GPA

Consolidated Commission on Utilities
Regular Meeting
August 29, 2023

ISSUES FOR DECISION

Amendment of the Credit Card Policy for the Guam Waterworks Authority and the Guam Power Authority

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

An amendment to the existing GPWA Credit Card Policy is necessary to ensure appropriate level of internal controls over credit card use and compliance with local laws and regulations. This action is supported by a recent audit of the credit card procedures by the Office of Public Accountability recommending the update of existing credit card policy. Additionally, GPWA management will work with GDOE to implement the *Senator Edward J. Cruz Medical Referral and Education Mileage Program,* in compliance with 5 GCA Chapter 23 Section 23111.

Where is the location?

N/A

How much will it cost?

N/A

When will it be completed?

The updated GPWA Credit Card Policy will be effective upon adoption by the CCU.

What is its funding source?

N/A

GPA RESOLUTION NO. FY2023-26

AUTHORIZING EXPENDITURE FOR THE OUT OF SERVICE INSPECTION AND REFURBISHMENT OF GPA BULK STORAGE FUEL TANK 1934

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

The project involves the internal inspection and refurbishment of the bulk storage fuel tanks and appurtenances. The tanks need to undergo the required internal inspection to comply with regulatory requirements and refurbish as necessary to ensure the structural integrity and safe operations of the tanks. The project also includes upgrading of the facility's auxiliary system to assure uninterrupted supply of fuel for the power plants. The last inspection was conducted in 2007. Inspections are required to be performed every ten (10) years.

Prior to inspection, the tanks need to be drained/emptied and cleaned. Based on the current volume of the oily sludge in Tank 1934. The volume of sludge exceeds what was covered in the Scope of Work. The incremental volume of unpumpable oil and sludge to be recovered, removed and disposed must be completed in order to perform the next sequence of work activities and meet Regulatory Agency's compliance schedule.

Where is the location?

GPA Bulk Storage Tanks Facility at Piti, Guam.

How much will it cost?

The additional work scope's total is $1,263,448.00 requiring approval from CCU.

When will it be completed?

The change order will add an additional 9 weeks to the project schedule.

What is its funding source?

The project will utilize Revenue funds

GPA RESOLUTION NO. FY2023-27

RELATIVE TO RECOGNIZING EMPLOYEES OF THE GUAM POWER AUTHORITY FOR OUTSTANDING WORK PERFORMED DURING POST TYPHOON MAWAR POWER RESTORATION

On May 24, 2023 Typhoon Mawar made landfall on Guam with sustained winds of approximately 150+ mph. According to the Joint Typhoon Warning Center, Typhoon Mawar was equivalent to a Category 4 Atlantic hurricane. The storm was the strongest to strike the island in at least two decades. Typhoon Mawar battered the island with powerful winds and torrential rains, uprooting trees, damaging homes and businesses, and cutting electricity and access to water for most of Guam's residents, causing significant damage to the island infrastructure, including GPA's electrical grid system. The northern sector of the island primarily the villages of Yigo and Dededo suffered significant damages from the destructive and relentless wind and rain of Typhoon Mawar. The northern sector area of the island's power system infrastructure was the most heavily damaged.

Immediately after high winds began to decrease the day after the storm's direct hit on the island, GPA began to mobilize teams to proceed with assessments and repairs, which initiated the process of post-typhoon restoration. GPA crews have noted that it's preventative maintenance (PM), which started prior to the typhoon with trimming trees and branches near power lines, made a significant difference in minimizing damage.

GPA's professional line crews, power plant operators, heavy equipment operators, substation, meter & relay crews, dispatchers, engineers, and support teams have been working around the clock, and up to 16 hours each day for about 50 days to restore service to all customers. Integrated line crews from CNMI CUC, Pohnpei Utilities Corp. (PUC), and Snohomish PUD Washington state, led by GPA teams, have been working diligently since the days after Typhoon Mawar. At any given time, GPA had a fleet of *20 to 30 bucket trucks* deployed island wide. The Snohomish crew worked on the main transmission line while GPA crews, CUC, and PUC, and contracted crews worked on lines in the villages.

GPA and the CCU extends its deepest gratitude for their expertise and sacrifices made to support our efforts. Line work can be very dangerous, and with help from customers, GPA was able to keep everyone safe.

GPA RESOLUTION NO. FY2023-27 (Cont'd)

RELATIVE TO RECOGNIZING EMPLOYEES OF THE GUAM POWER AUTHORITY FOR OUTSTANDING WORK PERFORMED DURING POST TYPHOON MAWAR POWER RESTORATION

In spite of the devastation of Typhoon Mawar and its disruption to the island wide power system, the employees of Guam Power Authority continued to work assiduously and methodically to get every household and business energized, and the entire GPA team was committed to ensuring that every customer was energized as quickly as possible. GPA's priority was to restore energy back into all homes and businesses; and restore the island-wide power system online at full capacity. GPA operations and support teams worked night and day for the people of Guam and we thank the ratepayers for their patience and understanding during those difficult times.

After 50 days since COR4 declared, GPA restored power service to nearly 99% of pre-Typhoon Mawar customers. Although, nearly 99% restoration achieved, crews continued to make necessary repairs in the heavily damaged areas to restore customers without power, and close out emergency work clearance requiring customer-side repair.

It is with great pleasure that we recognize and thank our Guam Power Authority employees from all departments for their hard work, commitment and dedication to serve the ratepayers of Guam. A true demonstration of resiliency and can-do attitudes that is truly unique, GPA employees have faced the challenges of post typhoon restoration head-on and continued to provide outstanding service to the community*. KUDOS to all GPA employees that assisted in one way or another during post-typhoon recovery to restore island power and re-energize our community. Congratulations for a job well done! The Consolidated Commission on Utilities does hereby express their* ***Dångkulu na si Yu'os Ma'åse*** *to recognize and thank GPA Management and staff from the following departments for outstanding work performed during post-typhoon recovery:*

1. Executive Management Team:
   GM, AGMO, AGMA, AGMET, Communications Manager and GPA/GWA Legal Counsel
2. Transmission & Distribution
3. Power System Control Center
4. Generation
5. Engineering
6. Transportation
7. Safety
8. Warehouse
9. Procurement
10. Communications
11. SPORD
12. Information Technology (IT)
13. Human Resources
14. Customer Service
15. Internal Audit
16. Facilities
17. Executive
18. Finance
19. Planning & Regulatory

GPA RESOLUTION NO. FY2023-28

RECOGNITION OF APPA MUTUAL AID UTILITY PARTNER, SNOHOMISH PUBLIC UTILITY DISTRICT (SnoPUD) FOR ASSISTING GPA DURING POST TYPHOON MAWAR POWER RESTORATION

APPA Mutual Aid partner Snohomish PUD from Washington State, answered Guam's call for assistance on *June 8, 2023, just 12 days after Typhoon Mawar*, a Category 4 storm and the first major typhoon to land on Guam in more than two decades, devastated the island with super typhoon winds and flooding damaging Guam's island wide power infrastructure and electrical grid system.

The Snohomish PUD visiting crew of 15 specialized linemen, highly skilled in high voltage transmission repairs, traveled to Guam to support the Guam Power Authority in critical repairs to its high voltage infrastructure and remained on island until the job was complete, which lasted about 35 days. Snohomish PUD provided 2 high-reach bucket trucks that arrived via FEMA-chartered air transportation to support Guam's restoration efforts, allowing the major repairs to the main transmission lines to accelerate. Over 98% of GPA power poles are concrete and require bucket trucks to access pole hardware and lines, and the addition of the Snohomish bucket trucks and those on loan from FEMA and U.S. Navy allowed GPA to deploy about 30 bucket trucks throughout the island 24 hours a day aiding in a more efficient and shortened recovery period.

Snohomish PUD crews played a critical role in repairing Guam's 115kV transmission lines, with more than 161 miles of 34.5 KV transmission lines and over 709 miles of 13.8kV distribution lines which serves over 52,000 customers. Snohomish PUD crews contributed to GPA achieving more than 99% island wide service restoration within 50 days, setting a record for restoration and expectations for improvement after a major typhoon.

GPA is grateful to the Snohomish PUD linemen and crewmen who had a hand in assisting Guam after a major natural disaster.

