GPWA CCU MEETING

Presentation to:

Consolidated Commission on Utilities
February 27, 2024

ISSUES FOR DECISION

GPA Resolution No. FY2024-18

Relative to Authorizing the Refunding of the 2014 Revenue Bond

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

GPA has been pursuing strategies for reducing debt service payments. One strategy that has emerged because of low interest rates has been the concept of refunding all or a portion of GPA's outstanding 2014 Series A revenue bonds for interest rate savings. After reviewing this strategy with Bank of America, GPA Bond Counsel, and Guam Economic Development Authority ("GEDA"), GPA believes this strategy has potential for providing significant benefit for GPA ratepayers.

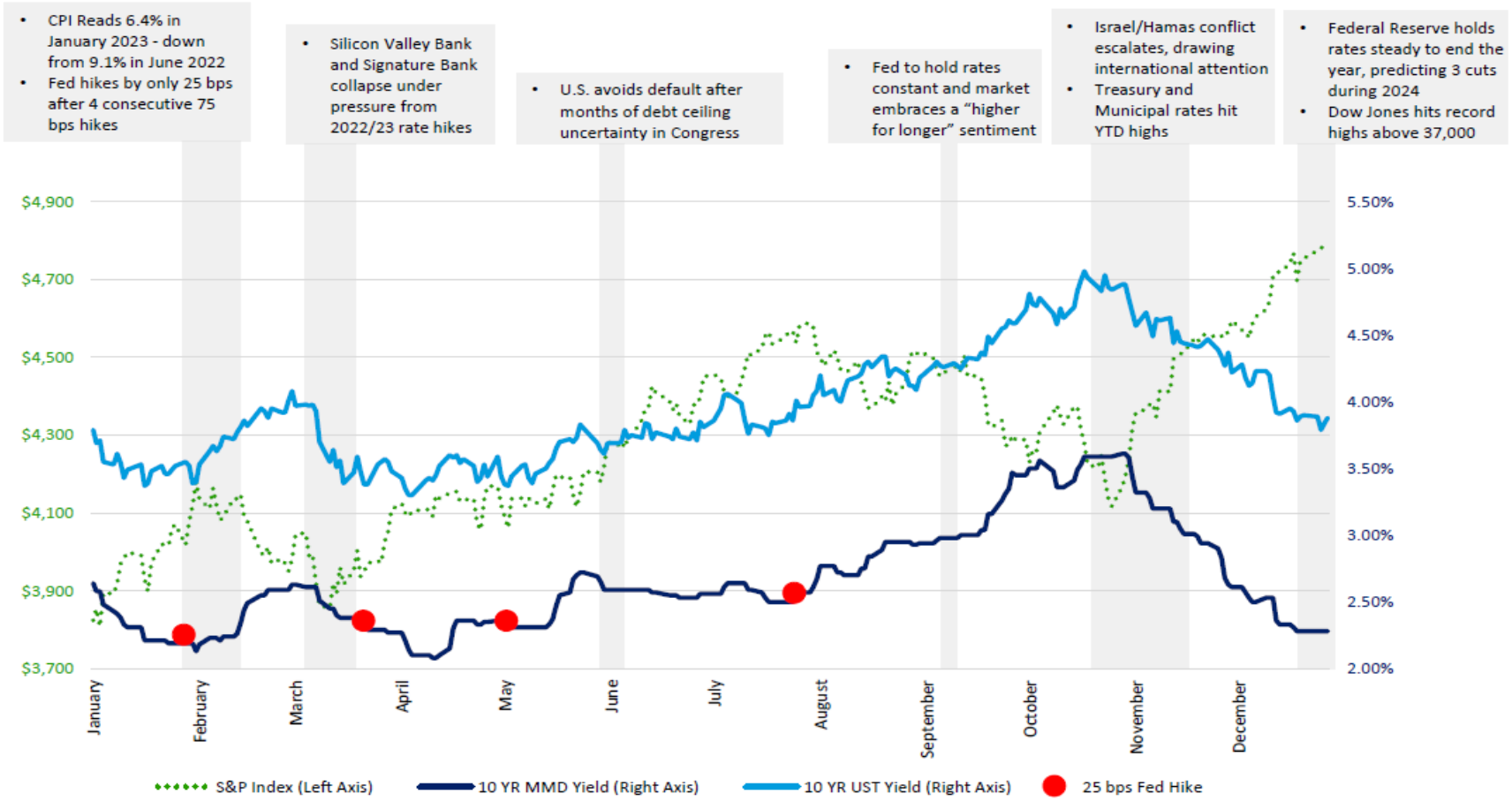
How much will it cost?

The present value of debt service on the refunding bonds shall be at least two percent (2%) less than the present value of debt service on the refunded bonds, using the yield on the refunding bonds as the discount rate.

GPA Resolution No. FY2024-18 *(continued)*

Relative to Authorizing the Refunding of the 2014 Revenue Bond

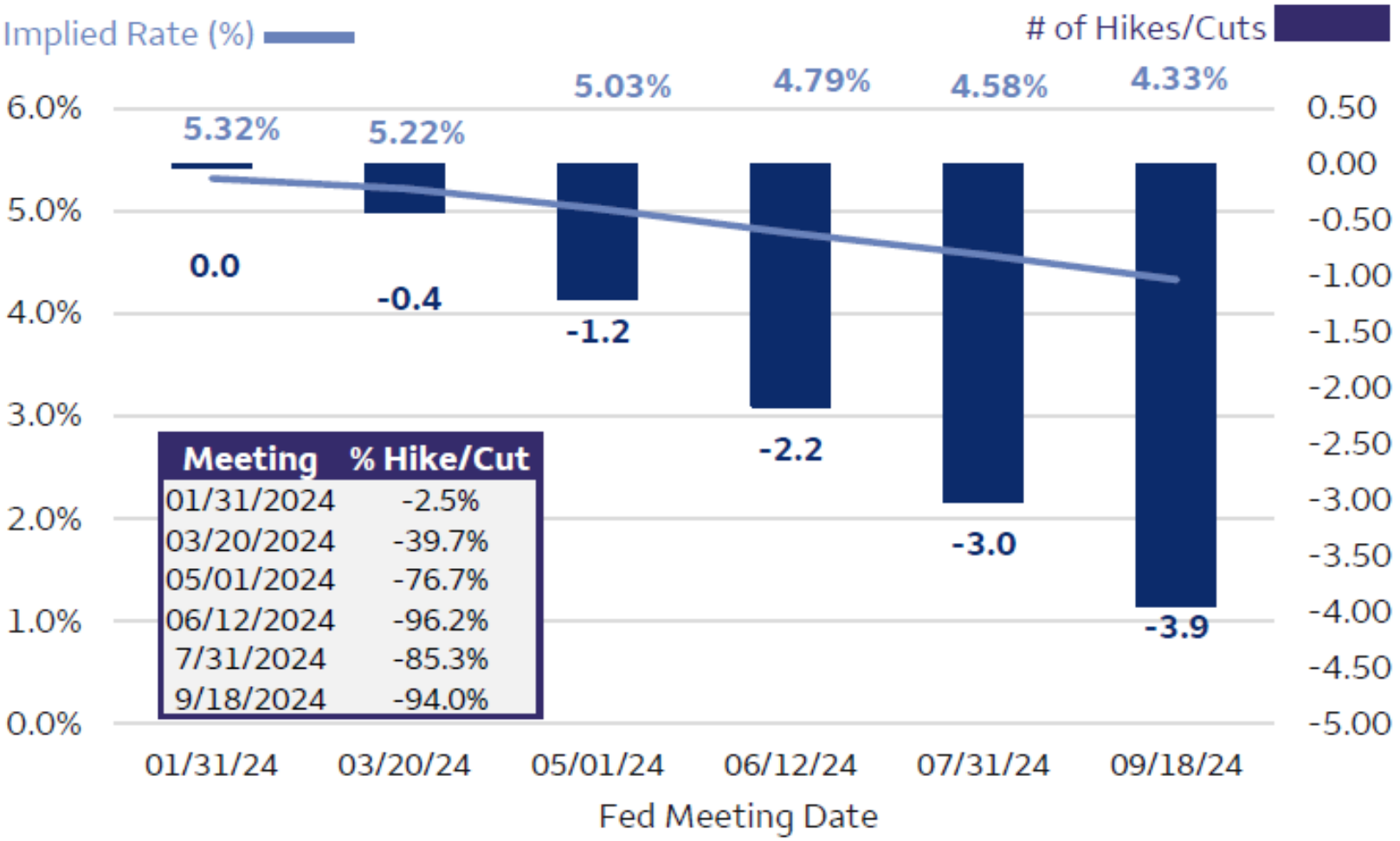
- 2023 was characterized by the Fed's continued path to taming inflation as well as political and geopolitical instability



GPA Resolution No. FY2024-18 *(continued)*

Relative to Authorizing the Refunding of the 2014 Revenue Bond

Projected U.S. Federal Reserve Rate Hike Probabilities[1]



Meeting	% Hike/Cut
01/31/2024	-2.5%
03/20/2024	-39.7%
05/01/2024	-76.7%
06/12/2024	-96.2%
7/31/2024	-85.3%
9/18/2024	-94.0%

Sources: (1) Bloomberg World Interest Rate Probabilities as of 1/24/2024

GPA Resolution No. FY2024-18 *(continued)*

Relative to Authorizing the Refunding of the 2014 Revenue Bond

Wells Fargo Economist Interest Rate Projection (1)

	2023	2024				2025	
	Current	Q1	Q2	Q3	Q4	Q1	Q2
Fed Funds Rate	5.50%	5.50%	5.00%	4.50%	4.25%	4.00%	3.75%
5-Year UST	4.06%	3.95%	3.75%	3.60%	3.50%	3.40%	3.35%
10-Year UST	4.18%	4.00%	3.85%	3.70%	3.60%	3.55%	3.50%
30-Year UST	4.41%	4.15%	4.05%	3.95%	3.90%	3.85%	3.80%

Sources: (1) Wells Fargo & Company forecast published 1/12/2024

GPA Resolution No. FY2024-18 *(continued)*

Relative to Authorizing the Refunding of the 2014 Revenue Bond

- Currently outstanding in the amount of $65.79 million, the 2014 Series A are callable on October 1, 2024
- Settlement of the refunding bonds must be on or after July 1, 2024 to reach the 90-day window

Refunded Bonds					Refunding Bonds					
Maturity	Coupon	Par	Call Date	Escrow Rate	New Yield	Savings ($)	Savings (%)	Neg. Arb.	Efficiency	Selected?
10/1/2024	5.00%	1,845,000	N/A	5.48%	3.39%	(9,316)	-0.50%	(9,446)	0.00%	✗
10/1/2025	5.00%	1,935,000	10/1/2024	5.48%	3.34%	21,944	1.13%	(10,162)	186.20%	✓
10/1/2026	5.00%	2,035,000	10/1/2024	5.48%	3.22%	60,672	2.98%	(11,310)	122.90%	✓
10/1/2027	5.00%	2,135,000	10/1/2024	5.48%	3.20%	99,440	4.66%	(11,927)	113.60%	✓
10/1/2028	5.00%	2,245,000	10/1/2024	5.48%	3.16%	144,248	6.43%	(12,769)	109.70%	✓
10/1/2029	5.00%	2,355,000	10/1/2024	5.48%	3.15%	189,934	8.07%	(13,456)	107.60%	✓
10/1/2030	5.00%	2,470,000	10/1/2024	5.48%	3.20%	230,033	9.31%	(13,809)	106.40%	✓
10/1/2031	5.00%	2,595,000	10/1/2024	5.48%	3.23%	274,066	10.56%	(14,317)	105.50%	✓
10/1/2032	5.00%	2,725,000	10/1/2024	5.48%	3.28%	314,867	11.55%	(14,698)	104.90%	✓
10/1/2033	5.00%	2,860,000	10/1/2024	5.48%	3.31%	360,139	12.59%	(15,215)	104.40%	✓
10/1/2034	5.00%	3,005,000	10/1/2024	5.48%	3.33%	409,629	13.63%	(15,839)	104.00%	✓
10/1/2039	5.00%	17,440,000	10/1/2024	5.48%	3.75%	1,680,327	9.63%	(74,292)	104.60%	✓
10/1/2044	5.00%	17,150,000	10/1/2024	5.48%	4.28%	733,005	4.27%	(50,493)	107.40%	✓
10/1/2044	4.00%	5,000,000	10/1/2024	5.48%	4.28%	(401,920)	-8.04%	(14,662)	0.00%	✗
Total		$ 65,795,000				$ 4,107,070	6.24%	$ (282,395)	107.38%	
Total Selected for Refunding		$ 58,950,000				$ 4,518,305	7.66%	$ (258,287)	106.06%	

