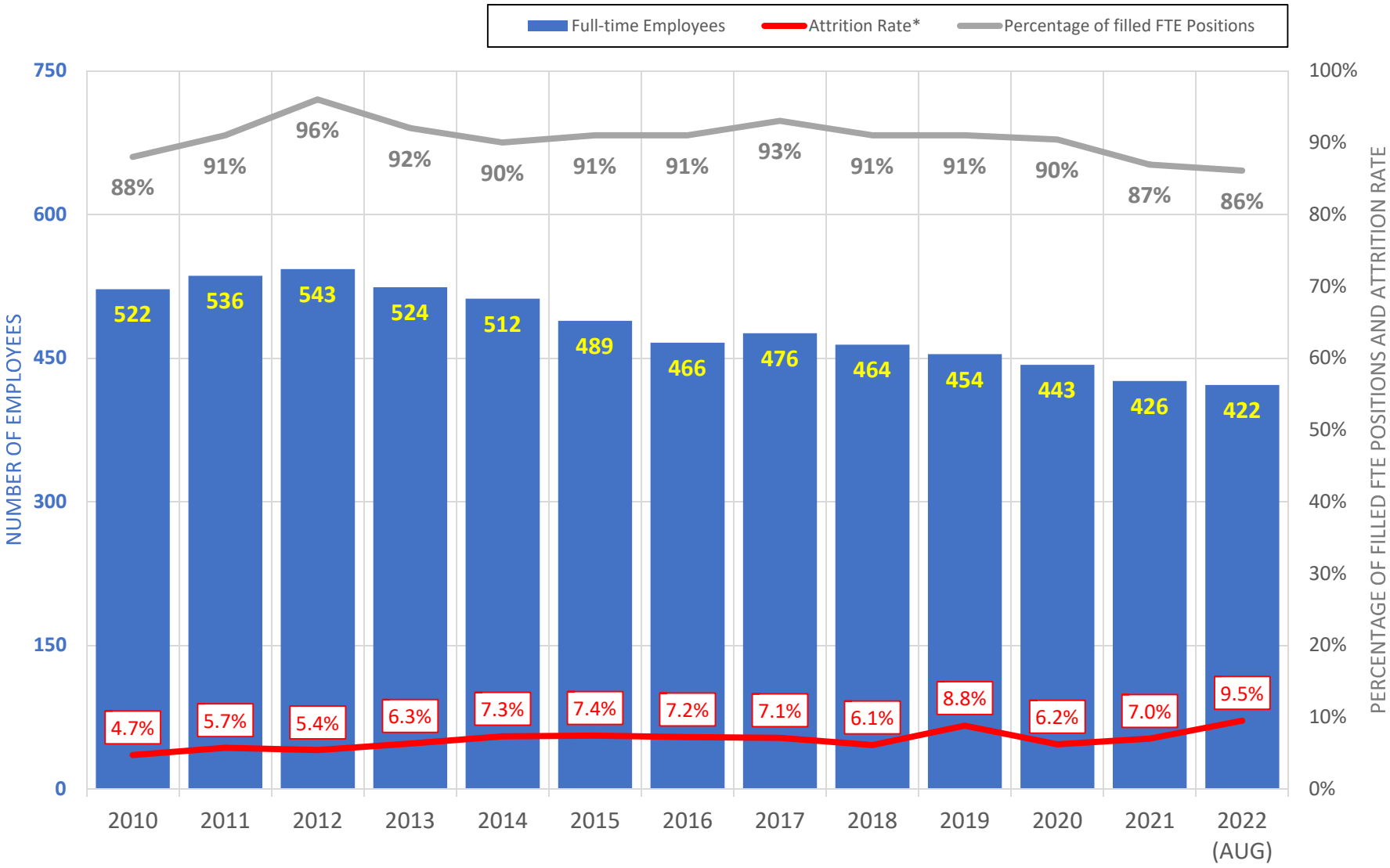
Safety (Administration Division)

Incident Rate
August 2022



Human Resources (Administration Division)

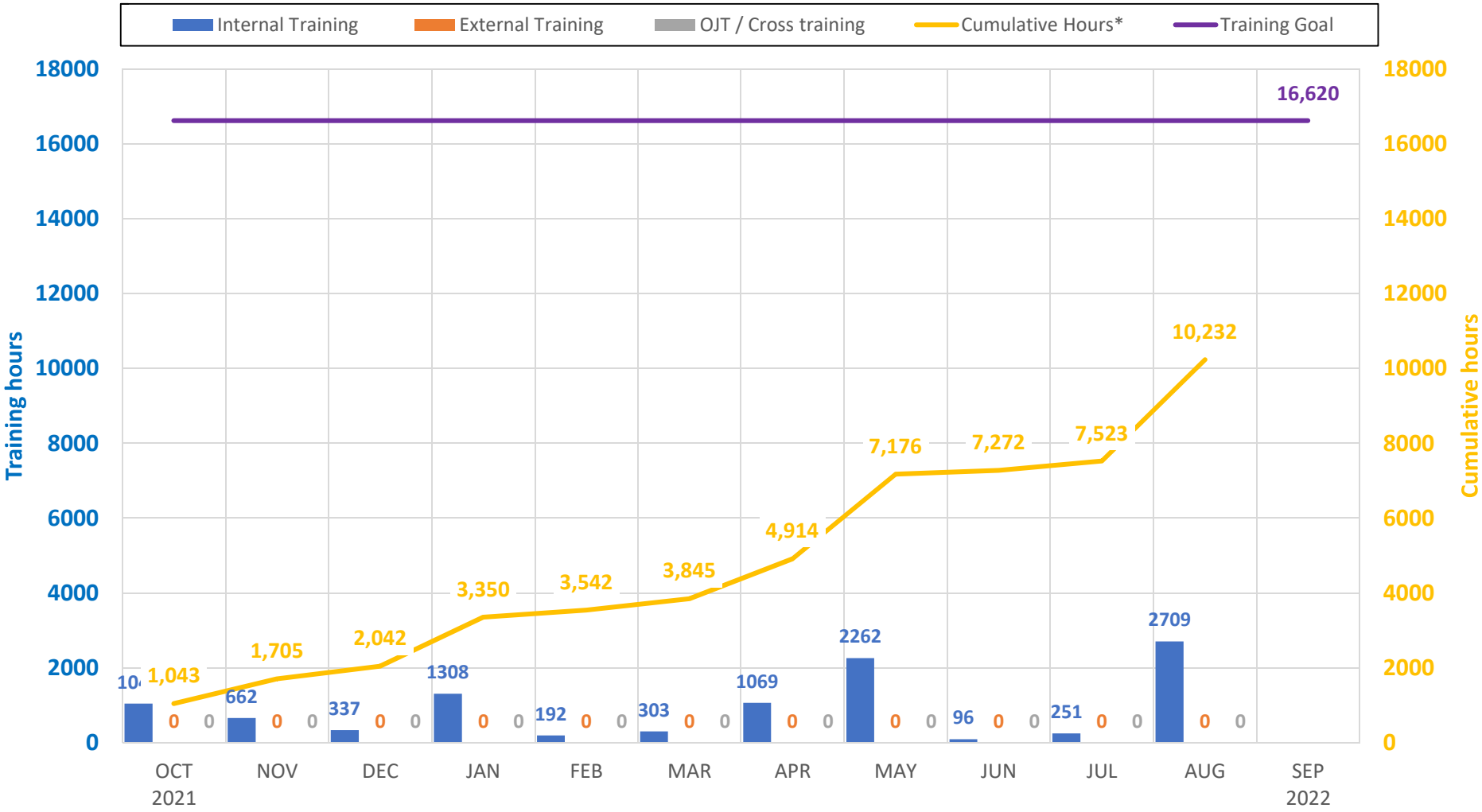
Recruitment Analysis
August 2022 (FY 2022)



*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 August 2022



*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 August 2022, GPA has achieved **61.56%** progress towards its cumulative hours training goal.

Human Resources (Administration Division)

Attrition listing

4th Quarter – FY 2022

Probational Appointments

Date of Hire	Name of Employee	Position reclassified to	Section	Division
August 1, 2022	Taryn C. Guzman	Personnel Specialist IV	Human Resources	AGMA
August 29, 022	Luana T. C. Meno	Personnel Specialist IV	Human Resources	AGMA

Reclassifications / Promotions

Date of Reclassification	Name of Employee	Position reclassified to	Section	Division
July 17, 2022	Dwayne E. Aquino	Plant Maintenance Mechanic Leader	Generation	AGMO
July 17, 2022	Jay A. Aguero	Plant Electrician Leader	Generation	AGMO

Transfer & Promotion

Date of Promotion	Name of Employee	Position promoted to	Section	Division
July 14 , 2022	Joshua D. Manibusan	Personnel Specialist IV	Human Resources	AGMA
August 30, 2022	Joleen Cruz	Administrative Officer	Public Info. Office	Executive

In-House Training Program

Date of Hire	Name of Employee	Position	Section	Division
August 7, 2022	Weneisom Landstrom	Trainee, Plant Operator – Maint. Worker	Generation	AGMO

Human Resources (Administration Division)

Attrition listing

4th Quarter – FY 2022

Resignation / Separations

Date of Resignation/ Separation	Name of Employee	Position	Section	Division
July 15, 2022	Frank E. Santos	Plant Instrument Technician Leader	Generation	AGMETS
July 29, 2022	Jay Curtis N. Mesa	Electric Power System Dispatcher I	PSCC	AGMO
August 6, 2022	Weneisom Landstrom	Safety Inspector I	Safety	AGMA
August 6, 2022	Shane B. Tenorio	Line Electrician II	T&D/Underground	AGMO
August 26, 2022	Jamie A. Alicto	Utility Cashier I	Cash Management	CFO

Retirements

Date of Retirement	Name of Employee	Position	Section	Division
July 1, 2022	Honorio O. Estira Jr.	Special Projects Engineer	Engineering (Project Management)	AGMETS
July 2, 2022	Marcelo D.G. Limfueco	Plant Maintenance Mechanic II	Generation (Cabras 1&2)	AGMO

Procurement (Administration Division)

Notable **RFP** monthly status update
August 2022

RFP NO.	DESCRIPTION	DATE ADVERTISTED	RFP Closing	STATUS (as of 07/31/2022)
GPA-RFP-21-008	Application support services	09/09/2021 09/16/2021	10/07/2021 @ 4pm	On hold: Pending management approval
RE-SOLICITATION GPA-RFP-21-010	Engineering, Procurement & Construction Management (EPCM) Contract	03/24/2022 03/31/2022	05/06/2022 @ 4pm	In progress: Pending price proposal submission due 9/23/2022
GPA-RFP-22-004	Utility Resource Planning Software	04/21/2022 04/28/2022	05/19/2022 @ 4pm	In progress Pending bid committee evaluation
GPA-RFP-22-005	GPA Independant Financial Audit Services	07/28/2022 08/04/2022	09/01/2022 @ 3pm	In progress

Procurement (Administration Division)

Notable **IFB** monthly status update
August 2022

IFB NO.	DESCRIPTION	DATE ADVERTISTED	BID OPENING	STATUS (as of 07/31/2022)
Re-bid GPA-043-21	Protection Relays	07/12/2022 07/19/2022	08/03/2022 @ 11am	In progress: Pending bid recommendation memo
Re-bid GPA-045-21	Integrated Communications Optical Network	07/12/2022 07/19/2022	08/10/2022 @ 10am	In progress: Under evaluation, pending bid recommendation memo
GPA-048-21	New, 2021 65 Foot 4x4 Bucket Trucks	06/17/2021 06/24/2021	07/07/2021 @ 11am	Cancelled: For Re-bid. Change in specifications.
Re-bid GPA-028-22	Streetlight Heads	07/19/2022 07/26/2022	08/09/2022 @ 10am	In progress: Pending bid evaluation
Re-Bid GPA-036-22	Removal and Assembly of a New Gas Turbine Exhaust Plenum	05/19/2022 05/26/2022	07/14/2022 @ 10am	In progress: Bid opening scheduled for 09/23/2022
Re-bid GPA-037-22	Plant Service Air Compressors	07/28/2022 08/04/2022	08/11/2022 @ 10am	In progress: Supplemental bid opening scheduled for 09/14/2022
Re-bid GPA-038-22	Liquid Fuel Flow Divider	07/28/2022 08/04/2022	08/11/2022 @ 2pm	In progress: Under evaluation
GPA-043-22	Laptops	06/23/2022 06/30/2002	07/12/2022 @ 2pm	In progress
GPA-045-22	Rugged Tablets	06/28/2022 07/05/2022	07/13/2022 @ 2pm	In progress: Bid under evaluation
GPA-046-22	Pole Mounted Transformers	06/23/2022 06/30/2022	07/13/2022 @ 11am	In progress: Bid under evaluation
GPA-047-22	Wire	07/12/2022 07/19/2022	08/04/2022 @ 10am	In progress: Bid evaluation committee recommendation memo

Procurement (Administration Division)

Notable **IFB** and **MS Bid** monthly status update
August 2022

IFB NO.	DESCRIPTION	DATE ADVERTISTED	BID OPENING	STATUS (as of 06/30/2022)
GPA-048-22	Power Multi-function Measuring Instrument (PMM-1)	07/12/2022 07/19/2022	08/17/2022 @ 10am	In progress: Bid evaluation committee recommendation memo
GPA-051-22	Piti 7 Gas Turbine Power Plant with the Replacement of New and/or Refurbished Starting Diesel Engine	07/28/2022 08/04/2022	08/25/2022 @ 10am	In progress: No solicitation, working with End-User to Re-Bid
GPA-052-22	Miscellaneous Electrical Materials	08/23/2022 08/30/2022	09/14/2022 @ 2pm	In progress
GPA-053-22	Pad Mounted Transformer	08/11/2022 08/18/2022	08/30/2022 @ 10am	In progress: Pending committee recommendation memo
GPA-057-22	Wires	08/30/2022 09/06/2022	09/14/2022 @ 10am	In progress
Re-Bid MS-GPA-012-22	Diesel Fuel Oil No.2 for GPA's Water Systems Distribution (WSD) and GWA Emergency Generators	03/17/2022 03/24/2022	STEP 1 04/29/2022 @ 2pm	In progress: Pending CCU approval
Re-bid MS-GPA-015-22	Performance Management Contract for the GPA Fuel Bulk Storage Facility	06/02/2022 06/09/2022	STEP 1 09/23/2022 @ 4pm	In progress
MS-GPA-055-22	Environmental Emergency Response Services	08/04/2022 08/11/2022	STEP 1 09/08/2022 @ 2pm	In progress: Technical evaluation
Re-Bid GPA-SS-002-22	Miscellaneous Surplus Salvage	06/23/2022 06/30/2022	07/12/2022 @ 11am	In progress: Notice to proceed 08/29/2022 Completion date 09/16/2022

Procurement (Administration Division)

Bid Protests & Appeals Status

August 2022

PROTESTS

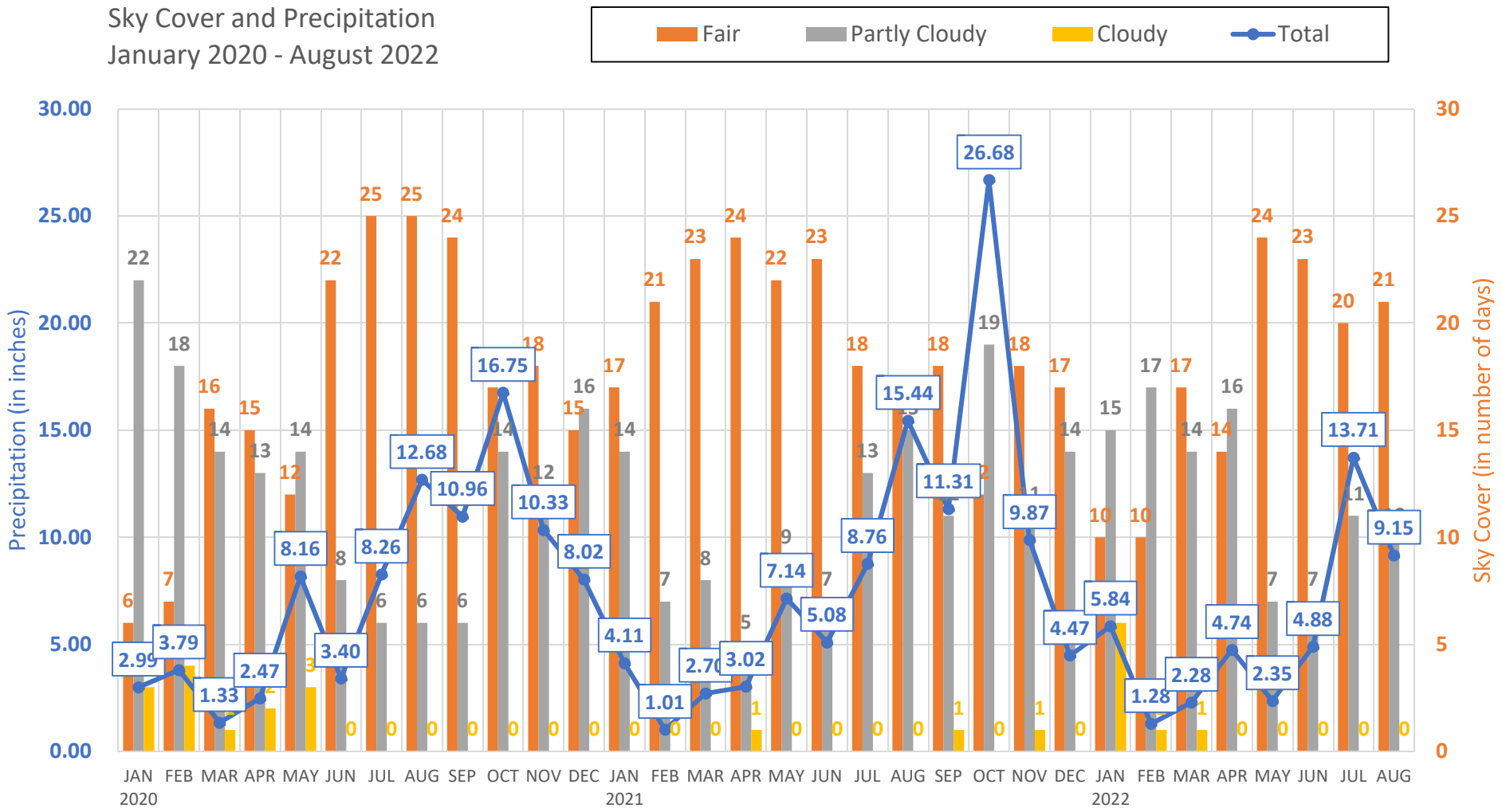
IFB, MS BID, or RFP	BID NUMBER	DESCRIPTION	FILER	Stay of Procurement Issue Date	Stay of Procurement Lift Date	Status/Comments
IFB	GPA-IFB-081-18	2018, 2-Wheel Steel Body Step Van	Morrico	05/01/2018		Roberts Fowler & Visosky Office filed protest
IFB	GPA-IFB-081-18	2018, 2-wheel steel body step van	Morrico	06/15/2018		Roberts Fowler & Visosky Office filed protest
IFB	GPA-IFB-043-20	Voice & Data Services	Pacific Data Systems	06/09/2020		Pending legal action with revised bid specifications as of 05/19/2022
IFB	GPA-IFB-059-21	Substation Network Switch	Pacific Data Systems	09/09/2021		Pending Legal Determination
IFB	GPA-IFB-057-21	Bolts, Double Arming, Galvanize 5/8" x 20"	R&D Marketing	09/10/2021		Pending Legal Determination
IFB	GPA-014-22	Desktop Computers	Pacific Data Systems	02/21/2022		Pending Legal Determination

APPEALS

IFB, MS BID, or RFP	BID NUMBER	DESCRIPTION	OPA or Civil Case No.	Notice of Appeal Receipt Date	Notice of Appeal Hearing Date	Status/Comments
RFP	GPA RFP-21-002	Professional Print, Mailing and Processing Services Related to Utility Customer Billing	OPA-PA-21-012	10/25/2021		Pending Superior Court Decision

Guam Climate Summary

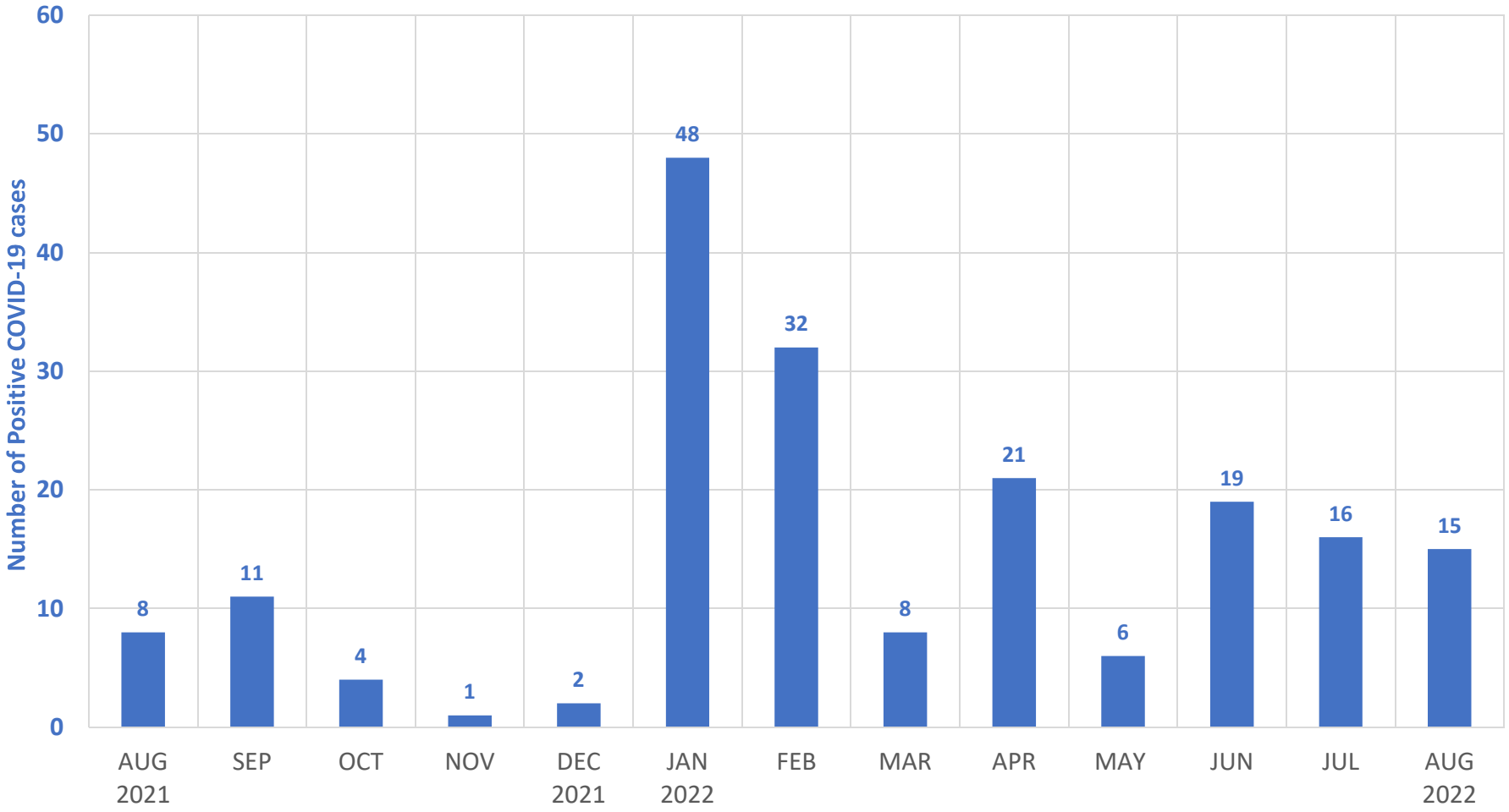
Sky Cover and Precipitation
January 2020 - August 2022



		Temperature (in Fahrenheit)			Precipitation (in inches)		Sky Cover (in days)			Weather Conditions (no. of days with)						Weather Event	
Month	Year	High	Mean	Low	Total	Greatest 24-hour	Fair	Partly Cloudy	Cloudy	Thunder storm	Heavy Rain	Rain	Light Rain	Fog	Haze	Name	Day
AUG	**2022**	**88**	**80.9**	**73**	**9.15**	**2.31**	**21**	**10**	**0**	**4**	**6**	**14**	**28**	**0**	**0**	**Invest Area 93W**	**17**

Number of Positive COVID-19 cases per month

August 2021 - August 2022



AGMA Division

On-going projects for August 2022

	STATUS	TREND
Customer Service		
Customer Engagement *- Concentrated focus on energy saving tips, audits, and tools to encourage demand-side management.*		▲
Customer Service CSOnline (via Prithibi) *- Provided feedback to Prithibi, further website developments underway.*		▲
Human Resources		
GPA Self Service (via Prithibi) - GPA CITO looking into other options for self-service site instead of having site build from scratch by Prithibi.		—
Content Experience Cloud (CEC) / DocuSign / Oracle Cloud - Prithibi has completed the HR site for CEC document access. HR to provide additional details to further develop site.		▲
Safety		
Comprehensive Security Plan for Guam's Critical Energy Infrastructure grant award *- Grant work is proceeding as planned.*		▲
GPWA Physical Security Proof-of-Concept by Sheffield Scientific *- Sheffield Scientific providing bi-weekly updates and work is on-going.*		▲
Vulnerability of Integrated Security Analysis (VISA) Workshop *- Workshop is completed in August 2022.*		▲
Procurement		
Content Experience Cloud (CEC) DocuSign / Oracle Cloud *- Buyers testing business solutions and providing recommendations for better integration.*		—
Business Process Review *- In progress, pending draft of website/portal.*		—
Warehouse		
Salvage bid *- Supply – COMPLETED, Substation (transformers) – IN PROGRESS, Transportation and Cabras – AWAITING BID AWARD.*		▲
Annual Physical Inventory *- Completed in August 2022..*		▲
Business Process Review *- Prithibi provided update report to IMO for review and implementation of recommendations.*		▲

STATUS		
GOOD	NEUTRAL	POOR

TREND		
▲ Improving	— Cautious	▼ Worsening

PLANNING & REGULATORY DIVISION REPORT

The following summarizes P&R's activities for the month of August 2022

INSPECTIONS/MONITORING

- Best Management Practices (BMP) Weekly Inspection/Report – Cabras Power Plant
- Monthly Spill Prevention, Control and Countermeasures (SPCC) Inspection/Report – Cabras Power Plant, Macheche, Dededo, Yigo CT, Talofofo, MDI, Tenjo Diesel, Piti 7 Power Plants, IP&E fuel Farm.
- Reviews monthly Continuous Emissions Monitoring System (CEMS) report and monitors TRC's O & M for Tenjo Diesel. Coordinates Operations and Maintenance with TRC.
- Emissions and Limits Tracking for GPA and 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
- Conducted inspection and took oil sample of old Navy T -44 transformer in Harmon Substation

DERA Grant (Diesel Emissions Reduction Act)

- Finalized Spec Sheet and forwarded to Transportation for further processing

ENVIRONMENTAL DISPOSAL & MITIGATION

- Coordinate Used oil draining and hauling for Cabras Tank 3
- Prepared scope of work for bid of the Tank 1935 bottom soil sampling project
- ADV removal project – update:
    - Fiberglass and composite wastes removal completed

ENVIRONMENTAL RESPONSE

- Responded to Oil Spill at Yigo Diesel. Diesel Tank #1

NPDES/316b

- Docket No. CWA-09-2022-005: Intake Measurements at for Cabras Intake 1A & 1B by Environmental Monitors (August 12, 2022)

PROCUREMENT

Coordination with procurement on the following bids/continuing contracts:

- OR# 36280 – Used Oil Transfer and Hauling Services- Completed
- OR#33750 – Environmental Emergency Response Contractor- Bid is on going
- OR# 35319 Environmental Engineering and Technical Services – Submitted SOW to Procurement
- GPA 039-22 Tank 1935, Tank Bottom Soil Sampling- Waiting for NTP

- GPA-RFP-21-010 Engineering, Procurement & Construction Management Contract – Committee Member

REPORTING

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

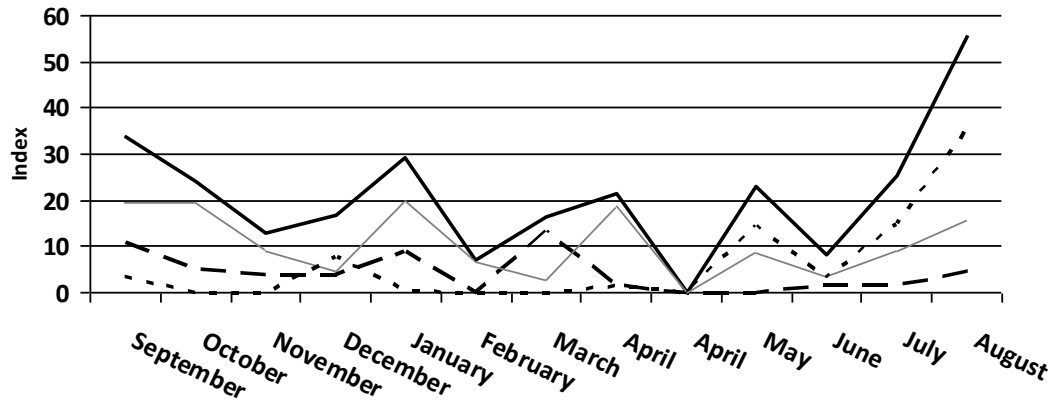
UKKUDU POWER PLANT

- Weekly update conference calls:
    - Prep Call between GPA and Stanley
    - Permitting and status updates (Power Plant and Pipeline) with contractors
    - GPA Internal discussions with Stanley
- Other
    - Pipeline Abandonment plan along Rt. 16
        - Meetings with contractors

OTHER

- Engineering Internship Program – Continuation of training and fieldwork. SPCC Inspection and reporting at power plants.
- Aboveground Storage Tank (AST) permit renewal (RY2022) – Permit payment to GEPA, awaiting issuance of permit certificate
- Acquired New AST Permits for RY 2022-2023 from GEPA.
- GEPA issued "Permit Exemption" for the Fence Restoration and site preparation works at Piti Tank Farm (damage due to USEPA & GEPA ADV project)
- Submit IWPS and Daily Production Data (Renewable Energy) to Guam EPA

(Item 1.1,1.2,1.5) August 2022 SAIDI = 273.56 ↑ (254.00)



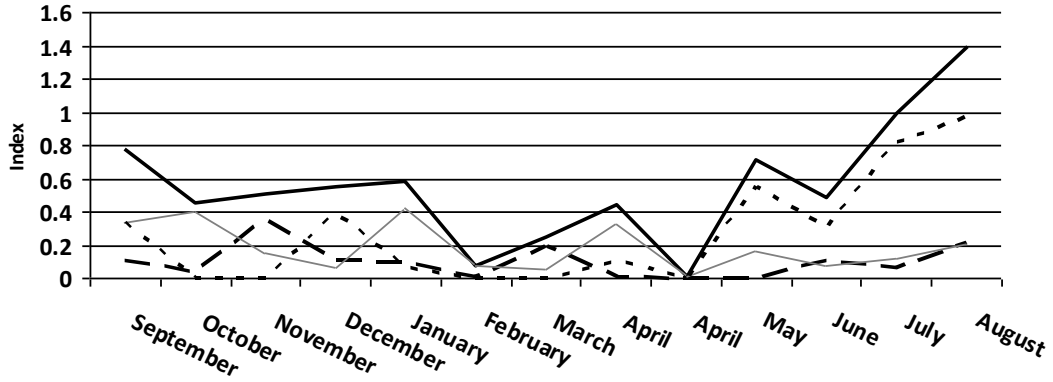
ALL

GEN=80.80 ↑ (47.65)

TRANS=54.93 ↑ (51.31)

DIST=137.83 ↓ (155.03)

(Item 1.1,1.2,1.5) August 2022 SAIFI = 7.24 ↑ (6.79)



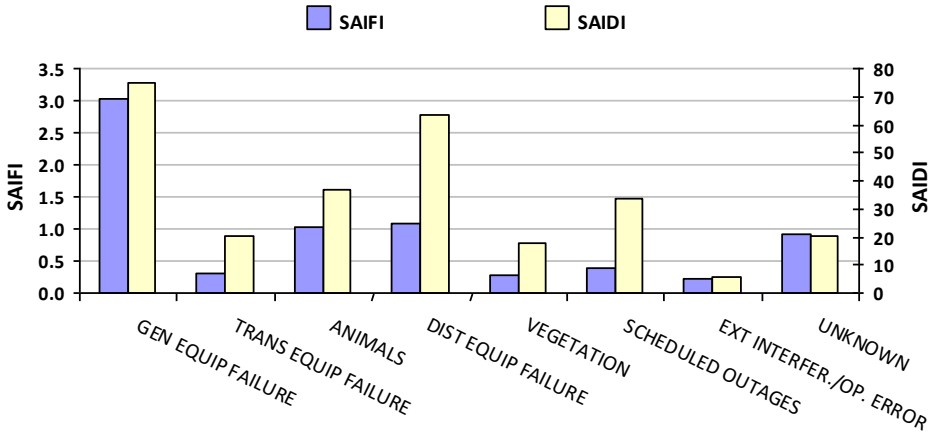
ALL

GEN=3.54 ↑ (2.86)