GPA RESOLUTION NO. FY2023-28 (Cont'd)

RECOGNITION OF APPA MUTUAL AID UTILITY PARTNER, SNOHOMISH PUD FOR ASSISTING GPA DURING POST TYPHOON MAWAR POWER RESTORATION

*The Consolidated Commission on Utilities does hereby recognize and express their **Dångkulu na si Yu'os Ma'åse** to Snohomish County Executive Dave Somers, along with CEO and General Manager of Snohomish PUD, John Haarlow, for their contributions to aiding Guam in post-Typhoon Mawar restoration efforts, along with the following crew members that worked hand in-hand with GPA's T&D linemen and support crew:*

• James "Greg" Ruiz	General Foreman
• Kevin Baggett	Line Foreman
• Scott Packebush	Line Foreman
• Jordan Anderson	Lineman
• Kegan Friddle	Lineman
• Matthew Kimball	Lineman
• Jonah Longenecker	Lineman
• Drew Partington	Lineman
• Caleb Weigand	Lineman
• Gary Bohannon	Equipment Operator
• Brenton Bodewig	Equipment Operator
• Michael St. Clair	Journeyman Mechanic Utility-8
• Jacob Lindell	Sr. Outside Service Mechanic-9
• Austin Almquist	Lineman Apprentice-5
• Sean Lawson	Lineman Apprentice-5

GPA RESOLUTION NO. FY2023-29

RECOGNITION OF MUTUAL AID UTILITY PARTNER, COMMONWEALTH OF THE NORTHERN MARIANAS ISLANDS (CNMI), COMMONWEALTH UTILITIES CORPORATION (CUC) FOR ASSISTING GPA DURING POST TYPHOON MAWAR POWER RESTORATION

Mutual Aid Partner Commonwealth Utilities Corporation (CUC) in the Commonwealth of the Northern Mariana Islands (CNMI), answered Guam's call for assistance on **June 4, 2023, only days** after Typhoon Mawar, a Category 4 storm and the first major typhoon to land on Guam in more than two decades, devastated the island with super typhoon winds and flooding that damaged Guam's island wide power infrastructure and electrical grid system. The CUC's visiting crew of 12 linemen and grounds men traveled to Guam to support the Guam Power Authority in critical repairs to Guam's Islandwide Power System and remained on island until the job was complete, which lasted almost two months. The CUC and GPA personnel have worked together in the past during the restoration of Saipan's power system after Super Typhoon Yutu in 2018 that devastated the CNMI.

Along with mutual aid utility partners such as the Snohomish PUD Washington and the Pohnpei Utilities Corporation (PUC), a total of thirty-six (36) off-island transmission and distribution personnel arrived on Guam in the first weeks of June to help assist with the post-typhoon restoration efforts. The CUC crew worked diligently to help reconnect power lines and weathervanes and replace power poles damaged by Typhoon Mawar to reconnect homes and businesses in the villages. The CUC crew worked seamlessly to support Guam's restoration efforts islandwide, which allowed GPA to deploy integrated crews to each village to repair essential power lines that distributed power into the villages.

CUC crew contributed to GPA achieving more than 99% island wide service restoration within 50 days, setting a record for restoration and expectations for improvement after a major typhoon.

GPA is grateful to the CUC's leadership and crew, who had a hand in helping Guam recover a major natural disaster.

GPA RESOLUTION NO. FY2023-29 (cont'd)

RECOGNITION OF MUTUAL AID UTILITY PARTNER, CNMI COMMONWEALTH UTILITIES CORPORATION (CUC) FOR ASSISTING GPA DURING POST TYPHOON MAWAR POWER RESTORATION

*The Consolidated Commission on Utilities does hereby recognize and express their **Dångkulu na si Yu'os Ma'åse** to Governor Arnold Palacios of the CNMI, along with Acting Executive Director of the Commonwealth Utilities Corporation (CUC), Betty G. Terlaje, for their contributions to aiding Guam in post-Typhoon Mawar restoration efforts, along with the following crew members that worked hand in-hand with GPA's T&D linemen:*

• Michael I. Kukkun	Lineperson/Foreman
• Marty N. Taisacan	Lineperson/Foreman
• Patrick M. Togawa	Lineperson
• Raymond B. Quitano	Lineperson
• Jesse John T. Santos	Lineperson
• Eddie Joe P. Guzman	Lineperson
• Jimmy K. Manalo	Lineperson
• Collin A. Duenas	Lineperson
• Leo Joseph Darry	Lineperson
• Gerald Dexter Manglona	Lineperson
• John Gary Serrano	Groundsperson
• Jay Peter C. Rideb	Groundsperson
• Luis Pedro Arriola	Trades Technician

GPA RESOLUTION NO. FY2023-30

RECOGNITION OF MUTUAL AID UTILITY PARTNER, POHNPEI UTILITIES CORPORATION (PUC) FOR ASSISTING GPA DURING POST TYPHOON MAWAR POWER RESTORATION

Mutual Aid partner Pohnpei Utilities Corporation (PUC), answered Guam's call for assistance on June 10, 2023, two weeks after Typhoon Mawar, a Category 4 storm and the first major typhoon to land on Guam in more than two decades, devastated the island with super typhoon winds and flooding damaging Guam's island wide power infrastructure and electrical grid system.

The PUC's visiting crew of seven linemen and one deputy Chief of Power Distribution traveled to Guam to support the Guam Power Authority's post-typhoon recovery efforts to make critical repairs and restore Guam's Islandwide Power System. PUC assisted GPA crews and remained on island for about one month. The PUC brought a crew of seven linemen and one deputy Chief of Power Distribution to assist and work alongside GPA's T&D linemen and visiting crews from the Commonwealth Utility Corporation (CUC) in the Commonwealth of the Northern Mariana Islands (CNMI) to repair the island's power infrastructure.

The PUC worked diligently to help reconnect power lines and weathervanes and replace power poles damaged by Typhoon Mawar to reconnect homes and businesses in the villages. The PUC worked seamlessly to support Guam's restoration efforts islandwide, which allowed GPA to deploy integrated crews to each village to repair essential power lines that distributed power into the villages. The addition of the PUC crew allowed GPA to deploy skilled crews in 30 bucket trucks throughout the island 24 hours a day aiding in a more efficient and shortened recovery period.

PUC crews contributed to GPA achieving more than 99% island wide service restoration within 50 days, setting a record for restoration and expectations for improvement after a major typhoon.

GPA is grateful to the PUC linemen who had a hand in assisting Guam after a major natural disaster.

GPA RESOLUTION NO. FY2023-30 (cont'd)

RECOGNITION OF MUTUAL AID UTILITY PARTNER, POHNPEI UTILITIES CORPORATION (PUC) FOR ASSISTING GPA DURING POST TYPHOON MAWAR POWER RESTORATION

The Consolidated Commission on Utilities does hereby recognize and express their ***Dångkulu na si Yu'os Ma'åse*** *to Governor Reed B. Oliver of the State of Pohnpei, along with CEO and General Manager of the Pohnpei Utilities Corporation (PUC), Nixon Anson, for their contributions to aiding Guam in post-Typhoon Mawar restoration efforts, along with the following crew members that worked hand in-hand with GPA's T&D linemen:*

- Samuel Welper — Supervisor Lineman (Team Leader 1)
- Kitson Kapiriel — Lineman
- Burt Pelep — Lineman
- William Route — Lineman
- Inos Wichep — Deputy Chief of Power Distribution (Team Leader 2)
- Mike Hairens — Lineman
- Kevin Artui — Lineman
- Clinton Obispo — Lineman

GPA RESOLUTION NO. FY2023-31

RECOGNITION OF HYATT REGENCY GUAM FOR PROVIDING ASSISTANCE TO GPA AND ITS UTILITY PARTNERS DURING POST TYPHOON MAWAR POWER RESTORATION

The Hyatt Regency Guam, a P.H.R. Ken Micronesia property, answered GPA's call for assistance for accommodations days after Typhoon Mawar, a Category 4 storm and the first major typhoon to land on Guam in more than two decades, devastated the island with super typhoon winds, causing widespread flooding and damages to all parts of the island. The Guam Power Authority requested assistance from Mutual Aid Utility partners from the Commonwealth of the Northern Mariana Island, Pohnpei, and Snohomish PUD in Washington State to travel to Guam to support restoration efforts for Guam's island wide power infrastructure and electrical grid system. The Hyatt Regency Guam committed to supporting GPA and its recovery plan by prioritizing and reserving accommodations, ensuring laundry services and designated parking stalls were available for visiting crews, ensuring that they would have comfortable accommodations while they worked tirelessly to support GPA's local restoration and recovery efforts.

The Hyatt Regency Guam helped to take care of visiting crews until their job was complete on island, which lasted nearly two months. The Hyatt Regency Guam played an important role in supporting Guam's restoration efforts by managing accommodation details so GPA and the crews can focus on their critical work at hand, sometimes for 12 to 16 hours shifts to repair essential transmission and distribution power lines that distributed power into substations and the villages.
The Hyatt Regency Guam supported visiting crews who worked in rotating shifts 24 hours a day, aiding in a more efficient and shortened recovery period. The collective effort of all crews significantly contributed to the restoration of Guam's Island Wide Power System which serves more than 52,000 Guam customers within 50 days setting a record for restoration and expectations for improvement after a major typhoon.