Source: BofA

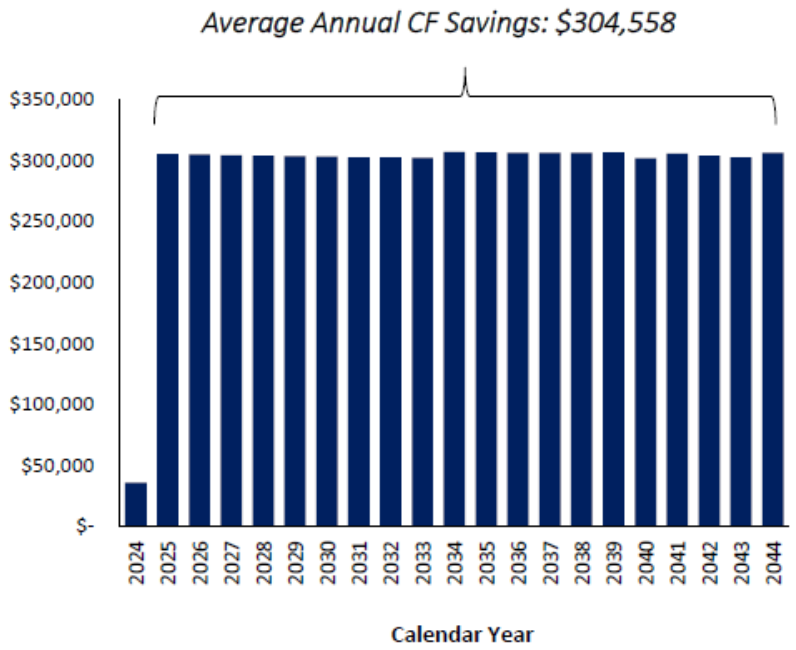
GPA Resolution No. FY2024-18 *(continued)*

Relative to Authorizing the Refunding of the 2014 Revenue Bond

Refunding Statistics

Summary of Refunding Results	
Delivery	July 2, 2024
Refunding Par Amount	$54,045,000
Refunded Par Amount	$58,950,000
All-In TIC:	4.30%
Current Aggregate MADS	$37,945,250
New Aggregate MADS	$37,643,125
DSRF (Deposit) / Reduction:	$302,125
Principal Amortization	2025 - 2044
NPV Savings	***$3,907,709***
NPV Savings as % of Refunded Par	***6.63%***
Positive Arbitrage	***$258,806***

Cashflow Savings



Source: BofA

GPA Resolution No. FY2024-18 *(continued)*

Relative to Authorizing the Refunding of the 2014 Revenue Bond

Steps required to refund 2014 Bond?

1. CCU approval
2. New legislation
3. PUC approval

Source: BofA

GM REPORT

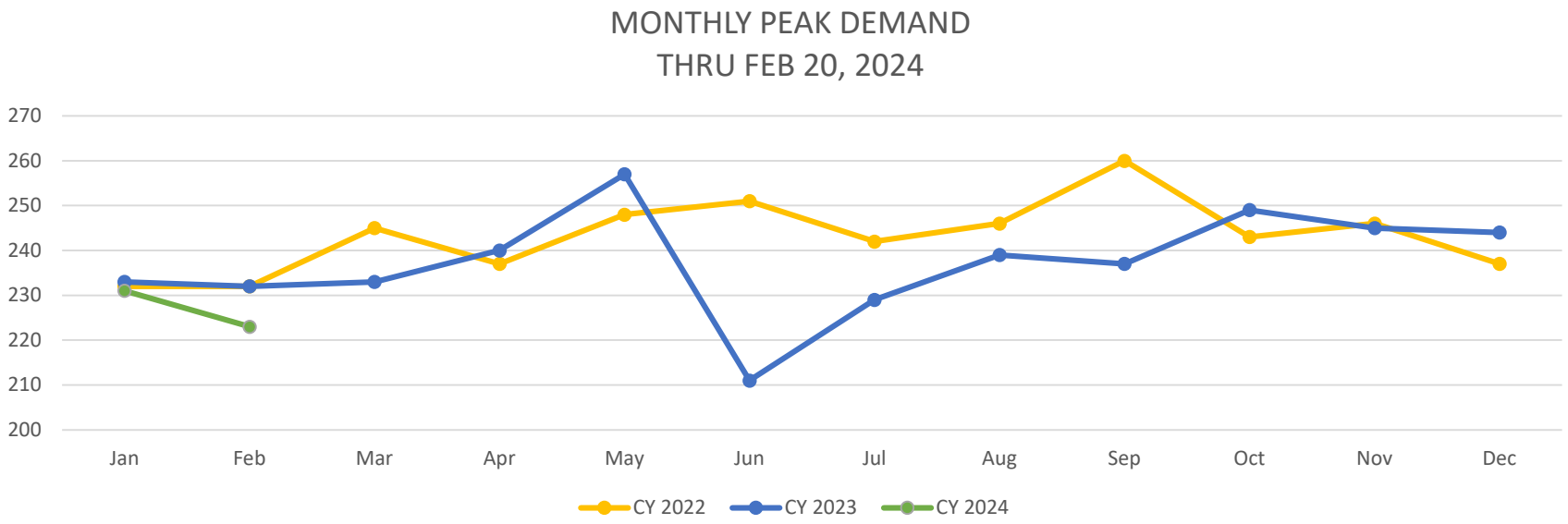
General Manager's Report

Projected MARCH 2024 generation status

1. Reserve Margin Forecast for March 2024:

Targeted Available Capacity:	272 MW *(all baseload generators available)*
Projected Demand:	233 MW
Anticipated Reserve Margin:	39 MW
Interruptible Load Availability:	20 MW
Total Reserves:	59 MW

2. System Peak Demand:

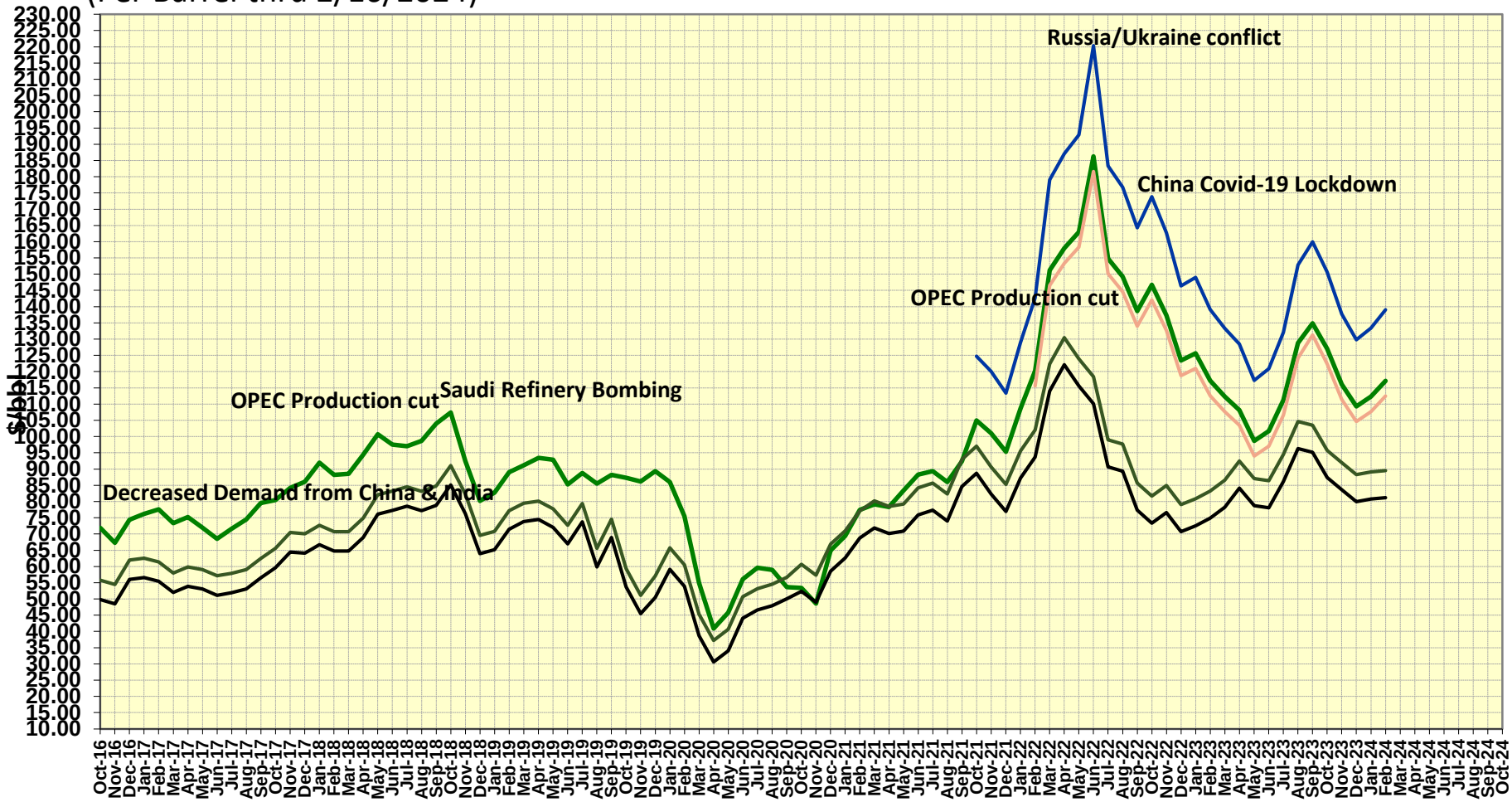


General Manager's Report

3. GPA Fuel Landed Cost

(Per Barrel thru 2/16/2024)

ULSRFO 0.2% **$139.05** **ULSD Bulk** **$112.51**



General Manager's Report

4. PUC Update:

Dockets to be heard at PUC regular meeting on Thursday, February 29, 2024

- GPA Docket No. 24-11: Petition of the Guam Power Authority to Approve the Relocation of the Yigo Diesel Generators;
- GPA Docket No. 24-12: Petition of the Guam Power Authority to Approve One Consecutive Two-Year Extension of Residual Fuel Oil (RFO) No. 6 Supply Contract with Hyundai Corporation;
- GPA Docket No. 24-13: Petition of the Guam Power Authority to Approve Extension of Ultra-Low Sulfur Diesel (ULSD) Storage Lease Agreement with Tristar Terminals Guam, Inc.;
- GPA Docket No. 24-14: Petition of the Guam Power Authority to Approve Procurement of Supply of Ultra-Low Sulfur Diesel (ULSD) for Various Power Generating Plant Site Locations; and
- GPA Docket No. 24-15: Petition of the Guam Power Authority to Approve the Award of 20 MW of Temporary Power.