TRANS=1.31 ↑ (1.13)

DIST=2.39 ↓ (2.79)

(Item 1.9) 12 Month Cause Contributions to Reliability



GEN EQUIP FAILURE
F:39.4% D:27.3%

TRANS EQUIP FAILURE
F:5.3% D:7.5%

ANIMALS
F:12.3% D:13.6%

DIST EQUIP FAILURE
F:13.7% D:23.3%

VEGETATION
F:3.5% D:6.6%

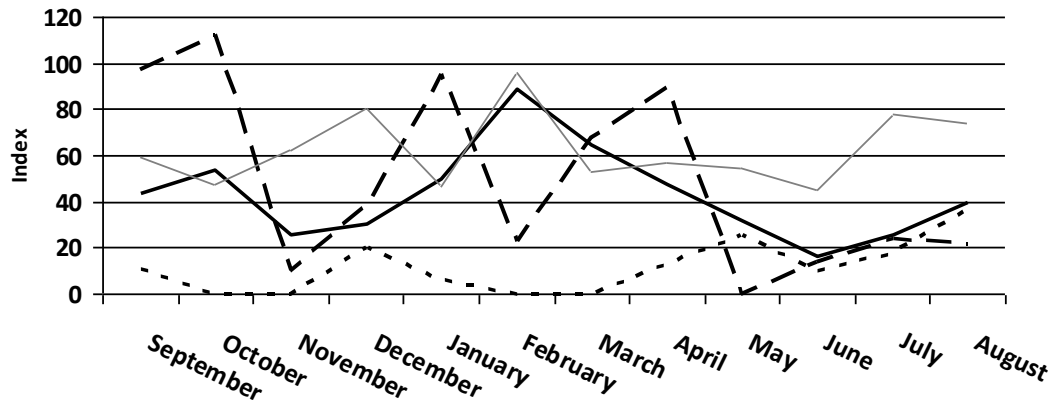
SCHEDULED OUTAGES
F:9.3% D:12.4%

EXT INTERFER./OP. ERROR
F:3.2% D:2.0%

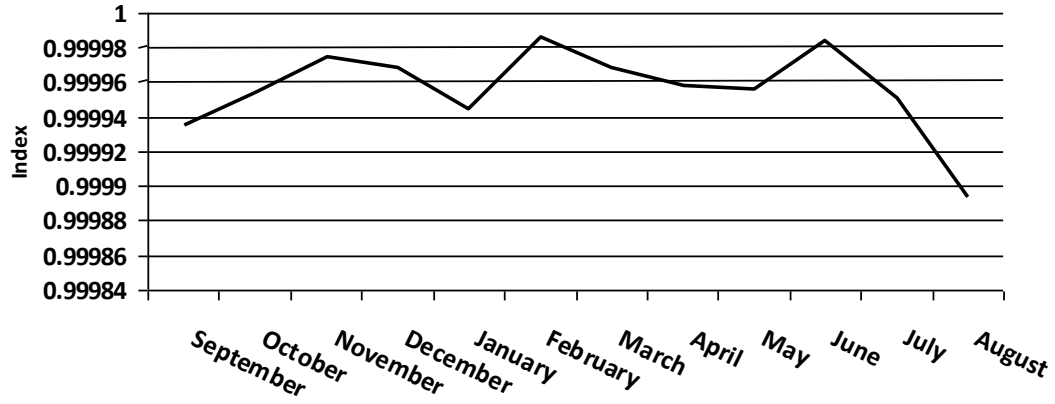
UNKNOWN
F:13.2% D:7.4%

As of August 31, 2022

(Item 1.1,1.2,1.5) August 2022 CAIDI = 37.80 ↑ (37.43)



(Item 1.1,1.2,1.5) August 2022 ASAI = 0.9995 UNC* (0.9995)



(Item 1.4) Top 5 Worst Feeders Distribution Causes

#	Feeder	Outage Count
1	P340	11
2	P046	9
3	P294	7
4	P262	5
5	P310	5

(Item 1.4) Top 5 Distribution Outage Causes

#	Outage Cause	Count
1	Overhead Equipment	46
2	Vegetation	15
3	Snakes	14
4	Underground Equipment	11
5	Vehicles	2

(Item 1.3) Outage Count

TOTAL	UFLS	Non-UFLS
431	173	258

(Item 1.3) UFLS Contribution to Reliability

SAIDI	SAIFI	CAIDI
42.23	2.87	14.73

As of August 31, 2022

UNC* - Unchanged

ENGINEERING WORK ORDERS

Engineering Work Order Summary - August 2022	
Work Orders Received from CSR	309
Work Orders Processed & Released to T&D	443
Work Orders Processed & Released to CSR	N/A
Work Orders Cancelled	N/A
Work Orders Pending Survey	22
Total Pending WO at Engineering	550

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, 95% Completed. Pending inspection report. Work restarted 12/2021
6/1/2017	New Underground Line (P-047)	466064	Tumon	1,500	1	New Undergound 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 100% completed pending budget.
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 Xfmrs 100% Completed, pending submission of meter applications. Work orders for the streetlights and the new GWA pump station have been fowarded to T&D.
05/14/19	Joyrich Group LLC	Multiple	Tamuning	150	17	New 17 Unit Apartments, 75% completed, 150 kVA. No recent progress.
07/07/20	Guam Waterworks Authority New Northern Wastewater Plant	479663	Dededo	3,500	1	New Northern Wastewater Plant, 100% completed, 3500kVA. On temp power now. Power will be limited to 20% of capacity until completion of P-046, P-271 and P-112 Load redistribution and completion of the GRMC riser.
11/19/20	Paradise Subdivision	Pending Applications	Mangilao	170	17	17 Unit subdivision, pending submission of plans and permitting.
01/31/21	Songsong Hills Subdivision	484158	Yigo	160	1	New 16 Unit Subdivision, 92% completed, multiple xfmrs. Temp power completed, pending submission of meter applications.
01/31/21	GWA -Kaiser Reservoir	484070	Dededo	14	1	New GWA Reservoir, 95% completed.
04/06/21	LF Corp ABA American Grocery	4885427	Barrigada	500	1	New American Grocery. This is 90% completed.
06/30/21	Guam Five Star Corporation	Multiple	Dededo	1,160	45	New 116 Unit Subdivision, 45 application submitted, 100 Applications pending, 45 units completed and energized. Pending submission of applications for the remaining units.
08/01/21	DPW Primary Village and Secondary	Multiple	Island Wide	29.7	394	New Streetlight 445 street light applications released to T&D as of July 31, 2022.
09/24/21	Guam Advance Ent. Inc (Ukudu Power Plant)	489288	Dededo	2,200	1	Temp Power for New Ukudu Power Plant. 27 ea. 45' C/P and 7 Pad Mtd X-Fmr 2200 KVA total load. 90% completed. CT'snd PT's were recently delivered. T&D to begin primary meter installation.
10/31/21	GTA Data Center	Pending Application	Tamuning	2,500	1	New Data Center, 2500 kVA, pending submission of revised plans showing 13.8 kV primary metered facilities. GTA looking at adding a 34.5 kV backup.
11/01/21	IT&E Data Center	Pending Application	Tamuning	2,500	1	New Data Center, 2500 kVA, pending submission of plans and permitting.
11/30/21	Coast 360 Federal Credit Union	490768	Tamuning	300	1	New Coast 360 Federal Credit Union. 70% Completed.
02/17/22	Future World Corporation	491985, 492634-9, 41-44	Barrigada	300	1	New office building. 100% completed and release to T&D. A GPI to remove a D/G was fowarded to T&D.
02/24/22	Canton Construction Corp.	492230	Hagatna	500	1	New Community First Bank, 70% Completed.
06/15/22	Pan Pacfic Retail Management (Guam) Co	494505	Tamuning	5500	1	New Don Quixote Shopping Center. 2-2000kVA 1-1500 kVA, 80% completed.
06/17/22	KEPCO Mangilao Solar	494424	Mangilao		1	Kepco 13 ea. Streetlight and 40 ea. pole line extension at Survey. $270K Paid in Full.
Varies	Pending Net Metering Customers	Varies	Various Locations Islandwide		1	Pending Net Metering Customers as of July 31, 2022.
			Total	**26,084**	**500**	

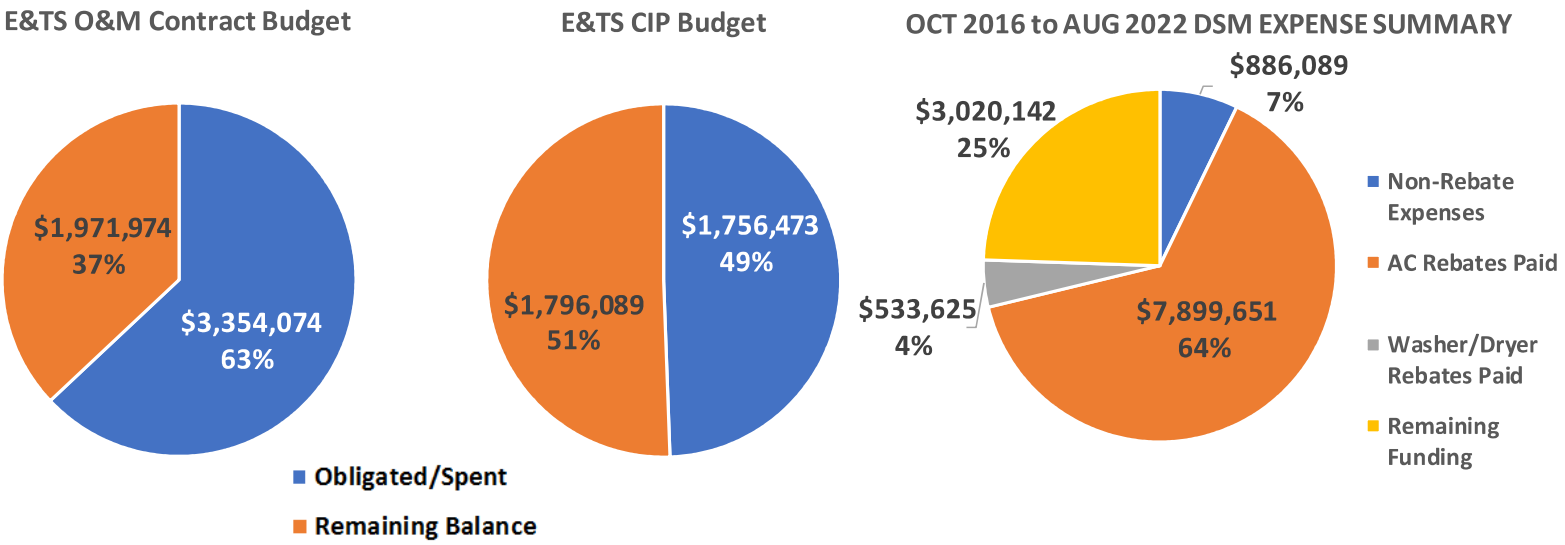
E&TS Divisional Report Summary

August 31, 2022

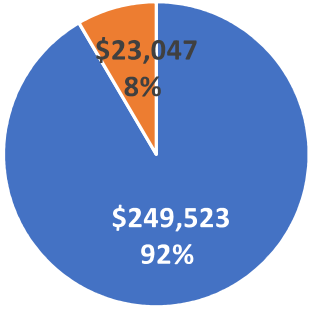
Contents

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

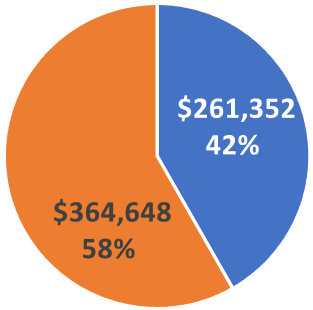
E&TS Budget Execution Performance



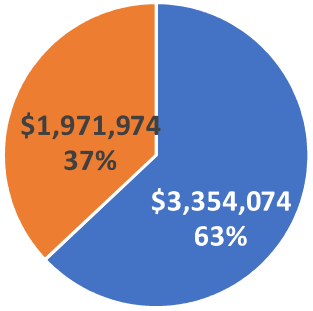
ENG O&M Contract Budget



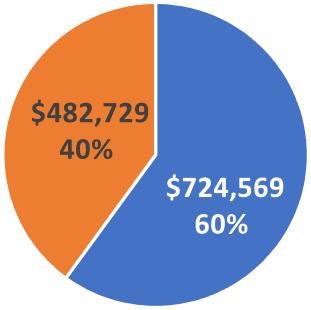
SPORD O&M Contract Budget



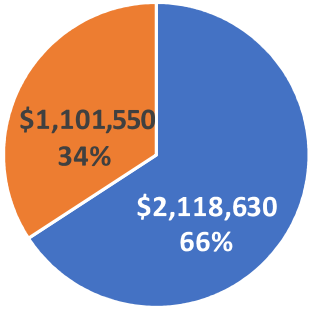
E&TS O&M Contract Budget

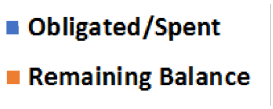


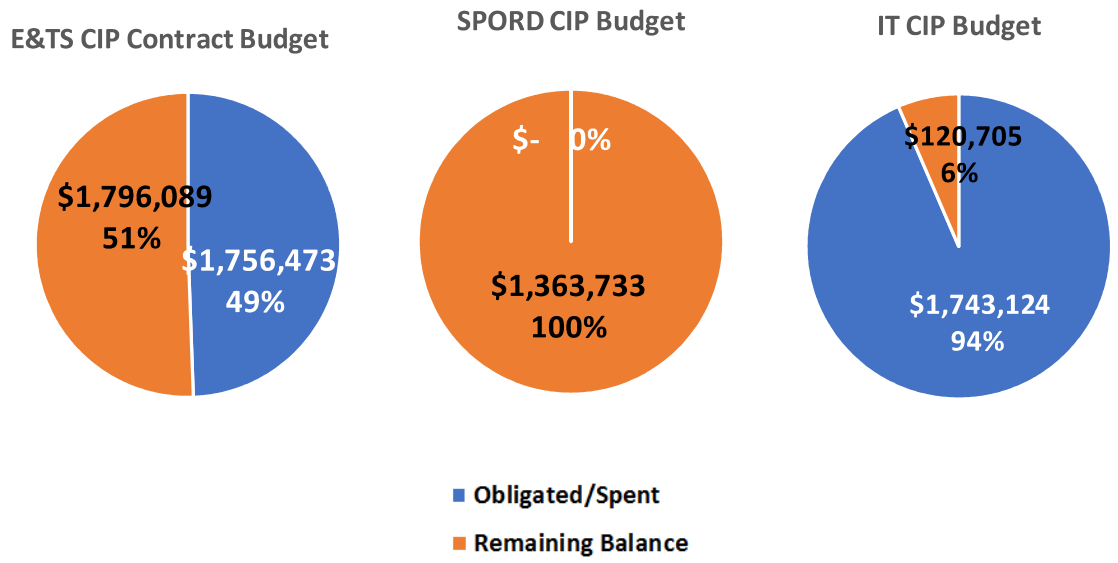
P&R O&M Contract Budget



IT O&M Contract Budget






E&TS CIP Contract Budget
$1,796,089
51%
$1,756,473
49%
SPORD CIP Budget
$-
0%
$1,363,733
100%
IT CIP Budget
$120,705
6%
$1,743,124
94%
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
SPORD	4		6	10				1	2		3	5
Engineering				0								0
SPORD/Engineering				0								0
IT	1	3		4					1	3		4
P&R	3		1	4			1					0
Total	**8**	**3**	**7**	**18**	**0**	**0**	**1**	**1**	**3**	**3**	**3**	**9**

Environmental Compliance

P&R Inspections Status Ending August 31, 2022

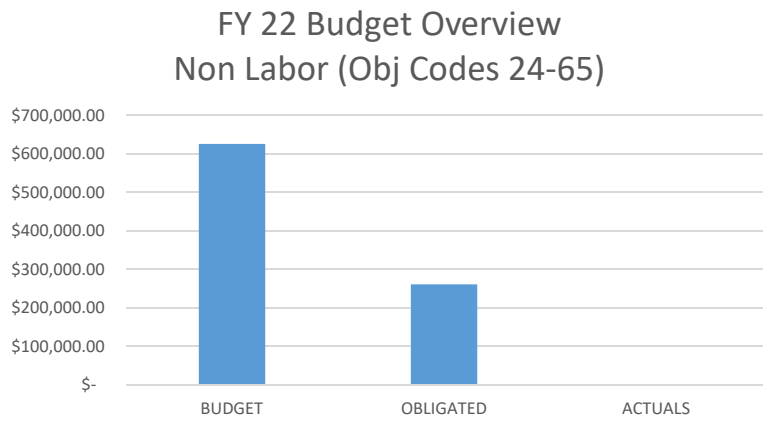
Inspection Type	Organization Responsibility	Violations Not Remediated	Number
Spill Prevention, Control, and Countermeasure (SPCC)	Generation	New Violation Notifications Issued	3
		Remediations Past Due	30
		Remediations Not Past Due	0
	T&D	New Violation Notifications Issued	0
		Remediations Past Due	7
		Remediations Not Past Due	0
Best Management Practices (BMPs)	Generation	New Violation Notifications Issued	0
		Remediations Past Due	8
		Remediations Not Past Due	1

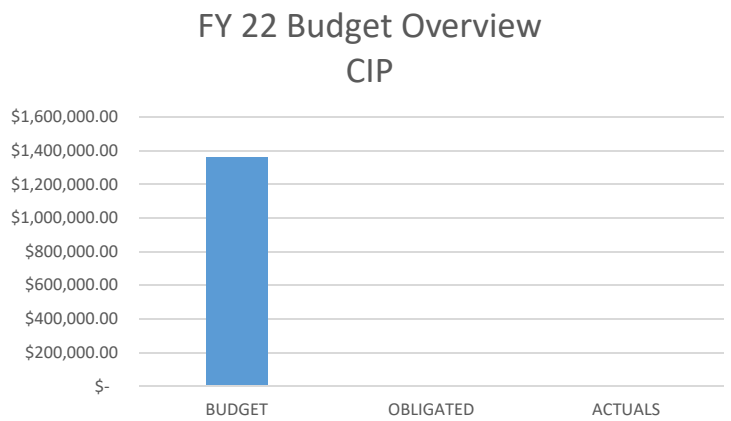
- SPCC rule purpose is to help facilities prevent oil discharges into navigable waters or adjoining shorelines
- BMP refers to a type of auxiliary pollution controls in the fields of industrial wastewater control and municipal sewage control, storm water management, and wetland management

SPORD CCU Report

August 31, 2022

SPORD FY 2022 Budget Status





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

**Pending updated figures*

SPORD FY 2022 Budget Status

- Major Contracts (Non-O&M)

Contract Description	Budgeted Amount	Obligated Amount	Actuals	PO Balance
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

**Pending updated figures*

SPORD FY 2022 Budget Status

Demand Side Management

Description	FY16	FY17	FY18	FY19	FY20	FY21 Posting Thru 9/30/21	FY22 Posting Thru 6/30/22	Total to Date
Regular/OT Pay	$11,348.80	$22,256.00	$26,121.83	$50,715.19	$47,402.18	$162,395.40	$107,466.53	$427,705.93
Other Contractual	$28,278.50	$85,550.05	$116,977.50	$3,025.00	-	$107,854.90	$100,621.83	$442,307.78
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	$1,105,550.00	$7,865,551.00
Paid Rebates-Central AC	$3,400.00	$8,200.00	$4,400.00	$6,500.00	$2,400.00	$3,900.00	$2,200.00	$31,000.00
Paid Rebates-Washer Dryer	$2,800.00	$7,425.00	$57,200.00	$110,800.00	$91,003.00	$134,497.00	$129,900.00	$533,625.00
Paid Rebates-Split AC (Commercial)							$3,100.00	$3,100.00
Paid Rebates-Central Ducted AC (Commercial)								$0.00
Total Expenses	**$200,527.30**	**$680,706.05**	**$1,554,524.33**	**$1,554,690.19**	**$1,608,806.18**	**$2,264,197.30**	**$1,448,838.36**	**$9,312,289.71**
Bank Interest (+)	$1,676.42	$1,722.74	$1,222.29	$730.05	$439.12	$320.72	$357.02	$6,468.36
Bank Fees	$155.00	$1,032.06	$1,085.08	$1,247.54	$1,702.64	$475.00	$1,377.50	$7,074.82

DSM Ending Balance: $3,020,141.69

**Pending updated figures*

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 Supply to WSD (by Roadtanker) (MS Re-Bid 012-22)	Res 2022-25 (7/26/22)	not required (less than $1.5M)	3/17/2022	7/31/2022	Procurement to finalize award & contract documentation (Commencement: 10/01/2022)

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)	Superior Court ruled in favor of GPA on 1/27/22. Protesting party has advised they will not pursue appeal. Pending final negotiations/contract approvals.
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	GPA Bulk Fuel Storage Facility PMC	MS Bid	GPA-015-22	01/21/22	4/22/2022	Bid canceled by Procurement due to non-responsive bids.
SPORD (ANF)	FUEL	GPA Bulk Fuel Storage Facility PMC	MS Re-Bid	GPA-015-22	06/02/22	10/21/2022	Re-Solicitattion in progress
SPORD (ANF)	FUEL	Diesel Supply to WSD	MS Bid	MS GPA-012-22	12/14/2021	3/8/2022	Bid canceled by Procurement due to non-responsive bids.
SPORD (ANF)	FUEL	Diesel Supply to WSD*	MS Re-Bid	MS GPA-012-22	3/17/2022	4/29/2022	Award approved by CCU Res 2022-25. Procurement to finalize award & contract documentation (Commencement: 10/01/2022)
SPORD (JTL)	PLANNING SOFTWARE	Utility Resource Planning Software (CIP)	GPA-RFP-22-004	FY 2023	FY 2023	6/23/2022	Price Proposal Evaluation scheduled for 9/9/2022.
SPORD(CNC)	MWMS	Clevest Mobile Workforce Management Software Services	RFP	GPA-RFP-22-006	8/11/2022	9/22/2022	
SPORD(JUM)	SCADA	DNP3 Secure Authentication Services	RFP	GPA-RFP-22-007	8/11/2022	9/23/2022	
SPORD (JTL/MNM)	RENEWABLES	Installation of Solar Canopy at Fadian Public Parking Area	MS Bid	MS GPA-042-22	8/9/2022	9/21/2022	Responses to bidders' questions submitted to Procurement on 9/8/22.

DEVELOPING PROCUREMENT

Responsible	PROJECT	Description	Bid or RFP	Projected Start	Projected Completion	Status
SPORD (LOS)	RENEWABLES	Phase IV Renewable Resource Acquisition	MS Bid	FY 2022	FY 2023	Bid documents pending management review. Resolution to petition PUC for approval to proceed with procurement will be submitted to the CCU in September 2022.
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 2023	FY 2023	RFP package pending, need management approval prior to submittal to PMM for advertisement.
SPORD (ANF)	FUEL	RFO Inspection and Testing Services	MS Bid	May-22	Nov-22	Bid Package Preparation In Progress.
SPORD (LOS)	IPP/PMC	Piti 8&9 PMC	MS Bid	FY 2023	FY 2023	Pending bid package preparation

No.	Project Description	July-August 2022 Activities	Status / Est. Completion	RFP/Bid No
1	Energy Storage System (Phase I)	Weekly, monthly and quarterly maintenance inspections for the Agana and Talofofo ESS sites were completed. PCS repairs are on-going.	O&M phase on-going. Annual maintenance completed in May 2022. Review of reports are on-going. Additional PCS repairs and annual performance test are expected to be completed in September or October 2022.	MS Bid GPA-082-15
2	Renewable Energy Resource Phase II	- KEPCO overall project is 100% complete. Commissioning and testing was completed in May and June, respectfully. Samsung is working on the punchlist items and expects to complete these by the end of July. - Hanwha's site grading and clearing punchlist is ongoing abd expected to be completed by August.	KEPCO PV plant COD was June 20, 2022. Hanwha's COD is extended from Aug 22, 2022 to Dec 22, 2023.	MS Bid GPA-070-16
3	New Power Plant Bid (EPCM)	Progress includes: **Guam EPA/ USEPA -** Public comment period for the Ukudu Air Permit ended on July 7 at 5 PM. A public hearing was held on July 6. No public comments were received. GEPA/USEPA to complete final review of air permit before issuing authorization to construct to allow approval of construction permits for the power plant. **GWA** - GWA/Doosan have concurred on use of GWA water supply to support fire protection system which has been incorporated into the plant design. **Pipeline Activities** - Pigging of existing line from Piti to Airport Road (approximate) has been completed. All existing piping that was to be removed is completed. GPA/GEPA/Contractor to discuss blockage of underground line along Route 16 and abandonment plan - Construction of the new pipelines initiated in June. 100M test area near Chaot Bridge in Sinajana is in progress. **EPCM Contract** - Resolicitation of EPCM RFP is in progress. Current contract was extended to September. **Section 106** - GPA archaelogist contract is preparing Harmon Substation Section 106 documents for Navy. Revision from Navy review is ongoing. **Ukudu Construction Activities** - Ukudu Power Plant site clearing/grading/foundation work is ongoing. **Design Activities** - 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. **Zone Variance for Height** - Notice of action to be finalized. **Lender's Questions** - GPA's team met with KEPCO and its lenders to review lender's questions and formulate responses.	ECA Project COD -Target November 2023 (NLT April 2024)	MS GPA-034-18

No.	Project Description	July-August 2022 Activities	Status / Est. Completion	RFP/Bid No
4	DSM Marketing	- The commercial rebate program radio ads and social media are completed with the EV dealership survey, K-12 Stem marketing kit, DSM Online, and Frontier Customer Survey tasks are on-going.	Continuos	
5	DSM Rebate Program	Processed 627 applications for rebates totaling $162K in the reporting period (June 2022).	Continuous	
6	Wireless Network Expansion	Malojloj Router Installation Area Ongoing Testing Sim card Router communications ongoing	Dec-22	GPA-RFP-19-010
7	Smartworks MDM and Eportal	Data Migration from Oracle to **Postgres** Planned on August-22 (Upgrade to latest version pre-requisite) ongoing Integration to MV90 requirements gathering ongoing E-Portal and MDMS training schedules onSeptember 2022	Dec-22	GPA-RFP-19-007
8	GDOE BEST Schools	**2019 DOI Award Projects:** **Agueda Johnston Middle School LED Lighting Retrofit ($586,771) and Maria Ulloa Elementary School LED Lighting Retrofit ($522,616).** - 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. *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.* ***2021 DOI Award Projects:*** **University of Guam LED Lighting Upgrades, HVAC Controls, and Solar PV ($1.29M); Tamuning Elementary LED lighting and Solar PV ($154k)** - UOG NEPA compliance review completed. GPA received Authorization to Proceed from DOI on 6/9/2022. - Tamuning Elementary School NEPA compliance review in progress. ETC July 2022. - UOG project kick-off meeting scheduled for July, 2022	Est. Completion: Sep. 2023	GPA-RFP-16-013
9	Consulting Services for Smart Grid Analytics Enabled Distribution System Planning, Technical, and Economic Feasibility Studies	Substation update reports for 6 Substations - 1. Distribution Model Corrections submitted for GPA review 2. FCI and Switch Placement submitted for GPA review 3. Load Flow Studies submitted for GPA review 4. Voltage Analysis submitted for GPA review 5. Demand Response submitted for GPA review 6. Volt/Var Optimization - L+G working on 7. Conservation Voltage Reduction - L+G working on 8. DER - L+G working on Additonal 4 Substation reports ongoing	Continuous	RE-SOLICITATION GPA-RFP-19-002
10	MEC Piti &8 and #9 - ECA Extension	Contract Extension commenced 12:00 Noon January 29, 2019. (No issues) Review and adjustment of Recapitalization Projects in-progress. (No issues) ULSD Conversion CIP on-going. MEC 8 conversion completed in July 2022. MEC 9 conversion expected to be completed in September 2022. Fourth Milestone Payment completed in August 2022.	IN PROGRESS	(N/A)

No.	Project Description	July-August 2022 Activities	Status / Est. Completion	RFP/Bid No
11	EV Infrastructure	Fast charge station scope for Mangilao offices. Developing fast charge station scope for Mangilao offices.	On-Hold	
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. Superior Court ruled in GPA favor on 1/27/22. No appeal from protesting party. Discussions required to complete contract.	TBD	GPA-007-18
13	Utility Energy Services Contract (UESC)	- Continued work with GDOE on Best Schools Program (Grant & Pilot). - UOG/GEDA has completed their evaluation of the RFP for the loan funding the projects identified in the Investment Grade Audit final report - OIA issued NTP for the UOG grant.	Ongoing	
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: Estimated Start: Jan 2020 Est. Completion: Dec 2021-Sep 2022	IFB GPA-027-19
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: Estimated Start: Feb 2020 Est. Completion: Dec 2023	IFB GPA-028-19
16	Milsoft Systems Software Services	1. Upgrade of OMS production planned pending - pending SQL 2019. Integration to SEL devices ongoing 2. WindMil (Engineering Analysis) Training completed on August 2022	Continuous	GPA-RFP-18-003
17	MV90 Integration Services	Production Implementation Completed. Developing plan for MDMS integration	Oct-21	GPA-RFP-18-001
18	Grant Support	Continued grant development and execution. **For Guam Energy Office Grant:** 1. Energy Management Plan ongoing. 2. EnergySmart Schools Conference Nov. 17, 2021. 3. Project closeout in progress- Final Invoice submitted to GEO January, 2022.	GEO MOA Finalize: Sept '19 Grant Scope Completion: Dec. '21	
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: Estimated Start: Feb 2020 Est. Completion: Dec 2023	IFB GPA-028-19
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: Estimated Start: Feb 2020 Est. Completion: Dec 2023	IFB GPA-028-19
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. IRP documents approved by CCU and submitted to PUC in February 2022.	Oct-21	GPA-RFP-17-002 / UFS / S&P

No.	Project Description	July-August 2022 Activities	Status / Est. Completion	RFP/Bid No
22	Utility Resource Planning Software RFP.	Technical Proposals evaluated in August 20222. Price Proposal Evaluation scheduled for 9/9/2022.	Planned Completion: 9/30/2022	GPA-RFP-22-004
23	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 Est. Completion: TBD	
24	Diesel Supply to Tenjo Vista	Bid Package prepared. Approved by CCU (Resolution 2020-02) and PUC (Docket 20-07). For solicitation.	Project Timeline: Estimated Start: TBD Est. Completion: TBD	TBD
25	GPA Fuel Farm Mgt Contract	3rd Year Contract Extension (10/01/21-09/30/22) in progress. 4th year extension (10/01/22-09/30/23) approved by CCU (Resolution 2020-03) and awaiting PUC approval.	2-year base period: Completed 09/30/19 1st Year Extn: Completed 09/30/20 2nd,3rd, & 4th Yr Extn: 10/01/20 to 09/30/23	MS IFB GPA-014-17
26	Bulk RFO Supply for Baseload Plants (by Oceantanker)	Contract awarded to Hyundai Corporation Contract Term: 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. 1 Year Extension thru 8/31/24	MS IFB GPA-050-20
27	Bulk Diesel Supply (by Oceantanker)	Contract awarded to Mobil Oil Guam Contract Term: 2-year base period: 02/01/22 to 01/31/24 w/ 3 Year Extn Option	2-year base period: 2/1/2022-1/31/2024	MS IFB GPA-047-21
28	Reliability Studies	RFQ to complete SC-MVA analysis supplementing Reliability Study and Generation Expansion Plan issued and awarded in Sept 2021. Pending submittal of SC-MVA final report.	Est. Completion: 9/30/2022	S&C
28	RFO Inspection Services Contract	Contract awarded to Intertek Testing Services (ITS) Guam ContractTerm: 2-year base period w/ 3 Year Extn Option	3-year base period: 6/1/2018-5/31/2021 1st & 2nd Year extension: 6/1/2021 thru 5/31/2023	MS IFB GPA-014-18
29	RFO Testing Services Contract	Contract awarded to SGS Guam ContractTerm: 2-year base period w/ 3 Year Extn Option	2-year base period: 9/1/2020-8/31/2022 1st Year extension: 9/1/2022-5/31/2023	MS IFB GPA-013-20
30	DSM Digitization	DSM Online Frontend and Backend applications went live on 8/17/2022. Currently going through a 30- post launch support process. New change order is under review to upgrade applications to accept expanded Large Commercial, Government, and Prepaid applicants. Estimated 3 months to complete.	Project Start: Sep 2020 Completion: 8/17/2022 Change Order: Dec 2022	TBD
31	Diesel Supply (by Roadtanker)-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 3-Yrs extension: 01/01/22-12/31/24	GPA-008-18
32	Diesel Inspection & Testing Services Contract	Contract awarded to Intertek Testing Services Guam ContractTerm: 2-year base period w/ 3 Year Extn Option	2-year base period: 12/1/2021-11/30/2024	MS IFB GPA-046-21
32	iDashboards	Training completed on July and August 2022	9/30/2022	GPA-RFP-16-008
33	AGMETS Grant Support	BIL – Preventing Outages and Enhancing the Resilience of the Electric Grid formula grants	Shared assignment with EKC SF-424, SF-LLL, and Submission to Portal	