GPA is grateful to the Hyatt Regency Guam's ownership, leadership, management, and staff, who had a hand in helping Guam recover after a major natural disaster. The Consolidated Commission on Utilities does hereby recognize and express their **Dångkulu na si Yu'os Ma'åse** to the Hyatt Regency Guam General Manager, Mrs. Sophia Chu and the management and staff for providing outstanding service by prioritizing and reserving accommodations for GPA's Mutual Aid Utility Partners.

GM REPORT
August 2023

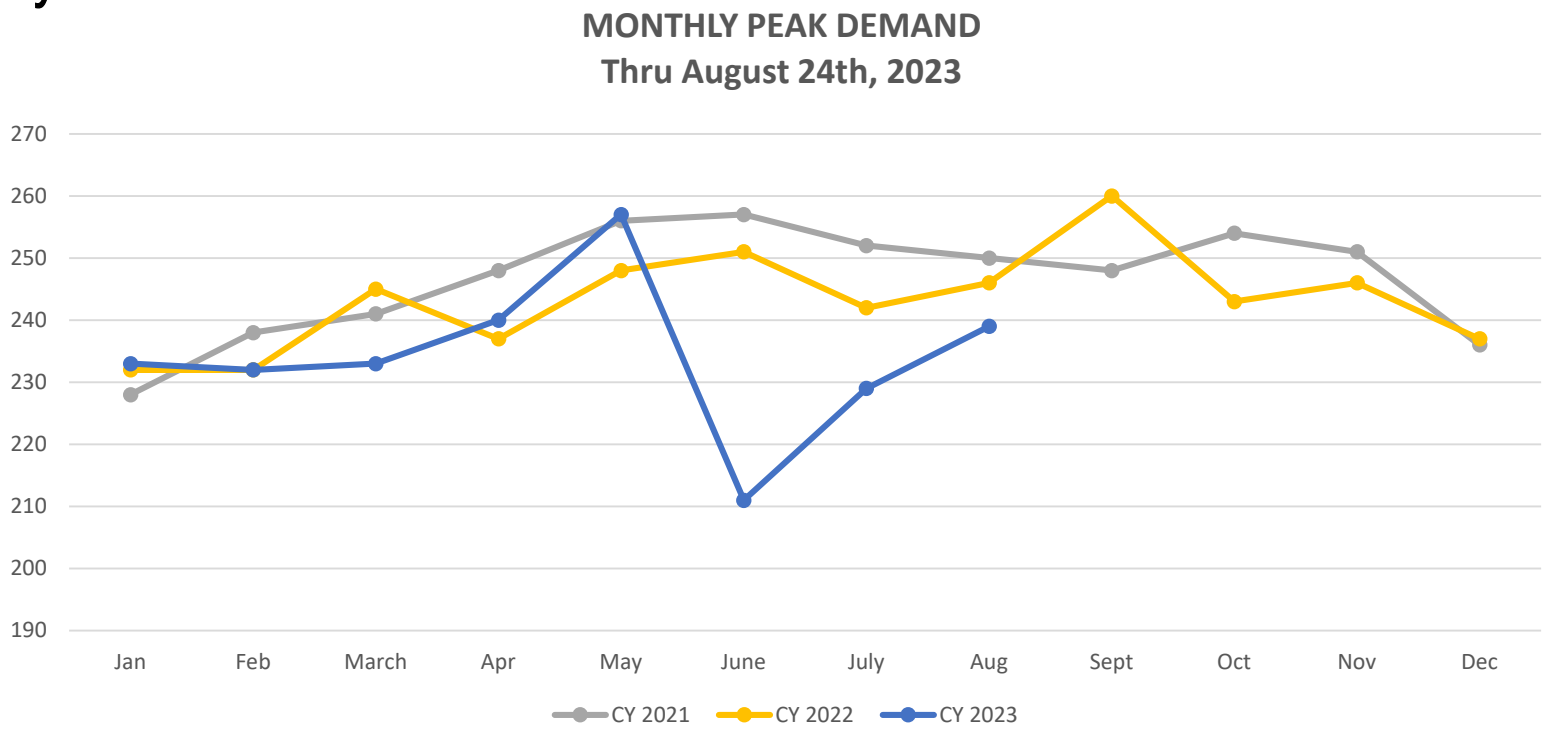
JOHN M. BENAVENTE, P.E.
General Manager
GUAM POWER AUTHORITY

Projected Generation Status

1. Reserve Margin Forecast for September 2023:

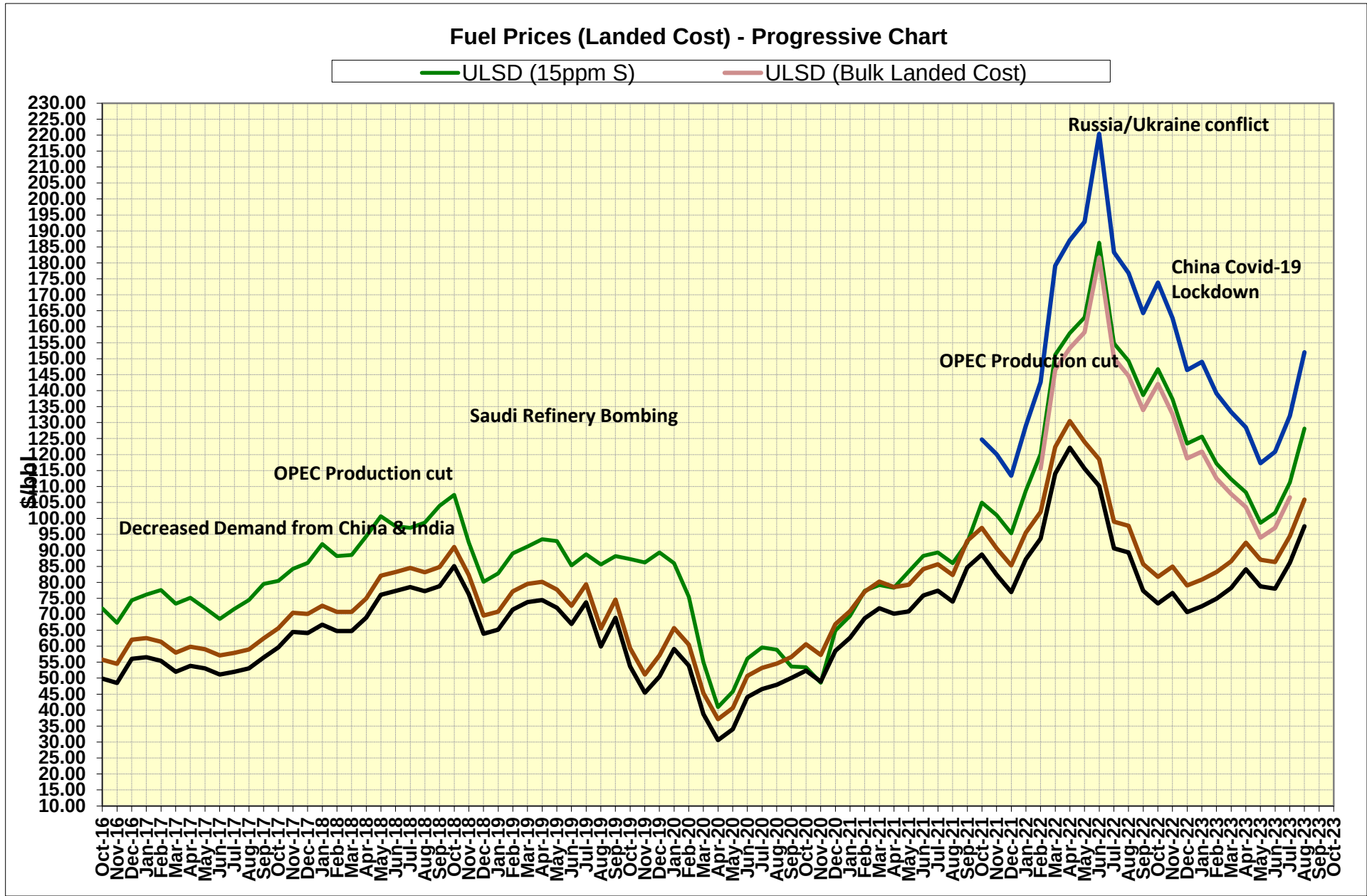
ASSUMES ALL BASE LOAD UNITS OPERATING:	
PROJECTED AVAILABLE CAPACITY	301 MW
PROJECTED DEMAND	250 MW
PROJECTED RESERVE MARGIN	51 MW