Dockets *APPROVED* on January 25, 2024:

- GPA Docket 24-10: Petition to Approve Purchase of Water System Diesel Generators
- GPA Docket 24-08: Petition to Approve the Levelized Energy Adjustment Clause [LEAC]
- GPA Docket 24-06: Petition to Approve Amendment 2 to Hanwah Energy Corporation's Phase II, Renewable Energy Acquisition Power Purchase Agreement

Dockets *PENDING* PUC Review:

GPA Docket 24-03, Petition to Review 12 G.C.A. §8502 (c)(2)(B) relative to Net Metering

General Manager's Report

5. Customer Assistance

Prugråman Ayuda Para I Taotao-Ta Energy Credit

- P.L. 37-49 (October - December 2023) had its third and final credits applied on January 22, 2024.
- Bill No. 208-37 (COR) Three-month (January – March 2024) extension to energy credit program was introduced by Senator William Parkinson on December 1, 2023. *Bill was passed unanimously in Legislative session on Friday, February 23, 2024 and will now go to the Governor for signature.*

Guam Homeowner Assistance Fund Program (HAF)

- $32,354.54 was applied to qualified ratepayer accounts from December 30, 2023 through January 31, 2024, totaling $2,851,068.12 since program inception. [Batches 81-82]
- *HAF Program has since closed as of January 31, 2024.*

Emergency Rental Assistance Program (ERA)

- $327,326.53 was applied to qualified ratepayer accounts on December 30, 2023 through January 31, 2024, totaling $6,719,886.54 since program inception. [Batches 284 – 295]

General Manager's Report

6. Customer Engagement & Community Outreach

- Latest GPA news and updates on projects, energy-saving tips, assistance, Clean Energy Master Plan etc., is broadcasted through print and e-newsletters, social media, advertisements, post on GPA website, and outreach events.
- Generation capacity and potential load shedding schedules (January 2, 2024 and February 1, 2024) effectively shared with customers and residents using SMS, direct email, post on GPA website, media release, social media, village mayors and chat groups.

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

FOR IMMEDIATE RELEASE

February 1, 2024

FOR MORE INFORMATION
CONTACT: JOYCE SAYAMA
GPA COMMUNICATIONS MANAGER
PHONE NO.: (671) 648-3145

Advancements in Procuring Temporary Power Amid Minimal January Outages; Precautionary 1-Hour Rotating Schedule Extended

(Fadian, Guam) – The Guam Power Authority (GPA) is committed to keeping the public informed about its

General Manager's Report

6. Customer Engagement & Community Outreach (continued)

- School Outreach: **P.C. Lujan Elementary School Career Day (February 9, 2024)**.
  - GPA booth had personnel protective equipment (PPE) and a bucket truck on static display.
  - T&D crew consisting of *Raymond Torres*, *Beau Mesa*, and *Joseph Pereda* demonstrated how to use their safety equipment and how to properly ascend in the bucket truck. Additionally, they discussed their duties and responsibilities as a Lineman.
  - Communications personnel *Joyce Sayama* and *Joleen Cruz* discussed energy-efficiency, power conservation tips, "Beat the Peak" campaign and the different types of renewable energy.
  - *Chanel Jarret* from the Human Resources office discussed some of the careers available at GPA, such linemen, engineers and accountants, etc.
  - A total of 132 students consisting of 51 fifth graders, 61 sixth graders, and 20 from headstart.
  - Students received GPA promotional items such as activity books, crayons and stickers.





General Manager's Report

7. DSM Online Report – January 2024

OVERALL COUNTS

Month	ALL			COMMERCIAL			RESIDENTIAL		
	Applications	Equipment	Rebates	Applications	Equipment	Rebates	Applications	Equipment	Rebates
FY-2022*	696	981	$ 195,675	7	12	$ 1,950	689	969	$ 193,725
FY-2023	5,721	7,990	$ 1,618,250	67	101	$ 19,350	5,654	7,889	$ 1,598,900
Oct-23	416	572	$ 115,125	7	12	$ 1,800	409	560	$ 113,325
Nov-23	450	652	$ 129,575	4	5	$ 700	446	647	$ 128,875
Dec-23	389	557	$ 111,850	7	10	$ 1,950	382	547	$ 109,900
Jan-24	442	603	$ 125,150	3	3	$ 2,000	439	600	$ 123,150
Feb-24									
Mar-24									
Apr-24									
May-24									
Jun-24									
Jul-24									
Aug-24									
Sep-24									
TOTAL	8,114	11,355	$ 2,295,625	95	143	$ 27,750	8,019	11,212	$ 2,267,875

AVERAGES

Month	ALL		COMMERCIAL		RESIDENTIAL	
	Applications	Equipment	Applications	Equipment	Applications	Equipment
As of Jan-24	$ 283	$ 202	$ 292	$ 194	$ 283	$ 202

** DSM Online went live on 8/17/22. FY2022 Figures are from 8/17/2022 to 9/30/2022 only.*
Large Commercial, Government, Prepaid, and Inactive accounts are still tracked and processed manually.
Paper applications are NOT INCLUDED with these counts.

General Manager's Report

8. 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
- Geotechnical boring test report at the Piti site completed.
- GPA approves remaining Phase 5 & 6 construction permits.
- GPA obtains MEC specialist for construction support at Nimitz allowing excavation to resume on Nov. 1, 2022
- GPA obtains easement to avoid Chaot river area near Route 4 in Sinajana for pipeline construction.
- GPA provides notice to Navy of work starting on the bullcart trails along the pipeline route after Navy NEPA process.
- GPA obtains signage requirements for bullcart trails from Navy.
- CCU officially approves cancellation of Reserve Facility.
- Governor visits plant site on Feb. 2, 2023
- GPA obtains GEPA approval for Land Use Control Work Plan.
- GPA met with Mayor Paco and Mayor Sarvares to coordinate bullcart excavation in Harmon and Mongmong-Toto-Maite.
- PUC officially approves cancellation of Reserve Facility.
- GPA reviewed GUP's proposed pipeline construction plan for the Nimitz Hill Steep Section and provided comments to contractor.
- GPA received overview of commissioning plan from GUP commissioning team on Apr. 12, 2023.
- GPA obtains CCU approval for LNG Phase I pending PUC approval
- GPA met with GUP/DUP on Jun 7th, 2023 to discuss the impact of Typhoon Mawar and the actions required to mitigate the damage.
- GPA restored power to Ukudu Power Plant on Jun. 8, 2023.
- Resolved fuel supply configuration issue with GUP on Oct. 24, 2023.
- GPA and GUP reached an agreement on Dec. 6th, 2023 to establish the new Required Commercial Operation Date (RCOD) for Sep. 30th, 2025.

General Manager's Report

8. New Power Plant Update: GPA Activities (continued)

Ongoing / Pending:

- Archaeological & Cultural Requirements:
  - ✓ Archaeological monitoring for pipeline construction work (Chaot & Nimitz areas).
  - ✓ Archaeological monitoring is nearly completed for all required areas.
  - ✓ Archaeological monitoring is completed for all pipeline work. GPA assessing if further monitoring is required in additional 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.
- Construction Permit & Drawing Reviews:
  - ✓ Interconnection and pipeline design documents are being reviewed for approval.
- Reserve Facility:
  - ✓ Reviewing draft ECA amendment provided by GUP
- Other:
  - ✓ Monthly project reviews including Project Schedule.
  - ✓ Weekly meetings on contract items and ongoing construction activities and pending issues
  - ✓ Coordination with Navy on excavation activities for pipeline construction
  - ✓ Coordination with GUP/DUP on construction activities within Harmon Substation
  - ✓ GPA preparing response to GUP force majeure claim.
  - ✓ GPA is reviewing GUP's proposal to change fuel pump configuration.
  - ✓ GPA is assisting DUP with work within Harmon Substation
    - ✓ GPA work includes installation of line guards, outage coordination, providing materials, stringing transmission lines, etc.
    - ✓ GPA T&D to begin stringing transmission lines by the end of February.
  - ✓ Reviewing draft ECA amendment submitted by GUP.

General Manager's Report

8. New Power Plant Update: GUP [Contractor] Activities

Typhoon Mawar Restoration:

- DUP structural engineer arrived on island Jun. 7th, 2023 to perform damage assessment.
- Switchgear and HRSG technical advisors arrived on island on Jun. 8th, 2023 to assess extent of the damage.
- GUP is requesting for a 14.5 month extension to the required Commercial Operation Date.
- GUP reviewing treated water tank demolition plan.
- Completed demolition of fire-water tank.
- GUP finalizing decision for MV switchgear repair/replacement.
- Demolition of all damaged ULSD and treated water tanks are completed. DUP has resumed vertical welding of tank walls.
- 2 levels of steel walls is in place for ULSD Tank B and Treated Water Tanks. The 3rd level of steel walls is in place for ULSD Tank A.

Typhoon Bolaven:

- Site was not affected by the typhoon and equipment was well preserved.

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 issues 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 approves and issues Ukudu Air Permit on 7/20/22 during construction ground breaking ceremony.
- KEPCO/GUP achieves financial close on September 30, 2022.
- Obtained DPW heavy haul permit on Feb. 3, 2023
- Delivered letter to GPA for review requesting additional compensation for increased costs and delays.
- Completed all heavy haul transports on Apr. 24th, 2023.
- Obtained permit approval for reuse water pipeline installation from DPW and GEPA.
- Concrete work completed for median restoration.
- Conducted monthly cybersecurity meeting to discuss NERC compliance with GPA Oct. 6, 2023
- GUP/DUP presented Route 16 work plan to DPW on Nov. 2nd, 2023.
- GUP/DUP submitted complete package requested by DPW for the Route 16 permit on Dec. 13, 2023.
- GUP/DUP acquired encroachment permit from DPW to begin work along Route 16. Construction began on Jan. 26th, 2024
- GUP submitted draft ECA amendment on Feb. 8th, 2024 for lenders and GPA review

General Manager's Report

8. New Power Plant Update: GUP [Contractor] Activities (continued)

Ongoing / Pending: *(continued)*

Construction

- Power Plant – All 6 phases of plant building construction permits were issued by Oct. 2022.
- Pipeline –
  - Construction of above-ground pipeline pedestals is ongoing
  - Excavation has started on Route 34..
  - Began construction on Route 16 on Jan. 26,2024
  - Excavation began near the Barrigada Post Office on Feb. 12, 2024.
  - Construction is ongoing along Route 6 and the above ground section in Nimitz Hill.

Transmission Line

- Design and material specifications under review.
- Anticipating construction early 2023 pending permit approval.
- Cleared area between Harmon Substation and Ukudu Plant for new transmission lines.
- Pole foundation work is completed within Harmon Substation.
- Installation of transmission line between Harmon Substation and Ukudu Plant

Existing Pipeline Cleaning & Demolition

- GPA continues to work with GEPA on a Land Use Control document regarding Route 16 (Airport) to Route 34 abandonment plan.

Reserve Facility

- Provided draft ECA amendment to GPA.

Schedule Update

- GUP submitted updated schedule on Sep. 13, 2023 with a Jan, 2026 Commercial Operation Date
- GUP submitted "accelerated" schedule on Sep. 13, 2023 with a Sep, 2025 Commercial Operation Date
  - GPA is reviewing GUP's $12 million dollar request to accelerate schedule
  - The new COD has been determined by GPA and GUP. Pending ECA amendment and approvals from CCU & PUC.

8. New Power Plant Update: GUP [Contractor] Activities (continued)

Ongoing / Pending: *(continued)*

Transportation Logistics

- EPC continues to work with DPW on transport plan from Port to Ukudu site.
- Bridge analysis dictating required transport equipment.
- Temporary bridge delivered 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
- Demonstration of the Self-Propelled Modular Transporter (SPMT) was provided to DPW, GUP, DUP and GPA representatives on Oct. 27 at the Port.
- First heavy cargo shipment arrived on Guam on Nov. 2 which contains the 12 HRSG modules. It is being stored at the Port.
- Doosan team has hired media group to provide public outreach.
- Heavy haul transportation ongoing. First transport began Feb 4th.
- Painting of newly constructed medians is completed.