CCU Report- DSM

As of July 30, 2022

**Pending updated figures*

All Expenses – Fiscal Year

Description	FY16	FY17	FY18	FY19	FY20	FY21 Posting Thru 9/30/21	FY22 Posting Thru 6/30/22	Total to Date
Regular/OT Pay	$11,348.80	$22,256.00	$26,121.83	$50,715.19	$47,402.18	$162,395.40	$114,651.01	$434,890.41
Other Contractual	$28,278.50	$85,550.05	$116,977.50	$3,025.00	-	$107,854.90	$107,066.83	$448,752.78
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	$1,147,649.00	$7,907,650.00
Paid Rebates-Central AC	$3,400.00	$8,200.00	$4,400.00	$6,500.00	$2,400.00	$3,900.00	$7,400.00	$36,200.00
Paid Rebates-Washer/Dryer	$2,800.00	$7,425.00	$57,200.00	$110,800.00	$91,003.00	$134,497.00	$130,300.00	$534,025.00
Paid Rebates-Split AC (Commercial)							$3,300.00	$3,300.00
Paid Rebates-Central Ducted AC (Commercial)								$0.00
Total Expenses	$200,527.30	$680,706.05	$1,554,524.33	$1,554,690.19	$1,608,806.18	$2,264,197.30	$1,510,366.84	$9,373,818.19
Bank Interest (+)	$1,676.42	$1,722.74	$1,222.29	$730.05	$439.12	$320.72	$386.92	$6,498.26
Bank Fees	$155.00	$1,032.06	$1,085.08	$1,247.54	$1,702.64	$475.00	$1,392.60	$7,089.92

**Preliminary Data as of 8/18/22*

DSM Funding

No.	Description	Amount
1	Initial DSM Budget FY 2016	$1,806,014.00
2	Interest Income	$6,498.26
3	Bank Fees	$7,089.92
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 September 2021)	$3,859,302.49
	FY2022 LEAC (October 2021 to July 2022)	$3,171,947.12
5	Total Expense FY2016- FY2020 (Ending May 2020)	**$4,355,078.30**
6	Total Expense FY2020 - FY2022 (June 2020 to July 2022)	**$5,018,739.89**
	DSM Ending Balance - LEAC Funds	**$3,278,015.43**

**Preliminary Data as of 8/18/22*

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

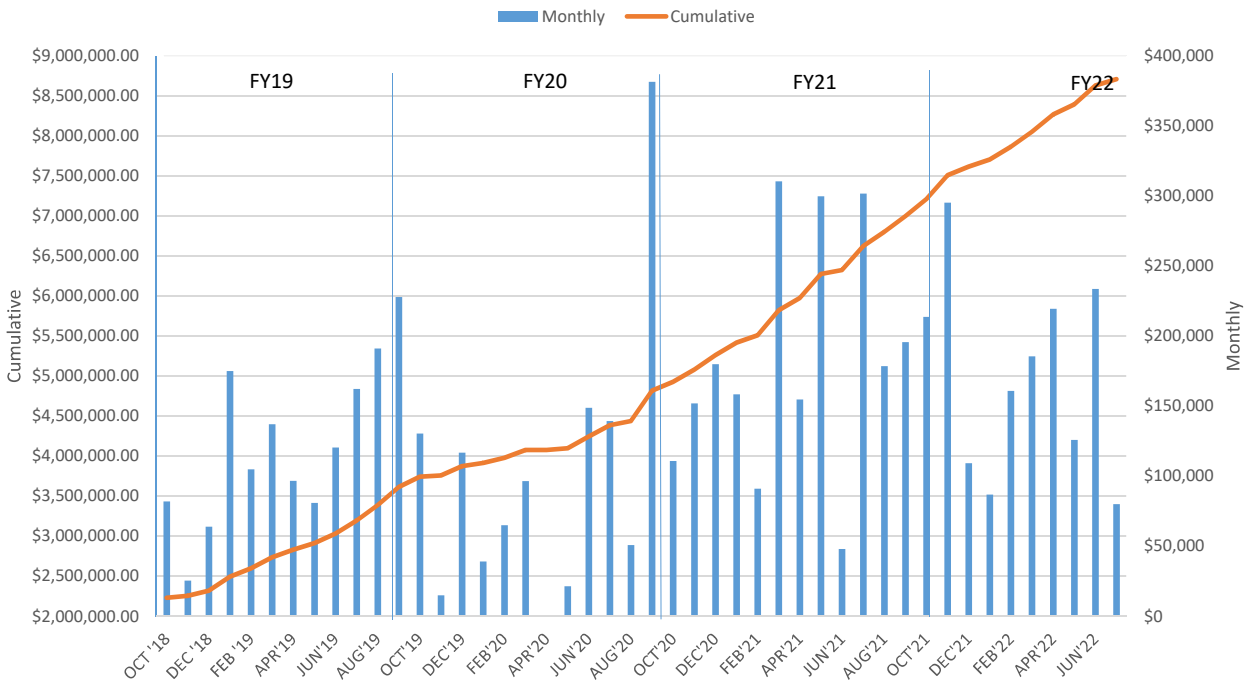
Month	Total	Split A/C Units	Central A/C Units	Washers/ Dryers
OCT '20	$ 110,825.00	$ 110,325.00	$ 500.00	-
NOV '20	$ 151,925.00	$ 142,425.00	$ 500.00	$ 9,000.00
DEC '20	$ 180,075.00	$ 173,975.00	$ 500.00	$ 5,600.00
JAN '21	$ 158,450.00	$ 153,650.00	$ -	$ 4,800.00
FEB '21	$ 91,100.00	$ 86,100.00	$ -	$ 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

FY 2022- Rebate Amount Paid Monthly

		Residential			Commercial	
Month	Total	Split A/C Units	Central A/C Units	Washers/ Dryers	Split A/C Units	Central A/C Units
OCT '21	$ 213,900.00	$ 190,600.00		$ 23,200.00	$ 100.00	
NOV '21	$ 182,800.00	$ 160,600.00	$ 1,000.00	$ 21,200.00		
DEC '21	$ 109,425.00	$ 97,525.00		$ 11,800.00	$ 100.00	
JAN '22	$ 86,900.00	$ 80,600.00	$ 500.00	$ 5,800.00		
FEB '22	$ 160,825.00	$ 141,775.00		$ 18,900.00	$ 150.00	
MAR '22	$ 185,600.00	$ 166,000.00		$ 19,400.00	$ 200.00	
APR '22	$ 219,600.00	$ 200,000.00		$ 19,600.00		
MAY '22	$ 125,875.00	$ 109,475.00		$ 16,400.00		
JUN '22	$ 233,675.00	$ 210,825.00	$ 500.00	$ 19,800.00	$ 2,550.00	
JUL '22	$ 80,050.00	$ 73,850.00		$ 6,000.00	$ 200.00	
AUG '22						
SEP '22						
TOTALS	$1,598,650.00	$1,431,250.00	$2,000.00	$162,100.00	$3,300.00	$0.00

**Preliminary Data as of 8/18/22*

FY'19- FY'22 Rebate Amount Paid



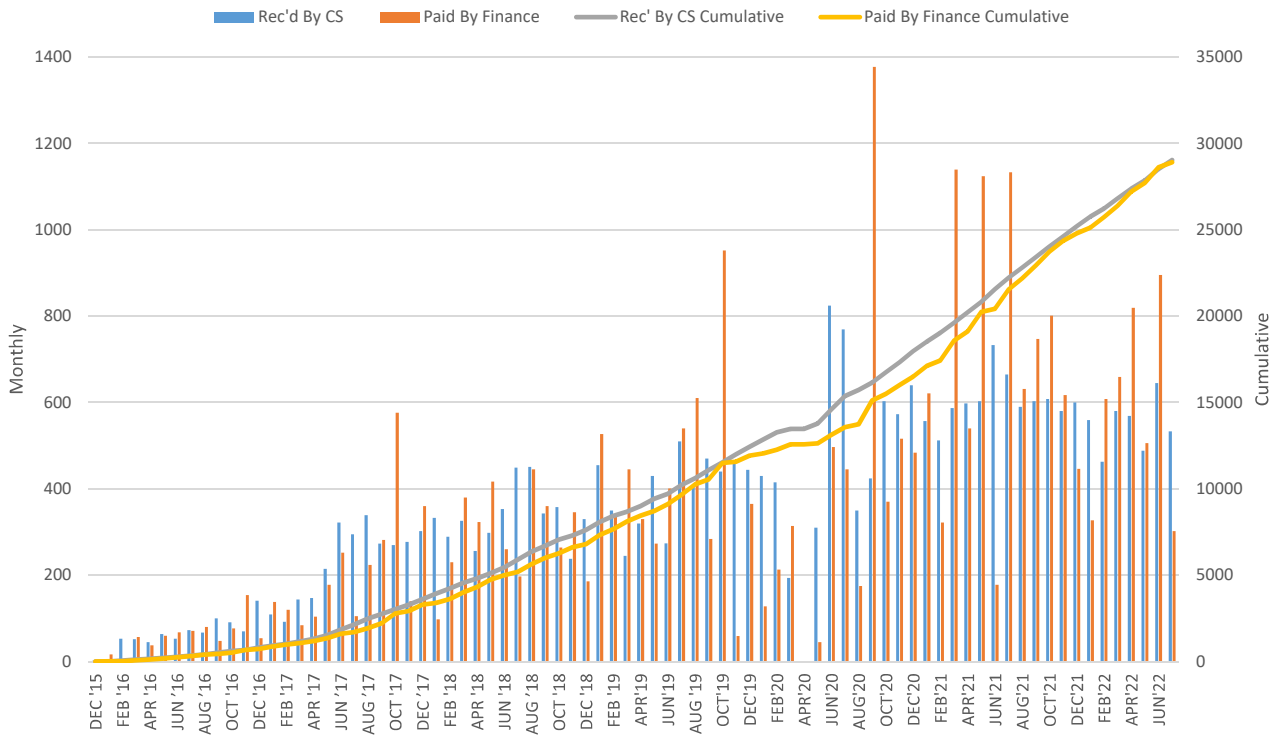
FY 2021 Number of Applications Received By Customer Service and Paid Monthly

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	580	617
DEC '21	600	446
JAN'22	559	327
FEB '22	463	608
MAR '22	580	659
APR '22	569	819
MAY '22	488	506
JUN '22	645	895
JUL '22	533	302
AUG '22		
SEP '22		

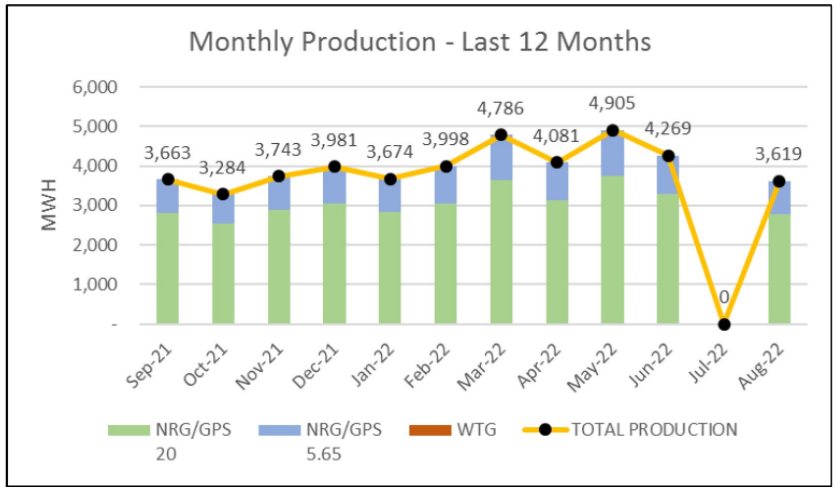
Number of Applications Received By Customer Service and Paid

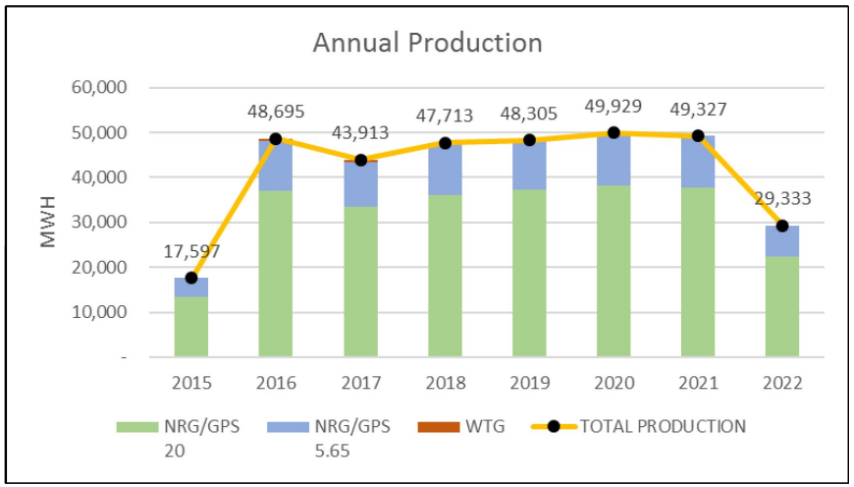


Renewable Energy Production CCU Report

August 31, 2022

Renewable Energy Charts





**July 2022 values still need to be verified.*

Renewable Energy Data

Monthly Renewable Production - Last 12 Months (LTM)

Date	NRG/GPS 20	NRG/GPS 5.65	WTG	TOTAL PRODUCTION
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
Jan-22	2,827.82	846.44	-	3,674.26
Feb-22	3,056.84	941.36	-	3,998.20
Mar-22	3,650.85	1,135.45	-	4,786.29
Apr-22	3,123.86	957.45	-	4,081.31
May-22	3,755.74	1,149.70	-	4,905.45
Jun-22	3,293.39	975.47	-	4,268.86
Jul-22	-	-	-	-
Aug-22	2,782.05	836.62	-	3,618.67
Total	**33,757.70**	**10,246.35**	**-**	**44,004.05**

Annual Renewable Production

Date	NRG/GPS 20	NRG/GPS 5.65	WTG	TOTAL 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	266.06	48,305.24
2020	38,249.82	11,393.79	285.06	49,928.67
2021	37,841.47	11,485.18	-	49,326.65
2022	22,490.54	6,842.49	-	29,333.04
Total	**256,019.01**	**76,983.03**	**1,808.57**	**334,810.61**

- July 2022 data still needs to be verified.
- Dandan / GPS = Phase I Solar commissioned on 10/2015
- WTG = Wind Turbine Generation
- Data as of August 2022 in MWH

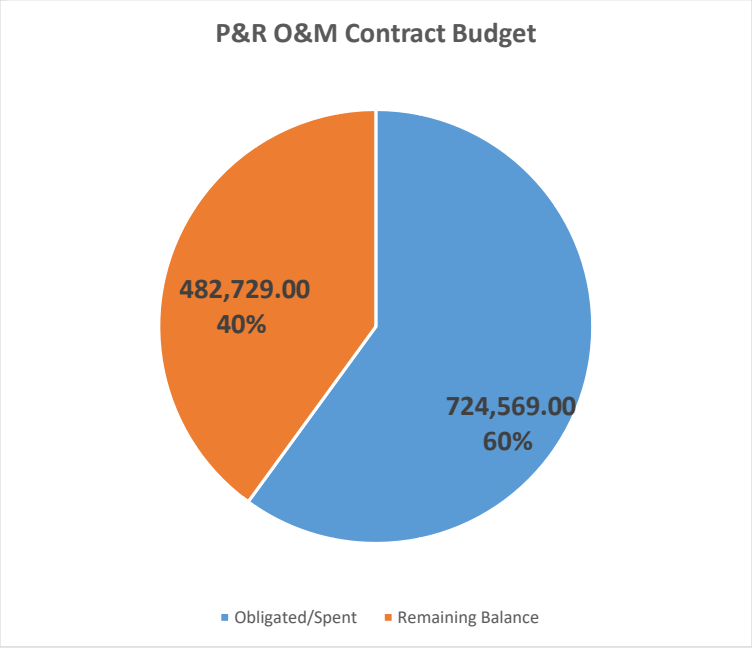
**July 2022 values still need to be verified.*

Planning & Regulatory CCU Report

August 31, 2022

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)
  - 52.53% O&M Obligation as of January 31, 2022 (Actual)
  - 52.53% O&M Obligation as of February 28, 2022 (Actual)
  - 57.95% O&M Obligation as of May 31, 2022 (Actual)
  - 60.02% O&M Obligation as of June 30, 2022 (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

WEEKLY BMP SUMMARY REPORT
CABRAS POWER PLANT
MONTH OF AUGUST 2022

LEGEND OF TRACKING

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

LOCATION		WE 08/05/22 FINDINGS	WE 08/12/22 FINDINGS	WE 08/19/22 FINDINGS	WE 08/26/22 FINDINGS	RECOMMENDATION/ REMARKS	INITIAL FINDINGS DATE	DUE DATE	DATE COMPLETED	RESPONSE
Cabras Facility	1	Oil/water separator (next to outfall) (Item 4) - Heavily corroded.	Oil/water separator (next to outfall) (Item 4) - Heavily corroded.	Oil/water separator (next to outfall) (Item 4) - Heavily corroded.	Oil/water separator (next to outfall) (Item 4) - Heavily corroded.	for removal/disposal	1/7/2022	ASAP		
	2	*Fuel Treatment House (Item 6) - trash and metals.*	*Fuel Treatment House (Item 6) - trash and metals.*	*Fuel Treatment House (Item 6) - trash and metals.*	[redacted]	Conduct cleanup and dispose of metal	8/27/2021	ASAP	8/19/2022	*Clean up is on going*
	3	*Fuel Treatment House (Item 6) - oil in trench*	*Fuel Treatment House (Item 6) - oil in trench*	*Fuel Treatment House (Item 6) - oil in trench*	*Fuel Treatment House (Item 6) - oil in trench*	Remove oil and conduct clean up	8/27/2021	ASAP		***Aug 19:** Removal of oil and cleanup is being conducted*
	4	C3&4 building ground (Item 16)- oil in the	C3&4 building ground (Item 16)- oil in the	C3&4 building ground (Item 16)- oil in the	C3&4 building ground (Item 16)- oil in the	Remove oil..	8/12/2020	ASAP		
	5	*C3&4 building (Item 16) - accumulated used insulation, materials and debris. Some drums of waste were disposed.*	*C3&4 building (Item 16) - accumulated used insulation, materials and debris. Some drums of waste were disposed.*	*C3&4 building (Item 16) - accumulated used insulation, materials and debris. Some drums of waste were disposed.*	*C3&4 building (Item 16) - accumulated used insulation, materials and debris. Some drums of waste were disposed.*	Remove and dispose	8/27/2021	ASAP		***Aug. 19:** Ready for disposal - waiting for contractor to pick up.* ***Aug. 26:** Remaining drums are waiting for the contractor to pick it up*

Weekly BMP Report (cont.)

LOCATION		WE 08/05/22 FINDINGS	WE 08/12/22 FINDINGS	WE 08/19/22 FINDINGS	WE 08/26/22 FINDINGS	RECOMMENDATION/ REMARKS	INITIAL FINDINGS DATE	DUE DATE	DATE COMPLETED	RESPONSE
Cabras Facility	6	*Near the outfall/dumpster area (Item 16) - old tires and household items were dumped.*	*Near the outfall/dumpster area (Item 16) - old tires and household items were dumped.*	*Near the outfall/dumpster area (Item 16) - old tires and household items were dumped.*	[redacted]	Continue clean up, remaining trash must be disposed properly	7/8/2022	ASAP	8/19/2022	***Aug 5:*** *Trash and old tires have been disposed. Continue cleanup, dispose remaining trash.* ***Aug 19:*** *The area is clean*
	7	Across C1&2 building - corroded 20 foot containers; corroding metal equipment parts (Item 16).	Across C1&2 building - corroded 20 foot containers; corroding metal equipment parts (Item 16).	Across C1&2 building - corroded 20 foot containers; corroding metal equipment parts (Item 16).	Across C1&2 building - corroded 20 foot containers; corroding metal equipment parts (Item 16).	Remove corrosion or replace container storage; apply necessary BMP to prevent stormwater runoff that carry metals to storm drain.	12/10/2021	ASAP		
	8	Cooling water intake - corroded cooling water intake covers and bar screens (Item 26).	Cooling water intake - corroded cooling water intake covers and bar screens (Item 26).	Cooling water intake - corroded cooling water intake covers and bar screens (Item 26).	Cooling water intake - corroded cooling water intake covers and bar screens (Item 26).	Chip corrosion repaint	7/23/2021	ASAP		
	9	Cabras Tank 1,2,3,4 Refilling Valve Pit - water accumulation in the tanks1-4 refilling valve pit (Item 28).	Cabras Tank 1,2,3,4 Refilling Valve Pit - water accumulation in the tanks1-4 refilling valve pit (Item 28).	Cabras Tank 1,2,3,4 Refilling Valve Pit - water accumulation in the tanks1-4 refilling valve pit (Item 28).	Cabras Tank 1,2,3,4 Refilling Valve Pit - water accumulation in the tanks1-4 refilling valve pit (Item 28).	Drain water & monitor regularly. Accumulation due to recent rainfall. Drain water.	7/1/2022	ASAP		
	10	*Central Maintenance Area - Remaining scrap metal from boiler unit#1 repair is piled near storm drain. (Item 29)*	[redacted]			*Remove remaining scrap metals and debris*	6/24/2022	ASAP	8/5/2022	*Disposed. The area is clean*
	11	Near Ponding Basin - 20-ft Container and corroded metals (Item 27).	Near Ponding Basin - 20-ft Container and corroded metals (Item 27).	Near Ponding Basin - 20-ft Container and corroded metals (Item 27).	Near Ponding Basin - 20-ft Container and corroded metals (Item 27).	Remove broken container to prevent storm water runoff that carry metals to ponding basin	8/27/2021	ASAP		
	12	Near to Outfall Cabras 3&4 - Corroded big metal plate	Near to Outfall Cabras 3&4 - Corroded big metal plate	Near to Outfall Cabras 3&4 - Corroded big metal plate	Near to Outfall Cabras 3&4 - Corroded big metal plate	Remove/Dispose	7/15/2022	ASAP		

T&D SPCC Inspection Report

SUMMARY OF T&D SPCC MONTHLY INSPECTION REPORT
MONTH OF AUGUST 2022
SUBSTATIONS

LEGEND OF TRACKING

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

#	SUBSTATION LOCATIONS		FINDINGS		RECOMMENDATION/REMARKS	STATUS	RESPONSIBLE	COMPLETION DATE	DUE DATE	INITIAL FINDINGS DATE
1	DEDEDO SUBSTATION (T-191, & T-192)	1	Clean	Substation area is clean and well maintained.	Maintain					
2	DEDEDO SUBSTATION (T-55)	1	Clean	Substation area is clean and well maintained.	Maintain					
3	DEDEDO SUBSTATION WAREHOUSE	1	Clean	Good housekeeping implemented in the substation area.	Maintain					
4	MACHECHE SUBSTATION	1	Secondary containment	Standing water in the secondary containment	Drain water				ASAP	July 5, 2022
		2	Drain valve	not secured	Install pad lock				ASAP	July 5, 2022
		3	Secondary containment	Algae accumulation in the secondary containment	Conduct clean up				ASAP	July 27, 2022
		4	Substation	Overgrown vegetation in the substation	Cut grass	This issue has been addressed.		August 24, 2022	ASAP	July 27, 2022
5	TALOFOFO SUBSTATION	1	T80 Transformer and substation area	Water and algae accumulation inside secondary containment and drain sump.	Clean secondary containment, remove algae buildup and drain water frollowing proper draining protocol.				ASAP	July 29, 2022
6	TENJO SUBSTATION	1	Substation area	Secondary containment well maintained. Overgrown vegetation in substation area.	Trim/cut overgrown grass in facility				ASAP	July 29, 2022
7	YIGO SUBSTATION	1	Secondary containment	Standing water in the secondary containment	Drain water				ASAP	July 5, 2022
		2	Secondary containment	Algae accumulation	Conduct clean up				ASAP	July 5, 2022

Generation SPCC Inspection Report

SUMMARY OF GENERATION SPCC MONTHLY INSPECTION REPORT
MONTH OF AUGUST 2022
POWER PLANTS

LEGEND OF TRACKING
Notification Date
Completed
Within Scheduled Remediation Period
Deadline is Past Due

#	POWER PLANT LOCATIONS		FINDINGS		RECOMMENDATION /REMARKS	STATUS	RESPONSIBLE	COMPLETION DATE	DUE DATE	INITIAL FINDINGS DATE
1	CABRAS POWER PLANT	1	Cabras 3&4 Generator Building	Oil building up in trenches/sump of Cabras 3 & 4 generator	Remove oil from trenches and conduct cleanup.				ASAP	July 2021
		2	CPP Tank 3 & 4	Corroded supply pipelines	Remove rust/conduct repair and continuously monitor pipeline.				ASAP	Sept 2021
		3	Cabras Power Plan (CPP) 8" fuel supply line	No secondary containment	Continue monitoring for leaks and corrosion; immediately conduct repair on corroded pipe and supports.				ASAP	Nov. 2022
		4	CPP 3&4 fuel treatment house	Oil inside trenches inside fuel treatment house (CPP 3&4).	Remove oil from trenches and conduct cleanup.				ASAP	March 2022
		5	CPP Tank No. 2	~Pipe insulation (both fiberglass cladding and asbestos insulation) deterioration. ~Heavily corroded fuel supply/return pipe, valves, planges, etc. (several locations). ~Rust/deterioration of electrical box, conduits next to fuel meter and at several locations	Conduct a more thorough inspection of fuel supply system: pipeline, valves, flanges, pipe support, include inspection of electrical system. Repair/replace as needed.				ASAP	April 29, 2022
		6	CP RFO Tank No.1	~Pipe insulation (both fiberglass cladding and asbestos insulation) deterioration. ~Top and bottom photos: Heavily corroded fuel supply/return pipe, valves, plunges, etc.	Conduct a more thorough inspection of fuel supply system: pipeline, valves, flanges, pipe support, include inspection of electrical system. Repair/replace as needed.				ASAP	April 29, 2022
		7	RFO supply line from FOT 1&2 to CPP 1&2	Rust and heavy deterioration, damaged insulation (several locations)	Repair/replace pipeline and insulation.				ASAP	April 29, 2022

Generation SPCC Inspection Report (cont.)

#	POWER PLANT LOCATIONS		FINDINGS		RECOMMENDATION /REMARKS	STATUS	RESPONSIBLE	COMPLETION DATE	LEGEND OF TRACKING DUE DATE	INITIAL FINDINGS DATE
1	CABRAS POWER PLANT	8	HS Service, LS Service and Diesel Storage Tanks	Rainwater inside containment	Drain water following proper drainage procedure/protocol.				ASAP	August 29, 2022
		9	FOT 1,2,3 and 4 Secondary Containment	Rainwater inside containment	Continue draining water following proper drainage procedure/ protocol.				ASAP	August 29, 2022
2	DEDEDO CT	1	OWS 1 & 2 tank shells & pipes	Corroded	Remove corrosion & repaint OWS				ASAP	Dec. 2021
		2	Fuel Loading & Unloading Area	Old AC Units	Dispose a/c units if not in use				ASAP	Jan.2022
		3	Fluorescent light bulbs	Improper disposal of fluorescent bulbs	Properly dispose	Fluorescent light bulbs have been disposed.		August 24, 2022	ASAP	July 27, 2022
		4	Oil drums	Improper storage of oil drums	Move oil-filled drums to proper storage				ASAP	July 27, 2022
3	MACHECHE CT	1	Tank T-130/140 Tank Shells	Surface corrosion / corroded tank	Chip corrosion and recoat				ASAP	July 2021
		2	Tank No. 140/130 Flange/Vent	Corroded flange/Vent	Check vents if clear and chip corrosion and recoat/ Remove rust and repaint.				ASAP	Aug 2021
		3	Tank No. 130/140 Tank Supports	Rust buildup on metal support / corroded tank supports (several locations)	Chip corrosion and recoat / Remove rust, repaint				ASAP	Jan. 2021
		4	OWS Secondary Containment	Oil accumulation and algae accumulation	Conduct clean up and dispose oil				ASAP	Dec.2021
		5	Drum Storage Area	Oil and sludge in the drain trenches and sump pit of the drum storage	Conduct clean up				ASAP	June 3, 2022

Generation SPCC Inspection Report (cont.)

#	POWER PLANT LOCATIONS		FINDINGS		RECOMMENDATION /REMARKS	STATUS	RESPONSIBLE	COMPLETION DATE	LEGEND OF TRACKING DUE DATE	INITIAL FINDINGS DATE
4	MANENGGON DIESEL	1	Tank No. 1 Shell	Corroded tank shell	Chip corrosion and recoat				ASAP	May 2021
		2	Secondary containment	Accumulation of water in secondary containment due to persistent rain	Drain water and maintain				ASAP	July 29,2022
		3	Secondary Containment	Vegetation growing in the secondary containment area.	Vegetation growing in the secondary containment area from previous inspection has been removed. Maintain.			August 25, 2022	ASAP	April 26, 2022
		4	Housekeeping	Good general housekeeping observed.	Maintain			May 26, 2022	ASAP	May 26, 2022
5	PITI #7 POWER PLANT	1	Main Fuel Tank, Day Tank #1&2	No integrity testing	Integrity testing is required				ASAP	January 2018
		2	Old Piti Power Plant Yard	Drums of used resin stored at old Piti Plant	Removed - transferred in the covered area.				ASAP	July 2021
		3	Valves located outside the main tank	Corroded valves outside the main tank	Chip corrosion & repaint				ASAP	Feb 2022
		4	Old Piti Power Plant grounds	Debris in the Power Plant grounds	Dispose debris				ASAP	May 2022
		5	Secondary containment of Day Tanks 1 & 2	Algae accumulation in the secondary containment of Day	Conduct clean up				ASAP	August 1, 2022
6	TALOFOFO DIESEL	1	Fuel storage tank area.	Algae build-up in containment deck	Remove algae				ASAP	July 29, 2022
		2	Building, facility and engine room, etc.	Good housekeeping observed in the facility.	Maintain			July 29, 2022	ASAP	May 26, 2022
7	TENJO DIESEL	1	Fuel Storage tank area; Engine Room, WOT area, facility and yard.	Good housekeeping implemented: fuel storage tank area, engine room, WOT area, facility and yard.	Maintain			July 29, 2022	ASAP	May 26, 2022

Generation SPCC Inspection Report (cont.)

#	POWER PLANT LOCATIONS		FINDINGS		RECOMMENDATION /REMARKS	STATUS	RESPONSIBLE	COMPLETION DATE	LEGEND OF TRACKING DUE DATE	INITIAL FINDINGS DATE
8	YIGO CT	1	Tank 140 Tank Shell	Corrosion on tank surface	Chip corrosion and recoat				ASAP	Dec. 2021
		2	Tank 130 and 140 Vents	Corroded tank vents for Tanks 130 and 140.	Check vents if clear and chip corrosion and recoat.				ASAP	Dec. 2021
		3	Tank 110 pipe	Corroded	Chip corrosion and recoat				ASAP	July 5, 2022
		4	Drum storage Area	Corroded oil drums, uncovered sludge drum and other debris in the drum storage area	Remove oil & dispose drums				ASAP	Jan 2022
		5	Drum Storage Sump Pit	Oil sludge	Conduct cleanup				ASAP	Jan 2022
		6	Oil Water Separator secondary containment	Unknown chemical in the OWS secondary containment	Remove oil and clean containment				ASAP	Jan 2022
		7	Secondary containment for Day Tanks 110, 120, 130 and 140	Oil sludge found in the drain pit	Remove oil and drain				ASAP	August 24, 2022
9	YIGO DIESEL	1	Site Facility	Good housekeeping is implemented in the plant	Maintain					
		2	Pipeline	No secondary containment	Daily inspection is required				ASAP	July 2021

NET METERING
August 2022

	Quantity	Connected kVA
Completed	2,364	29,716
Pending	1	7
Grand Total	2,365	29,723

Rate Class and Technology

Technology	Schedule	Customer Count	Total kW
Solar Energy	R - Residential	2,185	21,183.73
	J - Gen Service Dmd	68	4,316.45
	K - Small Gov Dmd	16	663.66
	L - Large Government	2	122.80
	P - Large Power	14	1,254.70
	G - Gen Serv Non-Dmd	70	2,092.29
	S - Sm Gov Non-Dmd	7	78.80
Wind Turbine	R - Residential	2	3.60
Grand Total		**2,364**	**29,716.03**

Projection Date Ending 12/31/2022

Customer Rate Class	Sum of Size (kW)	*Annual Projected kWh Generated	Non-Fuel Yield $/kWh	Estimated Annual Revenue Loss
R	21,187.33	34,112,982	0.087492	$ 2,984,613.98
J	4,316.45	6,944,605	0.125682	$ 872,812.06
K	663.66	883,453	0.133883	$ 118,279.32
L	122.80	200,522	0.129809	$ 26,029.59
P	1,254.70	2,023,065	0.109950	$ 222,436.06
G	2,092.29	3,334,666	0.145397	$ 484,850.47
S	78.80	123,265	0.147902	$ 18,231.16
Grand Total	**29,716.03**	**47,622,558**		**$ 4,727,252.65**

*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 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

August 2022

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	385.27	34	22.3%	44.9%
	P-046	323.09	38	7.6%	11.6%
	P-088	903.38	85	15.0%	23.7%
	P-089	763.45	85	17.1%	41.1%
	P-111	216.00	5	4.0%	7.0%
	P-203	848.09	47	11.3%	32.1%
	P-204	164.18	18	3.5%	7.2%
	P-205	138.00	7	2.9%	4.9%
	P-210	888.13	72	17.4%	23.6%
	P-212	1,132.00	108	27.4%	70.8%
	P-213	555.69	19	21.2%	28.5%
	P-220	225.41	24	37.0%	116.2%
	P-221	662.96	66	15.1%	30.0%
	P-223	750.87	70	31.5%	45.0%
	P-240	178.55	5	2.7%	24.0%
	P-245	459.60	9	9.2%	19.6%
	P-250	1,510.01	137	23.2%	40.8%
	P-251	257.30	14	10.3%	16.0%
	P-253	1,039.25	100	23.1%	36.5%
	P-262	1,299.44	129	34.1%	81.8%
	P-270	562.21	44	11.0%	22.3%
	P-271	433.37	20	7.4%	15.6%
	P-272	350.05	25	13.7%	31.1%
	P-280	686.85	38	38.2%	71.0%
	P-281	204.90	5	7.3%	20.4%
	P-282	231.75	6	6.2%	18.7%
	P-283	829.95	66	22.9%	39.3%
	P-294	1,434.54	134	33.1%	65.6%
	P-301	260.56	26	18.4%	32.8%
	P-311	1,375.44	72	34.5%	59.0%
	P-322	2,279.17	126	30.0%	59.6%
	P-323	316.52	21	6.7%	20.8%
	P-330	767.35	93	14.1%	28.3%
	P-331	867.67	96	13.8%	22.3%
	P-332	926.06	85	16.4%	24.0%
	P-340	643.89	55	35.5%	78.1%
	P-087	1,633.30	160	41.6%	65.1%
	P-252	720.05	40	17.1%	34.8%
	P-321	488.98	40	8.7%	9.8%
	P-260	117.76	11	17.1%	58.9%
	P-067	86.20	10	1.0%	1.3%
	P-312	167.44	7	10.0%	11.7%
	P-206	136.08	7	13.9%	25.2%
	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	240.10	8	7.4%	17.8%
	P-341	33.95	3	2.9%	12.9%
	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		**29,716.03**	**2,364**		
pending	Pending	7.31	1	0.0%	0.0%
pending Total		**7.31**	**1**	**0.0%**	**0.0%**
Grand Total		**29,723.34**	**2,365**		

Feeders highlighted in yellow indicates renewable energy capacity has reached 25% of minimum daytime load.