2. System Peak Demand:



GPA Fuel Landed Cost (Per Barrel) Monday, August 7, 2023

3. 0.2% ULSRFO 151.99; ULSD Bulk 123.51



General Manager's Report

4. PUC Update:

GPA Docket – Thursday, August 31, 2023 Upcoming Meeting

- GPA Docket 23-09, Petition Requesting Approval to Adjust the Power Pole Attachment Rate
- GPA Docket 23-15, Petition for Approval to Increase the Amount of Award for GPA's Physical Security Proof of Concept
- GPA Docket 23-19, Petition to Approve the Extension of Cabras 1 & 2 Power Plant Performance Management Contract
- GPA Docket 23-20, Petition to Procure a Hot Section Exchange & Generation Repair for Yigo CT
- GPA Docket 23-21, Petition to Approve the Purchases of Bucket Trucks

Pending Dockets:

GPA Docket 23-17, Petition to Approve the EPCM, Phase I, Liquefied Natural Gas (LNG) Pre-Development Study, Scope, and Costs

5. Customer Assistance :

Prugråman Ayuda Para I Taotao-ta Energy Credit Extension (Public Law 37-16)

- July 2023: $100 credit applied to 50,630 accounts on July 27, totaling $5,226,500

Guam Homeowner Assistance Fund Program (HAF)

- $76,215.87 was applied to qualified ratepayer accounts in July 2023 through August 21, 2023. [Batches 66-69]

Emergency Rental Assistance Program (ERA)

- $193,973.77 was applied to qualified ratepayer accounts in July 2023 through August 21, 2023. [Batches 251-257]

6. DSM Online Report – July 2023

OVERALL COUNTS

Month	ALL			COMMERCIAL			RESIDENTIAL		
	Applications	Equipment	Rebates	Applications	Equipment	Rebates	Applications	Equipment	Rebates
Aug-22	217	315	$ 61,375				217	315	$ 61,375
Sep-22	479	668	$ 134,700	7	12	$ 1,950	472	656	$ 132,750
Oct-22	474	694	$ 139,825	4	9	$ 1,450	470	685	$ 138,375
Nov-22	514	707	$ 140,150	10	14	$ 1,500	504	693	$ 138,650
Dec-22	480	656	$ 132,175	5	5	$ 950	475	651	$ 131,225
Jan-23	398	531	$ 106,175	1	1	$ 150	397	530	$ 106,025
Feb-23	385	565	$ 110,525	7	9	$ 1,400	378	556	$ 109,125
Mar-23	487	720	$ 140,500	16	32	$ 4,450	471	688	$ 136,050
Apr-23	379	528	$ 106,150	3	4	$ 750	376	524	$ 105,400
May-23	398	582	$ 121,100	4	7	$ 1,600	394	575	$ 119,500
Jun-23	404	538	$ 111,250	5	8	$ 1,700	399	530	$ 109,550
Jul-23	625	820	$ 169,425	3	3	$ 1,400	622	817	$ 168,025
TOTAL	5,240	7,324	$ 1,473,350	65	104	$ 17,300	5,175	7,220	$ 1,456,050

CURRENT AVERAGE REBATE PER UNIT

Month	ALL		COMMERCIAL		RESIDENTIAL	
	Applications	Equipment	Applications	Equipment	Applications	Equipment
As of Jul-23	$ 281	$ 201	$ 266	$ 166	$ 281	$ 202

** DSM Online went live on 8/17/22. Figures for August 2022 are from 8/17 to 8/31 only.*

** Large Commercial, Government, Prepaid, and Inactive accounts are still tracked and processed manually.*

** Paper applications are NOT INCLUDED with these counts.*

Demand Side Management (DSM) – (Cont'd)

6. DSM Online Report – JULY 2023

COUNTS PER PROGRAM - RESIDENTIAL

MONTHS	ALL			RESIDENTIAL											
				Split A/C			Central A/C			Window A/C			Washer/Dryer		
	Applications	Equipment	Rebates	Applications	Equipment	Rebates	Applications	Equipment	Rebates	Applications	Equipment	Rebates	Applications	Equipment	Rebates
Aug-22	217	315	$ 61,375	192	287	$ 57,375				15	16	$ 1,600	10	12	$ 2,400
Sep-22	472	656	$ 132,750	404	577	$ 120,350				29	34	$ 3,400	39	45	$ 9,000
Oct-22	470	685	$ 138,375	413	619	$ 127,075				19	19	$ 1,900	38	47	$ 9,400
Nov-22	504	693	$ 138,650	432	608	$ 123,450				16	18	$ 1,800	56	67	$ 13,400
Dec-22	475	651	$ 131,225	407	570	$ 117,325	1	1	$ 500	21	26	$ 2,600	46	54	$ 10,800
Jan-23	397	530	$ 106,025	351	477	$ 96,625				10	12	$ 1,200	36	41	$ 8,200
Feb-23	378	556	$ 109,125	330	495	$ 98,625	1	1	$ 500	12	20	$ 2,000	35	40	$ 8,000
Mar-23	471	688	$ 136,050	406	603	$ 122,250				25	32	$ 3,200	40	53	$ 10,600
Apr-23	376	524	$ 105,400	329	469	$ 95,500	1	1	$ 500	11	14	$ 1,400	35	40	$ 8,000
May-23	394	575	$ 119,500	356	533	$ 112,000				8	9	$ 900	30	33	$ 6,600
Jun-23	399	530	$ 109,550	337	462	$ 98,050				19	21	$ 2,100	43	47	$ 9,400
Jul-23	622	817	$ 168,025	543	723	$ 152,225				27	30	$ 3,000	52	64	$ 12,800
TOTAL	5,175	7,220	$ 1,456,050	4,500	6,423	$ 1,320,850	3	3	$ 1,500	212	251	$ 25,100	460	543	$ 108,600

** DSM Online went live on 8/17/22. August 2022 figures are from 8/17 – 8/31 only.*

** Large Commercial, Government, Prepaid, and Inactive accounts are still tracked and processed manually.*

** Paper applications are NOT INCLUDED with these counts.*

Demand Side Management (DSM) – (Cont'd)

6. DSM Online Report – JULY 2023

COUNTS PER PROGRAM - COMMERCIAL

MONTHS	ALL			COMMERCIAL											
				Split A/C			Central A/C			VRF A/C			Rooftop A/C		
	Applications	Equipment	Rebates	Applications	Equipment	Rebates	Applications	Equipment	Rebates	Applications	Equipment	Rebates	Applications	Equipment	Rebates
Aug-22	-	-	$ -												
Sep-22	7	12	$ 1,950	7	12	$ 1,950									
Oct-22	4	9	$ 1,450	4	9	$ 1,450									
Nov-22	10	14	$ 1,500	10	14	$ 1,500									
Dec-22	5	5	$ 950	5	5	$ 950									
Jan-23	1	1	$ 150	1	1	$ 150									
Feb-23	7	9	$ 1,400	7	9	$ 1,400									
Mar-23	16	32	$ 4,450	16	32	$ 4,450									
Apr-23	3	4	$ 750	3	4	$ 750									
May-23	4	7	$ 1,600	4	7	$ 1,600									
Jun-23	5	8	$ 1,700	4	7	$ 700	1	1	$ 1,000						
Jul-23	3	3	$ 1,400	2	2	$ 250							1	1	$ 1,150
TOTAL	65	104	$ 17,300	63	102	$ 15,150	1	1	$ 1,000	-	-	$ -	1	1	$ 1,150

** DSM Online went live on 8/17/22. August 2022 figures are from 8/17 – 8/31 only.*

** Large Commercial, Government, Prepaid, and Inactive accounts are still tracked and processed manually.*

** Paper applications are NOT INCLUDED with these counts.*

7. 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.
- GPA submitted response to GUP's Request for Compensation and Scheduling Accommodation on Jul. 31, 2023

Critical Path & Risk Items

Delays on Permit Approvals

- Construction Permits
- NPDES Permit

Construction Mitigation

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

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

Ongoing / Pending:

- Archaeological & Cultural Requirements:
  - ✓ 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.
- 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 14.5 month commercial operation date extension request
    - ✓ GPA and GUP shall agree on a new commercial operation date by the end of September 2023

7. New Power Plant Update: GUP Activities (contractor)

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.
- Siemens TA finished assessment of damaged switchgear. GUP awaiting final decision for repair/replacement
- Completed demolition of ULSD Tank B

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.

Ongoing / Pending:

Construction

- Power Plant – All 6 phases of plant building construction permits were issued by Oct. 2022.
- Pipeline –
  - Excavation and pipeline installation continues at Nimitz and within Tiyan along Route 8 towards airport.
  - Initiated additional work area along Cesario Street south of Sgt. Roy T. Damien.
  - Resumed construction of the new pump house at the GPA bulk storage facility (Piti)
  - DUP is responding to DPW comments for Route 4 encroachment permit
- Delivered proposal for Visitors Center to GPA for review.
- 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. Resumed construction activities within Harmon Substation

7. New Power Plant Update: GUP Activities (contractor, *continued*)

Ongoing / Pending: *(continued)*

Procurement
- initiating other equipment procurement

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.