General Manager's Report

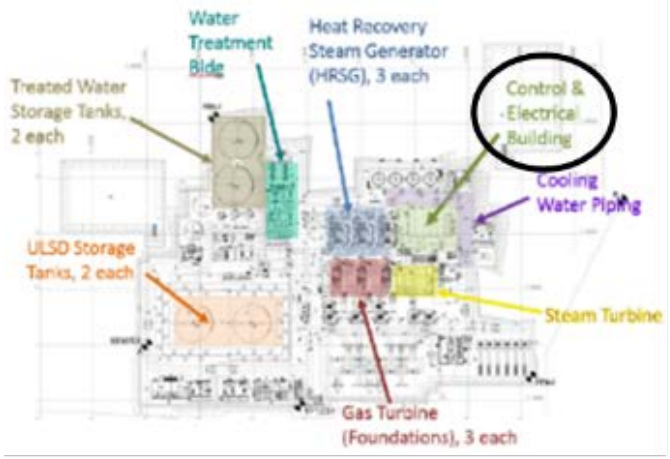
Ukudu Power Plant Construction Status

Plant construction progresses steadily. Major ongoing work includes: Restoration of tank walls for the ULSD and Treated Water tanks, electrical terminations on the GTG units, and construction of STG building.



General Manager's Report

Ukudu Power Plant Construction Status



Control & Electrical Building



Control room floor installation is completed



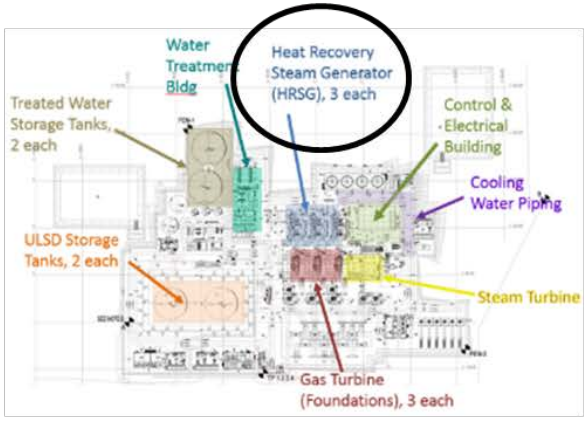
UPS Battery Systems are now in service



General Manager's Report

Ukudu Power Plant Construction Status

Heat Recovery Steam Generator (HRSG)



HRSG 1-3: Steel Structure & Drum Installation Work is ongoing





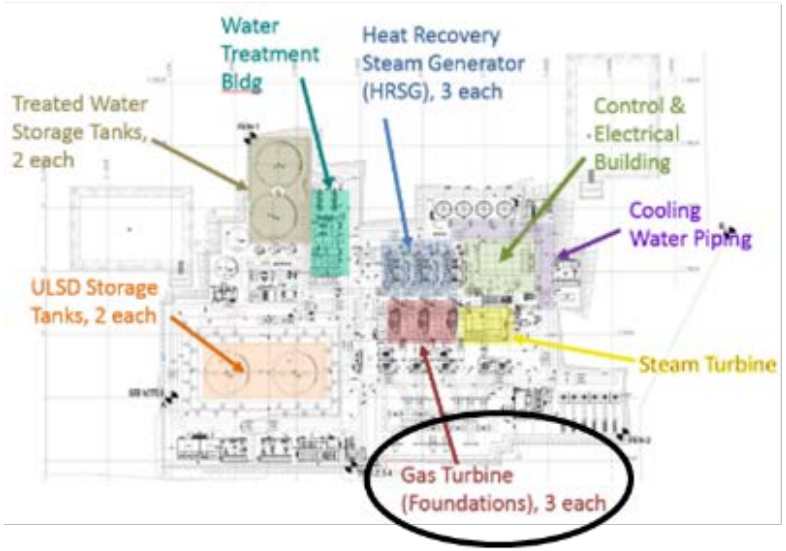




General Manager's Report

Ukudu Power Plant Construction Status

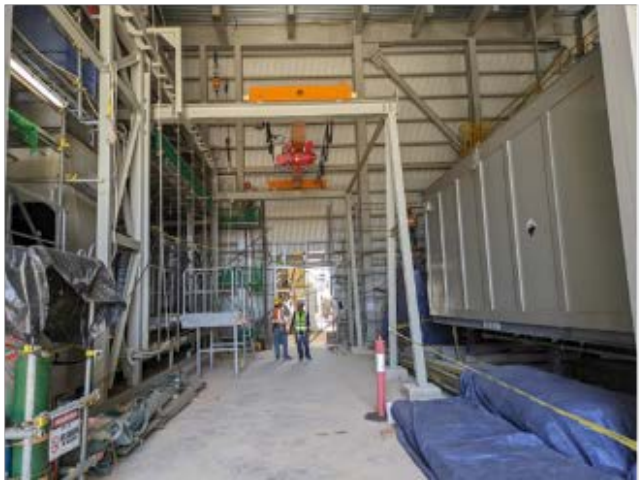
Gas Turbines & Generators



GTG Building – Air intake and piping installation is in progress

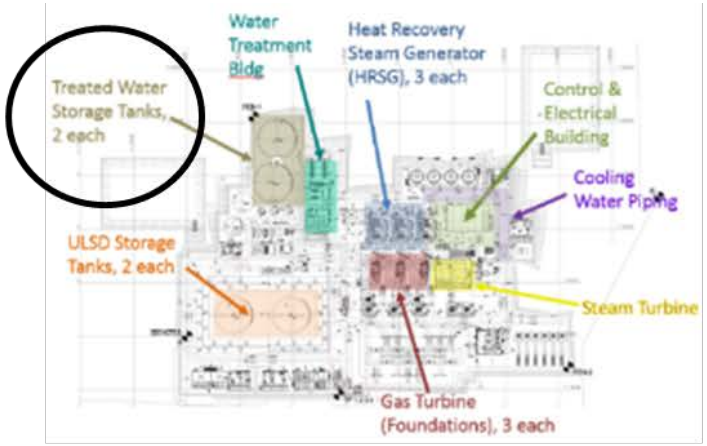


Combustion Turbines 1-3: Electrical terminations are ongoing.



General Manager's Report

Ukudu Power Plant Construction Status



Treated Water Storage Tanks – Restoration of tank walls is in progress.

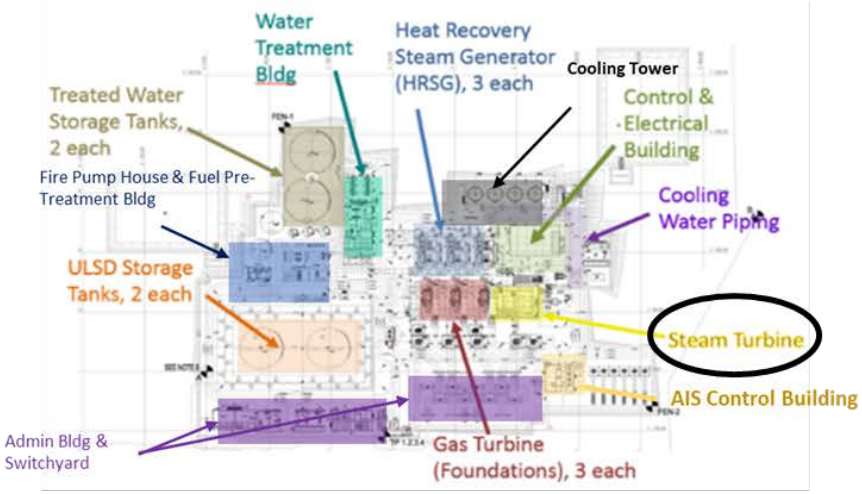


Fire Fighting Tanks – Construction is nearly completed (89%).



General Manager's Report

Ukudu Power Plant Construction Status

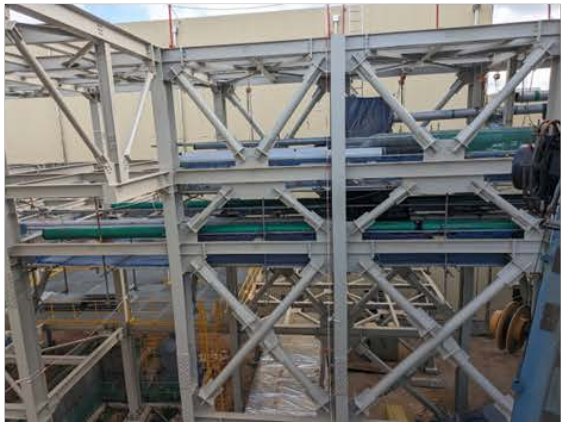


Steam Turbine & Generator – Piping for STG are currently being set in place



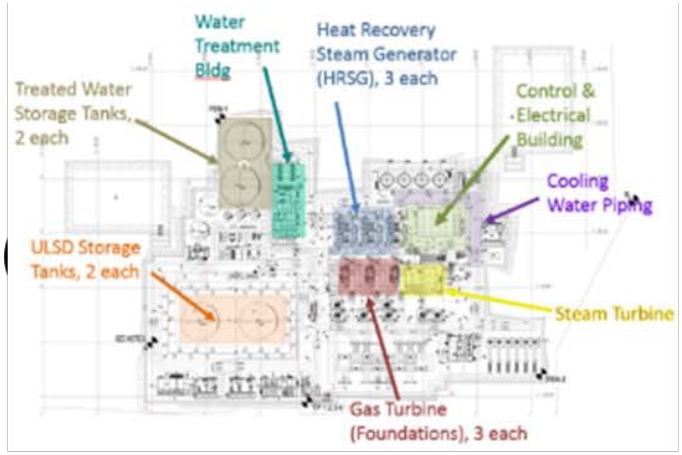
BESS – Foundation work is ongoing





General Manager's Report

Ukudu Power Plant Construction Status



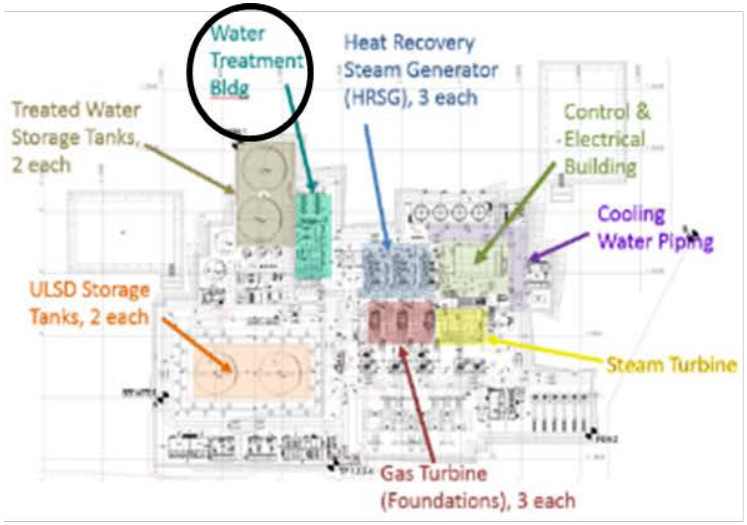
ULSD Storage Tanks – Installation of steel walls is in progress