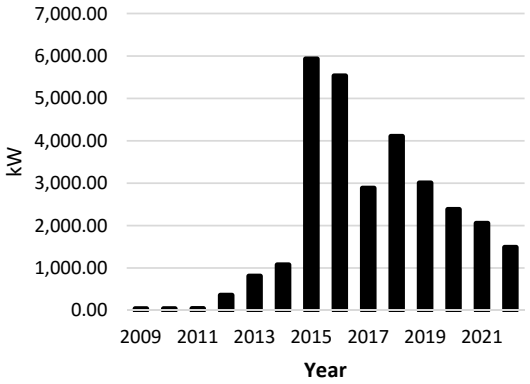
Feeders highlighted in red indicates renewable energy capacity has reached 75% of minimum daytime load.

NET METERING
August 2022

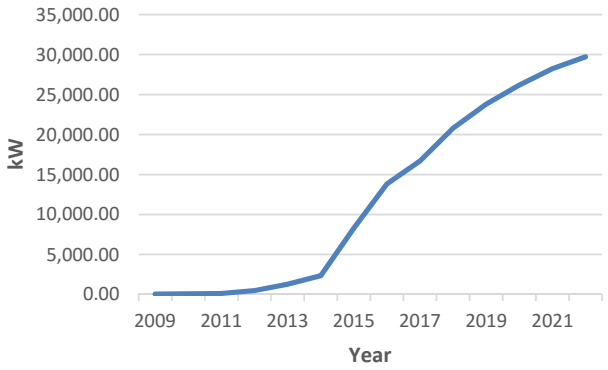
Installed kW by Year		
Year	Total	Cumulative
2009	39.46	39.46
2010	39.20	78.66
2011	41.61	120.27
2012	354.61	474.88
2013	808.15	1,283.03
2014	1,072.04	2,355.07
2015	5,926.44	8,281.51
2016	5,527.93	13,809.43
2017	2,881.10	16,690.53
2018	4,103.13	20,793.66
2019	3,002.17	23,795.83
2020	2,380.16	26,175.99
2021	2,053.29	28,229.28
2022	1,486.75	29,716.03
Grand Total	29,716.03	

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
2022	69	2,364
Grand Total	2,364	

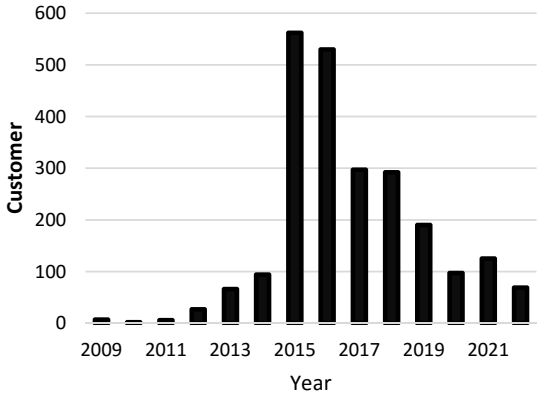
Yearly Installed kW



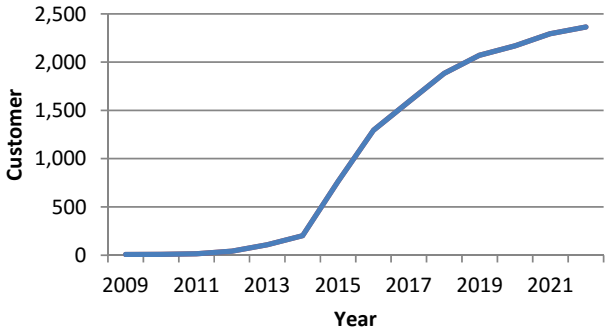
Cumulative Installed kW



Yearly Connected Customer Count



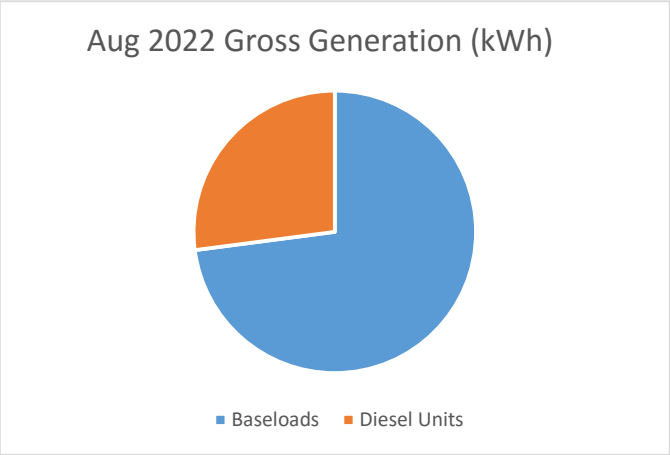
Cumulative Connected Customer Count



Production Data August 2022

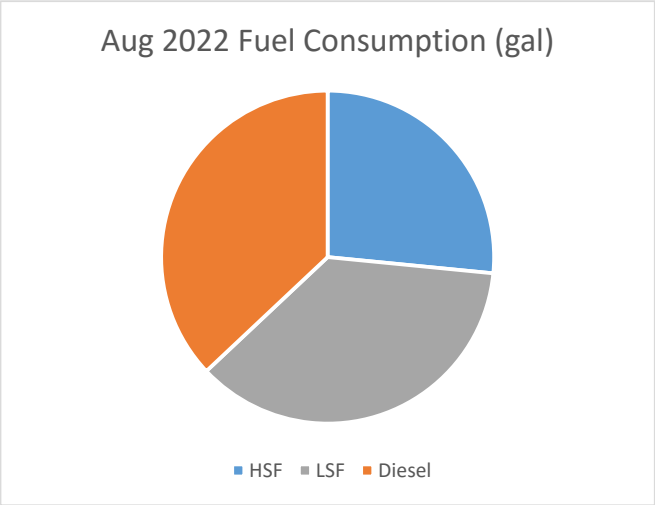
2022 Gross Generation (kWh)

Month	Baseloads	Diesel Units
January	109,627,200	23,364,899
February	76,592,500	44,923,315
March	81,918,260	57,565,504
April	87,787,300	49,213,804
May	81,920,700	60,791,103
June	95,344,100	35,377,172
July	91,785,300	36,064,854
August	77,501,200	51,030,336
September		
October		
November		
December		



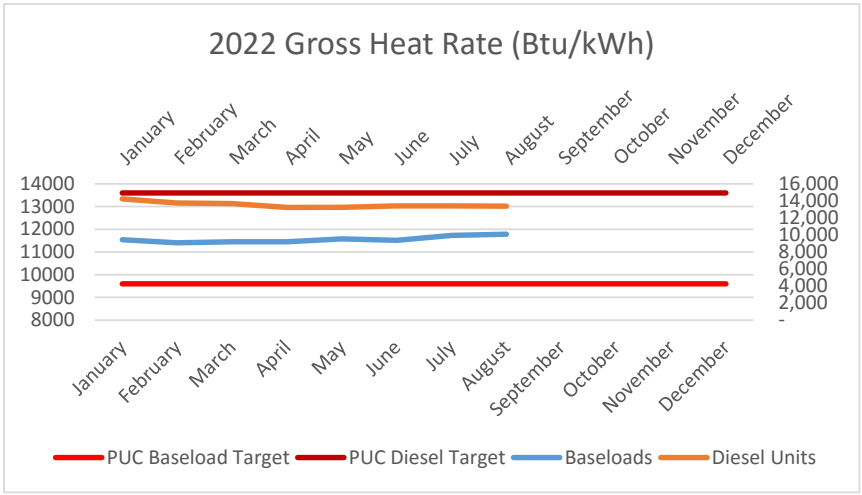
2022 Fuel Consumption (gal)

Month	Baseloads		Diesel Units
	HSF	LSF	Diesel
January	6,039,882	1,088,908	2,450,365
February	2,046,610	2,742,653	4,552,020
March	2,047,536	3,149,528	5,799,290
April	1,287,548	4,081,042	4,798,917
May	1,641,327	3,727,480	5,934,125
June	2,352,232	3,798,465	3,495,126
July	2,556,119	3,507,059	3,562,470
August	-	3,915,269	6,498,564
September			
October			
November			
December			



2022 Gross Heat Rate (Btu/kWh)

Month	Baseloads	Diesel Units
January	9,448	14,233
February	9,082	13,752
March	9,216	13,672
April	9,196	13,234
May	9,527	13,248
June	9,369	13,408
July	9,947	13,406
August	10,089	13,378
September		
October		
November		
December		



GUAM POWER AUTHORITY
GOVERNMENT ACCOUNTS RECEIVABLE
Billing up to August 31, 2022 and payments as of 09/12/2022

Current (08/31/2022 Billing due 09/30/2022)
31 days Arrears 07/31/2022 due 08/31/2022)
61 days and over Arrears (06/30/22 billing due 07/31/2022)

CC&B New Acct Numer		DEPARTMENT	CC&B BALANCE 07/31/2022	CANCEL/REBILL/ SPEC CHARGE 09/12/2022	BILLING 08/31/2022	PAYMENT UP TO 09/12/2022	CC&B BALANCE 09/12/2022	AGING 0-30 Days	31-60 Days	61-90 Days	91-120 Days	>120 Days	Total
		Line Agencies											
3404311949	LINE AGENCIES	Guam Environmental Protect	18,550.39	-	9,322.91	(8,960.89)	18,912.41	9,322.91	9,589.50	-	-	-	18,912.41
4554808900	LINE AGENCIES	Nieves Flores Library	28,818.63	-	14,911.54	(14,249.88)	29,480.29	14,911.54	14,568.75	-	-	-	29,480.29
6069461950	LINE AGENCIES	Dept of Youth Affairs (Federal)	993.31	-	679.66	(340.41)	1,332.56	679.66	652.90	-	-	-	1,332.56
6293410000	LINE AGENCIES	Office of the Governor	58,434.65	-	30,658.12	(58,434.65)	30,658.12	30,658.12	-	-	-	-	30,658.12
6841080463	LINE AGENCIES	Guam Behavioral Health & Wellness	11,251.63	-	5,797.74	(5,412.38)	11,636.99	5,797.74	5,805.25	34.00	-	-	11,636.99
7928924534	LINE AGENCIES	Guam Visitors Bureau	6,703.84	-	6,419.90	(6,703.84)	6,419.90	6,419.90	-	-	-	-	6,419.90
3227759982	LINE AGENCIES	Mental Health/Subst.	138,457.82	-	70,949.80	(66,304.14)	143,103.48	70,949.80	72,153.68	-	-	-	143,103.48
7813165805	LINE AGENCIES	Pacific Energy Resource Center	2,083.12	-	758.62	(1,381.58)	1,460.16	758.62	701.54	-	-	-	1,460.16
2913461537	LINE AGENCIES	Dept. of Youth Affair* (Local)	37,370.35	-	20,819.26	(18,245.59)	39,944.02	20,819.26	19,124.76	-	-	-	39,944.02
1073430238	LINE AGENCIES	Dept. of Corrections	203,294.04	-	105,504.84	(97,161.92)	211,636.96	105,504.84	106,132.12	-	-	-	211,636.96
3558733700	LINE AGENCIES	Dept of Chamorro Affairs/Chamorro Village (NET METER)	42.48	-	14.16	(28.32)	28.32	14.16	14.16	-	-	-	28.32
1099514147	LINE AGENCIES	Dept of Chamorro Affairs/Repository	472.35	-	289.11	(472.35)	289.11	289.11	-	-	-	-	289.11
9541109130	LINE AGENCIES	General Services Agency	585.58	-	303.24	(585.58)	303.24	303.24	-	-	-	-	303.24
7663706771	LINE AGENCIES	Yona Senior Citizen Center	1,974.31	-	980.73	(937.60)	2,017.44	980.73	1,036.71	-	-	-	2,017.44
8564647941	LINE AGENCIES	DOA Supply Mgmt (NET METERED)	2,526.29	-	1,327.90	(2,526.29)	1,327.90	1,327.90	-	-	-	-	1,327.90
0070861777	LINE AGENCIES	Veteran Affairs	5,682.50	-	2,841.06	-	8,523.56	2,841.06	2,991.73	2,690.77	-	-	8,523.56
5247210000	LINE AGENCIES	Mayors Council	21,441.38	264.94	3,897.66	(3,825.01)	21,778.97	4,162.60	3,610.13	3,825.01	3,799.80	6,381.43	21,778.97
4129948191	LINE AGENCIES	Dept of Chamorro Affairs/Chamorro Village	11,205.32	-	3,858.58	(7,056.32)	8,007.58	3,858.58	4,149.00	-	-	-	8,007.58
4211873236	LINE AGENCIES	Dept. of Administration	30,670.47	-	15,370.70	(27,559.12)	18,482.05	15,370.70	3,111.35	-	-	-	18,482.05
1621790133	LINE AGENCIES	DOA-Data Processing	25,762.18	-	13,628.33	(12,153.25)	27,237.26	13,628.33	13,608.93	-	-	-	27,237.26
1595188609	LINE AGENCIES	Dept. of Agriculture	39,115.46	-	17,062.08	(15,593.80)	40,583.74	17,062.08	16,385.04	7,136.62	-	-	40,583.74
8300435373	LINE AGENCIES	Civil Defense (Military Affairs)	44,692.27	-	15,841.50	(44,692.27)	15,841.50	15,841.50	-	-	-	-	15,841.50
0453170939	LINE AGENCIES	Guam Fire Department	42,343.07	-	21,908.35	(20,527.52)	43,723.90	21,908.35	21,815.55	-	-	-	43,723.90
8555858369	LINE AGENCIES	Dept of Chamorro Affairs (Guam Museum)	74,688.80	-	37,984.82	(33,559.19)	79,114.43	37,984.82	41,129.61	-	-	-	79,114.43
1896187753	LINE AGENCIES	Dept. of PH&SS	200,406.28	-	53,294.01	(90,421.28)	163,279.01	53,294.01	53,029.40	50,510.41	6,445.19	-	163,279.01
0040515913	LINE AGENCIES	Dept. of Parks & Rec.	29,822.69	-	16,290.58	(14,821.66)	31,291.61	16,290.58	15,001.03	-	-	-	31,291.61
2535590089	LINE AGENCIES	DPW-FAC Adm Account	76,654.70	-	23,110.08	(21,599.56)	78,165.22	23,110.08	23,024.70	21,550.88	10,479.56	-	78,165.22
6504086567	LINE AGENCIES	DPW-FAC Adm Account (NET METERED)	42,669.51	-	15,075.45	(13,211.85)	44,533.11	15,075.45	15,664.18	13,793.48	-	-	44,533.11
7252821074	LINE AGENCIES	Dept. of Education	6,012,044.28	-	1,371,202.36	(4,743,818.21)	2,639,428.43	1,371,202.36	1,220,074.92	48,151.15	-	-	2,639,428.43
0266069082	LINE AGENCIES	Guam Police Department	150,421.10	25.00	61,417.52	(110,009.80)	101,853.82	61,417.52	40,436.30	-	-	-	101,853.82
		Sub-total	**7,319,178.80**	**289.94**	**1,941,520.61**	**(5,440,594.26)**	**3,820,395.09**	**1,941,785.55**	**1,703,811.24**	**147,692.32**	**20,724.55**	**6,381.43**	**3,820,395.09**
		Mayors											
6393530237	MAYORS	Hagatna Mayor	1,698.31	-	749.54	(720.03)	1,727.82	749.54	978.28	-	-	-	1,727.82
4469579998	MAYORS	Merizo Mayor	2,731.58	-	1,635.80	(1,103.36)	3,264.02	1,635.80	1,628.22	-	-	-	3,264.02
1880297633	MAYORS	Talofofo Mayor	3,559.04	-	1,870.81	(1,670.38)	3,759.47	1,870.81	1,888.66	-	-	-	3,759.47
0492244686	MAYORS	Asan/Maina/Adelup Mayor	3,785.31	-	1,747.57	(1,763.27)	3,769.61	1,747.57	2,021.94	0.10	-	-	3,769.61
3293808984	MAYORS	Piti Mayor	3,246.84	-	1,675.12	(1,354.77)	3,567.19	1,675.12	1,892.07	-	-	-	3,567.19
7202265287	MAYORS	Umatac Mayor	2,393.36	-	1,104.46	(1,055.75)	2,442.07	1,104.46	1,337.61	-	-	-	2,442.07
1837525565	MAYORS	Yona Mayor	8,095.82	-	3,755.35	(3,908.16)	7,943.01	3,755.35	4,187.66	-	-	-	7,943.01
5763167341	MAYORS	Barrigada Mayors Office	9,175.83	-	4,678.05	(4,234.47)	9,619.41	4,678.05	4,941.36	-	-	-	9,619.41
8715052935	MAYORS	Mongmong/Toto/Maite Mayor	2,917.18	-	1,601.49	(1,435.95)	3,082.72	1,601.49	1,481.23	-	-	-	3,082.72
7037924246	MAYORS	Yigo Mayor	9,732.09	-	5,348.53	(4,493.23)	10,587.39	5,348.53	5,238.86	-	-	-	10,587.39
8433959204	MAYORS	Sinajana Mayor	14,168.78	-	5,969.17	(7,313.39)	12,824.56	5,969.17	6,855.39	-	-	-	12,824.56
8472200165	MAYORS	Agana Hts. Mayor	8,801.32	-	3,660.69	(4,539.18)	7,922.83	3,660.69	4,262.14	-	-	-	7,922.83
3832327736	MAYORS	Santa Rita Mayor	9,369.30	-	4,734.58	(4,543.39)	9,560.49	4,734.58	4,825.91	-	-	-	9,560.49
3631627996	MAYORS	Mangilao Mayor	6,480.00	-	3,178.61	(3,305.76)	6,352.85	3,178.61	3,174.24	-	-	-	6,352.85
8041715847	MAYORS	Dededo Mayor	14,747.75	-	7,628.53	(7,271.05)	15,105.23	7,628.53	7,476.70	-	-	-	15,105.23
6957205325	MAYORS	Tamuning Mayor	14,347.69	-	6,993.95	(6,850.45)	14,491.19	6,993.95	7,497.24	-	-	-	14,491.19
6078244037	MAYORS	Inarajan Mayor	6,958.90	-	3,995.47	(3,023.48)	7,930.89	3,995.47	3,935.42	-	-	-	7,930.89
7247791682	MAYORS	Agat Mayor	7,128.03	-	3,808.78	(3,307.75)	7,629.06	3,808.78	3,820.28	-	-	0.00	7,629.06
9351070242	MAYORS	Ordot/Chalan Pago Mayor	2,482.80	-	1,290.24	(975.21)	2,797.83	1,290.24	909.78	597.81	-	-	2,797.83
		Sub-total	**131,819.93**	**-**	**65,426.74**	**(62,869.03)**	**134,377.64**	**65,426.74**	**68,352.99**	**597.91**	**-**	**0.00**	**134,377.64**
		DPW Accounts											
0832698062	DPW ACCOUNTS	DPW-Signal Lights	32,897.45	-	11,708.50	(5,771.56)	38,834.39	11,708.50	11,866.48	10,419.01	4,840.40	-	38,834.39
0930959866	DPW ACCOUNTS	DPW- Primary St. Lights	407,328.05	2,517.86	79,508.72	(75,569.23)	413,785.40	82,026.58	77,393.21	77,081.10	75,569.23	101,715.28	413,785.40
3045433600	DPW ACCOUNTS	DPW-Village St. Lights	1,339,736.80	29,501.55	337,346.76	(315,344.81)	1,391,240.30	366,848.31	327,848.92	329,348.48	321,135.64	46,058.95	1,391,240.30
3088040552	DPW ACCOUNTS	DPW-Sec/Coll St. Lights	87,397.28	-	21,104.73	(40,649.46)	67,852.55	21,104.73	20,532.06	20,574.59	5,641.17	-	67,852.55
		Sub-total	**1,867,359.58**	**32,019.41**	**449,668.71**	**(437,335.06)**	**1,911,712.64**	**481,688.12**	**437,640.67**	**437,423.18**	**407,186.44**	**147,774.23**	**1,911,712.64**
		Autonomous/Public Corp											
0838495949	AUTONOMOUS/P	Guam Waterworks Authority	1,861,515.99	-	1,806,695.75	(1,861,515.99)	1,806,695.75	1,806,695.75	-	-	-	-	1,806,695.75
1540692986	AUTONOMOUS/P	Retirement Fund	14,533.85	-	7,527.37	(14,533.85)	7,527.37	7,527.37	-	-	-	-	7,527.37
4075914809	AUTONOMOUS/P	GPA	-	(114,905.20)	114,905.20	-	-	-	-	-	-	-	-
5357510000	AUTONOMOUS/P	University of Guam (NET METERED)	100,475.80	-	101,641.43	(100,475.80)	101,641.43	101,641.43	-	-	-	-	101,641.43
6518220019	AUTONOMOUS/P	Guam Community College	52,621.41	-	53,719.52	(52,621.41)	53,719.52	53,719.52	-	-	-	-	53,719.52
7736362694	AUTONOMOUS/P	Guam Airport Authority	698,625.21	(90,659.16)	669,716.63	(698,625.21)	579,057.47	579,057.47	-	-	-	-	579,057.47
8302337726	AUTONOMOUS/P	Guam Memorial Hospital	123,649.60	-	44,900.81	(38,677.51)	129,872.90	44,900.81	45,928.55	39,043.54	-	-	129,872.90
8426836906	AUTONOMOUS/P	Guam Memorial Hospital (NET METERED)	629,898.40	-	239,473.05	(199,778.68)	669,592.77	239,473.05	230,929.14	199,190.58	-	-	669,592.77
9157510000	AUTONOMOUS/P	Guam Community College (NET METERED)	54,241.97	-	55,508.69	(54,241.97)	55,508.69	55,508.69	-	-	-	-	55,508.69
0563872892	AUTONOMOUS/P	Guam Housing Corp Rental Division	1,378.21	50.00	1,576.38	(1,404.45)	1,600.14	1,600.14	-	-	-	-	1,600.14
9173210000	AUTONOMOUS/P	Guam Solid Waste Authority	19,317.17	-	10,544.84	(19,317.17)	10,544.84	10,544.84	-	-	-	-	10,544.84
5434075703	AUTONOMOUS/P	University of Guam	241,254.52	(4,213.20)	242,981.21	(237,041.32)	242,981.21	238,768.01	4,213.20	-	-	-	242,981.21

GUAM POWER AUTHORITY
GOVERNMENT ACCOUNTS RECEIVABLE
Billing up to August 31, 2022 and payments as of 09/12/2022

Current (08/31/2022 Billing due 09/30/2022)
31 days Arrears 07/31/2022 due 08/31/2022)
61 days and over Arrears (06/30/22 billing due 07/31/2022)

CC&B New Acct Numer		DEPARTMENT	CC&B BALANCE 07/31/2022	CANCEL/REBILL/ SPEC CHARGE 09/12/2022	BILLING 08/31/2022	PAYMENT UP TO 09/12/2022	CC&B BALANCE 09/12/2022	AGING 0-30 Days	31-60 Days	61-90 Days	91-120 Days	>120 Days	Total
1699407298	AUTONOMOUS/P	G H U R A	53,638.79	-	34,954.86	(57,856.92)	30,736.73	30,736.73	-	-	-	-	30,736.73
4474308144	AUTONOMOUS/P	Port Authority of Guam	212,460.09	(10,574.85)	131,002.04	(212,460.09)	120,427.19	120,427.19	-	-	-	-	120,427.19
		Sub-total	**4,063,611.01**	**(220,302.41)**	**3,515,147.78**	**(3,548,550.37)**	**3,809,906.01**	**3,290,601.00**	**281,070.89**	**238,234.12**	**-**	**-**	**3,809,906.01**
		Others											
3209463043	OTHERS	Dept. of Military Affairs (NET METERED)	69,495.81	-	27,493.18	(46,620.33)	50,368.66	27,493.18	22,875.48	-	-	-	50,368.66
4530787043	OTHERS	U.S. Post Office	51,732.82	-	57,416.94	(51,732.82)	57,416.94	57,416.94	-	-	-	-	57,416.94
6000770566	OTHERS	KGTF	16,754.86	-	5,162.07	-	21,916.93	5,162.07	6,923.58	9,831.28	-	-	21,916.93
6602566745	OTHERS	Tamuning Post Office	8,034.47	-	8,058.92	(8,034.47)	8,058.92	8,058.92	-	-	-	-	8,058.92
7541928173	OTHERS	Guam Legislature	508.40	-	443.32	(508.40)	443.32	443.32	-	-	-	-	443.32
8108458168	OTHERS	Guam Post Office (Agana)	8,556.89	-	8,240.99	(8,556.89)	8,240.99	8,240.99	-	-	-	-	8,240.99
8353274954	OTHERS	Superior Court of Guam	74,671.27	-	76,028.22	(74,671.27)	76,028.22	76,028.22	-	-	-	-	76,028.22
8607446612	OTHERS	Dept. of Military Affairs	306,058.00	(756.36)	108,571.15	(256,245.37)	157,627.42	108,571.15	49,056.27	-	-	-	157,627.42
8972267005	OTHERS	Customs & Quarantine Agency	3,162.34	-	847.64	-	4,009.98	847.64	850.65	796.23	905.85	609.61	4,009.98
9503154359	OTHERS	Guam Legislature (NET METERED)	11,016.85	-	11,424.11	(11,016.85)	11,424.11	11,424.11	-	-	-	-	11,424.11
		Sub-total	**549,991.71**	**(756.36)**	**303,686.54**	**(457,386.40)**	**395,535.49**	**303,686.54**	**79,705.98**	**10,627.51**	**905.85**	**609.61**	**395,535.49**
Grand Total			**13,931,961.03**	**(188,749.42)**	**6,275,450.38**	**(9,946,735.12)**	**10,071,926.87**	**6,083,187.95**	**2,570,581.77**	**834,575.04**	**428,816.84**	**154,765.27**	**10,071,926.87**

GUAM POWER AUTHORITY
ATURIDAT ILEKTRESEDAT GUAHAN
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GUAM POWER AUTHORITY
FINANCIAL STATEMENT OVERVIEW
August 2022

Attached are the financial statements and supporting schedules for the month and fiscal year ended August 31, 2022.

Summary
The decrease in net assets for the month ended was $0.2 million as compared to the anticipated net increase of $1.7 million and projected at the beginning of the year. The total kWh sales for the month were 1.77% more than projected and non-fuel revenues were $0.2 million less than the estimated amounts. O & M expenses for the month were $6.8 million which was $0.1 million more than our projections for the month. Other expenses for the month such as interest expense, IPP costs, (net of interest income and other income) totaled to $2.2 million, which was under projected amounts by $0.7 million. There were no other significant departures from the budget during the period.

Analysis

Description	Previous Month	Current Month	Target
Quick Ratio	1.34	1.47	2
Days in Receivables	54	47	52
Days in Payables	46	32	30
LEAC (Over)/Under Recovery Balance -YTD	$44,892,540	$47,101,089	$34,673,572
T&D Losses	5.53%	5.52%	<7.00%
Debt Service Coverage	1.66	1.47%	1.75
Long-term equity ratio	5.83%	5.41%	30 – 40%
Days in Cash	68	63	60

The Quick Ratio has been a challenge for GPA historically. GPA has current obligations of approximately $85 million and approximately $126 million in cash and current receivables. The LEAC under-recovery for the month was $2.2 million. Debt Service Coverage ratio is calculated using the methodology in use before the Fiscal Year 2002 change in accounting practice.