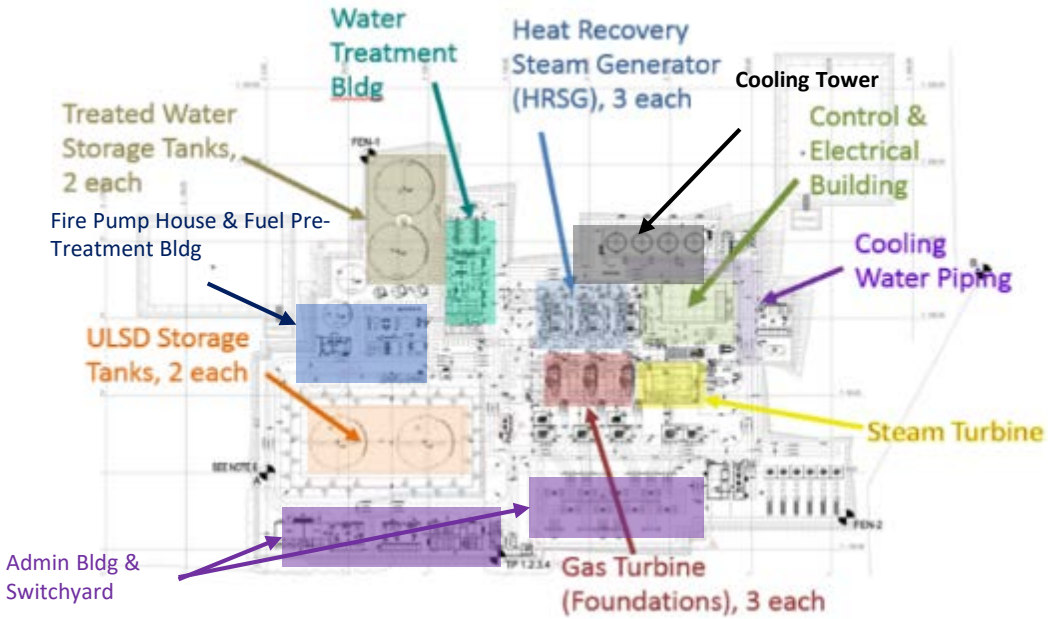
Reserve Facility
- Provided draft ECA amendment to GPA

Schedule Update
- Plant and fuel pipeline continue to progress with concerns on potential schedule impact due to pipeline progress, heavy haul transport delay, and damage from Typhoon Mawar. GUP provided updated schedule to GPA's for review.

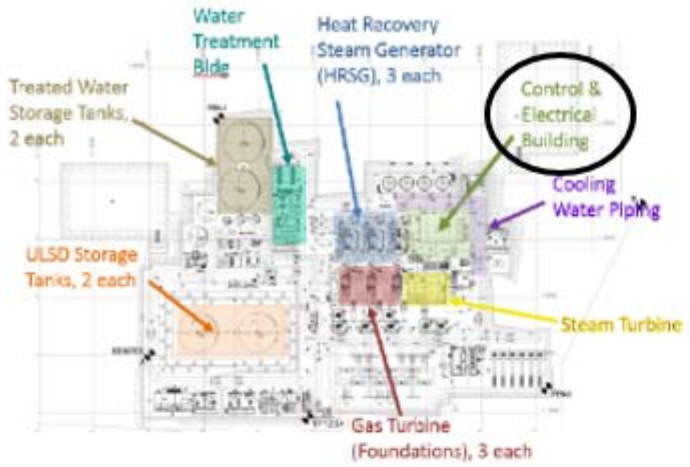
Transportation Logistics
- EPC continues to work with DPW on transport plan from Port to Ukudu site.
- Bridge analysis dictating required transport equipment.
- Temporary bridge delivered as required by DPW as backup for any bridge damage due to limited alternate routes in some areas.
- Transportation 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.
- Median restoration currently ongoing.

Ukudu Power Plant Construction Status

Typhoon Mawar restoration is ongoing. Demolition of the damaged tanks is underway. Additionally, the HVAC ducts on the third floor of the Control and Electrical Building have been repaired. Some minor condensation was observed within the medium voltage and 480 electrical switchgear. The STG building experienced slight misalignment in a few columns and has been realigned.



Ukudu Power Plant Construction Status



Control & Electrical Building – Exterior side nearly complete



Sticker indicating water inside medium voltage protective relays



2nd floor- Switchgear installation ongoing

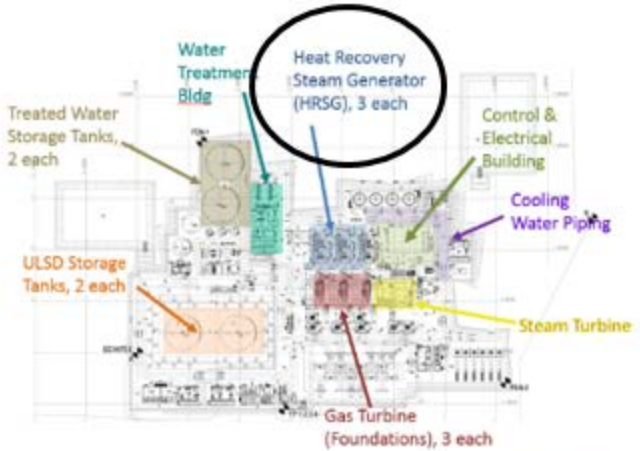


3rd floor – Cable tray installation ongoing



Ukudu Power Plant Construction Status

Heat Recovery Steam Generator (HRSG)





HRSG 1-3: Platform installation ongoing

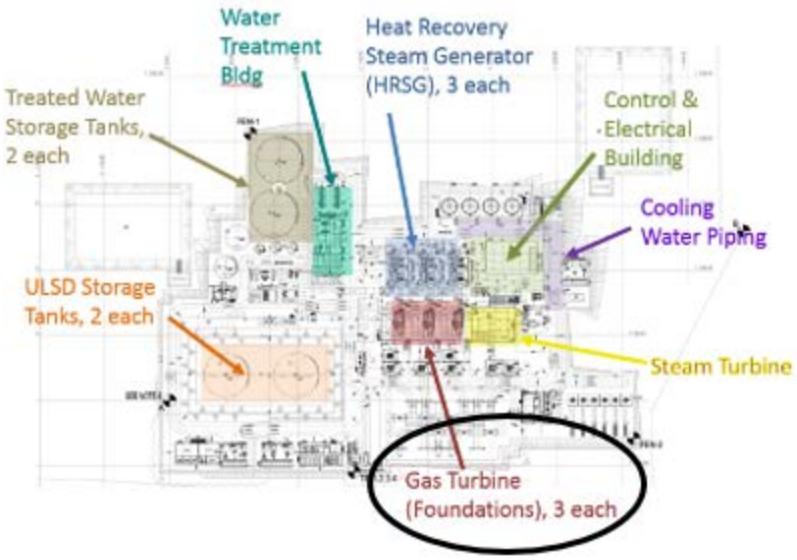






Ukudu Power Plant Construction Status

Gas Turbines & Generators



GTG Building – Exterior siding installation ongoing



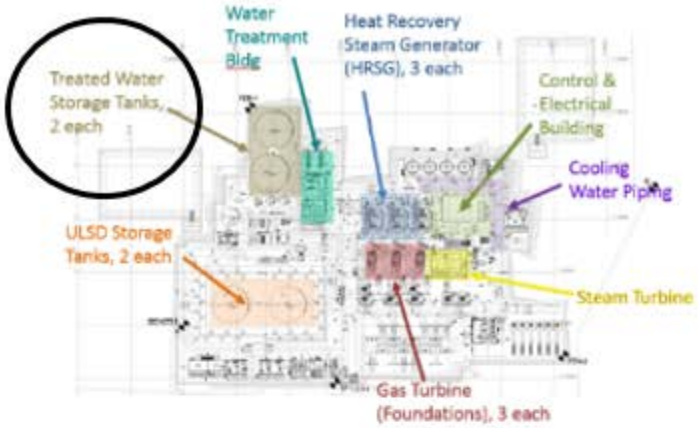
GTG 1-3: Installation of GTG 1-3 ongoing. Currently repairing starting motor for GTG 1