General Manager's Report

Ukudu Power Plant Construction Status



Water Treatment Building – Equipment installation and setup is ongoing

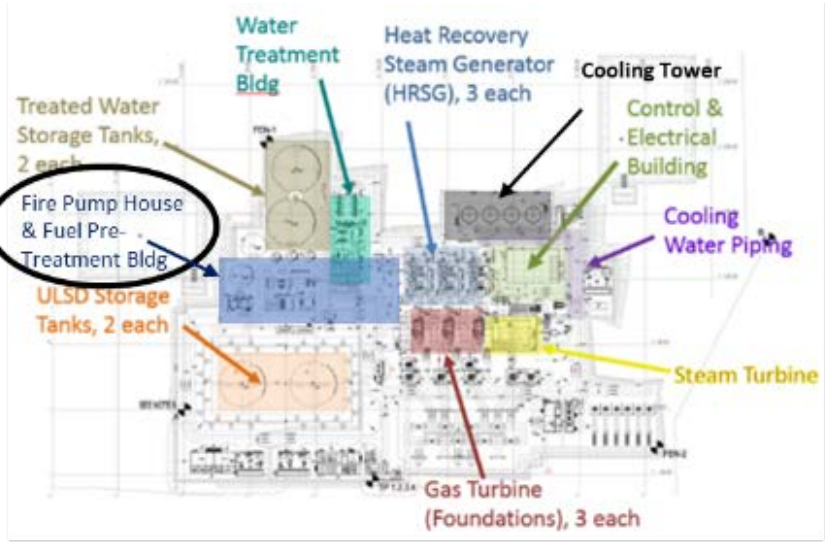


Chemical Dosing Tanks are in place



General Manager's Report

Ukudu Power Plant Construction Status



Fire Pump House– Fire pump house is nearly completed

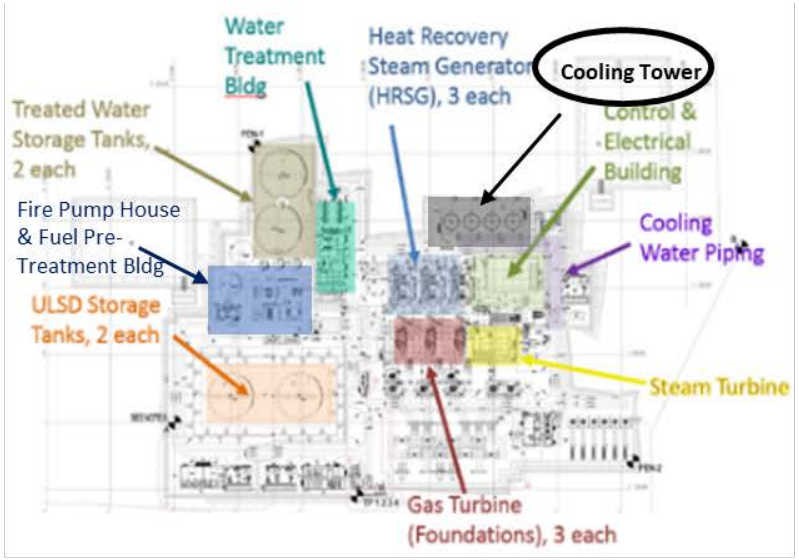


Fire fighting pumps are in place



General Manager's Report

Ukudu Power Plant Construction Status



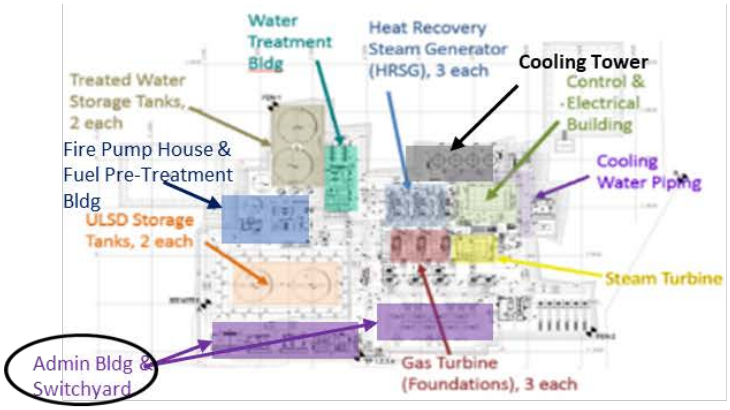
Cooling Tower & Basin – FRP structure assembly is in progress





General Manager's Report

Ukudu Power Plant Construction Status



Switchyard – Cable pulling and termination is ongoing



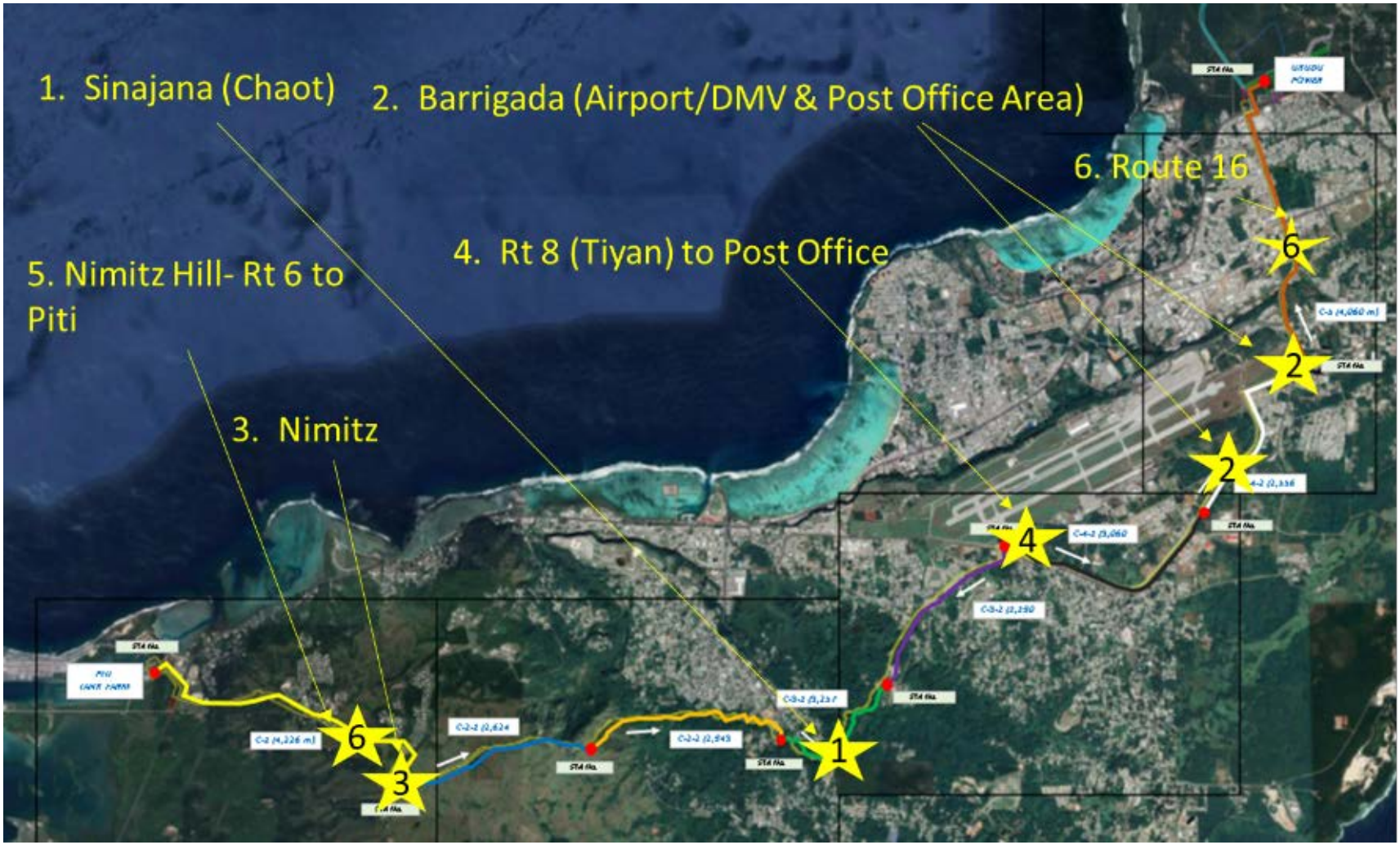
Switchyard Building – Floor is in place. Control room equipment is being set in place





General Manager's Report

Fuel Pipeline Construction Status



General Manager's Report

Fuel Pipeline Construction Status

1. Sinajana/Chaot area

Pipeline installation east of Chaot Bridge is in progress.





2. Barrigada

Excavation is ongoing at the Barrigada Post Office





General Manager's Report

Fuel Pipeline Construction Status

3. Nimitz Hill

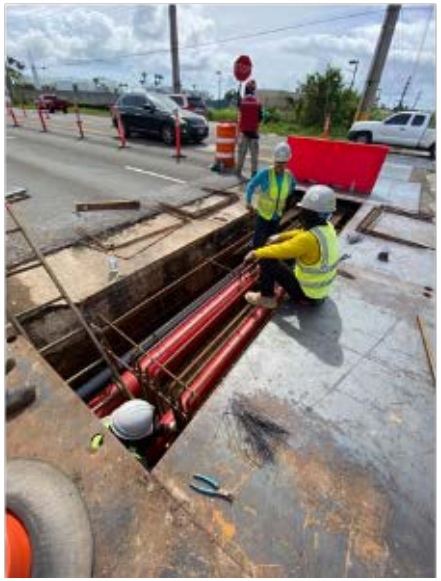
Above ground pipeline installation is in progress.





4. Rt 8 (Tiyan) to Post Office

Route 8 road crossing is nearly completed. Pipeline installation along the shoulder of the road is ongoing





General Manager's Report

Fuel Pipeline Construction Status

5. Nimtiz Hill- Rt 6 to Piti

Sand bedding and flowable fill pouring is in progress.





6. Route 16

Excavation and pipeline installation is ongoing.