Financial Statements
August 2022

Significant Assumptions

The significant assumptions in the financial statements are as follows:

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

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

GUAM POWER AUTHORITY
(A COMPONENT UNIT OF THE GOVERNMENT OF GUAM)
Statements of Net Position
August 31, 2022 and September 30, 2021

	Unaudited August 2022	Audited September 2021	Change from Sept 30 2021
ASSETS AND DEFERRED OUTFLOWS OF RESOURCES			
Current assets:			
Cash and cash equivalents:			
Held by trustee for restricted purposes:			
Interest and principal funds	$ 80,126,610	$ 113,427,046	$ (33,300,436)
Bond indenture funds	2,100,279	7,636,028	(5,535,749)
Held by Guam Power Authority:			
Bond indenture funds	66,852,531	70,929,564	(4,077,033)
Self insurance fund-restricted	12,132,968	9,478,718	2,654,250
Energy sense fund	3,255,762	2,478,883	776,878
Total cash and cash equivalents	164,468,149	203,950,239	(39,482,090)
Accounts receivable, net	56,182,163	41,836,294	14,345,869
Total current receivables	56,182,163	41,836,294	14,345,869
Materials and supplies inventory	13,407,037	12,999,867	407,170
Fuel inventory	50,372,825	36,234,483	14,138,342
Prepaid expenses	6,758,769	3,307,390	3,451,378
Total current assets	291,188,943	298,328,273	(7,139,330)
Utility plant, at cost:			
Electric plant in service	1,186,851,440	1,164,457,692	22,393,748
Construction work in progress	21,942,207	24,018,930	(2,076,723)
Total	1,208,793,647	1,188,476,622	20,317,025
Less: Accumulated depreciation	(734,934,184)	(703,965,760)	(30,968,424)
Total utility plant	473,859,463	484,510,861	(10,651,398)
Other non-current assets:			
Investment - bond reserve funds held by trustee	21,952,644	50,433,584	(28,480,940)
Unamortized debt issuance costs	466,196	1,684,472	(1,218,276)
Total other non-current assets	22,418,840	52,118,056	(29,699,216)
Total assets	787,467,247	834,957,191	(47,489,944)
Deferred outflow of resources:			
Deferred fuel revenue	47,101,089	14,168,085	32,933,003
Unamortized loss on debt refunding	35,155,045	20,172,384	14,982,661
Pension	17,136,754	17,136,754	0
Other post employment benefits	48,852,130	48,852,130	0
Unamortized forward delivery contract costs			0
Total deferred outflows of resources	148,245,018	100,329,354	47,915,665
	$ 935,712,265	$ 935,286,545	$ 425,720

GUAM POWER AUTHORITY
(A COMPONENT UNIT OF THE GOVERNMENT OF GUAM)
Statement of Net Position, Continued
August 31, 2022 and September 30, 2021

	Unaudited August 2022	Audited September 2021	Change from Sept 30 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	0	1	(1)
Accounts payable			
Operations	38,033,062	24,791,092	13,241,970
Others	929,881	363,933	565,948
Accrued payroll and employees' benefits	1,433,842	389,833	1,044,009
Current portion of employees' annual leave	1,840,795	2,134,083	(293,288)
Interest payable	11,369,813	13,995,961	(2,626,149)
Customer deposits	8,937,781	9,095,907	(158,126)
Total current liabilities	85,250,174	72,310,810	12,939,364
Regulatory liabilities:			
Provision for self insurance	10,715,312	9,955,323	759,989
Total regulatory liabilities	10,715,312	9,955,323	759,989
Long term debt, net of current maturities	509,815,239	535,280,390	(25,465,151)
Obligations under capital leases, net of current portion			0
Net Pension liability	85,092,446	88,431,082	(3,338,637)
Other post employment benefits liability	160,364,667	160,364,667	0
DCRS sick leave liability	1,695,518	1,695,518	0
Employees' annual leave net of current portion	1,842,137	1,842,137	0
Customer advances for construction	525,311	470,165	55,146
Total liabilities	855,300,804	870,350,093	(15,049,289)
Deferred inflows of resources:			
Unearned forward delivery contract revenue	0	0	0
Pension	3,238,796	3,238,796	0
Other post employment benefits	51,902,993	51,902,993	(0)
Total deferred inflows of resources	55,141,789	55,141,789	(0)
Commitments and contigencies			
Net Position:			
Net investment in capital assets	(9,108,123)	(16,641,173)	7,533,051
Restricted	79,373,309	142,016,697	(62,643,387)
Unrestricted	(44,995,515)	(115,580,861)	70,585,347
Total net position	25,269,672	9,794,663	15,475,010
	$ 935,712,265	$ 935,286,545	$ 425,720

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

	August 31			Eleven Months Ended August 31		
	Unaudited 2022	Audited 2021	% of change Inc (dec)	Unaudited 2022	Audited 2021	% of change Inc (dec)
Revenues						
Sales of electricity	$ 46,055,674	$ 30,414,525	51	$ 422,136,110	$ 294,328,916	43
DSM-Rebates	322,796	329,854	(2)	3,494,933	3,535,160	(1)
Miscellaneous	111,615	100,104	11	2,178,534	1,732,756	26
Total	46,490,084	30,844,483	51	427,809,576	299,596,832	43
Bad debt expense	(101,917)	(87,083)	17	(1,121,087)	(957,913)	17
Total revenues	46,388,167	30,757,400	51	426,688,489	298,638,919	43
Operating and maintenance expenses						
Production fuel	32,999,327	15,685,037	110	277,319,562	148,727,074	86
Other production	1,717,431	1,621,791	6	16,987,697	16,625,746	2
	34,716,758	17,306,828	101	294,307,259	165,352,820	78
Depreciation	2,904,725	1,815,263	60	31,999,438	34,709,448	(8)
Energy conversion cost	838,002	829,574	1	9,039,445	10,459,642	(14)
Transmission & distribution	1,427,836	1,189,866	20	13,467,424	12,549,479	7
Customer accounting	725,472	571,122	27	6,528,113	5,965,800	9
Administrative & general	2,908,538	2,468,755	18	29,674,159	29,391,927	1
Total operating and maintenance expenses	43,521,331	24,181,408	80	385,015,838	258,429,116	49
Operating income	2,866,836	6,575,992	(56)	41,672,651	40,209,803	4
Other income (expenses)						
Interest income	84,845	2,603	3,160	910,851	762,972	19
Interest expense and amortization	(1,903,555)	(2,191,351)	(13)	(23,089,775)	(24,140,126)	(4)
Bond issuance costs	(167,166)	89,228	(287)	(2,589,151)	981,508	(364)
Change in Investment Value	28,356			(61,843)	0	
Allowance for funds used during construction	5,108	33,922	0	118,800	768,875	0
Pandemic-COVID19	(17,930)		0	(250,699)	(199,412)	0
Losses due to typhoon	(1,054,612)		0	(2,198,164)	(981,641)	0
Grant from GovGuam			0	0	0	0
Reduction in Under Recovery of Fuel			0	0	0	0
Other expense		(4,291)	(100)	(8,582)	(47,204)	(82)
Total other income (expenses)	(3,024,954)	(2,069,889)	46	(27,168,564)	(22,855,028)	19
Income (loss) before capital contributions	(158,118)	4,506,103	(104)	14,504,088	17,354,775	(16)
Capital contributions			0	970,920	0	0
Increase (decrease) in net assets	(158,118)	4,506,103	(104)	15,475,008	17,354,775	(11)
Total net assets at beginning of period	25,427,789	14,414,886	76	9,794,664	1,566,214	525
Total net assets at end of period	$ 25,269,672	$ 18,920,989	34	$ 25,269,672	$ 18,920,989	34

GUAM POWER AUTHORITY
(A COMPONENT UNIT OF THE GOVERNMENT OF GUAM)
Statements of Cash Flows
Period Ended August 31, 2022

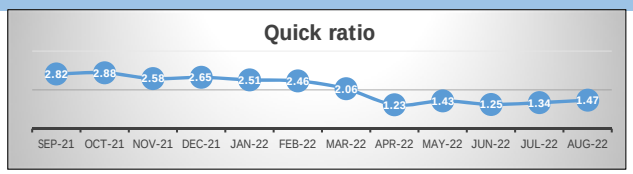
	Month Ended 8/31/2022	YTD Ended 8/31/2022
Increase(decrease) in cash and cash equivalents		
Cash flows from operating activities:		
Cash received from customers	$60,426,869	$ 412,363,314
Cash payments to suppliers and employees for goods and services	48,287,320	411,677,835
Net cash provided by operating activities	$12,139,548	685,479
Cash flows from investing activities:		
Interest and dividends on investments and bank accounts	84,845	910,851
Net cash provided by investing activities	84,845	910,851
Cash flows from non-capital financing activities		
Interest paid on short term debt	(3,385)	(58,674)
Provision for self insurance funds	-	(2,654,250)
Net cash provided by noncapital financing activities	(3,385)	(2,712,924)
Cash flows from capital and related financing activities		
Acquisition of utility plant	2,306,224	(21,348,039)
Principal paid on bonds and other long-term debt	-	(29,050,000)
Interest paid on bonds(net of capitalized interest)	33,464	(25,600,293)
Interest paid on capital lease obligations	-	-
Interest & principal funds held by trustee	(16,955,922)	33,300,436
Reserve funds held by trustee	(28,483)	28,480,940
Bond funds held by trustee	(2,039)	5,535,749
Principal payment on capital lease obligations	0	(1)
Grant from DOI/FEMA	-	970,920
Grant from GovGuam	-	-
Reduction in Under Recovery of Fuel	-	-
Debt issuance costs/loss on defeasance	(201,441)	4,749,849
Net cash provided by (used in) capital and related financing activities	(14,848,197)	(2,960,440)
Net (decrease) increase in cash and cash equivalents	(2,627,188)	(4,077,035)
Cash and cash equivalents, beginning	69,479,720	70,929,564
Cash and cash equivalents-Funds held by GPA, August 31, 2022	**$ 66,852,532**	**$ 66,852,530**

GUAM POWER AUTHORITY
(A COMPONENT UNIT OF THE GOVERNMENT OF GUAM)
Statements of Cash Flows, continued
Period Ended August 31, 2022

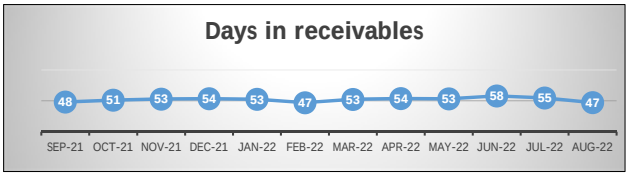
	Month Ended 8/31/2022	YTD Ended 8/31/2022
Reconciliation of operating earnings to net cash provided by operating activities:		
Operating earnings net of depreciation expense and excluding interest income	($9,788)	$41,672,651
Adjustments to reconcile operating earnings to net cash provided by operating activities:		
Depreciation and amortization	2,904,725	31,999,438
Other expense	(1,239,708)	(5,046,596)
(Increase) decrease in assets:		
Accounts receivable	14,031,070	(14,345,869)
Materials and inventory	217,351	(407,170)
Fuel inventory	14,198,997	(14,138,342)
Prepaid expenses	673,735	(3,451,378)
Unamortized debt issuance cost	3,899	1,218,276
Deferred fuel revenue	668,075	(32,933,003)
Unamortized loss on debt refunding	364,708	(14,982,661)
Unamortized forward delivery contract costs	-	-
Increase (decrease) in liabilities:		
Accounts payable-operations	(15,124,504)	13,241,970
Accounts payable-others	(2,436,269)	(210,930)
Accrued payroll and employees' benefits	460,396	1,044,009
Provision for Self-Insurance	(2,198,904)	759,989
Net pension liability	(314,036)	(3,338,637)
Employees' annual leave	(34,277)	(293,288)
Customers deposits	(25,117)	(158,126)
Customer advances for construction	(805)	55,146
Unearned forward delivery contract revenue	-	-
Net cash provided by operating activities	**$12,139,548**	**$ 685,479**

Guam Power Authority
Financial Analysis
08/31/22

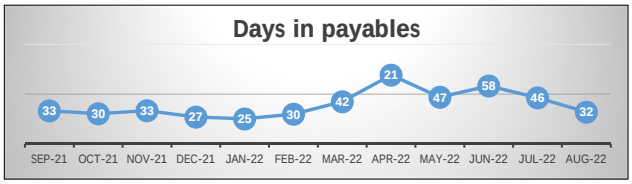
	Quick Ratio		
A	Reserve Funds Held by GPA		66,852,531
B	Current Accounts Receivable		58,657,053
C	Total Cash and A/R (A+B)		125,509,584
D	Total Current Liabilities		85,250,174
E	**Quick Ratio (F/G)**		**1.47**



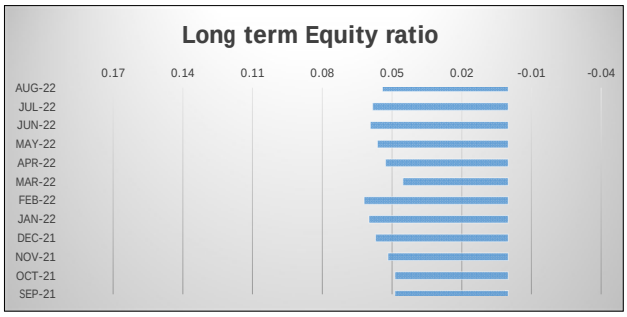
	Days in Receivables		
A	FY 22 Moving 12 Mos.-Actual		452,041,558
B	No. of Days		365
C	Average Revenues per day (A/B)		1,238,470
D	Current Accounts Receivable		58,657,053
E	**Days in Receivables (D/C)**		**47**



	Days in Payables		
A	FY 22 Moving 12 Months-Actual		445,820,440
B	No. of Days		365
C	Average Payables per day (A/B)		1,221,426
D	Current Accounts Payables		38,962,943
E	**Days in Payables (D/C)**		**32**

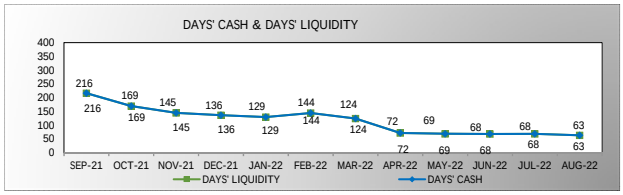


	Long term equity ratio		
A	Equity	$	25,269,672
B	Total Long term Liability	$	441,810,798
C	Total Equity and liability	$	467,080,470
D	**Long term equity ratio (A/C)**		**5.41%**



	Days cash on hand		
A	Unresctricted cash & cash equivalents		66,853
B	No. of Days -YTD		335
C	A x B		22,395,598
D	Total Operating expenses excluding depreciation		353,012
E	**Days cash on hand**		**63**

	Days' Liquidity		
A	Unresctricted cash , cash equivalents & revolving Credit		66,853
B	No. of Days -YTD		335
C	A x B		22,395,598
D	Total Operating expenses excluding depreciation		353,012
E	**Days liquidity**		**63**



GPA 302

GUAM POWER AUTHORITY
ACCRUED REVENUE
AUGUST 2022

	FOR THE MONTH ENDED AUGUST		ELEVEN MONTHS ENDED AUGUST	
	2022	**2021**	**2022**	**2021**
KWH SALES:				
Residential	44,989,464	46,760,737	503,677,561	534,159,695
Residential - Apt & Condo	620,409	632,147	6,928,102	2,519,151
Small Gen. Non Demand	7,440,992	6,793,429	77,639,552	68,602,640
Small Gen. Demand	16,167,671	16,098,295	172,549,978	173,628,217
Large General	19,069,312	18,597,960	196,677,564	201,459,622
Independent Power Producer	138,482	34,376	671,217	392,693
Private St. Lights	31,100	32,913	348,235	360,106
Sub-total	88,457,429	88,949,856	958,492,209	981,122,124
Government Service:				
Small Non Demand	1,724,457	999,588	13,553,172	9,732,216
Small Demand	9,030,378	9,198,450	101,566,991	93,766,388
Large	4,226,126	4,412,625	45,628,675	50,207,970
Street Lighting	431,751	558,806	4,798,937	6,443,582
Sub-total	15,412,712	15,169,469	165,547,774	160,150,157
Total	103,870,141	104,119,326	1,124,039,983	1,141,272,280
U. S. Navy	26,068,076	26,692,993	287,398,091	284,927,293
GRAND TOTAL	**129,938,216**	**130,812,319**	**1,411,438,074**	**1,426,199,573**
REVENUE:				
Residential	15,501,990	10,967,335	147,265,820	105,470,304
Residential - Apt & Condo	208,421	136,247	1,925,196	500,986
Small Gen. Non Demand	2,870,269	1,888,758	26,084,230	16,728,516
Small Gen. Demand	5,821,429	3,993,223	53,204,882	37,645,343
Large General	6,668,404	4,358,675	58,676,814	41,681,229
Independent Power Producer	48,493	9,000	211,655	81,671
Private St. Lights	28,066	24,904	289,646	262,369
Sub-total	31,147,072	21,378,144	287,658,243	202,370,418
Government Service:				
Small Non Demand	675,632	284,291	4,728,417	2,540,759
Small Demand	3,429,062	2,374,691	32,613,726	21,854,052
Large	1,521,084	1,065,159	13,853,233	11,041,019
Street Lighting	442,151	413,021	4,597,512	4,413,320
Sub-total	6,067,930	4,137,162	55,792,889	39,849,150
Total	37,215,002	25,515,306	343,451,132	242,219,568
U. S. Navy	8,840,672	4,899,219	78,684,978	52,109,349
GRAND TOTAL	**46,055,673**	**30,414,525**	**422,136,110**	**294,328,917**
NUMBER OF CUSTOMERS:				
Residential	45,368	45,311	45,256	44,693
Residential - Apt & Condo	5	6	6	6
Small Gen. Non Demand	4,557	4,508	4,545	4,428
Small Gen. Demand	737	743	732	794
Large General	84	85	84	92
Independent Power Producer	3	2	2	2
Private St. Lights	512	514	515	515
Sub-total	51,266	51,169	51,140	50,530
Government Service:				
Small Non Demand	727	694	714	684
Small Demand	343	344	345	351
Large	18	20	18	29
Street Lighting	644	620	642	618
Sub-total	1,732	1,678	1,720	1,683
Total	52,998	52,847	52,860	52,212
US Navy	1	1	1	1
	52,999	**52,848**	**52,861**	**52,213**

GPA403

GUAM POWER AUTHORITY
ACCRUED REVENUE

	TWELVE MONTHS ENDING	AUGUST 2022	JULY 2022	JUNE 2022	MAY 2022	APRIL 2022	MARCH 2022	FEBRUARY 2022	JANUARY 2022	DECEMBER 2021	NOVEMBER 2021	OCTOBER 2021	SEPTEMBER 2021
KWH SALES:													
Residential	550,705,963	44,989,464	44,154,849	47,510,233	51,037,002	44,827,694	47,815,123	39,923,993	42,583,516	46,538,778	48,087,642	46,209,267	47,028,402
Residential - Apt & Condo	7,565,116	620,409	612,209	624,516	662,382	629,926	646,224	582,003	591,956	633,883	662,924	661,671	637,015
Small General Non Demand	84,232,620	7,440,992	7,261,891	7,434,610	7,689,374	7,111,304	7,313,324	6,163,584	6,516,077	6,938,206	6,873,816	6,896,374	6,593,068
Small General Demand	188,005,709	16,167,671	15,923,953	15,900,378	16,437,610	15,688,765	16,016,611	13,931,042	15,227,550	14,567,004	16,599,417	16,089,978	15,455,731
Large General	214,382,452	19,069,312	19,068,609	17,761,359	18,665,972	17,415,349	17,850,197	15,959,051	17,347,581	18,060,941	17,942,248	17,536,945	17,704,888
Private Outdoor Lighting	381,675	31,100	29,325	32,900	32,404	32,182	30,956	28,471	34,343	31,428	33,774	31,353	33,440
Independent Power Producer	698,910	138,482	236,018	30,848	35,255	29,804	30,892	28,484	34,010	37,609	41,173	28,642	27,693
Sub-Total	1,045,972,445	88,457,429	87,286,854	89,294,844	94,559,997	85,735,024	89,703,327	76,616,627	82,335,033	86,807,849	90,240,994	87,454,230	87,480,236
Government Service:													
Small Non Demand	14,526,671	1,724,457	1,560,970	1,560,061	1,514,054	1,272,285	1,094,785	885,547	952,380	1,015,527	954,648	1,018,457	973,499
Small Demand	110,348,047	9,030,378	8,972,206	9,405,103	9,574,007	9,214,457	9,691,249	8,561,806	9,063,503	9,316,295	9,376,567	9,361,419	8,781,057
Large	49,711,817	4,226,126	4,206,439	4,164,128	4,384,435	4,164,441	4,318,253	3,749,143	3,961,149	4,051,217	4,066,393	4,336,950	4,083,142
Street Lighting (Agencies)	5,433,514	431,751	390,067	459,745	418,078	459,781	404,109	390,182	418,676	445,599	403,673	577,276	634,577
Sub-Total	180,020,048	15,412,712	15,129,682	15,589,036	15,890,575	15,110,963	15,508,396	13,586,678	14,395,709	14,828,638	14,801,282	15,294,102	14,472,274
Total	1,225,992,493	103,870,141	102,416,536	104,883,881	110,450,573	100,845,986	105,211,724	90,203,305	96,730,742	101,636,487	105,042,276	102,748,332	101,952,511
U.S. Navy	314,213,385	26,068,076	27,220,577	27,095,943	27,464,912	24,814,899	26,772,254	23,776,240	25,636,295	26,567,812	25,554,904	26,426,178	26,815,294
Grand Total	1,540,205,878	129,938,216	129,637,114	131,979,824	137,915,485	125,660,886	131,983,978	113,979,545	122,367,037	128,204,299	130,597,180	129,174,510	128,767,804
REVENUE:													
Residential	$ 157,748,198	$ 15,501,990	$ 16,139,401	$ 14,292,525	$ 15,441,415	$ 14,204,936	$ 13,132,838	$ 11,151,261	$ 11,252,610	$ 12,761,388	$ 11,676,919	$ 11,710,536	$ 10,482,378
Residential - Apt & Condo	$ 2,061,304	$ 208,421	$ 206,426	$ 183,362	$ 194,164	$ 177,288	$ 170,533	$ 159,021	$ 151,878	$ 163,281	$ 155,449	$ 155,374	$ 136,108
Small General Non Demand	$ 27,839,211	$ 2,870,269	$ 2,958,905	$ 2,534,252	$ 2,651,464	$ 2,532,492	$ 2,319,749	$ 1,997,826	$ 2,004,290	$ 2,203,208	$ 1,963,390	$ 2,048,385	$ 1,754,981
Small General Demand	$ 56,899,123	$ 5,821,429	$ 5,997,317	$ 5,035,114	$ 5,236,896	$ 5,144,015	$ 4,657,034	$ 4,165,050	$ 4,242,475	$ 4,346,173	$ 4,258,463	$ 4,300,915	$ 3,694,240
Large General	$ 62,760,088	$ 6,668,404	$ 6,770,755	$ 5,572,044	$ 5,766,448	$ 5,488,655	$ 5,048,320	$ 4,591,953	$ 4,745,084	$ 4,983,602	$ 4,531,785	$ 4,509,766	$ 4,083,273
Private Outdoor Lighting	$ 314,255	$ 28,066	$ 26,836	$ 27,544	$ 27,149	$ 27,080	$ 25,803	$ 24,049	$ 26,616	$ 25,791	$ 25,776	$ 24,936	$ 24,609
Independent Power Producer	$ 218,265	$ 48,493	$ 77,141	$ 9,484	$ 11,813	$ 9,350	$ 8,885	$ 8,017	$ 9,848	$ 10,164	$ 11,236	$ 7,224	$ 6,610
Sub-Total	$ 307,840,443	$ 31,147,072	$ 32,176,781	$ 27,654,326	$ 29,329,349	$ 27,583,815	$ 25,363,162	$ 22,097,176	$ 22,432,800	$ 24,493,608	$ 22,623,018	$ 22,757,137	$ 20,182,200
Government Service:													
Small Non Demand	$ 5,004,090	$ 675,632	$ 614,420	$ 548,289	$ 533,475	$ 453,209	$ 363,292	$ 299,323	$ 310,685	$ 329,602	$ 291,714	$ 308,775	$ 275,673
Small Demand	$ 34,879,101	$ 3,429,062	$ 3,405,364	$ 3,140,291	$ 3,207,687	$ 3,103,444	$ 2,977,931	$ 2,664,177	$ 2,710,940	$ 2,777,914	$ 2,601,332	$ 2,595,585	$ 2,265,374
Large	$ 14,840,283	$ 1,521,084	$ 1,509,896	$ 1,322,924	$ 1,388,833	$ 1,324,224	$ 1,247,179	$ 1,096,445	$ 1,112,582	$ 1,138,639	$ 1,059,790	$ 1,131,637	$ 987,049
Street Lighting (Agencies)	$ 5,023,401	$ 442,151	$ 429,604	$ 431,223	$ 420,402	$ 431,199	$ 405,194	$ 401,995	$ 404,624	$ 410,529	$ 392,968	$ 427,622	$ 425,889
Sub-Total	$ 59,746,874	$ 6,067,930	$ 5,959,284	$ 5,442,727	$ 5,550,397	$ 5,312,075	$ 4,993,596	$ 4,461,941	$ 4,538,831	$ 4,656,684	$ 4,345,805	$ 4,463,619	$ 3,953,985
Total	$ 367,587,316	$ 37,215,002	$ 38,136,065	$ 33,097,052	$ 34,879,746	$ 32,895,890	$ 30,356,758	$ 26,559,117	$ 26,971,631	$ 29,150,292	$ 26,968,822	$ 27,220,756	$ 24,136,184
U.S. Navy	$ 84,454,242	$ 8,840,672	$ 7,492,766	$ 9,768,043	$ 8,297,876	$ 7,172,981	$ 7,472,152	$ 5,363,238	$ 6,283,772	$ 6,721,502	$ 5,716,481	$ 5,555,495	$ 5,769,264
Grand Total	$ 452,041,558	$ 46,055,673	$ 45,628,831	$ 42,865,096	$ 43,177,622	$ 40,068,870	$ 37,828,910	$ 31,922,355	$ 33,255,403	$ 35,871,795	$ 32,685,303	$ 32,776,251	$ 29,905,448
NUMBER OF CUSTOMERS:													
Residential	45,258	45,368	45,203	45,262	45,260	45,245	45,399	45,200	45,221	45,193	45,227	45,237	45,285
Residential - Apt & Condo	6	5	5	5	5	5	5	20	5	5	5	6	7
Small General Non Demand	4,542	4,557	4,539	4,539	4,557	4,560	4,568	4,549	4,547	4,538	4,523	4,515	4,511
Small General Demand	733	737	731	731	731	729	728	728	724	737	737	738	743
Large General	84	84	85	84	83	83	83	84	83	84	85	84	85
Private Outdoor Lighting	515	512	516	514	510	511	513	516	519	520	521	518	511
Independent Power Producer	2	3	3	2	2	2	2	2	2	2	2	2	2
Sub-Total	51,140	51,266	51,082	51,137	51,148	51,135	51,298	51,099	51,101	51,079	51,100	51,100	51,144
Government Service:													
Small Non Demand	713	727	723	721	721	718	720	721	705	699	709	695	696
Small Demand	345	343	343	343	342	343	344	343	345	344	358	344	344
Large	19	18	18	18	18	18	18	18	18	18	20	20	20
Street Lighting (Agencies)	640	644	644	645	642	642	642	642	642	641	641	639	620
Sub-Total	1,716	1,732	1,728	1,727	1,723	1,721	1,724	1,724	1,710	1,702	1,728	1,698	1,680
Total	52,857	52,998	52,810	52,864	52,871	52,856	53,022	52,823	52,811	52,781	52,828	52,798	52,824
U.S. Navy	1	1	1	1	1	1	1	1	1	1	1	1	1
Grand Total	52,858	52,999	52,811	52,865	52,872	52,857	53,023	52,824	52,812	52,782	52,829	52,799	52,825

GPA303

GUAM POWER AUTHORITY
ACCRUED REVENUE
AUG 2022

NEW RATE	0.251638
DSM	0.003109
NET	0.248529
$	0.2064 Old rate

RATE	NUMBER OF CUSTOMERS	KWH SALES	TOTAL REVENUE AMOUNT	TOTAL REVENUE C/KWH	BASE RATE REVENUE C/KWH	BASE RATE REVENUE AMOUNT	AVERAGE PER CUSTOMER KWH	AVERAGE PER CUSTOMER REVENUE	NON-FUEL C/KWH	NON-FUEL AMOUNT	OIL C/KWH	OIL AMOUNT
Month												
R Residential	45,368	44,989,464	$ 15,501,990	$ 34.4569	$ 34.45693	$ 15,501,990	992	$ 341.69	$ 9.6040	$ 4,320,804	$ 24.8529	$ 11,181,187
D Residential - Apt & Cond	5	620,409	$ 208,421	$ 33.5942	$ 33.59418	$ 208,421	124,082	$ 41,684.24	$ 8.7413	$ 54,232	$ 24.8529	$ 154,190
G Small Gen. Non Demand	4,557	7,440,992	$ 2,870,269	$ 38.5737	$ 38.57374	$ 2,870,269	1,633	$ 629.86	$ 13.7208	$ 1,020,966	$ 24.8529	$ 1,849,302
J Small Gen. Demand	737	16,167,671	$ 5,821,429	$ 36.0066	$ 36.00660	$ 5,821,429	21,937	$ 7,898.82	$ 11.1644	$ 1,805,018	$ 24.8422	$ 4,016,411
P Large General	84	19,069,312	$ 6,668,404	$ 34.9693	$ 34.96929	$ 6,668,404	227,016	$ 79,385.76	$ 10.2622	$ 1,956,925	$ 24.7071	$ 4,711,479
I Independent Power Pro	3	138,482	$ 48,493	$ 35.0175	$ 35.01746	$ 48,493	46,161	$ 16,164.24	$ 11.1007	$ 15,372	$ 23.9168	$ 33,120
H Private St. Lights	512	31,100	$ 28,066	$ 90.2445	$ 90.24450	$ 28,066	61	$ 54.82	$ 65.3916	$ 20,337	$ 24.8529	$ 7,729
Sub-Total	51,266	88,457,429	$ 31,147,072	$ 35.2114	$ 35.21137	$ 31,147,072	1,725	$ 607.56	$ 10.3933	$ 9,193,654	$ 24.8181	$ 21,953,418
Government Service:												
S Small Non Demand	727	1,724,457	$ 675,632	$ 39.1794	$ 39.17943	$ 675,632	2,372	$ 929.34	$ 14.3265	$ 247,055	$ 24.8529	$ 428,578
K Small Demand	343	9,030,378	$ 3,429,062	$ 37.9725	$ 37.97252	$ 3,429,062	26,328	$ 9,997.27	$ 13.1196	$ 1,184,751	$ 24.8529	$ 2,244,311
L Large	18	4,226,126	$ 1,521,084	$ 35.9924	$ 35.99240	$ 1,521,084	234,785	$ 84,504.68	$ 11.5410	$ 487,736	$ 24.4514	$ 1,033,348
F Street Lighting (Agencies	644	431,751	$ 442,151	$ 102.4090	$ 102.40895	$ 442,151	670	$ 686.57	$ 77.5561	$ 334,849	$ 24.8529	$ 107,303
Sub-Total	1,732	15,412,712	$ 6,067,930	$ 39.3696	$ 39.36965	$ 6,067,930	8,899	$ 3,503.42	$ 14.6268	$ 2,254,391	$ 24.7428	$ 3,813,539
	52,998	103,870,141	$ 37,215,002	$ 35.8284	$ 35.82839	$ 37,215,002	1,960	$ 702.20	$ 11.0215	$ 11,448,044	$ 24.8069	$ 25,766,958
U.S. Navy	1	26,068,076	$ 8,840,672	$ 33.9138	$ 33.91379	$ 8,840,672			$ 6.1696	$ 1,608,302	$ 27.7442	$ 7,232,369
TOTAL	**52,999**	**129,938,216**	**$ 46,055,673**	**$ 35.4443**	**$ 35.4443**	**$ 46,055,673**	**2,452**	**$ 868.99**	**$ 10.0481**	**$ 13,056,347**	**$ 25.3962**	**$ 32,999,327**
	-	-	$ -			-						
Eleven Months Ended August 2022												
R Residential	45,256	503,677,561	$ 147,265,820	$ 29.2381	$ 29.2381	$ 147,265,820	11,130	$ 3,254.07	$ 9.9473	$ 50,102,408	$ 19.2908	$ 97,163,411
D Residential - Apt & Cond	6	6,928,102	$ 1,925,196	$ 27.7882	$ 27.7882	$ 1,925,196	1,154,684	$ 320,866.05	$ 8.6919	$ 602,182	$ 19.0963	$ 1,323,014
G Small Gen. Non Demand	4,545	77,639,552	$ 26,084,230	$ 33.5966	$ 33.5966	$ 26,084,230	17,083	$ 5,739.45	$ 14.1611	$ 10,994,615	$ 19.4355	$ 15,089,614
J Small Gen. Demand	732	172,549,978	$ 53,204,882	$ 30.8345	$ 30.8345	$ 53,204,882	235,753	$ 72,693.29	$ 11.5424	$ 19,916,483	$ 19.2920	$ 33,288,400
P Large General	84	196,677,564	$ 58,676,814	$ 29.8340	$ 29.8340	$ 58,676,814	2,346,479	$ 700,048.76	$ 10.6759	$ 20,997,166	$ 19.1581	$ 37,679,648
I Independent Power Pro	2	671,217	$ 211,655	$ 31.5330	$ 31.5330	$ 211,655	307,641	$ 97,008.61	$ 11.4202	$ 224,882	$ 20.1128	$ 135,001
H Private St. Lights	515	348,235	$ 289,646	$ 83.1753	$ 83.1753	$ 289,646	676	$ 561.92	$ 64.1090	$ 75,023	$ 19.0663	$ 66,396
Sub-Total	51,140	958,492,209	$ 287,658,243	$ 30.0115	$ 30.0115	$ 287,658,243	18,743	$ 5,624.92	$ 10.7369	$ 102,912,760	$ 19.2746	$ 184,745,483
Government Service:												
S Small Non Demand	714	13,553,172	$ 4,728,417	$ 34.8879	$ 34.8879	$ 4,728,417	18,970	$ 6,618.22	$ 15.0514	$ 2,039,942	$ 19.8365	$ 2,688,475
K Small Demand	345	101,566,991	$ 32,613,726	$ 32.1106	$ 32.1106	$ 32,613,726	294,630	$ 94,607.33	$ 13.0096	$ 13,213,466	$ 19.1010	$ 19,400,260
L Large	18	45,628,675	$ 13,853,233	$ 30.3608	$ 30.3608	$ 13,853,233	2,484,730	$ 754,384.00	$ 11.5060	$ 5,250,055	$ 18.8548	$ 8,603,179
F Street Lighting (Agencies	642	4,798,937	$ 4,597,512	$ 95.8027	$ 95.8027	$ 4,597,512	7,473	$ 7,159.21	$ 76.8000	$ 3,685,583	$ 19.0027	$ 911,929
Sub-Total	1,720	165,547,774	$ 55,792,889	$ 33.7020	$ 33.7020	$ 55,792,889	96,264	$ 32,442.87	$ 14.6115	$ 24,189,045	$ 19.0905	$ 31,603,843
	52,860	1,124,039,983	$ 343,451,132	$ 30.5551	$ 30.5551	$ 343,451,132			$ 11.3076	$ 127,101,805	$ 19.2475	$ 216,349,326
U.S. Navy	1	287,398,091	$ 78,684,978	$ 27.3784	$ 27.3784	$ 78,684,978			$ 6.1638	$ 17,714,744	$ 21.2146	$ 60,970,234
TOTAL	**52,861**	**1,411,438,074**	**$ 422,136,110**	**$ 29.9082**	**$ 29.9082**	**$ 422,136,110**	**26,701**	**$ 7,985.82**	**$ 10.2602**	**$ 144,816,549**	**$ 19.6480**	**$ 277,319,561**
	-	-	$ -									
Twelve Months Ended August 2022												
R Residential	45,258	550,705,963	$ 157,748,198	$ 28.6447	$ 28.6447	$ 157,748,198	12,168	$ 3,485.51	$ 9.9143	$ 54,598,494	$ 18.7304	$ 103,149,704
D Residential - Apt & Cond	6	7,565,116	$ 2,061,304	$ 27.2475	$ 27.2475	$ 2,061,304	1,260,853	$ 343,550.67	$ 8.6873	$ 657,204	$ 18.5602	$ 1,404,100
G Small Gen. Non Demand	4,542	84,232,620	$ 27,839,211	$ 33.0504	$ 33.0504	$ 27,839,211	18,546	$ 6,129.40	$ 14.1398	$ 11,910,358	$ 18.9106	$ 15,928,852
J Small Gen. Demand	733	188,005,709	$ 56,899,123	$ 30.2646	$ 30.2646	$ 56,899,123	256,546	$ 77,642.65	$ 11.5125	$ 21,644,156	$ 18.7521	$ 35,254,966
P Large General	84	214,382,452	$ 62,760,088	$ 29.2748	$ 29.2748	$ 62,760,088	2,554,706	$ 747,885.85	$ 10.6546	$ 22,841,623	$ 18.6202	$ 39,918,464
I Independent Power Produ	2	698,910	$ 218,265	$ 31.2293	$ 31.2293	$ 218,265	322,574	$ 100,737.54	$ 11.4266	$ 245,235	$ 19.8027	$ 138,403
H Private St. Lights	515	381,675	$ 314,255	$ 82.3358	$ 82.3358	$ 314,255	741	$ 610.11	$ 63.8247	$ 78,230	$ 18.5111	$ 70,652
Sub-Total	51,140	1,045,972,445	$ 307,840,443	$ 29.4310	$ 29.4310	$ 307,840,443	20,453	$ 6,019.53	$ 10.7054	$ 111,975,301	$ 18.7257	$ 195,865,142
Government Service:												
S Small Non Demand	713	14,526,671	$ 5,004,090	$ 34.4476	$ 34.4476	$ 5,004,090	20,376	$ 7,019.18	$ 15.0874	$ 2,191,697	$ 19.3602	$ 2,812,393
K Small Demand	345	110,348,047	$ 34,879,101	$ 31.6083	$ 31.6083	$ 34,879,101	320,159	$ 101,196.62	$ 13.0144	$ 14,361,091	$ 18.5939	$ 20,518,010
L Large	19	49,711,817	$ 14,840,283	$ 29.8526	$ 29.8526	$ 14,840,283	2,687,125	$ 802,177.43	$ 11.5168	$ 5,725,186	$ 18.3359	$ 9,115,096
F Street Lighting (Agencies	640	5,433,514	$ 5,023,401	$ 92.4522	$ 92.4522	$ 5,023,401	8,485	$ 7,844.98	$ 74.1821	$ 4,030,695	$ 18.2700	$ 992,705
Sub-Total	1,716	180,020,048	$ 59,746,874	$ 33.1890	$ 33.1890	$ 59,746,874	104,881	$ 34,809.07	$ 14.6143	$ 26,308,669	$ 18.5747	$ 33,438,204
	52,857	1,225,992,493	$ 367,587,316	$ 29.9828	$ 29.9828	$ 367,587,316	23,195	$ 40,828.61	$ 11.2793	$ 138,283,970	$ 18.7035	$ 229,303,346
U.S. Navy	1	314,213,385	$ 84,454,242	$ 26.8780	$ 26.8780	$ 84,454,242			$ 6.1607	$ 19,357,639	$ 20.7173	$ 65,096,604
TOTAL	**52,858**	**1,540,205,878**	**$ 452,041,558**	**$ 29.3494**	**$ 29.3494**	**$ 452,041,558**	**29,139**	**$ 8,552.05**	**$ 10.2351**	**$ 157,641,609**	**$ 19.1143**	**$ 294,399,950**