Ukudu Power Plant Construction Status



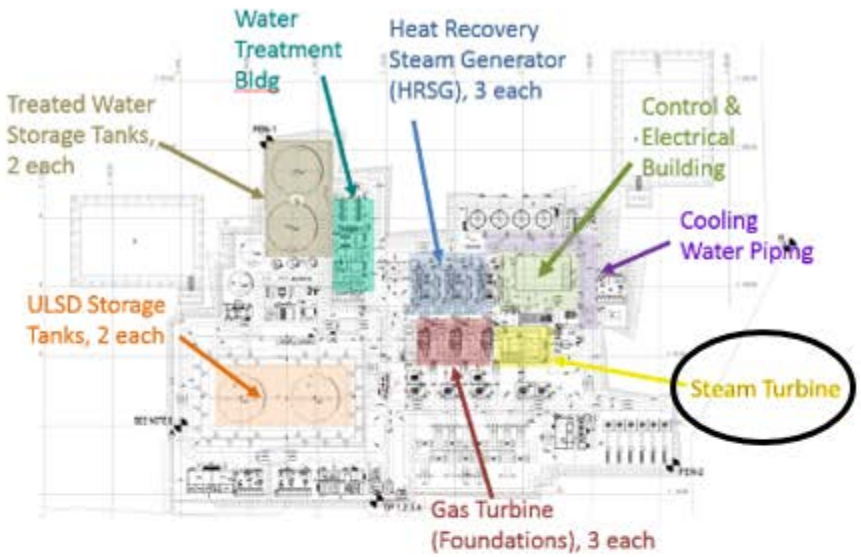
Treated Water Storage Tank 2 – Demolition will begin after ULSD tanks are demolished



Treated Water Storage Tank 1 – Demolition will begin after ULSD tanks are demolished



Ukudu Power Plant Construction Status

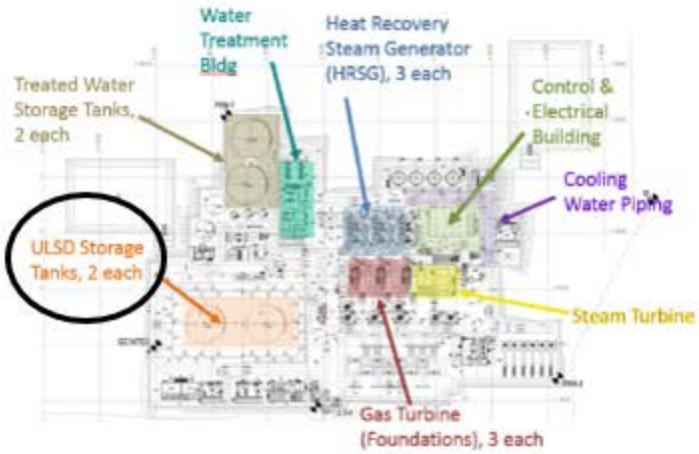




Steam Turbine & Generator – Turbine, generator and condenser installation is ongoing



Ukudu Power Plant Construction Status



ULSD Storage Tank A – Demolition is ongoing



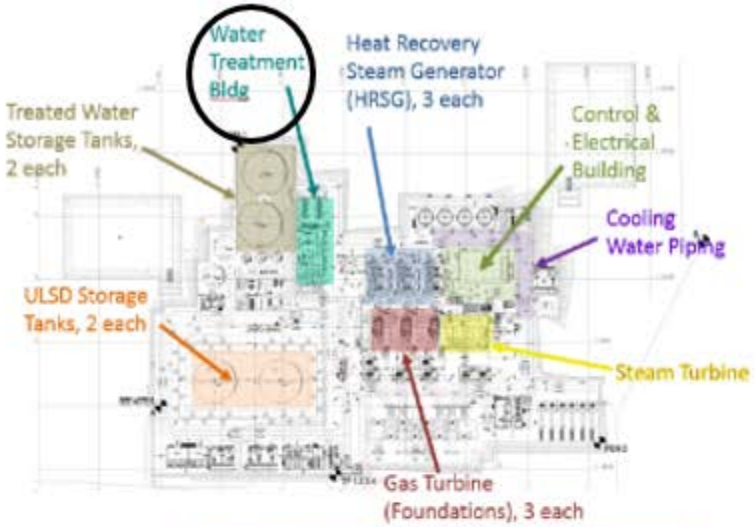
ULSD Storage Tank B – Demolition is ongoing



Tank foundations do not require repair



Ukudu Power Plant Construction Status



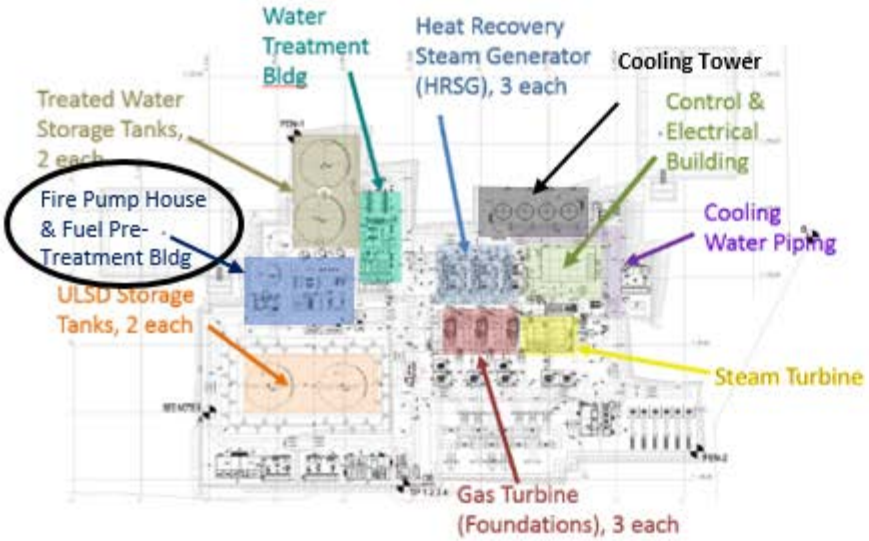


Water Treatment Building – Installation of EDI units is ongoing.





Ukudu Power Plant Construction Status



Fire Pump House – Concrete forms in place



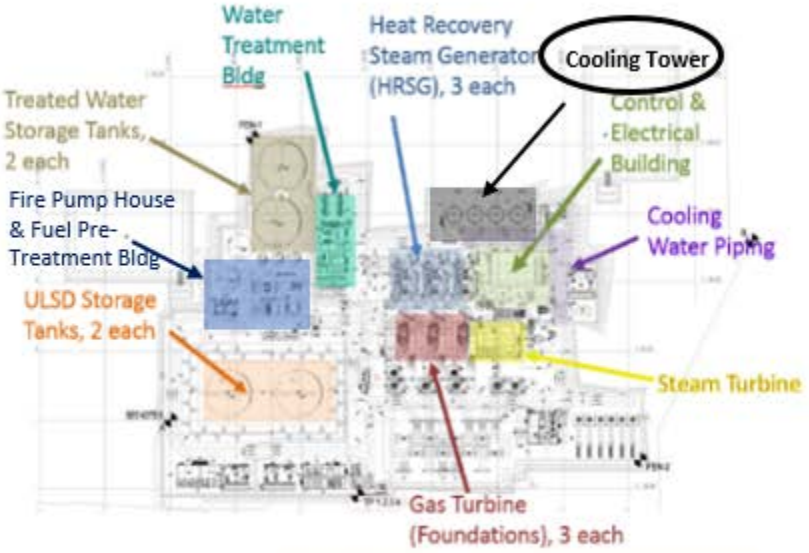
Fire-Water Tank – Demolition completed.



Demineralized Water Tanks – Welding ongoing



Ukudu Power Plant Construction Status

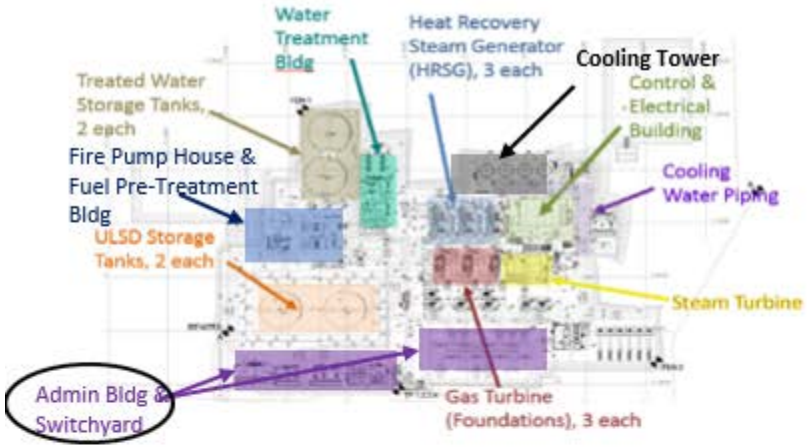




Cooling Tower & Basin – Assembly of inner structure supports ongoing



Ukudu Power Plant Construction Status



Admin Building – Rebar bent slightly.