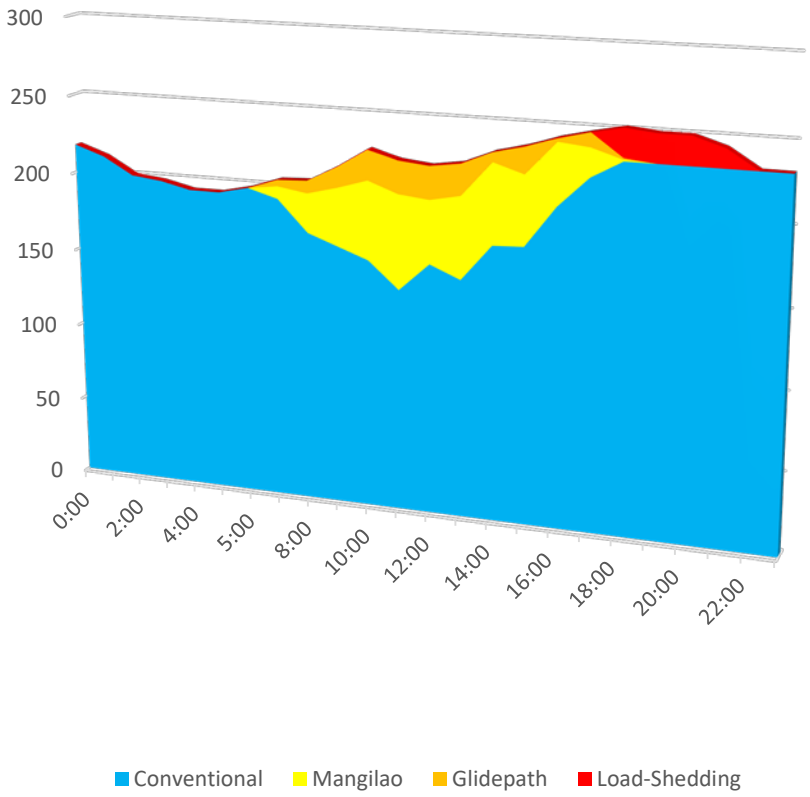




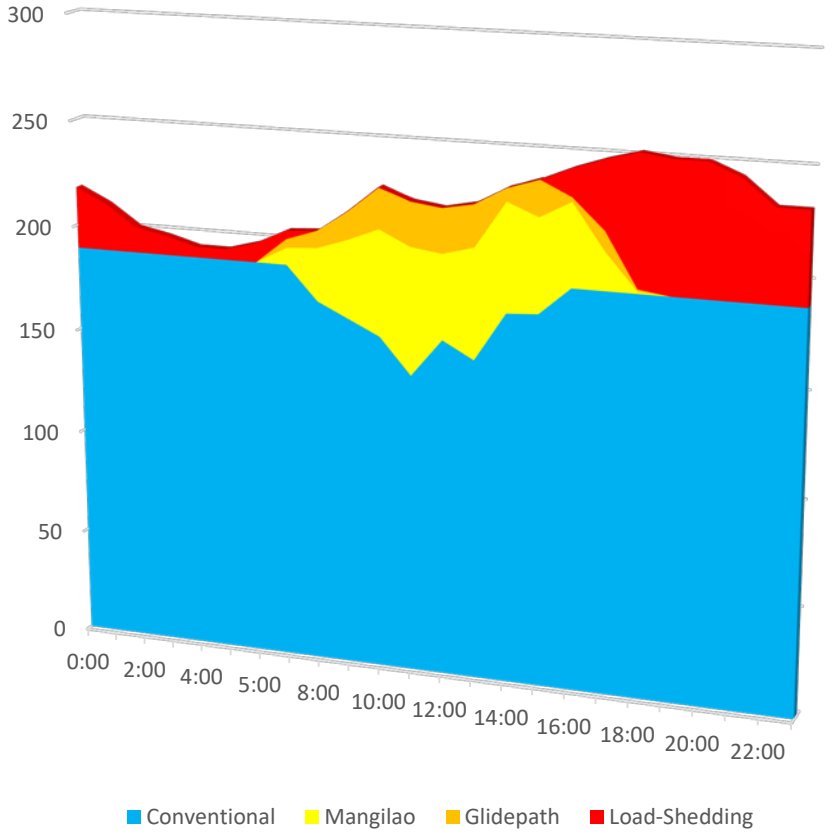
GENERATION CAPACITY UPDATE

Impact of Generation Capacity Shortfall: Down Baseload Scenarios

One Baseload Down
Load Shedding 18 MW
Capacity 232 MW; Demand 250 MW



Two Baseloads Down
Load Shedding 61 MW
Capacity 189 MW; Demand 250 MW



Load Shedding Summary (Sept. 1, 2023 – Jan. 31, 2024)

Month	Feeders Impacted	Feeder Outages	Hours Outaged	Avg. MW /Feeder	Avg. Hrs/Feeder	Unserved kWh	% Energy Unserved	Days LS
Sep-23	48	349	274	2.83	5.7	6,497,316	**4.9%**	20
Oct-23	49	162	114	2.84	2.3	1,185,508	**.86%**	11
Nov-23	51	286	244	2.84	4.8	4,261,898	**3.11%**	9
Dec-23	12	13	7	3.47	0.6	66,018	**.05%**	4
Jan-24	21	25	18	1.90	0.9	44,449	**.03%**	4
Sept 1, 2023 thru Jan 31, 2024:			**657**		**11.9**			**48**

	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Up to Feb 19, 24	Mar-24	Apr-24	May-24
Net kWh Send-out	133,231,195	132,766,903	136,680,507	137,615,616	129,255,577	121,547,053	139,902,831	133,905,681	143,520,734
Avg MW Demand	219	224	233	233	211	214	232	226	240
Highest MW Demand	237	249	245	244	233	223	245	237	248

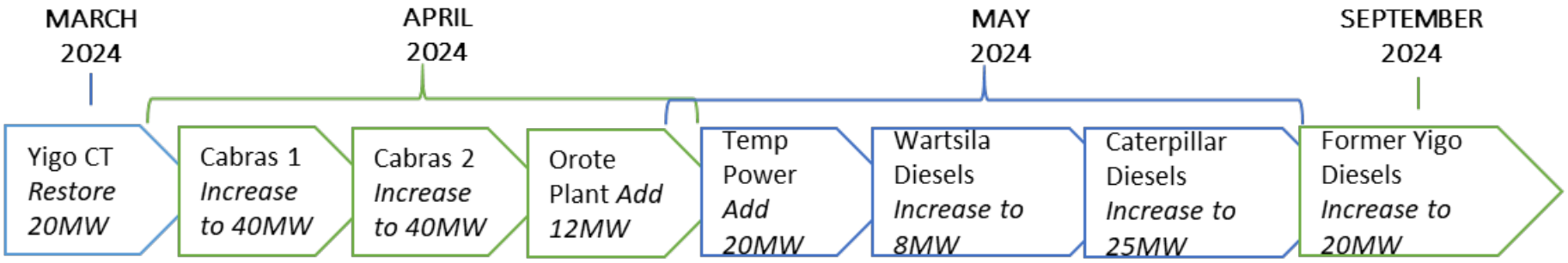
Notes:

1. Published monthly load shedding schedules are based on a scenario with up to 2 baseload plants offline.
2. On Nov 17, 3 plants were offline: (1) Piti 7 had been offline for preventive maintenance. (2) Cabras 2, baseload plant, suffered a boiler tube leak and was taken offline the previous evening for emergency repairs. (3) Piti 8, baseload plant, experienced a cooling water leak that evening (at the onset of peak demand), and was taken offline for emergency repair.
3. Lower demand, especially in Dec 2023, allowed plant personnel to complete repairs and preventative maintenance with little or no load shedding scenarios.
4. The numbers (Feeders Impacted, Feeder Outages, Hours Outaged, Avg. MW/Feeder, Avg. Hrs/Feeder, Unserved kWh) from September, 2023 through January, 2024 have been updated.

Action Plan for Recovery of Existing Capacity and Adding New Capacity

PLANT	ACTION	TARGET DATE
Cabras 2 *Baseload*	Boiler tube repairs. Unit being loaded towards 35-45 MW capacity.	Nov 20, 2023 (completed)
Piti 7 *Combustion Turbine*	Plenum repair (2-day outage) will increase capacity from 22 MW to 30 MW.	Dec 2, 2023 (early completion)
Yigo CT 20 MW *Combustion Turbine*	Typhoon damaged rotor under repair in Texas. GPA seeking assistance from federal partners to expedite return shipping.	Mar 2024
1.1 MW Diesels *Cummins Diesels*	Repair/replace up to 20 MW of capacity. Temporarily site at Tenjo (Emergency Procurement)	Sep 2024
Manenggon/Pulantat Diesels *Wartsila Diesels*	Current plant capacity at 3 MW. Unit control system replacement to increase plant capacity to 8 MW	May 2024
Tenjo, Talo'fo'fo Diesels *Caterpillar Diesels*	Perform significant repairs and/or rehabilitate units to increase plant capacity from by 12 MW to 25 MW	May 2024
Hagåtña & Talo'fo'fo BESS *Existing Utility-Scale ESS*	Utilize existing Battery Energy Storage System (ESS) to shift 40 MW energy during peak time [20MW shift?]	Mar 2024
OTHER CAPACITY		
Orote #2	5.6 MW Navy generator	Ongoing
Interruptible Load (IL) Program	Expand participation. Currently at ~16 MW.	Ongoing
NEW CAPACITY		
Temporary Power 20 MW	Procure 20 MW of temporary power generation under Emergency Procurement. A substituted version of Bill 206 may prevent delays due to protest.	May 2024, if no procurement protests or other delays

Near-Term Capacity Action Plan Timeline



	Capacity Dates:	**11-Jan-24**	**May-2024**	**Sep-2024**	**Sep-2025**
Yigo CT: Restore to 20MW *March*		0	20	20	20
Cabras 1: Increase to 40MW *April*		21	40	40	40
Cabras 2: Increase to 40MW *April*		34	40	40	40
Orote: Add 12MW *April*		0	12	12	12
Temporary Power Services: Add 20MW *May*		0	20	20	20
Wartsila Units: Increase to 8MW *May*		3	8	8	8
Caterpillar Units: Increase to 25MW *May*		12	25	25	25
1.1MW Diesels: Increase to 20MW *Sept*		6	0	20	20
Targeted MW Increase:		**76**	**165**	**185**	**185**

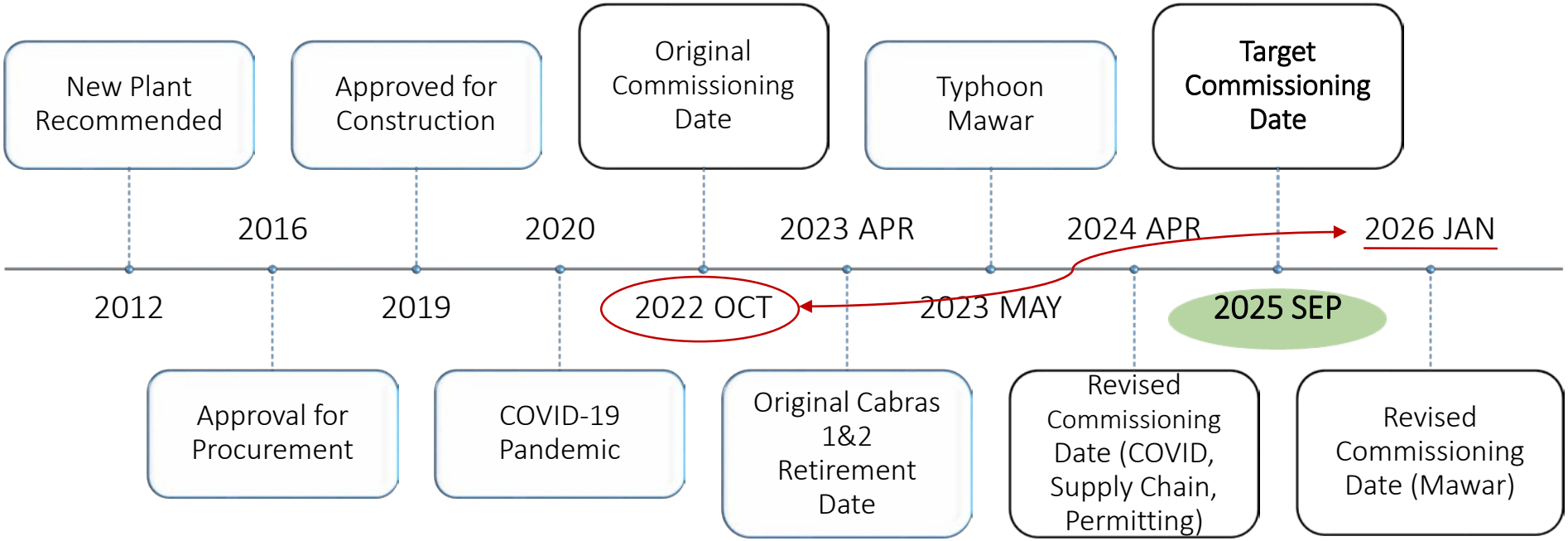
Generation Capacity

BASELOAD UNITS:			Average To Date	(As of 02/26/2024)	April	May	June	September
Unit	**Year Unit Installed**	**NAMEPLATE Rating @ Installation**	**Station Availability (MW)**	**Station Availability (MW)**	**Station Availability (MW)**	**Station Availability (MW)**	**Station Availability (MW)**	**Station Availability (MW)**
Cabras #1	1974	66.0	42.0	0.0	42.0	42.0	42.0	42.0
Cabras #2	1975	66.0	35.0	38.0	38.0	38.0	38.0	38.0
Piti #8	1999	44.2	43.0	43.2	43.2	43.2	43.2	43.2
Piti #9	1999	44.2	43.0	43.2	43.2	43.2	43.2	43.2
Total Baseload Availability:		**220.4**	**163.0**	**124.4**	**166.4**	**166.4**	**166.4**	**166.4**
STANDBY / PEAKING / EMERGENCY UNITS:								
Piti 7 CT	1998	40.0	30.0	13.0	30.0	30.0	30.0	30.0
Macheche C.T.	1993	22.0	18.0	18.0	18.0	18.0	18.0	18.0
Yigo C.T.	1993	22.0	0.0	0.0	20.0	20.0	20.0	20.0
Dededo C.T. #1	1992	23.0	20.0	20.0	20.0	20.0	20.0	20.0
Dededo C.T. #2	1994	22.0	18.0	18.0	18.0	18.0	18.0	18.0
Yigo Diesels	2016	40.0	8.0	7.0	8.0	8.0	8.0	20.0
Tenjo #1		*4.4*	*3.0*	*3.0*	*3.0*	*3.0*	*3.0*	*3.0*
Tenjo #2		*4.4*	*3.0*	*3.0*	*3.0*	*3.0*	*3.0*	*3.0*
Tenjo #3		*4.4*	*3.0*	*3.0*	*3.0*	*3.0*	*3.0*	*3.0*
Tenjo #4		*4.4*	*0.0*	*0.0*	*0.0*	*3.0*	*3.0*	*3.0*
Tenjo #5		*4.4*	*0.0*	*0.0*	*0.0*	*3.0*	*3.0*	*3.0*
Tenjo #6		*4.4*	*0.0*	*0.0*	*0.0*	*3.0*	*3.0*	*3.0*
Talofofo #1		*4.4*	*3.0*	*3.0*	*3.0*	*3.0*	*3.0*	*3.0*
Talofofo #2		*4.4*	*0.0*	*0.0*	*0.0*	*3.0*	*3.0*	*3.0*
Caterpillar Units	1993	35.2	12.0	12.0	12.0	24.0	24.0	24.0
Manenggon #1 (MDI)		*5.3*	*3.0*	*3.0*	*3.0*	*3.0*	*3.0*	*3.0*
Manenggon #2 (MDI)		*5.3*	*0.0*	*0.0*	*0.0*	*3.0*	*3.0*	*3.0*
Wartsila Units	1994	10.6	3.0	3.0	3.0	6.0	6.0	6.0
Total Standby / Peaking / Emergency Availability:		**214.8**	**109.0**	**91.0**	**129.0**	**144.0**	**144.0**	**156.0**
System Totals:		**435.2**	**272.0**	**215.4**	**295.4**	**310.4**	**310.4**	**322.4**