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

318Aug22 **FY 2022 Versus FY 2021**

	August 2022		August 2021		Y T D 2022		Y T D 2021		MOVING TWELVE MONTHS	
Gross Generation										
Number of days in Period	**31**		**31**		**304**		**304**		**365**	
Peak demand	**300**		**250**		**300**		**258**		**300**	
Date	**08/01/22**		**08/09/21**		**08/01/22**		**05/14/21**		**08/01/22**	
	KWH	**% change**	**KWH**	**% change**	**KWH**	**% change**	**KWH**	**% change**	**KWH**	**% change**
Energy Account:										
Kilowatt hours GPA:										
Cabras 1 & 2	53,062,000		66,458,000		552,925,000		622,920,000		615,790,000	
Cabras No. 3	0		0		0		0		0	
Cabras No. 4	0		0		0		0		0	
MEC (ENRON) Piti 8 (IPP)	24,238,500		30,050,400		257,177,660		299,580,000		284,200,760	
MEC (ENRON) Piti 9 (IPP)	0		25,591,800		209,201,500		304,839,400		239,088,700	
TEMES Piti 7 (IPP)	15,107,669		5,753,432		146,073,925		58,653,605		147,686,563	
Tanguisson 2	0		0		0		0		0	
Tanguisson 1	0		0		0		0		0	
Diesels/CT's & Others:							0			
MDI 10MW	661,156		20,104		2,614,589		257,173		2,614,589	
NRG Solar Dandan	3,618,671		3,425,840		43,907,896		47,270,113		47,570,766	
KEPCO Mangilao Solar	10,724,357		0		35,332,356		0		35,332,356	
Dededo CT #1	5,310,650		1,128,000		43,177,200		16,298,330		44,475,870	
Dededo CT #2	5,931,050		1,325,990		52,739,910		19,798,900		54,113,510	
Macheche CT	4,893,575		6,872,081		40,655,028		69,836,110		46,338,785	
Yigo CT (Leased)	9,686,403		2,368,553		96,448,501		30,215,027		104,046,241	
Tenjo	1,174,350		881,760		14,685,730		23,652,070		15,443,125	
Talofofo 10 MW	655,760		396,610		5,308,860		8,093,850		5,689,680	
Aggreko/Yigo Diesel Units	7,612,983		444,004		53,313,535		71,891,325		54,799,030	
Wind Turbine*	0		0		0		0		0	
Orote	0		0		0		0		0	
Marbo	0		0		0		0		0	
	142,677,123		**144,716,574**		**1,553,561,690**		**1,573,305,902**		**1,697,189,975**	
Ratio to last year		98.59		100.51		98.75		101.45		99.37
Station use	5,131,117		6,054,913		57,546,466		61,111,688		63,464,319	
Ratio to Gross generation		3.60		4.18		3.70		3.88		3.74
Net send out	137,546,006		138,661,661		1,496,015,224		1,512,194,214		1,633,725,656	
Ratio to last year		99.20		100.51		98.93		101.48		99.49
KWH deliveries:										
Sales to Navy (@34.5kv)	**26,068,076**		**26,692,993**		**287,398,090**		**284,927,293**		**314,213,384**	
Ratio to last year		97.66		101.76		100.87		99.81		101.75
GPA-metered	**111,477,930**		**111,968,668**		**1,208,617,134**		**1,227,266,921**		**1,319,512,272**	
Ratio to last year		99.56		100.22		98.48		101.88		98.97
Power factor adj.	0		0		0		0		0	
Adjusted	111,477,930		111,968,668		1,208,617,134		1,227,266,921		1,319,512,272	
GPA KWH Accountability:										
Sales to civilian customers-										
accrual basis	**103,870,141**		**104,119,326**		**1,124,039,983**		**1,141,272,280**		**1,225,992,494**	
Ratio to last year		99.76		100.98		98.49		102.25		98.94
GPA use-KWH	301,037		340,012		3,209,715		3,698,996		3,502,707	
Unaccounted For	7,306,752		7,509,330		81,367,435		82,295,645		90,017,071	
Ratio to deliveries		6.55		6.71		6.73		6.71		6.82
Ratio to Gross Generation		5.12		5.19		5.24		5.23		5.30
Ratio to Net Send Out		5.32		5.43		5.44		5.44		5.52

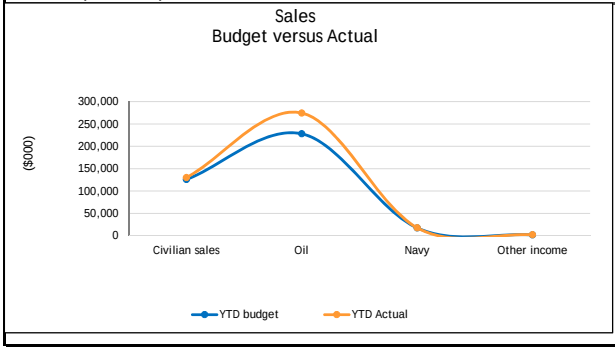
GPA-317Aug22

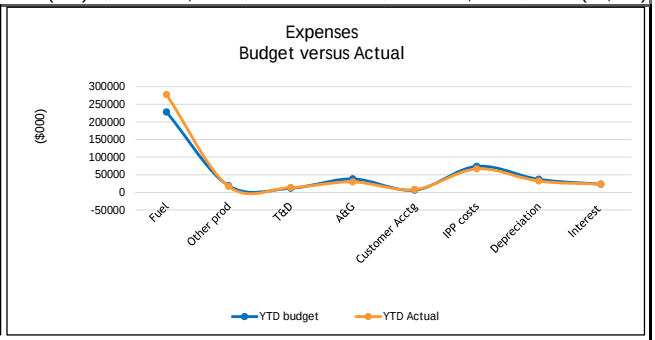
Guam Power Authority
Fuel Consumption
FY 2022

Description	August 2022 BARRELS	August 2022 AMOUNT	YEAR-TO-DATE BARRELS	YEAR-TO-DATE AMOUNT	MOVING 12 MONTHS BARREL S	MOVING 12 MONTHS AMOUNT
FUEL FURNISHED:						
NAVY:						
Diesel	0	0	0	0	0	0
Low Sulfur	0	0	0	0	0	0
	0	**0**	**0**	**0**	**0**	**0**
GPA:						
RFO	0	$0	835,366	$ 67,791,105	916,691	$ 74,000,020
Diesel	154,987	$21,830,513	1,110,016	$ 144,670,999	1,151,752	$ 148,318,286
Low Sulfur	93,192	$10,880,743	717,890	$ 75,800,347	823,153	$ 84,133,725
Deferred Fuel Costs	0	-$2,208,549	0	$ (32,933,003)	0	$ (36,255,995)
Fuel Adjustments	0	$0		$ 19,529	0	$ 734,596
Fuel Handling Costs	0	$2,496,620	0	$ 21,970,585	0	$ 23,469,319
	248,179	**$32,999,327**	**2,663,273**	**$ 277,319,562**	**2,891,597**	**$ 294,399,951**
IWPS:						
GPA RFO	0	$0	835,366	$ 67,791,105	916,691	$ 74,000,020
Diesel	154,987	$21,830,513	1,110,016	$ 144,670,999	1,151,752	$ 148,318,286
Low Sulfur	93,192	$10,880,743	717,890	$ 75,800,347	823,153	$ 84,133,725
Deferred Fuel Costs	0	-$2,208,549	0	$ (32,933,003)	0	$ (36,255,995)
Fuel Variance	0	$0	0	$ 19,529		$ 734,596
Fuel Handling Costs	0	$2,496,620	0	$ 21,970,585	0	$ 23,469,319
	248,179	**$32,999,327**	**2,663,273**	**$ 277,319,562**	**2,891,597**	**$ 294,399,951**
AVERAGE COST/Bbl.						
GPA RFO		**#DIV/0!**		**$81.15**		**$80.73**
Diesel		**$140.85**		**$130.33**		**$128.78**
Low Sulfur		**$116.76**		**$105.59**		**$102.21**
AS BURNED						
Cabras 1 & 2						
RFO	0	$ -	639,847	$ 51,983,459	687,005	$ 55,583,890
Low Sulfur	93,192	$ 10,880,743	326,220	$ 34,610,964	389,463	$ 39,634,143
Diesel	113	$ 17,761	1,584	$ 165,528	1,911	$ 188,142
	93,305	$ 10,898,505	967,650	$ 86,759,951	1,078,380	$ 95,406,175
Cabras 3 & 4						
RFO	0	$ -	0	$ -	0	$ -
Low Sulfur	0	$ -	0	$ -	0	$ -
Diesel	0	$ -	0	$ -	0	$ -
	0	$ -	0	$ -	0	$ -
MEC (Piti Units 8&9)						
RFO	0	$ -	195,520	$ 15,807,646	229,686	$ 18,416,129
Low Sulfur	0	$ -	391,670	$ 41,189,384	433,690	$ 44,499,582
Diesel	36,341	$ 3,178,292	43,571	$ 3,801,573	43,576	$ 3,802,065
	36,341	$ 3,178,292	630,761	$ 60,798,603	706,952	$ 66,717,777
Diesel & CT's - GPA:						
MDI Dsl	1,043	$ 126,935	4,180	$ 435,689	4,180	$ 435,689
Dededo CT #1	15,395	$ 2,446,094	127,362	$ 17,171,574	130,783	$ 17,475,033
Dededo CT #2	16,868	$ 2,680,135	151,572	$ 19,903,903	155,119	$ 20,218,507
Macheche CT	9,928	$ 1,588,198	83,466	$ 10,845,306	94,026	$ 11,764,852
Yigo CT	19,169	$ 2,990,269	192,357	$ 25,047,903	207,185	$ 26,326,786
Talofofo 10 MW	1,100	$ 177,917	9,010	$ 1,236,476	9,650	$ 1,293,772
Aggreko	14,311	$ 2,236,330	100,162	$ 14,645,239	102,955	$ 14,898,644
Tenjo	1,977	$ 172,188	25,116	$ 2,204,422	26,406	$ 2,316,357
TEMES (IPP)	38,282	$ 6,144,898	370,954	$ 49,107,463	375,263	$ 49,490,352
GWA Generators	461	$ 71,497	683	$ 105,923	699	$ 108,086
	118,534	$ 18,634,460	1,064,862	$ 140,703,897	1,106,265	$ 144,328,079
Deferred Fuel Costs	0	$ (2,208,549)		$ (32,933,003)		$ (36,255,995)
Adjustment		$ -		$ 19,529		$ 734,596
Fuel Handling Costs	0	$ 2,496,620		$ 21,970,585		$ 23,469,319
TOTAL	**248,180**	**$ 32,999,327**	**2,663,273**	**$ 277,319,562**	**2,891,597**	**$ 294,399,951**

Statement of operations
Comparison-Budget versus Actual
For the month and year to date ended August 31, 2022

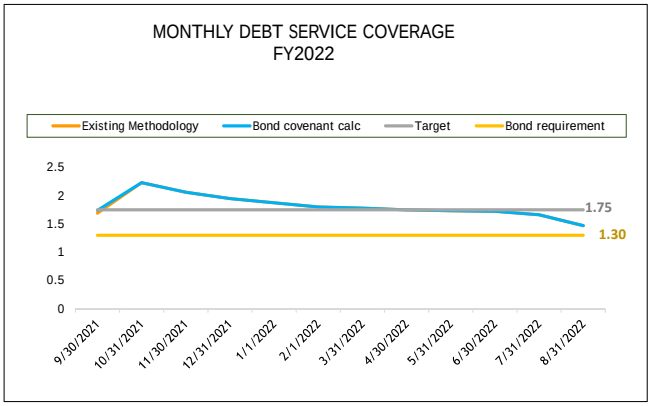
	Budget	Actual August-22	Variance	YTD Budget	YTD Actual	Variance
KwH Sales-Civilian	**101,389**	**103,870**	**(2,481)**	**1,109,991**	**1,124,040**	**(14,049)**
Non-fuel yield	**$ 0.114596**	**$ 0.110215**	**$ 0.004381**	**$ 0.113355**	**$ 0.115635**	**$ (0.002280)**
KwH Sales-Navy	**26,286**	**26,068**	**218**	**279,550**	**287,398**	**(7,849)**
Non-fuel yield	**$ 0.062602**	**$ 0.061696**	**$ 0.000906**	**$ 0.062799**	**$ 0.061638**	**$ 0.001161**
Operating revenue						
Civilian sales	$ 11,619	$ 11,448	$ 171	$ 125,823	$ 129,978	$ (4,156)
Oil	21,891	32,999	(11,108)	227,986	274,443	(46,457)
Navy	1,646	1,608	37	17,556	17,715	(159)
DSM-Rebates	-	323	(323)	-	3,495	(3,495)
Other income	114	112	3	1,980	2,179	(199)
	35,270	46,490	(11,220)	373,344	427,810	(54,465)
Bad debts expense	102	102	(0)	1,121	1,121	(0)
Total operating revenues	$ 35,168	$ 46,388	$ (11,220)	$ 372,224	$ 426,688	$ (54,465)
Operating expenses:						
Production fuel	$ 21,891	$ 32,999	$ (11,108)	$ 227,986	$ 277,320	$ (49,333)
O & M expenses:						
Other production	1,838	1,717	121	18,932	16,988	1,945
Transmission distribution	1,016	1,428	(412)	11,582	13,467	(1,885)
Administrative expense	3,215	2,909	306	38,124	29,673	8,451
Customer accounting	580	725	(146)	5,123	6,525	(1,402)
	6,648	6,779	(131)	73,761	66,653	7,108
IPP costs	1,026	838	188	11,768	9,039	2,729
Depreciation	1,930	2,905	(975)	36,900	31,999	4,900
	31,495	43,521	(12,026)	350,415	385,012	(34,597)
Operating income	3,672	2,867	805	21,809	41,677	(19,868)
Other revenue (expenses):						
Investment income	83	113	(30)	917	849	68
Interest expense	(2,093)	(1,904)	(190)	(23,056)	(23,090)	34
Allowance for funds used during construction	-	5	(5)	-	119	(119)
Pandemic -COVID19	-	(18)	18	-	(251)	251
Losses due to typhoon	-	(1,055)	1,055	-	(2,198)	2,198
Bond issuance costs/Other expenses	40	(167)	207	435	(2,598)	3,033
Net income before capital contribution	1,702	(158)	1,860	106	14,508	(14,404)
Grants from the U.S. Government	-	-	-	-	971	(971)
Increase (decrease) in net assets	$ 1,702	$ (158)	$ 1,860	$ 106	$ 15,479	$ (15,375)





Guam Power Authority
Debt service coverage
August 31, 2022

	Restated 2017	Audited 2018	Audited 2019	Audited 2020	Audited 2021	YTD Unaudited 2022
Funds Available for Debt Service						
Earnings from Operations	$ 26,670	$ 38,164	$ 39,053	$ 27,703	$ 33,341	$ 41,673
Interest Income	$122	$620	$2,746	$836	(245)	(642)
Depreciation Expense	44,292	37,184	36,999	37,645	38,235	31,999
Balance Available for Debt Service	$ 71,083	$ 75,968	$ 78,798	$ 66,184	$ 71,331	$ 73,030
IPP - Capital Costs						
Principal	$ 20,796	$ 23,210	$ 13,470	$ 8,399	$ 2,217	$ -
Interest	5,609	3,159	1,068	531	28	-
Total IPP Payments	$ 26,405	$ 26,369	$ 14,538	$ 8,930	$ 2,245	$ -
Bond Debt Service						
Principal (1993 & 1999 Revenue Bond)	$ -	$ -	$ -	$ -	$ -	$ -
Interest (1993 & 1999 Revenue Bond)	-	-	-	-	-	-
Principal and Interest (2010 Subordinate Bond)	-	-	-	-	-	-
Principal and Interest (2010 Senior TE Bond)	7,999	2,000	-	-	-	-
Principal and Interest (2012 Senior TE Bond)	17,449	17,086	31,467	35,232	35,232	32,088
Principal and Interest (2014 Senior TE Bond)	5,084	5,083	5,084	5,087	5,088	4,662
Principal and Interest (2017 Senior TE Bond)		5,916	7,607	7,418	7,416	7,089
Principal and Interest (2022 Bond)						5,830
Total	$ 30,532	$ 30,086	$ 44,158	$ 47,737	$ 47,736	$ 49,670
Debt Service Coverage (DSC) Calculation						
Existing DSC Methodology (Senior)	1.46 x	1.65 x	1.46 x	1.20 x	1.45 x	1.47 x
Existing DSC Methodology (Senior+Subordinate)	1.46 x	1.65 x	1.46 x	1.20 x	1.45 x	1.47 x
Bond Covenant DSC	2.33 x	2.53 x	1.78 x	1.39 x	1.49 x	1.47 x
Debt Service Coverage Requirements						x
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

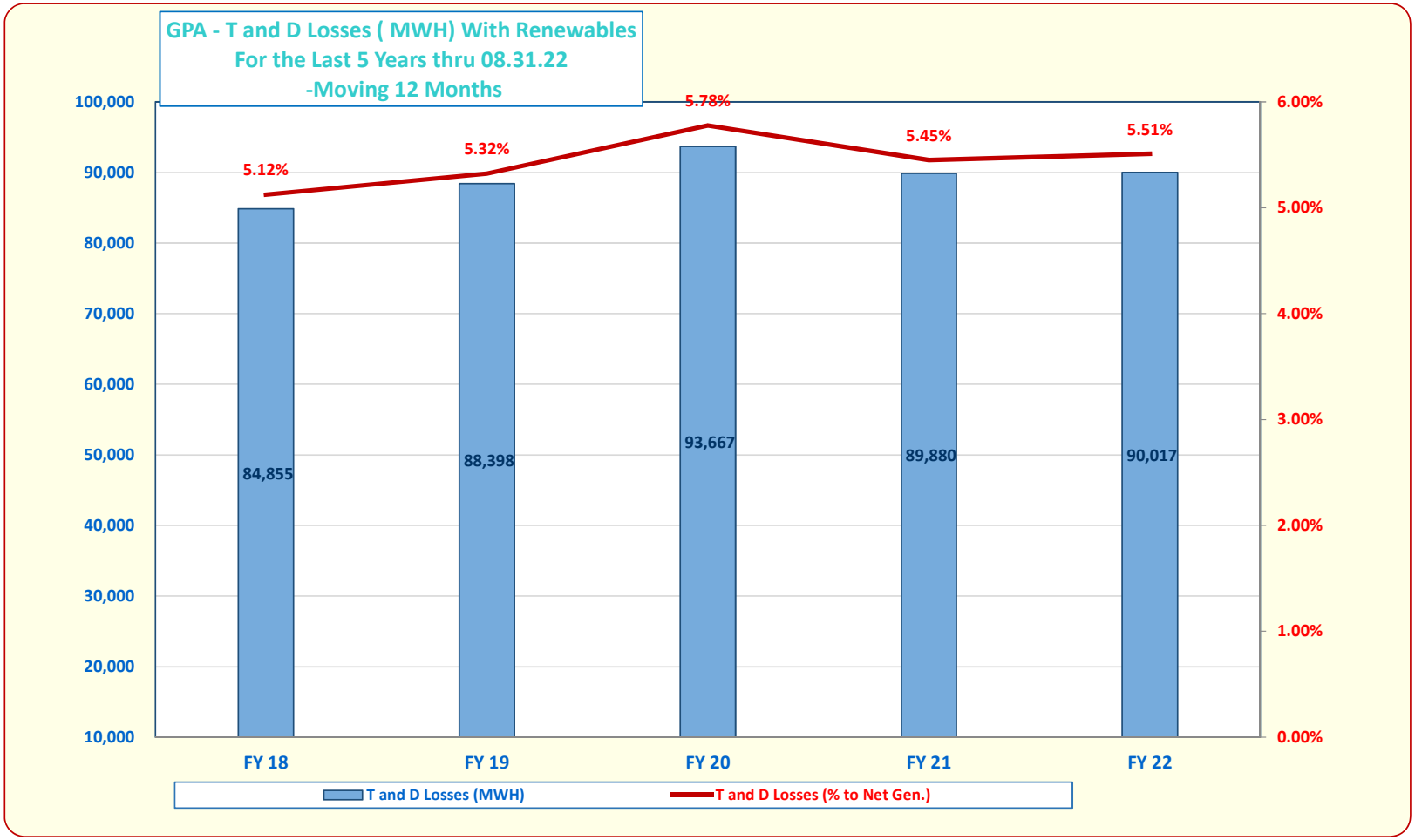


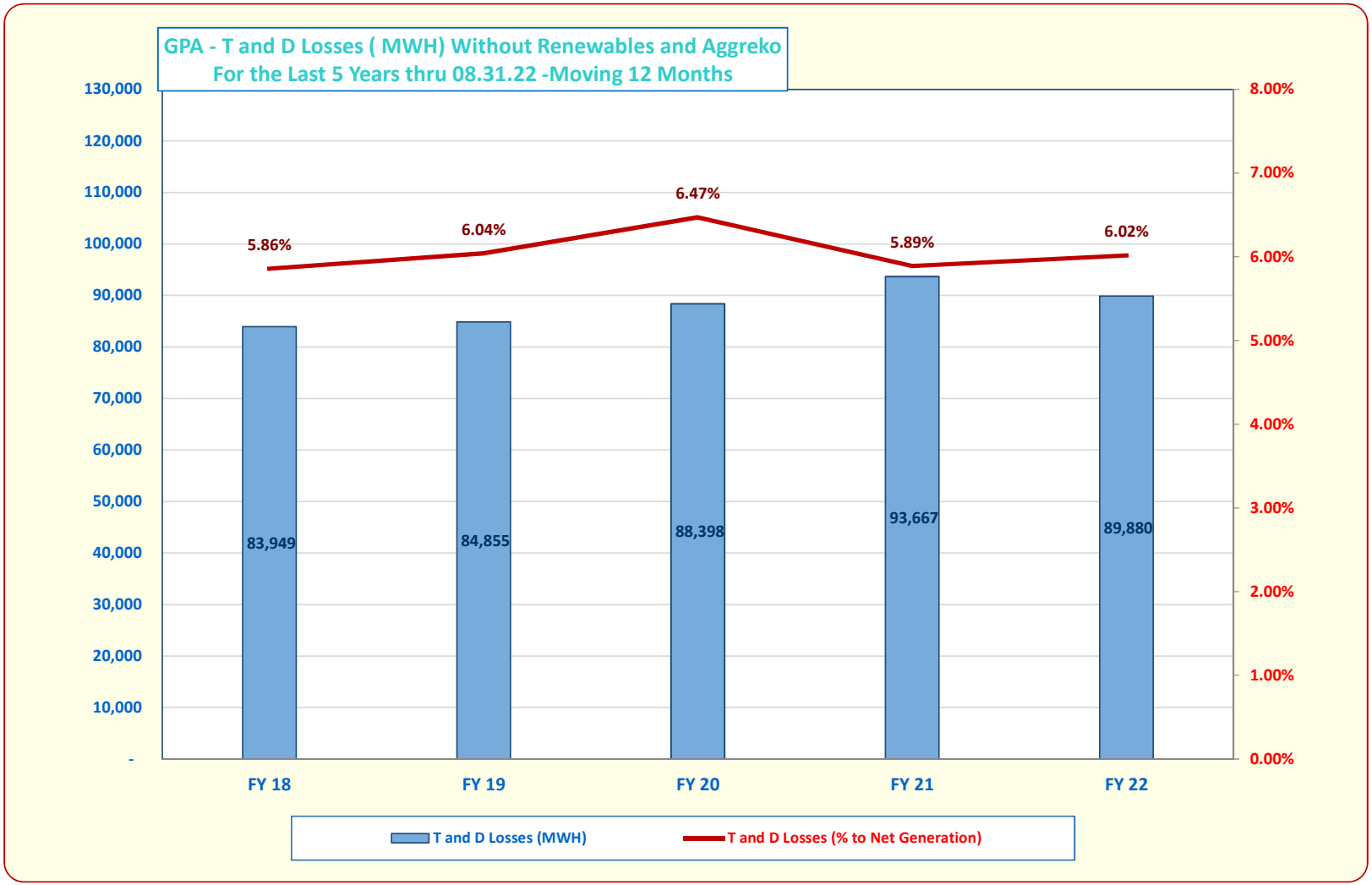
Notes:
(1) Source: Guam Power Authority, 2017 - 2020 Audited Financial Statements and 2020-2021 Unaudited Financial Statements
(2) Interest income is net of interest earnings in the Construction Fund and the amortization of deferred credit
(3) Existing DSC Methodology (Rating Agency Method): (Operating Earnings + Depreciation Expense - IPP Principal & Interest Payments) / (Senior and Subordinate Bond Principal & Interest Payments)
(4) Bond Covenant DSC Methodology: (Operating Earnings + Depreciation Expense) / (Senior and Subordinate Bond Principal & Interest Payments)