Switchyard – Construction of static line fixtures underway



Ukudu Power Plant Construction Status *Off-Shore Progress*

Major achievements include shipment of Gas Turbine BOP equipment, STG piping material , and HRSG attemperator. Other progress is shown below:



Steam Turbine Generator – Packing piping supports for shipping



Waste Water Treatment System – Manufactured Chemical Dosing Skid



Waste Water Treatment – Packing UF unit for shipping



Waste Water Treatment System – Packing RO unit for shipping

Ukudu Power Plant - Transportation

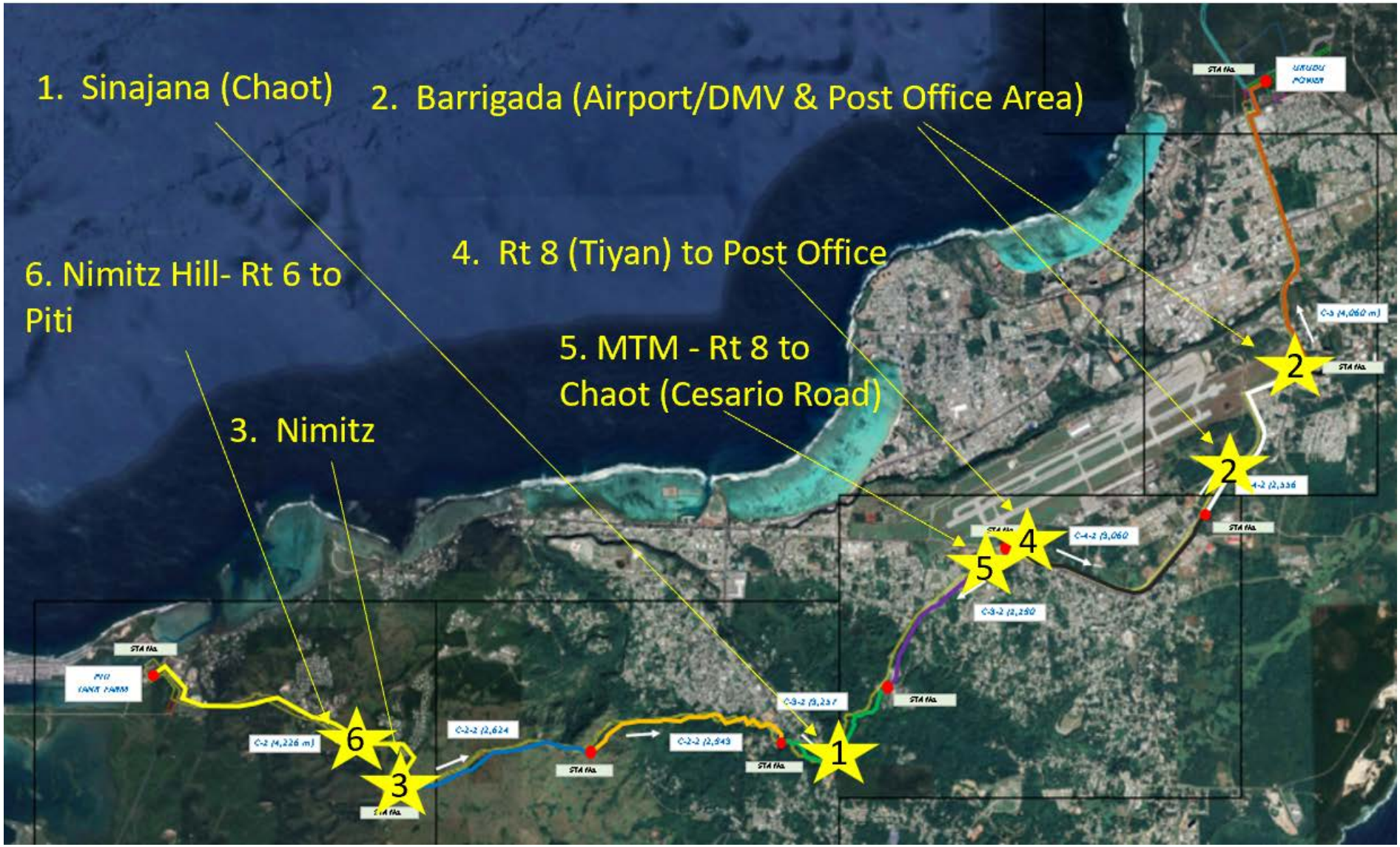
Transportation & installation of the following heavy cargo requiring SPMT movement is completed:

- Heat Recovery Steam Generator (HRSG) Modules (3 units x 4 modules = 12 pieces)
- Gas Turbine #1, GT #1 Generator
- Gas Turbine #2, GT #2 Generator
- Gas Turbine #3, GT #3 Generator
- Generator Transformers for GTG #1, #2, #3
- Assembled Steam Turbine IP/LP, Hydraulic Power Unit, Condenser

Remaining Transportation Work:
Median restoration is nearly complete with one remaining near Two Lovers Point



Fuel Pipeline Construction Status



Fuel Pipeline Construction Status

1. Sinajana/Chaot area

Excavation completed on east side of Chaot bridge.





2. Barrigada

Placing bedding sand in trench behind Barrigada Post Office



Fuel Pipeline Construction Status

3. Nimitz Hill

Above ground pedestal installation and pipeline tests are ongoing.





4. Rt 8 (Tiyan) to Post Office

Site restoration ongoing. Final backfilling in progress.





Fuel Pipeline Construction Status

5. MTM - Rt 8 to Chaot (Cesario St.)

Final backfilling in progress





6. Nimtiz Hill- Rt 6 to Piti

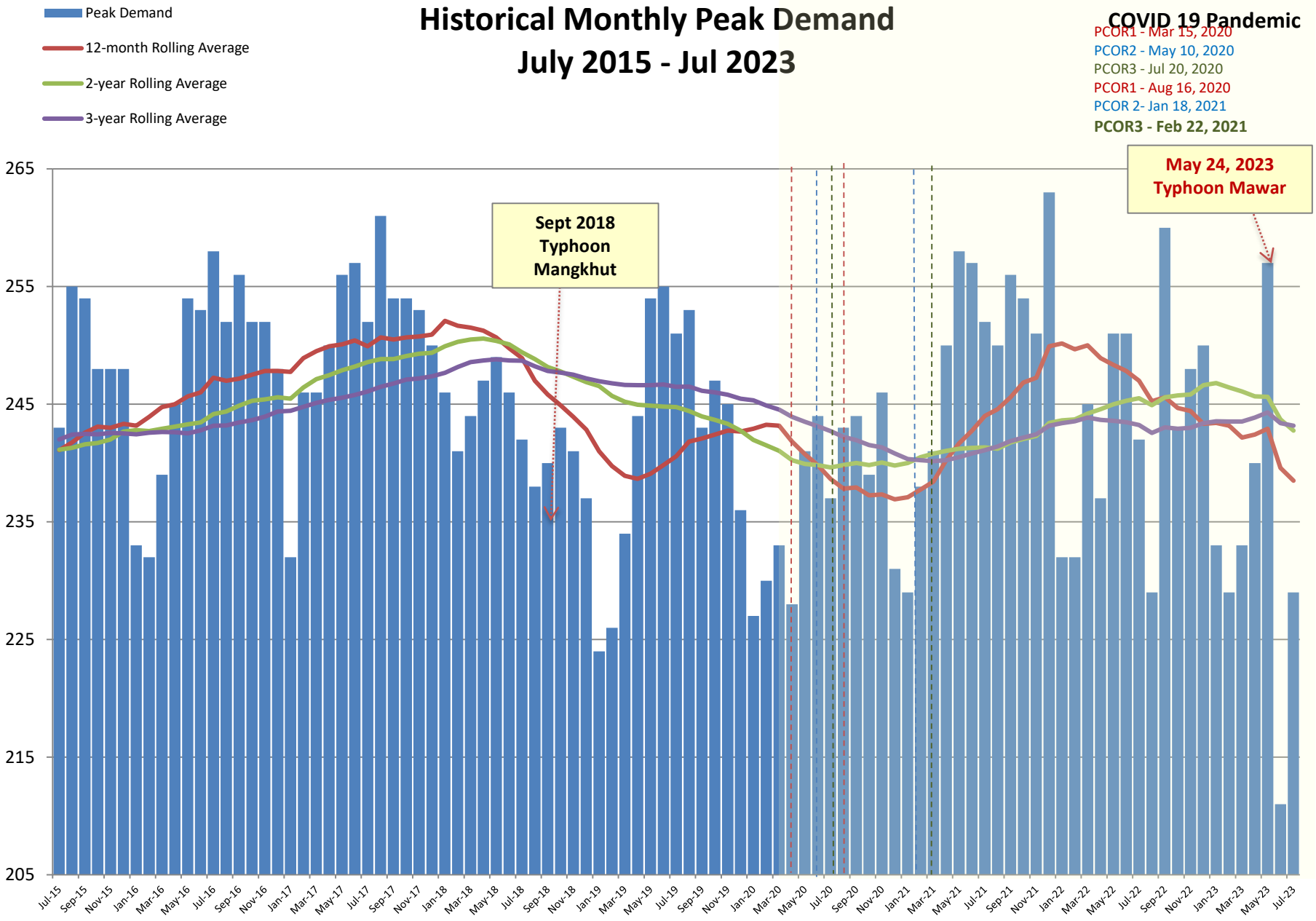
Flowable fill pouring and bedding sand compaction in progress