Long-Term Generation Capacity In Progress

New 198 MW Ukudu Combined Cycle Power Plant

- This plant, which is under construction and scheduled for commissioning in 2024, has now been delayed to January 2026 due to damages sustained from Typhoon Mawar. This delay presents additional challenges for GPA to meet the demand over the next two years.
- The new plant will provide improved generation reliability and substantially reduce fuel operating costs once commissioned.
- The plant is a critical part of the USEPA-GPA Consent Decree which also requires the retirement of Cabras units 1&2 within 5 months of the Ukudu plant's commissioning.



Long-Term Generation Capacity In Progress

(continued)

PHASE IV RENEWABLES BID

- Bids from proponents have been received. All five (5) bidders have progressed to next phase.
- This bid requests 180MW+ of renewable energy with energy shifting systems which would shift at least 50% energy production from daytime supply to nighttime supply to meet peak and reduce conventional unit production.
- Commissioning may take about 3 years from CCU & PUC approvals.
- The energy storage systems will help increase GPA generation capacity substantially.

HANWHA 60 MW SOLAR PV PLANT

- GPA had noted completion of this contract which was awarded in 2018 was tenuous due to huge escalation in transmission cost and have been working with contractor to agree on an acceptable solution in order to meet USEPA consent decree requirements.
- Project has received CCU & PUC approvals.

VIRTUAL POWER PLANT BID

- Engineering technical analysis and work on bid specifications are ongoing. Team is analyzing best way to integrate smaller-sized renewable capacity into the grid.
- This bid is considering 20 MW capacity as the initial pilot bid.

Financial Highlights

as of January 31, 2024

Residential Average kWh & LEAC Rate

Avg kWh	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
FY2019	957	938	940	831	761	915	951	1,028	1,048	1,025	940	896
FY2020	942	938	931	867	785	979	1,046	1,140	1,114	1,103	1,081	1,062
FY2021	1,064	1,083	1,062	1,117	939	1,094	1,046	1,186	1,215	1,114	1,032	1,038
FY2022	1,021	1,063	1,030	942	883	1,053	991	1,128	1,050	977	992	972
FY2023	928	979	956	882	818	917	946	805	661	958	960	985
FY2024	997	956	955	877								

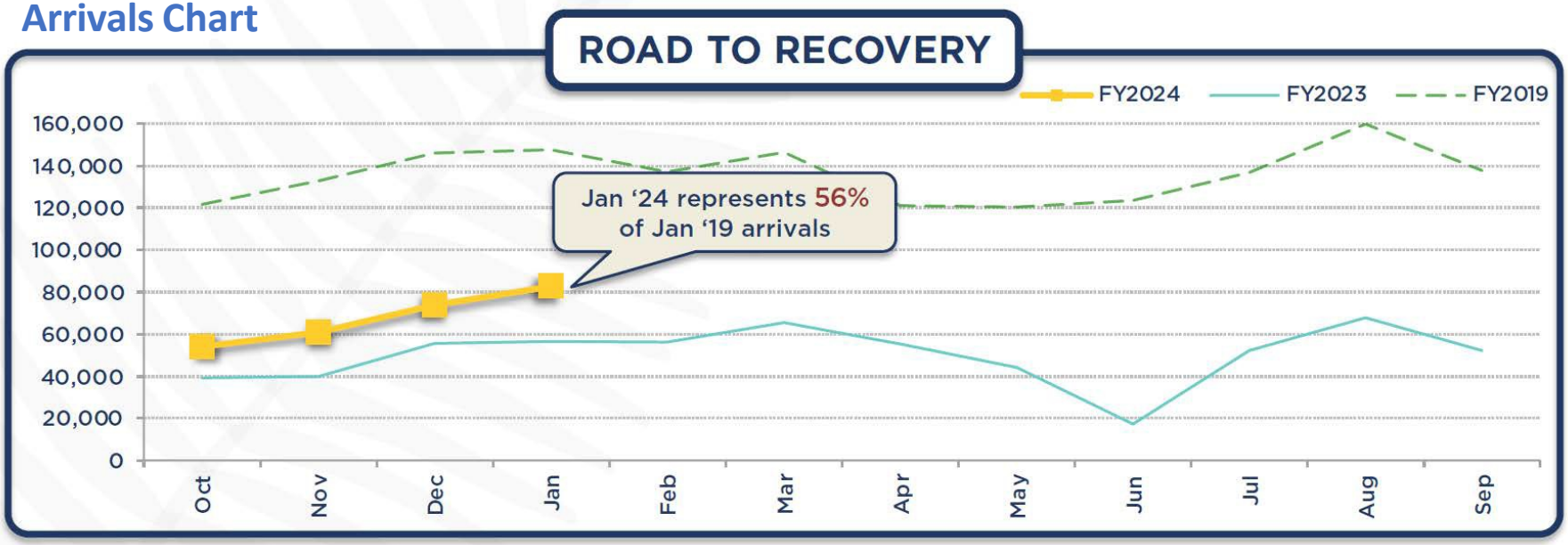
LEAC Rate	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
FY2019	$ 0.1542	$ 0.1542	$ 0.1542	$ 0.1542	$ 0.1542	$ 0.1542	$ 0.1542	$ 0.1542	$ 0.1542	$ 0.1542	$ 0.1542	$ 0.1542
FY2020	$ 0.1542	$ 0.1542	$ 0.1542	$ 0.1542	$ 0.1345	$ 0.1345	$ 0.1100	$ 0.1100	$ 0.0868	$ 0.0868	$ 0.0868	$ 0.0868
FY2021	$ 0.0868	$ 0.0868	$ 0.0868	$ 0.0868	$ 0.1100	$ 0.1100	$ 0.1100	$ 0.1100	$ 0.1100	$ 0.1100	$ 0.1304	$ 0.1304
FY2022	$ 0.1508	$ 0.1508	$ 0.1715	$ 0.1715	$ 0.1808	$ 0.1808	$ 0.2095	$ 0.2095	$ 0.2095	$ 0.2516	$ 0.2516	$ 0.2960
FY2023	$ 0.2960	$ 0.3186	$ 0.3186	$ 0.3186	$ 0.3186	$ 0.3186	$ 0.3186	$ 0.3186	$ 0.2311	$ 0.2311	$ 0.2311	$ 0.2311
FY2024	$ 0.2311	$ 0.2311	$ 0.2311	$ 0.2311								

Hotel kWh & Occupancy Rate

MWh Hotel	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
FY2019	11,009	10,812	10,665	10,372	9,151	9,625	10,743	10,945	10,278	11,670	10,356	10,569
FY2020	10,510	9,983	10,691	10,053	9,831	8,494	7,195	6,983	7,463	7,798	7,678	7,220
FY2021	7,194	7,535	7,754	7,129	6,427	7,014	7,474	7,293	7,669	7,989	8,064	7,712
FY2022	7,119	7,495	7,184	7,055	6,563	7,083	6,988	7,652	7,883	8,097	8,202	7,953
FY2023	7,926	8,048	8,385	8,164	7,669	8,075	7,985	7,300	6,225	8,670	8,708	8,089
FY2024	8,404	8,454	8,521	8,266								

Occupancy	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
FY2019	85.9	85.9	85.9	91.4	91.4	91.4	84.8	84.8	84.8	92.0	92.0	92.0
FY2020	89.9	89.9	89.9	73.7	73.7	73.7	34.7	34.7	34.7	27.1	27.1	27.1
FY2021	38.7	38.7	38.7	51.4	51.4	51.4	41.3	41.3	41.3	52.4	52.4	52.4
FY2022	45.9	45.9	45.9	56.0	56.0	56.0	54.0	54.0	54.0	66.8	66.8	66.8
FY2023	59.7	59.7	59.7	67.4	67.4	67.4	60.0	60.0	60.0	73.4	73.4	73.4
FY2024	62.3	62.3	62.3									

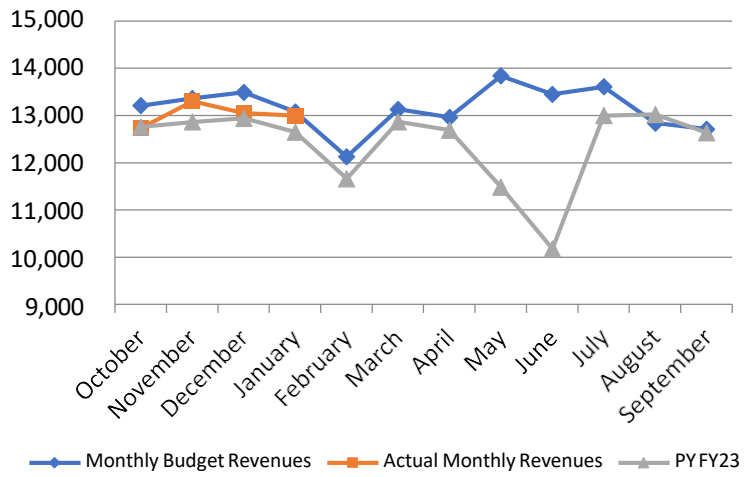
Arrivals Chart



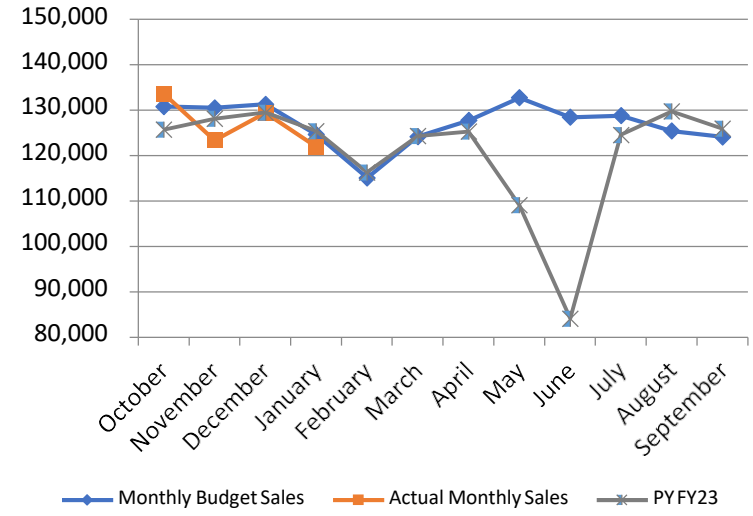
Note: Data from 22 hotels in schedule P. 1 hotel closed its doors on Oct. 2021. Occupancy rate and Road to Recovery is from GVB Visitor Arrival Statistic.