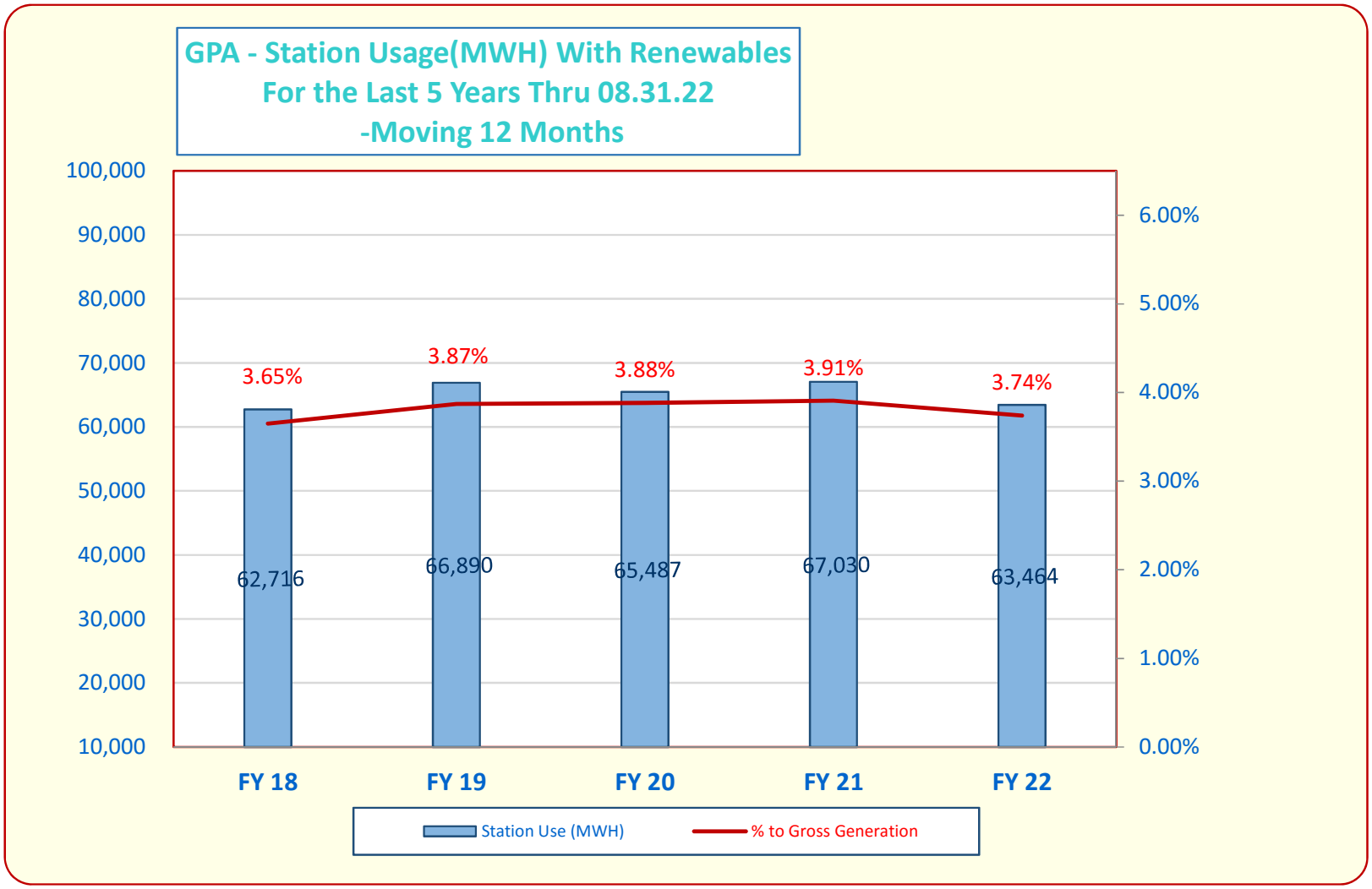
REVENUES-ACTUAL VS PROJECTIONS

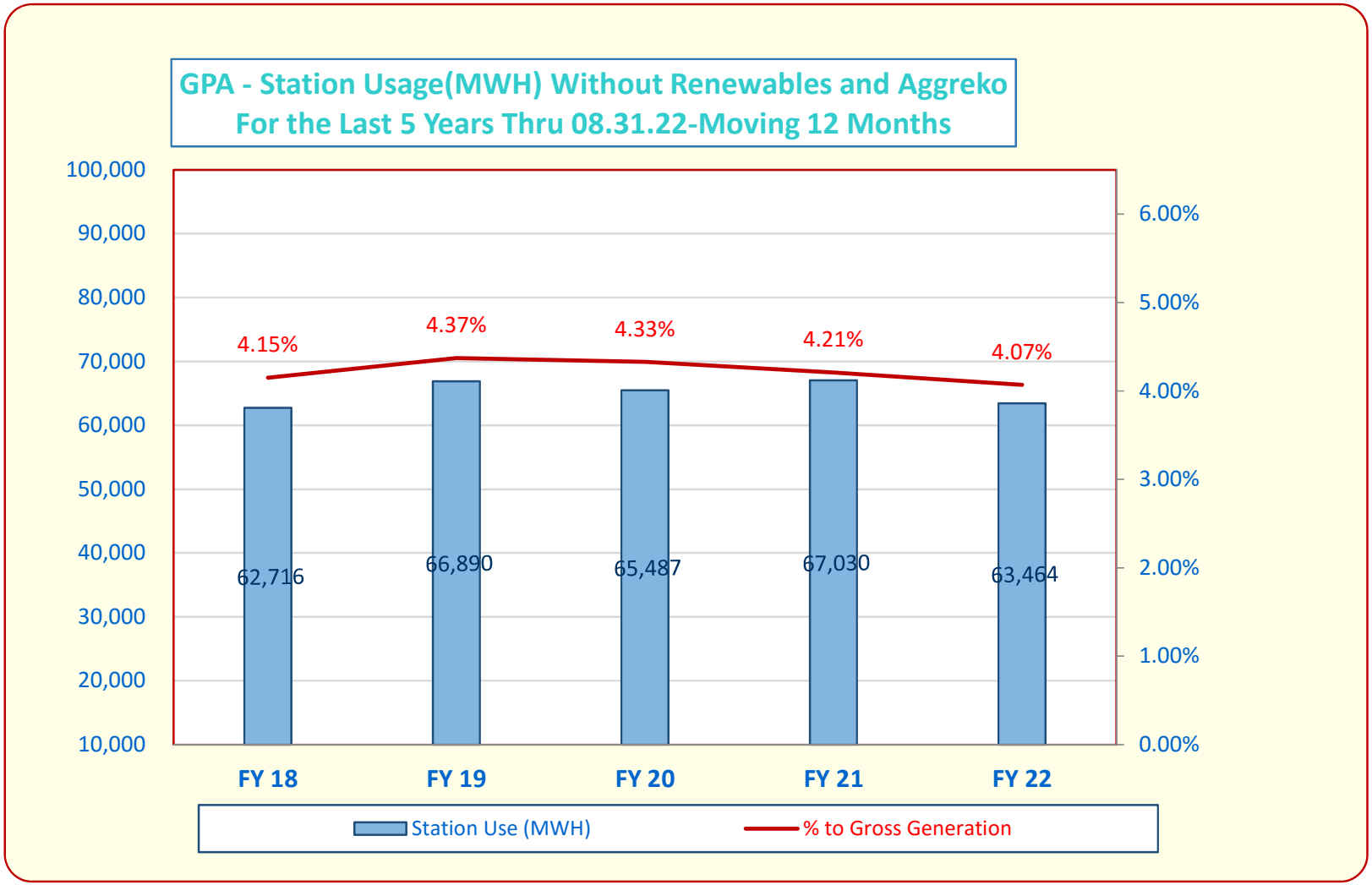
	MONTHLY - AUGUST 2022				YTD THRU 08/31/2022			
	PROJECTIONS	ACTUAL	VARIANCE	% VARIANCE	PROJECTIONS	ACTUAL	VARIANCE	% VARIANCE
KWH								
Residential	45,405,056	44,989,464	(415,591)	-0.92%	516,426,914	503,677,561	(12,749,353)	-2.47%
Residential - Apt & Condo	613,183	620,409	7,226	1.18%	6,769,518	6,928,102	158,584	2.34%
Small General-Non-Demand	6,557,081	7,440,992	883,911	13.48%	66,425,396	77,639,552	11,214,156	16.88%
Small General-Demand	15,967,664	16,167,671	200,008	1.25%	169,487,409	172,549,978	3,062,570	1.81%
Large	18,390,210	19,069,312	679,102	3.69%	197,573,245	196,677,564	(895,681)	-0.45%
Independent Power Producers	30,803	138,482	107,679	349.58%	339,300	671,217	331,917	97.82%
Private St. Lites	33,125	31,100	(2,025)	-6.11%	352,167	348,235	(3,932)	-1.12%
Sub-total	**86,997,121**	**88,457,429**	**1,460,308**	**1.68%**	**957,373,948**	**958,492,209**	**1,118,260**	**0.12%**
Government								
Small_Non Demand	929,617	1,724,457	794,840	85.50%	9,260,299	13,553,172	4,292,872	46.36%
Small-Demand	8,614,663	9,030,378	415,715	4.83%	86,671,800	101,566,991	14,895,191	17.19%
Large	4,303,446	4,226,126	(77,320)	-1.80%	49,696,822	45,628,675	(4,068,147)	-8.19%
Public St. Lites	544,563	431,751	(112,812)	-20.72%	6,343,982	4,798,937	(1,545,045)	-24.35%
Sub-total	**14,392,289**	**15,412,712**	**1,020,423**	**7.09%**	**151,972,903**	**165,547,774**	**13,574,871**	**8.93%**
Total-Civilian	**101,389,410**	**103,870,141**	**2,480,731**	**2.45%**	**1,109,346,851**	**1,124,039,983**	**14,693,132**	**1.32%**
USN	26,285,779	26,068,076	(217,704)	-0.83%	280,432,344	287,398,091	6,965,747	2.48%
Grand Total	**127,675,189**	**129,938,216**	**2,263,027**	**1.77%**	**1,389,779,195**	**1,411,438,074**	**21,658,879**	**1.56%**
Non-Oil Yield								
Residential	0.095521	0.096040	0.000520	0.54%	0.096774	0.099473	0.002700	2.79%
Residential - Apt & Condo	0.095521	0.087413	(0.008108)	-8.49%	0.095521	0.086919	(0.008602)	-9.01%
Small General-Non-Demand	0.144739	0.137208	(0.007530)	-5.20%	0.144739	0.141611	(0.003128)	-2.16%
Small General-Demand	0.121493	0.111644	(0.009849)	-8.11%	0.121493	0.115424	(0.006069)	-4.99%
Large	0.108878	0.102622	(0.006257)	-5.75%	0.108878	0.106759	(0.002119)	-1.95%
Independent Power Producers	0.122012	0.111007	(0.011005)	0.00%	0.623726	0.114202	(0.509523)	0.00%
Private St. Lites	0.623726	0.653916	0.030190	4.84%	0.122012	0.641090	0.519078	425.43%
Sub-total	**0.108514**	**0.103933**	**(0.004581)**	**-4.22%**	**0.107163**	**0.107369**	**0.000207**	0.19%
Government					-			
Small_Non Demand	0.164306	0.143265	(0.021041)	-12.81%	0.164306	0.150514	(0.013792)	-8.39%
Small-Demand	0.134162	0.131196	(0.002965)	-2.21%	0.134162	0.130096	(0.004066)	-3.03%
Large	0.128286	0.115410	(0.012876)	-10.04%	0.128286	0.115060	(0.013225)	-10.31%
Public St. Lites	0.583654	0.775561	0.191907	32.88%	0.583654	0.768000	0.184346	31.58%
Sub-total	**0.151359**	**0.146268**	**(0.005091)**	**-3.36%**	**0.152841**	**0.146115**	**(0.006725)**	**-4.40%**
Total-Civilian	**0.114596**	**0.110215**	**(0.004381)**	**-3.82%**	**0.164046**	**0.113076**	**(0.050970)**	**-31.07%**
USN	0.062602	0.061696	(0.000906)	-1.45%	0.062602	0.061638	(0.000963)	-1.54%
Grand Total	**0.103891**	**0.100481**	**(0.003410)**	**-3.28%**	**0.103166**	**0.102602**	**(0.000564)**	**-0.55%**
Non-Oil Revenues								
Residential	4,467,237	4,320,804	(146,433)	-3.28%	49,976,441	50,102,408	125,967	0.25%
Residential - Apt & Condo	58,572	54,232	(4,340)	-7.41%	646,629	602,182	(44,447)	-6.87%
Small General-Non-Demand	949,063	1,020,966	71,903	7.58%	9,614,322	10,994,615	1,380,293	14.36%
Small General-Demand	1,939,959	1,805,018	(134,941)	-6.96%	20,591,534	19,916,483	(675,051)	-3.28%
Large	2,002,294	1,956,925	(45,369)	-2.27%	21,511,429	20,997,166	(514,263)	-2.39%
Independent Power Producers	19,212	15,372	(3,840)	-19.99%	211,630	76,655	(134,976)	-63.78%
Private St. Lites	4,042	20,337	16,295	403.18%	42,968	223,250	180,282	419.57%
Sub-total	**9,440,379**	**9,193,654**	**(246,725)**	**-2.61%**	**102,594,955**	**102,912,760**	**317,805**	**0.31%**
Government								
Small_Non Demand	152,742	247,055	94,313	61.75%	1,521,524	2,039,942	518,418	34.07%
Small-Demand	1,155,757	1,184,751	28,994	2.51%	11,628,028	13,213,466	1,585,438	13.63%
Large	552,070	487,736	(64,334)	-11.65%	6,375,389	5,250,055	(1,125,334)	-17.65%
Public St. Lites	317,836	334,849	17,013	5.35%	3,702,689	3,685,583	(17,107)	-0.46%
Sub-total	**2,178,405**	**2,254,391**	**75,985**	**3.49%**	**23,227,630**	**24,189,045**	**961,415**	**4.14%**
Total-Civilian	**11,618,784**	**11,448,044**	**(170,740)**	**-1.47%**	**125,822,585**	**127,101,805**	**1,279,221**	**1.02%**
USN	1,645,537	1,608,302	(37,235)	-2.26%	17,555,567	17,714,744	159,177	0.91%
Grand Total	**13,264,321**	**13,056,347**	**(207,975)**	**-1.57%**	**143,378,152**	**144,816,549**	**1,438,397**	**1.00%**
% of Total Revenues	37.73%	28.35%			38.61%	34.31%		
Oil Revenues								
Residential	7,785,060	11,181,187	3,396,127	43.62%	84,738,637	97,163,411	12,424,774	14.66%
Residential - Apt & Condo	105,135	154,190	49,054		1,109,151	1,323,014	213,863	19.28%
Small General-Non-Demand	1,124,264	1,849,302	725,038	64.49%	10,927,939	15,089,614	4,161,675	38.08%
Small General-Demand	2,737,784	4,016,411	1,278,627	46.70%	27,846,456	33,288,400	5,441,944	19.54%
Large	3,153,149	4,711,479	1,558,331	49.42%	32,353,119	37,679,648	5,326,529	16.46%
Independent Power Producers	5,281	33,120	27,839	527.12%	55,564	135,001	79,436	142.96%
Private St. Lites	5,680	7,729	2,050	36.09%	57,715	66,396	8,681	15.04%
Sub-total	**14,916,352**	**21,953,418**	**7,037,066**	**47.18%**	**157,088,581**	**184,745,483**	**27,656,901**	**17.61%**
Government								
Small_Non Demand	159,390	428,578	269,187	168.89%	1,519,982	2,688,475	1,168,493	76.88%
Small-Demand	1,477,053	2,244,311	767,258	51.95%	14,226,105	19,400,260	5,174,155	36.37%
Large	737,860	1,033,348	295,488	40.05%	8,110,839	8,603,179	492,340	6.07%
Public St. Lites	93,370	107,303	13,933	14.92%	1,038,404	911,929	(126,475)	-12.18%
Sub-total	**2,467,673**	**3,813,539**	**1,345,866**	**54.54%**	**24,895,331**	**31,603,843**	**6,708,513**	**26.95%**
Total-Civilian	**17,384,025**	**25,766,958**	**8,382,932**	**48.22%**	**181,983,912**	**216,349,326**	**34,365,414**	**18.88%**
USN	4,506,907	7,232,369	2,725,462	60.47%	46,002,345	60,970,234	14,967,890	32.54%
Grand Total	**21,890,933**	**32,999,327**	**11,108,394**	**50.74%**	**227,986,257**	**277,319,561**	**49,333,304**	**21.64%**
	62.27%	71.65%			61.39%	65.69%		
Grand Total								
Residential	12,252,297	15,501,990	3,249,693	26.52%	134,715,078	147,265,820	12,550,741	9.32%
Residential - Apt & Condo	163,707	208,421	44,714	21.45%	1,755,780	1,925,196	169,416	9.65%
Small General-Non-Demand	2,073,327	2,870,269	796,942	38.44%	20,542,261	26,084,230	5,541,968	26.98%
Small General-Demand	4,677,743	5,821,429	1,143,686	24.45%	48,437,990	53,204,882	4,766,892	9.84%
Large	5,155,442	6,668,404	1,512,961	29.35%	53,864,548	58,676,814	4,812,266	8.93%
Independent Power Producers	24,494	48,493	23,999	97.98%	267,195	211,655	(55,539)	-20.79%
Private St. Lites	9,721	28,066	18,345	188.71%	100,683	289,646	188,962	187.68%
Sub-total	**24,356,731**	**31,147,072**	**6,790,340**	**27.88%**	**259,683,536**	**287,658,243**	**27,974,707**	**10.77%**
Government					-			
Small_Non Demand	312,132	675,632	363,500	116.46%	3,041,506	4,728,417	1,686,911	55.46%
Small-Demand	2,632,810	3,429,062	796,252	30.24%	25,854,133	32,613,726	6,759,593	26.15%
Large	1,289,930	1,521,084	231,154	17.92%	14,486,228	13,853,233	(632,995)	-4.37%
Public St. Lites	411,206	442,151	30,946	7.53%	4,741,093	4,597,512	(143,581)	-3.03%
Sub-total	**4,646,078**	**6,067,930**	**1,421,852**	**30.60%**	**48,122,961**	**55,792,889**	**7,669,928**	**15.94%**
Total-Civilian	**29,002,810**	**37,215,002**	**8,212,192**	**28.32%**	**307,806,497**	**343,451,132**	**35,644,635**	**11.58%**
USN	6,152,444	8,840,672	2,688,227	43.69%	63,557,912	78,684,978	15,127,066	23.80%
Grand Total	**35,155,254**	**46,055,673**	**10,900,420**	**31.01%**	**371,364,409**	**422,136,110**	**50,771,701**	**13.67%**
	-	-	-					

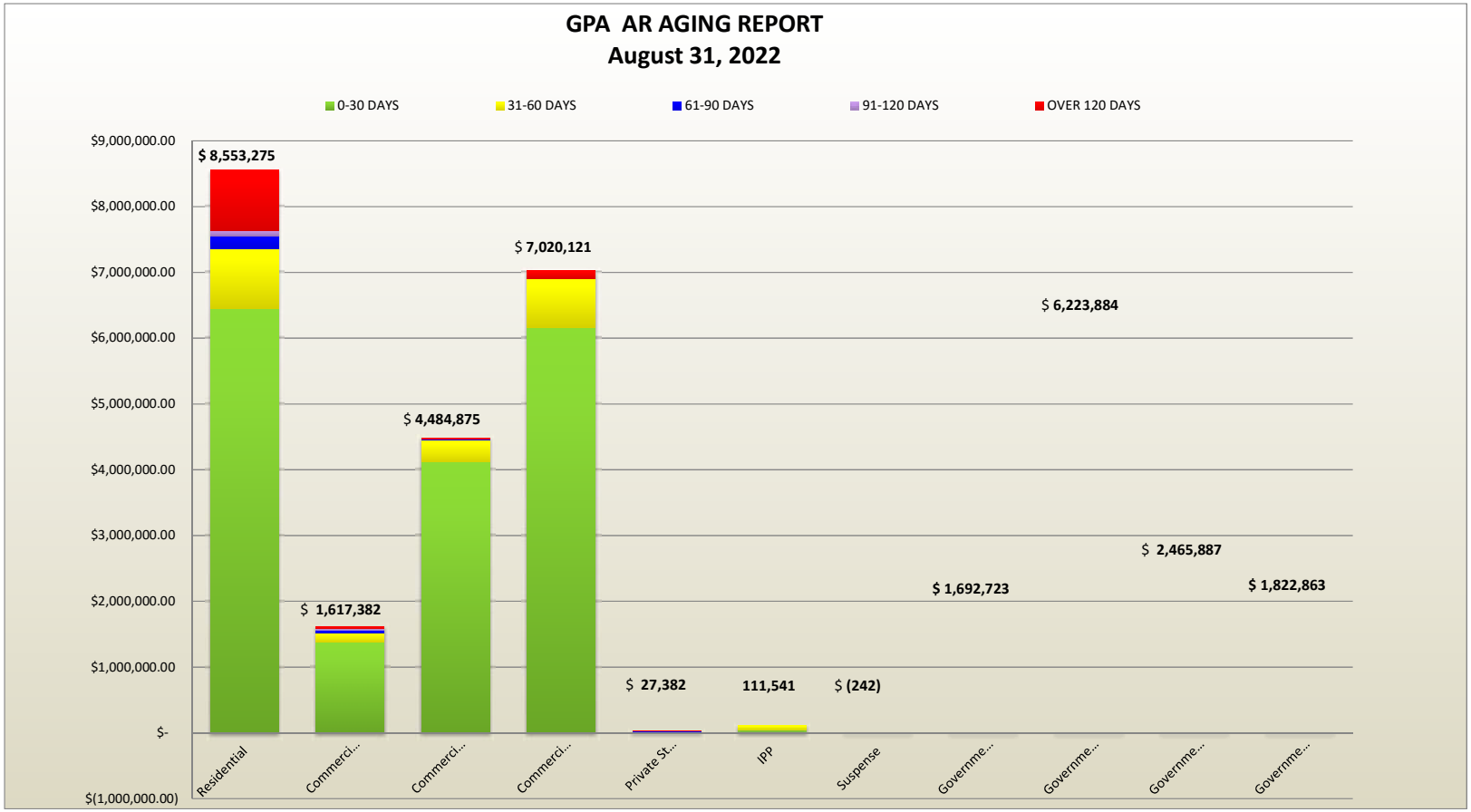
	YTD REVENUES - CURRENT YEAR VS PRIOR YEAR				MTD REVENUES - CURRENT YEAR VS PRIOR YEAR			
	ACTUALS - 11 MONTHS ENDED AUGUST 2022				ACTUALS - MONTH ENDED JULY 2022			
	2022	2021	VARIANCE	% VARIANCE	2022	2021	VARIANCE	% VARIANCE
KWH								
Residential	503,677,561	534,159,695	(30,482,134)	-5.71%	44,989,464	46,760,737	(1,771,272)	-3.79%
Residential - Apt & Condo	6,928,102	2,519,151	4,408,951		620,409	632,147	(11,739)	-1.86%
Small General-Non-Demand	77,639,552	68,602,640	9,036,912	13.17%	7,440,992	6,793,429	647,563	9.53%
Small General-Demand	172,549,978	173,628,217	(1,078,239)	-0.62%	16,167,671	16,098,295	69,376	0.43%
Large	196,677,564	201,459,622	(4,782,059)	-2.37%	19,069,312	18,597,960	471,352	2.53%
Independent Power Producers	671,217	392,693	278,524	70.93%	138,482	34,376	104,106	302.85%
Private St. Lites	348,235	360,106	(11,870)	-3.30%	31,100	32,913	(1,813)	-5.51%
Sub-total	**958,492,209**	**981,122,124**	**(22,629,915)**	**-2.31%**	**88,457,429**	**88,949,856**	**(492,427)**	**-0.55%**
Government								
Small_Non Demand	13,553,172	9,732,216	3,820,955	39.26%	1,724,457	999,588	724,869	72.52%
Small-Demand	101,566,991	93,766,388	7,800,602	8.32%	9,030,378	9,198,450	(168,072)	-1.83%
Large	45,628,675	50,207,970	(4,579,295)	-9.12%	4,226,126	4,412,625	(186,499)	-4.23%
Public St. Lites	4,798,937	6,443,582	(1,644,646)	-25.52%	431,751	558,806	(127,055)	-22.74%
Sub-total	**165,547,774**	**160,150,157**	**5,397,617**	**3.37%**	**15,412,712**	**15,169,469**	**243,242**	**1.60%**
Total-Civilian	**1,124,039,983**	**1,141,272,280**	**(17,232,297)**	**-1.51%**	**103,870,141**	**104,119,326**	**(249,185)**	**-0.24%**
USN	287,398,091	284,927,293	2,470,798	0.87%	26,068,076	26,692,993	(624,917)	-2.34%
Grand Total	**1,411,438,074**	**1,426,199,573**	**(14,761,499)**	**-1.04%**	**129,938,216**	**130,812,319**	**(874,102)**	**-0.67%**
Non-Oil Yield								
Residential	0.099473	0.097048	0.002425	2.50%	0.096040	0.117916	-0.021876	-18.55%
Residential - Apt & Condo	0.086919	0.000000	0.000000	0.00%	0.087413	0.000000	0.087413	
Small General-Non-Demand	0.141611	0.142638	-0.001027	-0.72%	0.137208	0.161691	-0.024482	-15.14%
Small General-Demand	0.115424	0.116221	-0.000796	-0.69%	0.111644	0.129157	-0.017513	-13.56%
Large	0.106759	0.107145	-0.000386	-0.36%	0.102622	0.111360	-0.008738	-7.85%
Independent Power Producers	0.114202	0.112167	0.002036	1.81%	0.111007	0.138698	-0.027691	-19.96%
Private St. Lites	0.641090	0.628430	0.012660	2.01%	0.653916	0.629373	0.024543	3.90%
Sub-total	**0.107369**	**0.105878**	**0.001492**	**1.41%**	**0.103933**	**0.121919**	**-0.017986**	**-14.75%**
Government								
Small_Non Demand	0.150514	0.159742	-0.009228	-5.78%	0.143265	0.157782	-0.014517	-9.20%
Small-Demand	0.130096	0.132069	-0.001973	-1.49%	0.131196	0.131540	-0.000343	-0.26%
Large	0.115060	0.121224	-0.006163	-5.08%	0.115410	0.116373	-0.000963	-0.83%
Public St. Lites	0.768000	0.584843	0.183157	31.32%	0.775561	0.611823	0.163737	26.76%
Sub-total	**0.146115**	**0.148568**	**-0.002453**	**-1.65%**	**0.146268**	**0.146549**	**-0.000281**	**-0.19%**
Total-Civilian	**0.113076**	**0.111868**	**0.001208**	**1.08%**	**0.110215**	**0.125507**	**-0.015292**	**-12.18%**
USN	0.061638	0.062928	-0.001289	-2.05%	0.061696	0.062255	-0.000559	-0.90%
Grand Total	**0.102602**	**0.102091**	**0.000511**	**0.50%**	**0.100481**	**0.112600**	**-0.012119**	**-10.76%**
Non-Oil Revenues								
Residential	50,102,408	51,839,020	(1,736,612)	-3.35%	4,320,804	5,513,832	(1,193,028)	-21.64%
Residential - Apt & Condo	602,182	219,667	382,515	0.00%	54,232	56,632	(2,401)	-4.24%
Small General-Non-Demand	10,994,615	9,785,352	1,209,263	12.36%	1,020,966	1,098,433	(77,467)	-7.05%
Small General-Demand	19,916,483	20,179,185	(262,702)	-1.30%	1,805,018	2,079,204	(274,186)	-13.19%
Large	20,997,166	21,585,359	(588,192)	-2.72%	1,956,925	2,071,060	(114,135)	-5.51%
Independent Power Producers	76,655	44,047	32,608	74.03%	15,372	4,768	10,605	222.42%
Private St. Lites	223,250	226,301	(3,051)	-1.35%	20,337	20,715	(378)	-1.82%
Sub-total	**102,912,760**	**103,878,932**	**(966,172)**	**-0.93%**	**9,193,654**	**10,844,644**	**(1,650,990)**	**-15.22%**
Government								
Small_Non Demand	2,039,942	1,554,640	485,302	31.22%	247,055	157,717	89,338	56.64%
Small-Demand	13,213,466	12,383,634	829,832	6.70%	1,184,751	1,209,960	(25,209)	-2.08%
Large	5,250,055	6,086,388	(836,333)	-13.74%	487,736	513,509	(25,773)	-5.02%
Public St. Lites	3,685,583	3,768,484	(82,901)	-2.20%	334,849	341,890	(7,041)	-2.06%
Sub-total	**24,189,045**	**23,793,145**	**395,901**	**1.66%**	**2,254,391**	2,223,077	**31,314**	**1.41%**
Total-Civilian	**127,101,805**	**127,672,077**	**(570,271)**	**-0.45%**	**11,448,044**	**13,067,720**	**(1,619,676)**	**-12.39%**
USN	17,714,744	17,929,767	(215,023)	-1.20%	1,608,302	1,661,768	(53,466)	-3.22%
Grand Total	**144,816,549**	**145,601,844**	**(785,294)**	**-0.54%**	**13,056,347**	**14,729,488**	**(1,673,141)**	**-11.36%**
% of Total Revenues								
Oil Revenues								
Residential	97,163,411	53,631,283	43,532,128	81.17%	11,181,187	5,453,503	5,727,683	105.03%
Residential - Apt & Condo	1,323,014	281,319	1,041,695		154,190	79,615	74,575	93.67%
Small General-Non-Demand	15,089,614	6,943,164	8,146,451	117.33%	1,849,302	790,325	1,058,977	133.99%
Small General-Demand	33,288,400	17,466,158	15,822,241	90.59%	4,016,411	1,914,020	2,102,391	109.84%
Large	37,679,648	20,095,870	17,583,778	87.50%	4,711,479	2,287,615	2,423,864	105.96%
Independent Power Producers	135,001	37,624	97,377	258.82%	33,120	4,232	28,888	682.54%
Private St. Lites	66,396	36,068	30,327	84.08%	7,729	4,190	3,540	84.49%
Sub-total	**184,745,483**	**98,491,487**	**86,253,996**	**87.58%**	**21,953,418**	**10,533,500**	**11,419,918**	**108.42%**
Government								
Small_Non Demand	2,688,475	986,119	1,702,356	172.63%	428,578	126,574	302,004	238.60%
Small-Demand	19,400,260	9,470,418	9,929,842	104.85%	2,244,311	1,164,731	1,079,580	92.69%
Large	8,603,179	4,954,631	3,648,547	73.64%	1,033,348	551,650	481,698	87.32%
Public St. Lites	911,929	644,837	267,093	41.42%	107,303	71,131	36,172	50.85%
Sub-total	**31,603,843**	**16,056,005**	**15,547,838**	**96.84%**	**3,813,539**	**1,914,086**	**1,899,454**	**99.24%**
Total-Civilian	**216,349,326**	**114,547,492**	**101,801,835**	**88.87%**	**25,766,958**	**12,447,586**	**13,319,371**	**107.00%**
USN	60,970,234	34,179,582	26,790,653	78.38%	7,232,369	3,237,451	3,994,918	123.40%
Grand Total	**277,319,561**	**148,727,073**	**128,592,487**	**86.46%**	**32,999,327**	**15,685,037**	**17,314,290**	**110.39%**
Grand Total								
Residential	147,265,820	105,470,304	41,795,516	39.63%	15,501,990	10,967,335	4,534,655	41.35%
Residential - Apt & Condo	1,925,196	500,986	1,424,210		208,421	136,247	72,174	52.97%
Small General-Non-Demand	26,084,230	16,728,516	9,355,713	55.93%	2,870,269	1,888,758	981,510	51.97%
Small General-Demand	53,204,882	37,645,343	15,559,539	41.33%	5,821,429	3,993,223	1,828,205	45.78%
Large	58,676,814	41,681,229	16,995,585	40.78%	6,668,404	4,358,675	2,309,729	52.99%
Independent Power Producers	211,655	81,671	129,984	159.16%	48,493	9,000	39,492	438.79%
Private St. Lites	289,646	262,369	27,276	10.40%	28,066	24,904	3,162	12.70%
Sub-total	**287,658,243**	**202,370,418**	**85,287,825**	**42.14%**	**31,147,072**	**21,378,144**	**9,768,928**	**45.70%**
Government								
Small_Non Demand	4,728,417	2,540,759	2,187,658	86.10%	675,632	284,291	391,342	137.66%
Small-Demand	32,613,726	21,854,052	10,759,675	49.23%	3,429,062	2,374,691	1,054,371	44.40%
Large	13,853,233	11,041,019	2,812,214	25.47%	1,521,084	1,065,159	455,925	42.80%
Public St. Lites	4,597,512	4,413,320	184,192	4.17%	442,151	413,021	29,130	7.05%
Sub-total	**55,792,889**	**39,849,150**	**15,943,739**	**40.01%**	**6,067,930**	**4,137,162**	**1,930,768**	**46.67%**
Total-Civilian	**343,451,132**	**242,219,568**	**101,231,563**	**41.79%**	**37,215,002**	**25,515,306**	**11,699,696**	**45.85%**
USN	78,684,978	52,109,349	26,575,630	51.00%	8,840,672	4,899,219	3,941,452	80.45%
Grand Total	**422,136,110**	**294,328,917**	**127,807,193**	**43.42%**	**46,055,673**	**30,414,525**	**15,641,148**	**51.43%**
	-	-				-		


GPA - T and D Losses (MWH) With Renewables
For the Last 5 Years thru 08.31.22
-Moving 12 Months
100,000
90,000
80,000
70,000
60,000
50,000
40,000
30,000
20,000
10,000
6.00%
5.00%
4.00%
3.00%
2.00%
1.00%
0.00%
5.12%
5.32%
5.78%
5.45%
5.51%
84,855
88,398
93,667
89,880
90,017
FY 18
FY 19
FY 20
FY 21
FY 22
T and D Losses (MWH)
T and D Losses (% to Net Gen.)


GPA - T and D Losses (MWH) Without Renewables and Aggreko
For the Last 5 Years thru 08.31.22 -Moving 12 Months
130,000
120,000
110,000
100,000
90,000
80,000
70,000
60,000
50,000
40,000
30,000
20,000
10,000
-
8.00%
7.00%
6.00%
5.00%
4.00%
3.00%
2.00%
1.00%
0.00%
5.86%
6.04%
6.47%
5.89%
6.02%
83,949
84,855
88,398
93,667
89,880
FY 18
FY 19
FY 20
FY 21
FY 22
T and D Losses (MWH)
T and D Losses (% to Net Generation)


GPA - Station Usage(MWH) With Renewables
For the Last 5 Years Thru 08.31.22
-Moving 12 Months
100,000
90,000
80,000
70,000
60,000
50,000
40,000
30,000
20,000
10,000
6.00%
5.00%
4.00%
3.00%
2.00%
1.00%
0.00%
3.65%
3.87%
3.88%
3.91%
3.74%
62,716
66,890
65,487
67,030
63,464
FY 18
FY 19
FY 20
FY 21
FY 22
Station Use (MWH)
% to Gross Generation


GPA - Station Usage(MWH) Without Renewables and Aggreko
For the Last 5 Years Thru 08.31.22-Moving 12 Months
100,000
90,000
80,000
70,000
60,000
50,000
40,000
30,000
20,000
10,000
6.00%
5.00%
4.00%
3.00%
2.00%
1.00%
0.00%
4.15%
4.37%
4.33%
4.21%
4.07%
62,716
66,890
65,487
67,030
63,464
FY 18
FY 19
FY 20
FY 21
FY 22
Station Use (MWH)
% to Gross Generation


GPA AR AGING REPORT
August 31, 2022
0-30 DAYS
31-60 DAYS
61-90 DAYS
91-120 DAYS
OVER 120 DAYS
$9,000,000.00
$8,000,000.00
$7,000,000.00
$6,000,000.00
$5,000,000.00
$4,000,000.00
$3,000,000.00
$2,000,000.00
$1,000,000.00
$-
$(1,000,000.00)
$ 8,553,275
$ 1,617,382
$ 4,484,875
$ 7,020,121
$ 27,382
111,541
$ (242)
$ 1,692,723
$ 6,223,884
$ 2,465,887
$ 1,822,863
Residential
Commerci...
Commerci...
Commerci...
Private St...
IPP
Suspense
Governme...
Governme...
Governme...
Governme...

ACCOUNTS RECEIVABLE BY RATE - ACTIVE
AR AGING REPORT
AS OF August 31, 2022

GL ACCOUNT	RATE	TOTAL DUE	0-30 DAYS	31-60 DAYS	61-90 DAYS	91-120 DAYS	OVER 120 DAYS
1000.142000.10	Residential - R	$ 7,561,152.72	6,253,027.77	902,310.97	189,796.16	88,846.16	127,171.66
1000.142000.11	Residential - PP	$ 790,325.78	(254.20)	-	-	-	790,579.98
1000.142000.17	Residential - D	$ 201,796.42	201,796.42				
1000.142000.12	Commercial G	$ 1,617,381.51	1,376,769.74	146,721.76	35,483.84	22,184.04	36,222.13
1000.142000.13	Commercial J	$ 4,484,875.37	4,123,546.43	323,140.37	21,497.22	3,424.12	13,267.23
1000.142000.14	Commercial P	$ 7,020,120.88	6,165,842.88	740,876.84	-	-	113,401.16
1000.142000.15	Private St Lights	$ 27,381.80	18,194.42	4,043.31	1,118.36	761.90	3,263.81
1000.142000.16	IPP	$ 111,541.02	49,324.85	62,216.17			
1000.142000.98	Suspense	$ (241.84)	(241.84)				
	TOTAL PRIVATE	**$ 21,814,333.66**	**$ 18,188,006.47**	**$ 2,179,309.42**	**$ 247,895.58**	**$ 115,216.22**	**$ 1,083,905.97**
1000.142000.19	Government S	$ 1,692,723.00	$ 874,742.71	$ 695,602.84	$ 80,632.00	$ 25,038.27	$ 16,707.18
1000.142000.20	Government K	$ 6,223,883.99	$ 3,280,483.48	$ 2,695,049.83	$ 231,708.23	$ 16,642.45	$ -
1000.142000.21	Government L	$ 2,465,887.18	$ 1,455,819.87	$ 750,728.56	$ 259,338.75	$ -	$ -
1000.142000.22	Government St Lights	$ 1,822,863.33	$ 443,975.67	$ 423,914.72	$ 420,845.33	$ 396,069.52	$ 138,058.09
	TOTAL GOVERNMENT	**$ 12,205,357.50**	**$ 6,055,021.73**	**$ 4,565,295.95**	**$ 992,524.31**	**$ 437,750.24**	**$ 154,765.27**
	GRAND TOTAL	**$ 34,019,691.16**	**$ 24,243,028.20**	**$ 6,744,605.37**	**$ 1,240,419.89**	**$ 552,966.46**	**$ 1,238,671.24**
	Total Residential	$ 8,553,274.92	$ 6,454,569.99	$ 902,310.97	$ 189,796.16	$ 88,846.16	$ 917,751.64

GUAM CLEAN ENERGY PLAN

2022 IRP Implementation
CY 2023 thru 2027 Plan

Consolidated Commission on Utilities
September 22, 2022

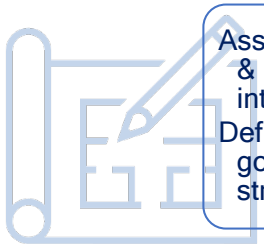
JOHN M. BENAVENTE, P.E.
General Manager
GUAM POWER AUTHORITY

1

The CLEAN ENERGY PLAN

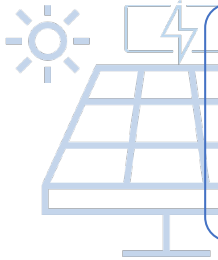
Guam's Roadmap to Clean, Reliable, Resilient, Affordable Energy

PLAN



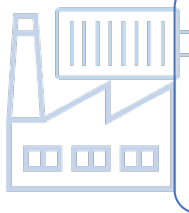
- Assess IWPS & renewable integration
- Define system goals & strategy

INTRODUCE



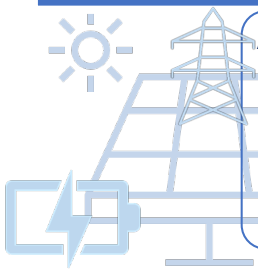
- Introduce small-scale renewables
- Assess impact on system & adjust operations

ENABLE



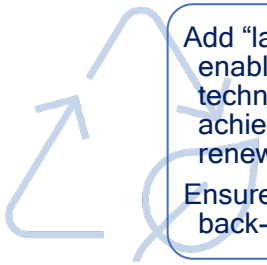
- Plan and incorporate enabling technologies
- Assess & adjust

EXPAND



- Add large-scale renewables & complex control systems
- Major changes to grid operation & maintenance

GOAL



- Add "last mile" enabling technology to achieve 100% renewables
- Ensure resilient back-up capacity

Transitioning to higher penetration of renewable energy the power system requires confidence that the renewables can provide **energy security, self-sufficiency,** and **system stability**.

Matching renewable technologies with the right enabling technologies at the right time needs **detailed planning**.

Planning is critical to ensuring Guam's energy infrastructure has the capacity, flexibility, resilience, and capability to adapt and deliver

GPA Clean Energy Roadmap Ensures Compliance with Consent Decree

Unjustified delays in achieving the stipulated order subjects GPA & its ratepayers to substantial penalties and jeopardizes GPA's ability to provide adequate energy to Guam

IN PROGRESS

CABRAS 1 & 2 FUEL

Contract Issued

December 2022 COD

Use only 0.2%S LSRFO

UTILITY-SCALE SOLAR

Contracts Issued

Dec 2023 COD

Build additional 100MW solar PV

NEW BASELOAD PLANT

Under Construction

Apr 2024

Build & operate new 198MW power plant using ULSD and capable of burning LNG

CABRAS 1 & 2

Oct 2024

Retire Cabras 1&2

COMPLETED

PENALTY

COMPLETED

$400,000 civil penalty paid, avoiding hundreds of millions in potential fines

DECOMMISSION

COMPLETED

Tanguisson 1&2, and Cabras 3&4 are permanently decommissioned

ENERGY STORAGE SYSTEM

COMPLETED

Install and operate 40MW ESS

FUEL DELIVERY SYSTEM

COMPLETED

Convert RFO to ULSD

Construct new pipeline

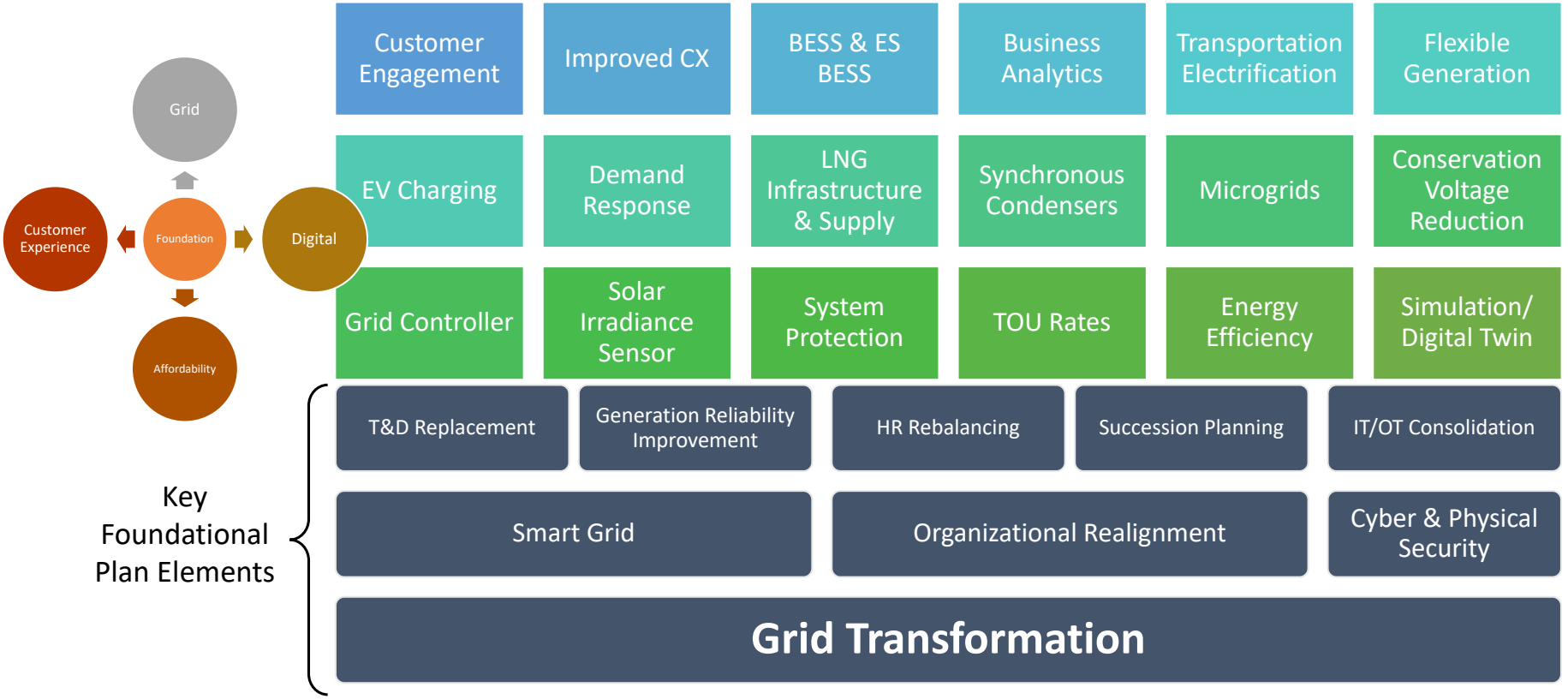
PITI 8 & 9

COMPLETED

Convert Piti 8 & 9 to ULSD

UPDATED INTEGRATED RESOURCE PLAN (Clean Energy Plan)

- IRP updated for 50% Renewables Portfolio approved by CCU and by PUC in Spring 2022.
- Technical assessments were conducted to project system-wide impacts and feasibilities, including for renewable energy integration (1,000 plus pages report).



Sample Criteria for Assessment of IRP

Financial Criteria

1. Overall plan cost
2. Plan capital cost
3. Plan Fuel costs
4. Plan foreign exchange cost
5. Interest coverage ratio
6. Return on equity
7. Utility net income
8. Internal generation of funds

Performance Criteria

1. Customers served
2. Loss of load probability
3. Reserve margin
4. Efficiency of energy use (on supply- and/or demand-side)

Energy Security Criteria

1. Diversity of supply (fraction of each fuel used)
2. Use of domestic resources
3. Use of renewable resources

Environmental Criteria

1. Amount of carbon dioxide produced over the life of plan
2. Amounts of other air pollutants produced over the life of the plan
3. Amount of land used for energy facilities
4. Liquid waste production
5. Solid waste production (accounting for differences between hazardous and non-hazardous wastes)
6. Plan impact on wildlife, biodiversity

Other Criteria

1. Aesthetic issues (impact of plan on recreation, tourism)
2. Employment impacts of plan
3. Impacts of plan on other economic sectors (both positive and negative impacts)
4. Political acceptability/feasibility of plan
5. Social implications of plan (including impacts on local and indigenous populations
6. Cultural impacts of plan (impacts on culturally important resources

2022 IRP Project Listing For Renewables Integration

	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	TBD			
	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	2023
	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**		

Renewable Energy Update

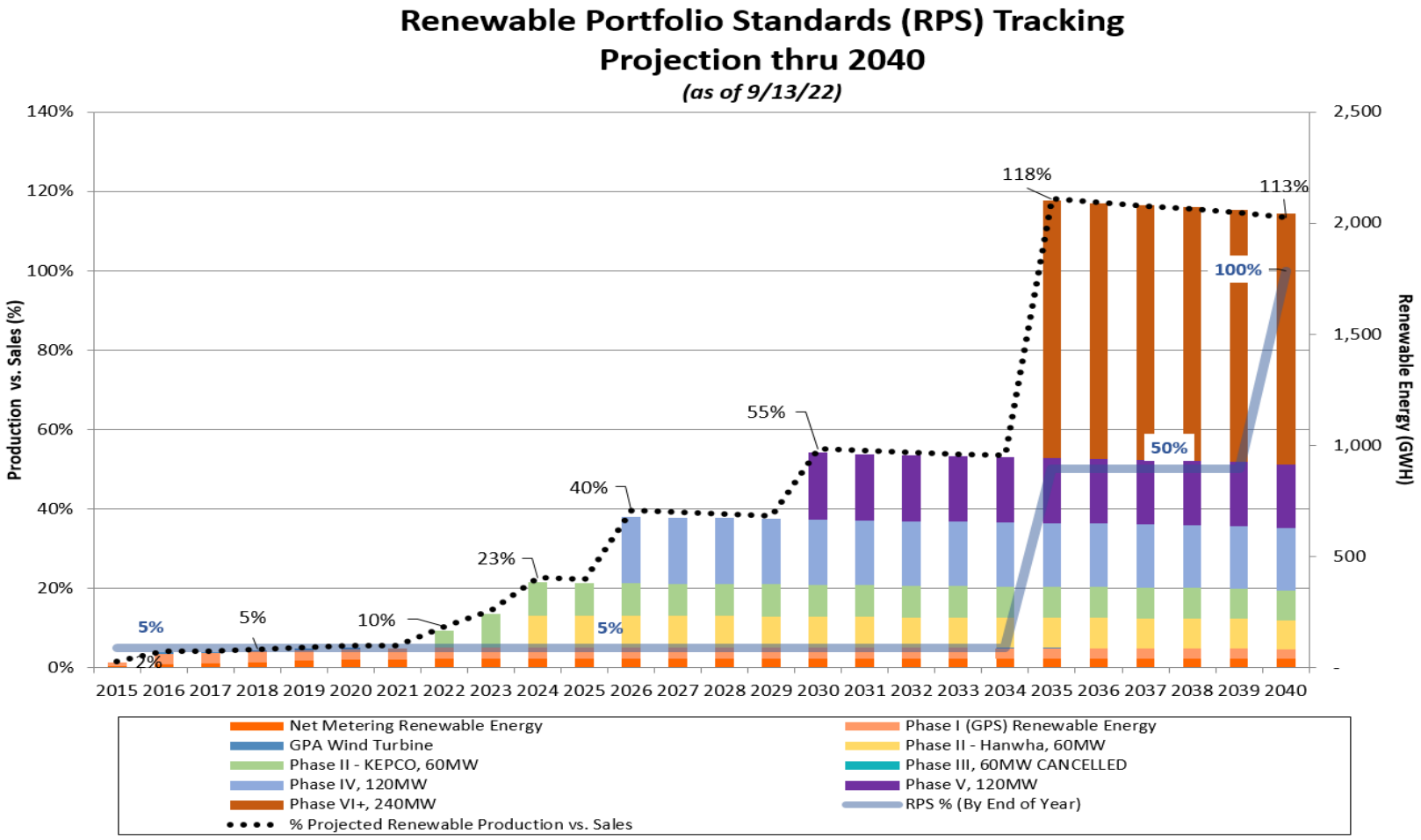
GPA has made substantial progress in expanding its renewable resources but recent world events such required adjustments which are underway today

	Existing	Future 2025 to 2030
Existing/ Future Projects	▪ 25 MW Dandan solar farm – Operational – October 2015 – Take-and-pay contract with GlidePath ▪ 275 KW Wind Project – Operational – March 2016 – Funded by USDOI grant ▪ 60 MW Mangilao solar farm – Operational – June 2022	▪ 2022 Integrated Resource Plan approved by CCU and by PUC May 26, 2022 – Recommends about 400 MW of additional renewables to achieve 50% renewable portfolio by 2030 – Identified about $230M in projects needed for integration of renewables beyond 25%

25 MW	Dandan I	
275 KW	Cotal Wind	
60 MW	Mangilao	
60 MW	Dandan II	
50 MW	NBG	
195+ MW		

	Phase II	Phase III ***Cancelled. Replaced with Phase IV***	**Phase IV**
In Progress	▪ 60 MW (Hanwha) – COD December 2023 (Tenuous due to inflationary cost) – Take-and-pay contracts at about $0.085/kWh – Contracted prices below current LEAC rate – Price escalation limited to 1%	▪ 50 MW (NG) of solar PV to be constructed at two locations on land leased from Navy *Cancelled* – PV production to be stored in batteries and released at night to reduce peak demand and high peaking cost	▪ 180+ MW renewable energy bid to be issued soon – Model for all future utility-scale renewables – Micro-Grids for Military Bases

Revised Renewable Portfolio Standard (RPS) Tracking Projection-September 2022



Renewable Energy – *New Generation Model*

↓ COST — Lowest Cost Solar Energy

- Continue to contract for **low-cost solar energy** ($0.085/kWh) using the utility-scale model and most importantly with no more than a 1% escalation rate over 25-year contract life resulting in sustainable and affordable energy. Whereas Hawaii and some California rates are higher than GPA and projected to rise substantially over next few years, GPA's rate will continue to trend downward beginning 2024

↑ GROWTH — Utility-Scale Benefits All

- GPA has contracted for 120 MW of **utility-scale solar,** first 60 MW commissioned in June 2022 and 2nd 60 MW by December 2023.
- The updated IRP recommends at least another 400 MW of renewables by 2030 to achieve 50% Renewables Portfolio.

↑ STORAGE — Next Generation BESS

- One additional contract ($0.11/kWh) for about 60 MW of **solar with *full energy shifting battery storage system*** (BESS) was near award for commissioning by 2025. Bidder's unsuccessful protest and appeal substantially delayed and caused cancellation of bid. It is anticipated bids similar to this model will be about $0.14/kWh because of transmission infrastructure requirements.

OPPORTUNITIES — Infrastructure Upgrades

- The island's **Electric Vehicle (EV) transportation plan** is addressed in the updated IRP. Manufacturers are adding more EV choices and prices would eventually begin to fall making EV alternatives on Guam real choices. GPA would have to plan on EV charging system. Electric sales would increase eventually resulting in increased kWh sales and opportunities to lower the base rate.

Current GPA Contract Agreements	
198 MW Combined Cycle Ukudu Power Plant	$650M
60 MW Mangilao Solar PV Plant *(Completed)*	$200M
Total:	**$850M**

GPA Contract Agreements and bids over next 5 years	
60 MW Dandan Solar PV Plant	$200M
180 MW Phase IV Solar Projects	$600M
Total:	**$800M**

Conventional Energy Update

Reliable power generators run on clean fuel

	Existing	Future 2024 to 2030
Existing/ Future Projects	▪ 88.4MW Baseloads on ULSD – Piti 8 & 9 as of Sept 16, 2022 ▪ 160MW Intermediate Units using ULSD ▪ 40MW Peaking Units using ULSD	▪ Retire Cabras 1 & 2 ▪ Reduce use of Piti Baseloads ▪ Distribute existing smaller generators for microgrids and resiliency initiatives
	In Progress	**Beyond 2030**
In Progress	▪ 198 MW Ukudu Combined Cycle online 2024 – Efficient use of ULSD – 25 MW BESS for spinning reserve included – Reduces sewage water waste stream – Cuts oil imports by > 500,000 bbl.. annually ▪ Transition Cabras 1 & 2 to 0.2%S LSRFO – No later than December 31, 2023	▪ New renewable baseload technologies

Annual Fuel Consumption (Bbls)

-1,552,523

Emissions Multifold Improvement

-99.9%

Reduced, Affordable Fuel Cost ($/kWh)

$0.1162

Federal Grant Opportunities Support Clean Energy Plan Projects

Buy American, Build America Act (BABA)
- Fed financial assistance for any infrastructure program provided:
  - All iron & steel is US made
  - All manufactured & construction products must be produced (55%+) in US

Justice40 Initiative
- Fed committed to min 40% of all fed funds from fed investments to disadvantaged communities that are marginalized, underserved, and overburdened with pollution
  - GIS mapping tool

EVs
- $7.5B in EV charging to build national network
- Transition to E school and transit buses

Resiliency
- $50B to protect against droughts, heat, floods, fires
- Major investments in weatherization

Tax Breaks
- $7,500 tax credit for new EV purchases
- $4,000 tax credit for used EV
- Removes # vehicles sold caps
- Through 2032

Home Efficiency Rebates
- $1,750 heat pump water heater
- $840 electric stoves & cooktops
- $4,000 electric load service center upgrade
- $1,600 air sealing/ventilation
- $2,500 electric wiring upgrades
- $150 energy audits

Greenhouse Gas Reduction Funds
- $27B to states, munis, tribal gov'ts to provide loans, grants or other financial assistance to enable low-income or disadvantaged communities to adopt zero-emission technologies like EVs or rooftop PV and storage

Infrastructure Investment & Jobs Act (IIJA)

- $1.2T authorized for transportation and infrastructure spending with $550B going toward "new" investments & programs

Transmission investments are heavily incentivized here

Inflation Reduction Act (IRA)

- $369B to clean energy initiatives, energy efficiency, green fuels, including tax credits for renewable energy developers

IRA allows tax-exempt entities to claim energy tax credits directly.

IIJA & IRA PRIORITIES

Power Generation
- Transmission Investments

Grid Performance
- Flexibility
- Reliability & Resilience
- Accessibility in Rural Areas

Clean Energy Transmission & Deployment
- Renewable Energy Investment
- Battery Storage

EV Infrastructure
- Transportation Electrification
- EV-related Funding
- EV infrastructure

Energy Efficiency

Cyber & Physical Security

Grant opportunities may require
- Project re-prioritization
- Advance preparation (shovel-readiness)
- Bond funded utility share

Grant program team being organized under GM office leading this effort

CLEAN ENERGY PLAN

- Transmission & Distribution Upgrades
- Standalone BESS
- Generation Reliability Improvements
- Enhance Smart Grid
- Boost Cyber & Physical Security
- Grid Transformation
- Fuel Diversity
- Renewable Energy + Storage
- EV Infrastructure
- Expand Demand-Side Management

Project Prioritization

Transmission

- 115kV transmission line upgrades and possible new substation allows more low-cost utility scale renewable energy integration, especially southern Guam

Demand-Side Management

- GPA Rebate Programs
- GDOE Performance Management Contracts
- UES agreements for military, commercial and govt. entities

Renewables

- Solar Projects on GDOE School Rooftop and Raw Land Areas
- Solar on Government Buildings and Raw Land
- Solar on GWA Buildings and Raw Land Areas
- Residential Homes Virtual Solar Plant Project (must consider economies of scale)
- Land Fill Covered Areas

75MW-300MWH Load-Shifting Energy Storage System

- ✓ Can serve as ESS for most solar projects listed
- ✓ Provides economy of scale: reduced number of ESS needed resulting in affordability

Dandan Land Fill

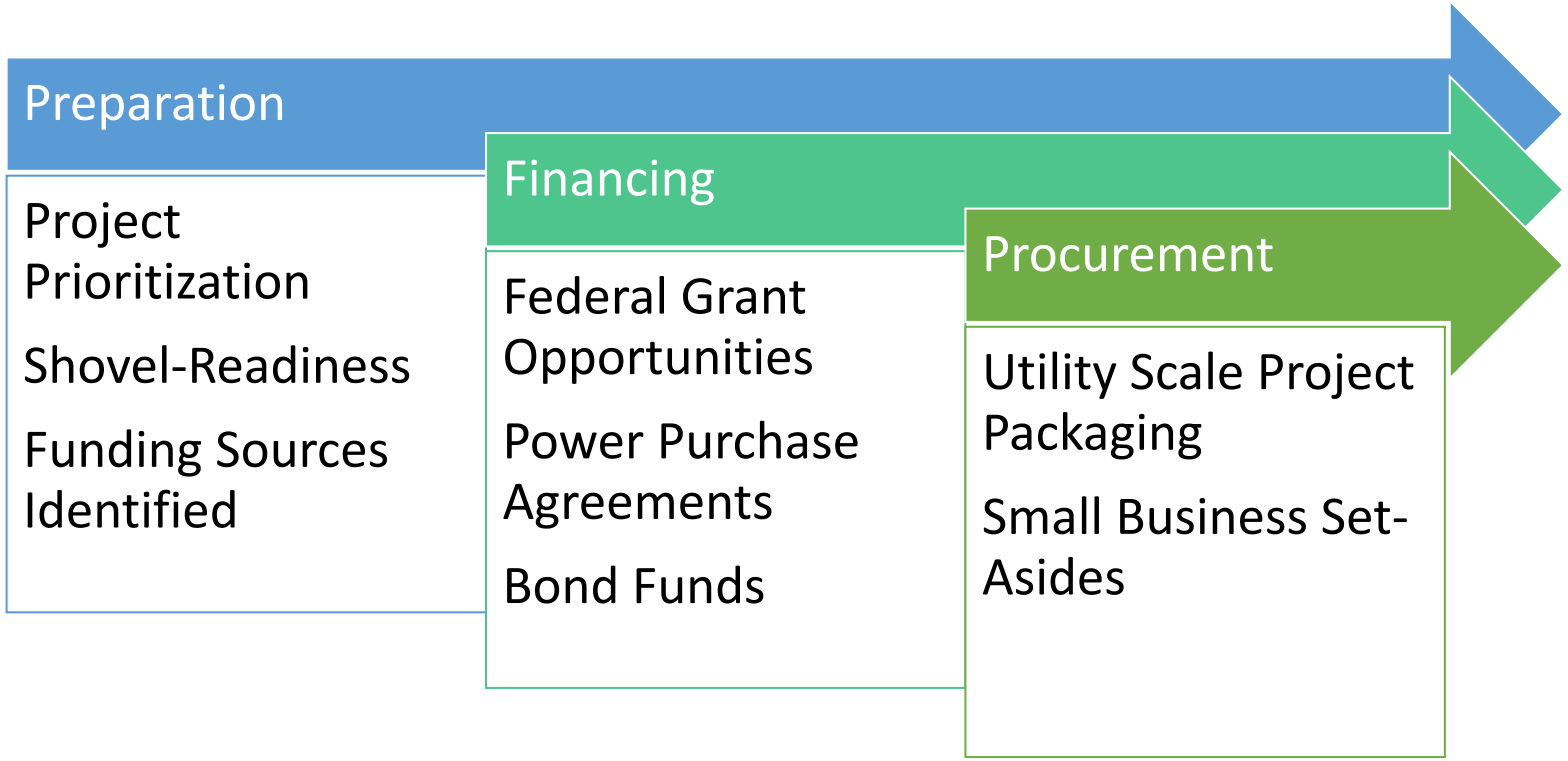
Location	Acres	MW	Annual kWh	$ Amount	Min Revenue @ $0.11
Cells 1 & 2	23	4.13	5,788,608	$3,412,712	$636,747
Cell 3	19	2.75	3,854,400	$2,432,324	$423,984
Totals:				**$5,845,036**	**$1,060,731**

2022 IRP – Transmission Upgrade Opportunities ($300M)

	DESCRIPTION
1	**Upgrade UG Dandan to Talofofo** This project will upgrade the existing underground transmission line from 3#500 kcmil line from Dandan Substation to Talofofo Substation to 6#750 kcmil Cu. This project will increase capacity at Dandan Substation from 25MW to 47MW
2	**New Malojloj Substation** The creation of the new Malojloj Substation will provide access for interconnecting new low cost utility scale solar renewables to GPA's power grid
3	**Dandan to Umatac Transmission Line** The Dandan to Umatac transmission line will complete the southern loop and allow for integration of another 54MW of renewable generation
4	**New OH 115kV to Piti to Apra to Malojloj Substation** This project will create a new overhead transmission line from Piti Substation to the new Malojloj Substation. The project will install 3#927 cable from Piti Substation to the new Malojloj Substation, utilizing existing poles and towers. This project, along with the new Malojloj Substation, will allow GPA to integrate low cost utility scale solar in the south.
5	**New OH 115kV Malojloj to Agana Substation** This new line will provide a backup to the Apra to Malojloj transmission line. The addition of this new line potentially allow GPA to increase additional renewable interconnection and increase GPA's reliability and resiliency in the south.

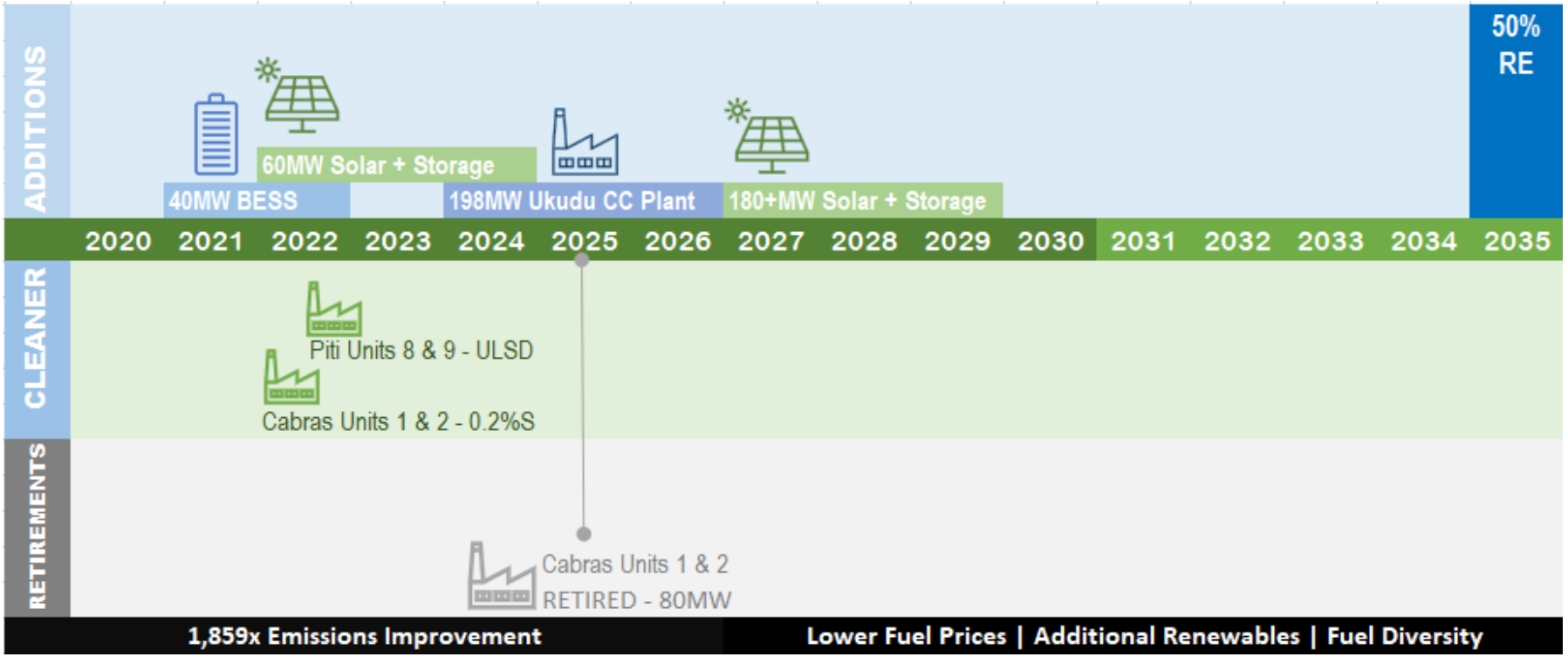
- ✓ Infrastructure Reliability and Resilience
- ✓ Mission Growth
- ✓ Defense Community Infrastructure
- ✓ Infrastructure Savings & Reduced Operating Costs

Approach


Preparation
Project Prioritization
Shovel-Readiness
Funding Sources Identified
Financing
Federal Grant Opportunities
Power Purchase Agreements
Bond Funds
Procurement
Utility Scale Project Packaging
Small Business Set-Asides

16

Prioritized Supply-Side Projects



Integrated Grid & Community Effort

The entire community must work together to make these opportunities a reality

CHALLENGES

VOLITILE FUEL PRICES

- The cost of fuel has been and continues to be the largest component in customer billing statements

PROCUREMENT PROTESTS

- Bid protest laws must be changed to avoid lengthy protests and appeals from derailing projects in the best interests of the community.
- Recent Glidepath protest of 40MW renewable energy + dispatchable battery storage caused ratepayers tens of millions of dollars in lost savings.

OPPORTUNITIES

AFFORDABILITY

- This presents an opportunity to reduce rates and improve Guam's economy by "replacing oil with jobs"!!!
- GPA has and continues to progressed with its plan to integrate low-cost utility-scale renewable energy
- We need funding sources to use as leverage in obtaining grants which provides more savings

CLEAN ENERGY

- Optimal mix of existing and new resources to meet efficiency and cost-effectiveness goals
- 400MW of renewables by 2030 provides opportunities for both small and large businesses (Utility Scale Solar and Roof Top Solar Programs)
  - An additional 500MW by 2040 (100% Renewables) provides even greater opportunities.
- Guam potential land and roof top areas totals > 1,000MW Solar PV Capacity

RELIABILITY & RESILIENCY

- The infrastructure must be upgraded to ensure reliability and accommodate opportunities

CY 2022 thru CY 2027 Implementation Roadmap

- **Issue bid for 300,000MWH (180MW) Renewable Energy**
  - Approval of CCU Resolution FY2022-30, Renewables Phase IV Multi-Step Bid Invitation
  - Petition PUC Approval
  - Issue bid by November 2022; Commission Utility Scale Plants by CY 2026
- **Develop Small Scale Roof-Top and Raw Land Solar PV programs within 6 to 12 months**
  - Obtain CCU and PUC approval of each specific program
  - Recommend incentivized rate which would ensure success of programs
  - Recommend set-aside programs for small local business including financing alternatives
  - Categories of programs include GDOE, Governmental and Educational Institutions, residential and commercial, under-utilized large parcels of Ancestral and Chamorro Land Trust land, etc.
- **Obtain authorization from Legislature and Administration for $300M Green Bonds**
  - For improvement of Grid Infrastructure to integrate renewables especially ones with intermittency issues
  - To provide source for matching funding for improving success of receiving federal grants
  - To provide much needed Energy Storage Systems which would maximize production efficiency, mitigate distribution voltage issues, minimize individual project ESS requirements, etc.
- **Seek changes to procurement laws to serve the best interest of ratepayers and community**
  - Provide consequences for protest costing community millions in lost savings
  - Existing laws favors protestor and significantly imbalanced resulting in loss savings to community
  - Review local preference laws and adjust to be relevant to renewable procurement. Existing 15% local preference seems intended for product procurement and not long-term energy contracts which would result in substantial cost to ratepayers

CY 2022 thru CY 2027 Implementation Roadmap (Continued)

- **Maximize pursuit of Federal Grants to fund clean and renewable energy projects**
  - Establish team focused to maximize pursuit of federal grants
  - Assist the Administration in obtaining energy supply and demand side management related grants
- **Continue transition of GPA fleet to Electric Vehicles and Heavy Equipment**
  - Begin in FY 2023 procuring electric vehicles, heavy equipment and bucket trucks
  - Establish charging stations as necessary to support fleet
- **Establish Electric Vehicle Incentive programs within 18 months**
  - Recommend incentivized rates for electric vehicle charging including Time-of-Use rates
  - Complete study on island-wide charging infrastructure
  - Provide technical assistance on entities switching to electric vehicles to ensure associated charging infrastructure are installed to minimize impact on grid and rates to consumer