January 2024 Monthly Financial Highlights

Base Rate Revenue (in '000)



MWH Sales (in MWh)



Through January 31, 2024

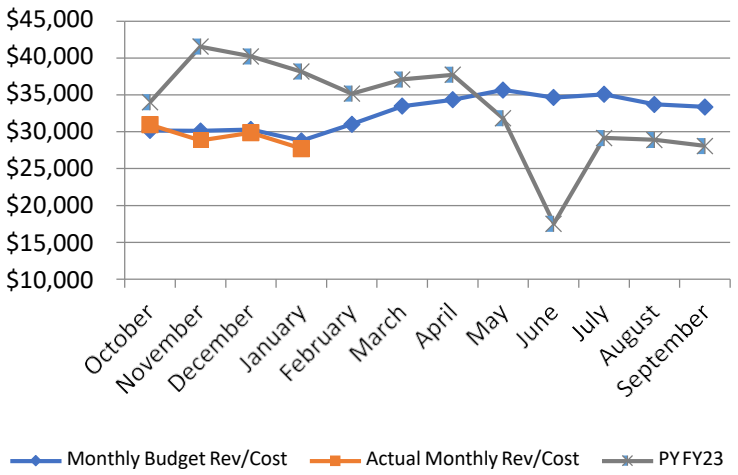
$000	Monthly Budget Revenues	Actual Monthly Revenues	Variance		PY FY23	CY vs PY Variance	
October	$ 13,209	$ 12,734	$ (475)	↓	$ 12,757	$ (22)	↓
November	13,363	13,301	$ (61)	↓	12,861	$ 440	↑
December	13,488	13,053	$ (435)	↓	12,940	$ 113	↑
January	13,078	12,995	$ (83)	↓	12,651	$ 344	↑
February	12,126				11,660		
March	13,131				12,865		
April	12,961				12,691		
May	13,837				11,484		
June	13,449				10,178		
July	13,608				12,997		
August	12,840				13,023		
September	12,710				12,635		
Total	**$ 157,800**	**$ 52,084**	**$ (1,054)**		**$ 148,743**	**$ 874**	

Through January 31, 2024

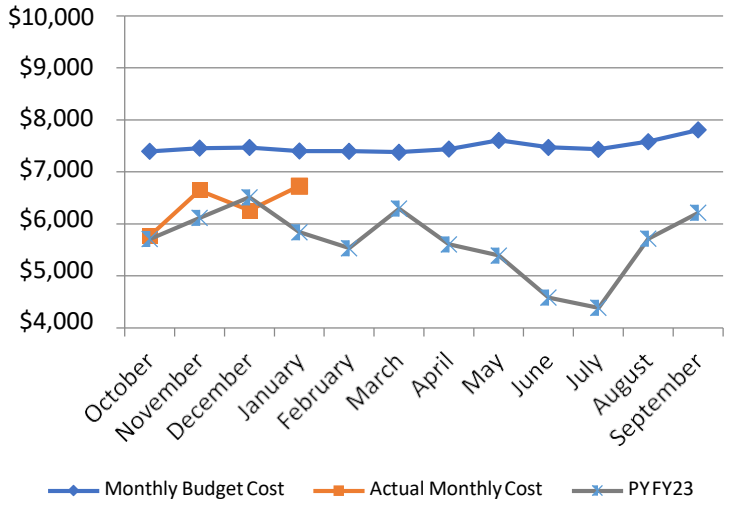
MWH	Monthly Budget Sales	Actual Monthly Sales	Variance		PY FY23	CY vs PY Variance	
October	130,775	133,530	2,754	↑	125,672	7,858	↑
November	130,478	123,349	(7,129)	↓	128,077	(4,728)	↓
December	131,278	129,415	(1,863)	↓	129,439	(24)	↓
January	124,618	121,911	(2,707)	↓	125,368	(3,457)	↓
February	115,079				116,289		
March	124,155				124,254		
April	127,713				125,257		
May	132,727				109,061		
June	128,415				84,097		
July	128,775				124,518		
August	125,406				129,673		
September	124,080				125,895		
Total	**1,523,500**	**508,205**	**(8,945)**		**1,447,602**	**(352)**	

Jan. 2024 Monthly Financial Highlights *(continued)*

Fuel Revenues (in '000)



O&M Costs (in '000)



Through January 31, 2024

$000	Monthly Budget Rev/Cost	Actual Monthly Rev/Cost	Variance		PY FY23	CY vs PY Variance	
October	$ 30,228	$ 30,992	764	↑	$ 34,062	(3,070)	↓
November	30,159	28,862	(1,297)	↓	41,593	(12,731)	↓
December	30,344	29,905	(439)	↓	40,281	(10,376)	↓
January	28,805	27,762	(1,043)	↓	38,205	(10,443)	↓
February	31,071				35,217		
March	33,522				37,143		
April	34,390				37,773		
May	35,710				31,867		
June	34,703				17,560		
July	35,135				29,194		
August	33,760				28,940		
September	33,402				28,103		
Total	**$ 391,228**	**$ 117,520**	**$ (2,015)**		**$ 399,938**	**$ (36,621)**	

Through January 31, 2024

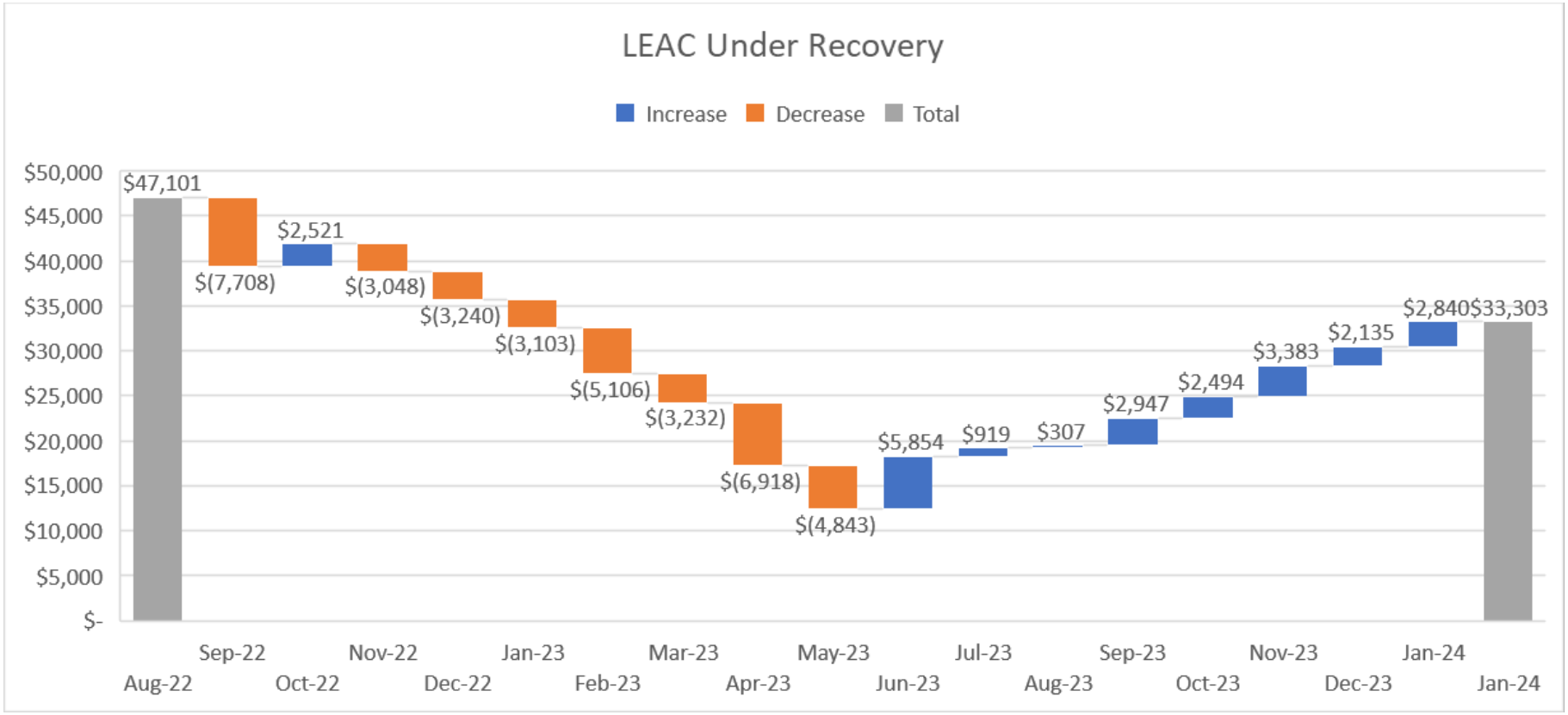
$000	Monthly Budget Cost	Actual Monthly	Variance		PY FY23	CY vs PY Variance	
October	$ 7,400	$ 5,774	$ 1,626	↑	$ 5,712	$ (62)	↓
November	7,462	6,647	814	↑	6,120	(527)	↓
December	7,473	6,262	1,211	↑	6,518	255	↑
January	7,405	6,731	674	↑	5,846	(885)	↓
February	7,401				5,537		
March	7,384				6,298		
April	7,443				5,610		
May	7,611				5,395		
June	7,477				4,585		
July	7,438				4,390		
August	7,588				5,718		
September	7,812				6,218		
Total	**$ 89,893**	**$ 25,415**	**$ 4,325**		**$ 67,946**	**$ (1,219)**	

Jan. 2024 Monthly Financial Highlights *(continued)*

Through September 30, 2023													
	2Q2021	3Q2021	4Q2021	1Q2022	2Q2022	3Q2022	4Q2022	1Q2023	2Q2023	3Q2023	4Q2023	1Q2024	2Q2024
Residential	44,575	45,247	45,229	45,224	45,283	45,261	45,315	45,370	45,417	45,453	44,968	45,642	45,786
Commercial	5,307	5,330	5,336	5,349	5,367	5,368	5,373	5,425	5,473	5,436	5,421	5,447	5,481
Government	1,060	1,049	1,056	1,069	1,077	1,079	1,087	1,088	1,108	1,112	1,106	1,105	1,101
Streetlights	1,132	1,132	1,131	1,160	1,158	1,156	1,163	1,167	1,167	1,165	1,159	1,149	1,145
Navy	1	1	1	1	1	1	1	1	1	1	1	1	1
Total	**52,075**	**52,759**	**52,753**	**52,803**	**52,886**	**52,865**	**52,939**	**53,051**	**53,166**	**53,167**	**52,655**	**53,344**	**53,514**

Debt service coverage (DSC) calculation-indenture	2018	2019	2020	2021	2022	2023	2024
Senior lien coverage	2.53	1.78	1.42	1.54	1.71	1.71	2.04
Debt service coverage (DSC) calculation-IPP as O&M							
Senior lien coverage	1.65	1.46	1.23	1.49	1.71	1.71	2.04

Jan. 2024 Monthly Financial Highlights *(continued)*[52]



Through January 31, 2024				
$000	LEAC Revenue	Fuel Cost	(Over)/Under Recover	Under Recovery Balance
October	$ 30,992	$ 33,486	$ 2,494	$ 24,945
November	$ 28,862	$ 32,245	$ 3,383	$ 28,328
December	$ 29,905	$ 32,039	$ 2,134	$ 30,463
January	$ 27,762	$ 30,602	$ 2,840	$ 33,303

January 2024 Credit Summary

Credit Summary		
Long-Term Senior Debt	**Rating**	**Long-Term Outlook**
Standard & Poor's	BBB	Stable
Moody's Rating	Baa2	Stable
Fitch Rating	BBB	Stable