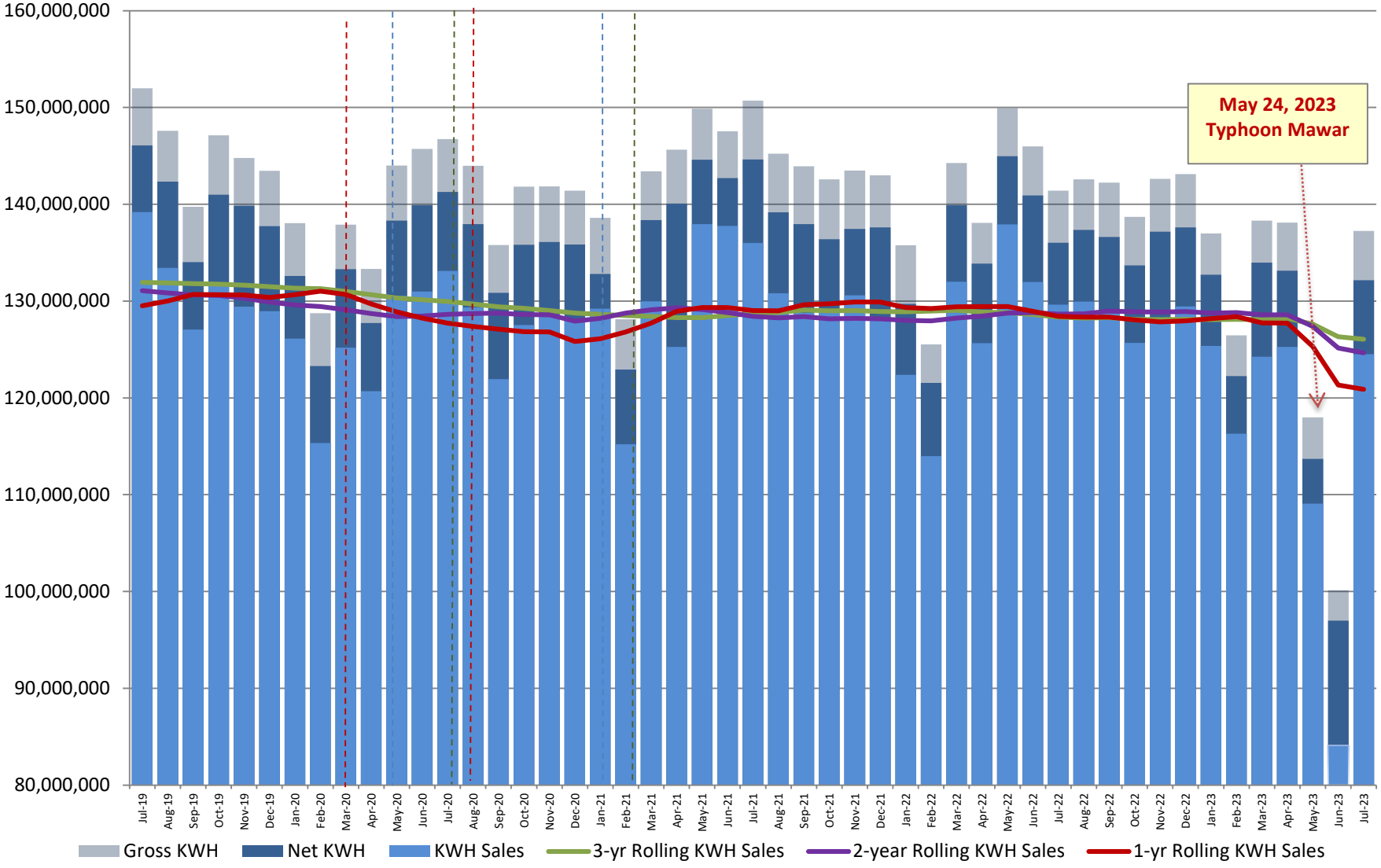
8. Generation KPIs Update
JULY 2023

Historical Monthly Peak Demand
July 2015 - Jul 2023

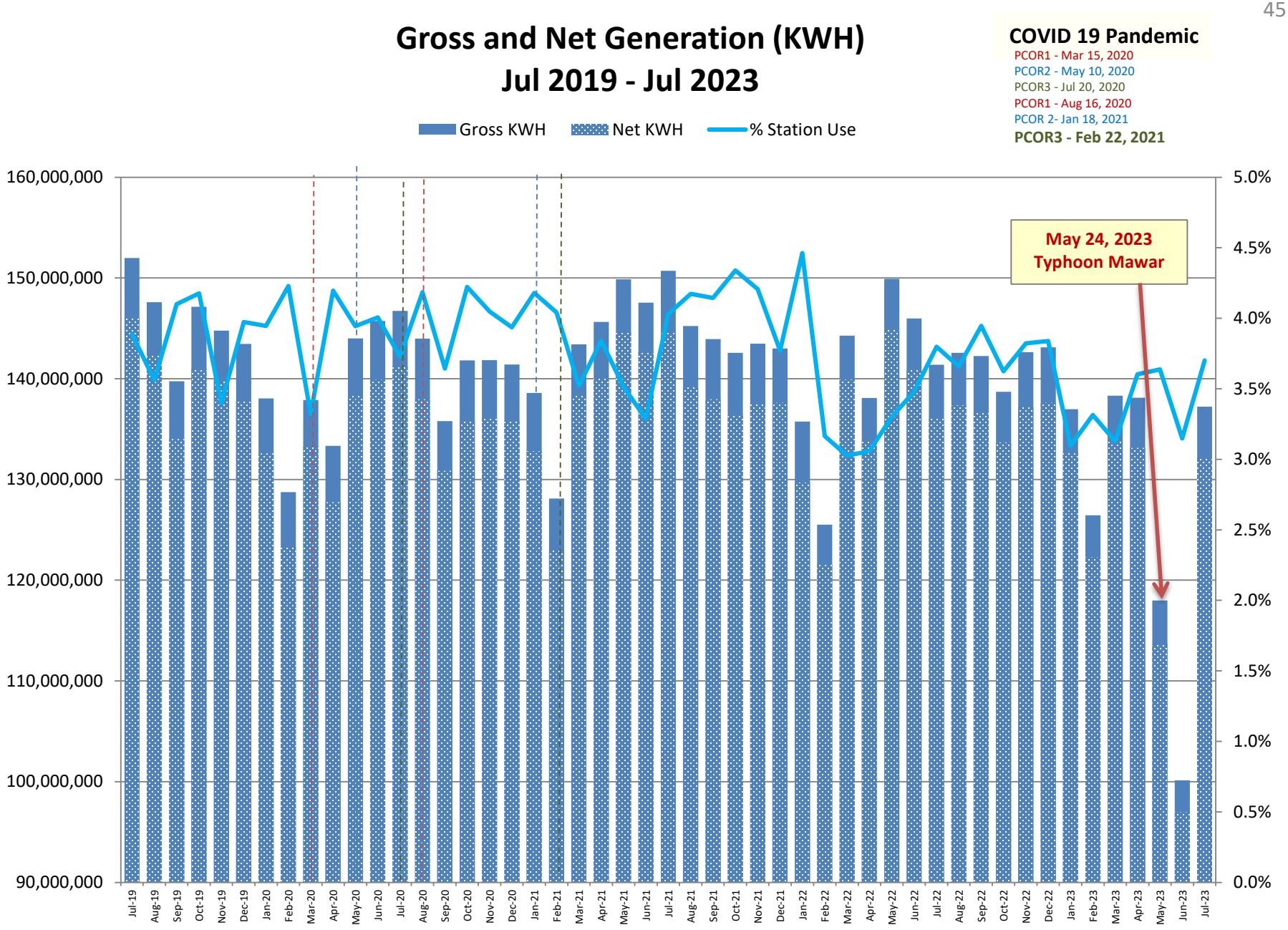


Historical KWH Sales
Jul 2019 - Jul 2023

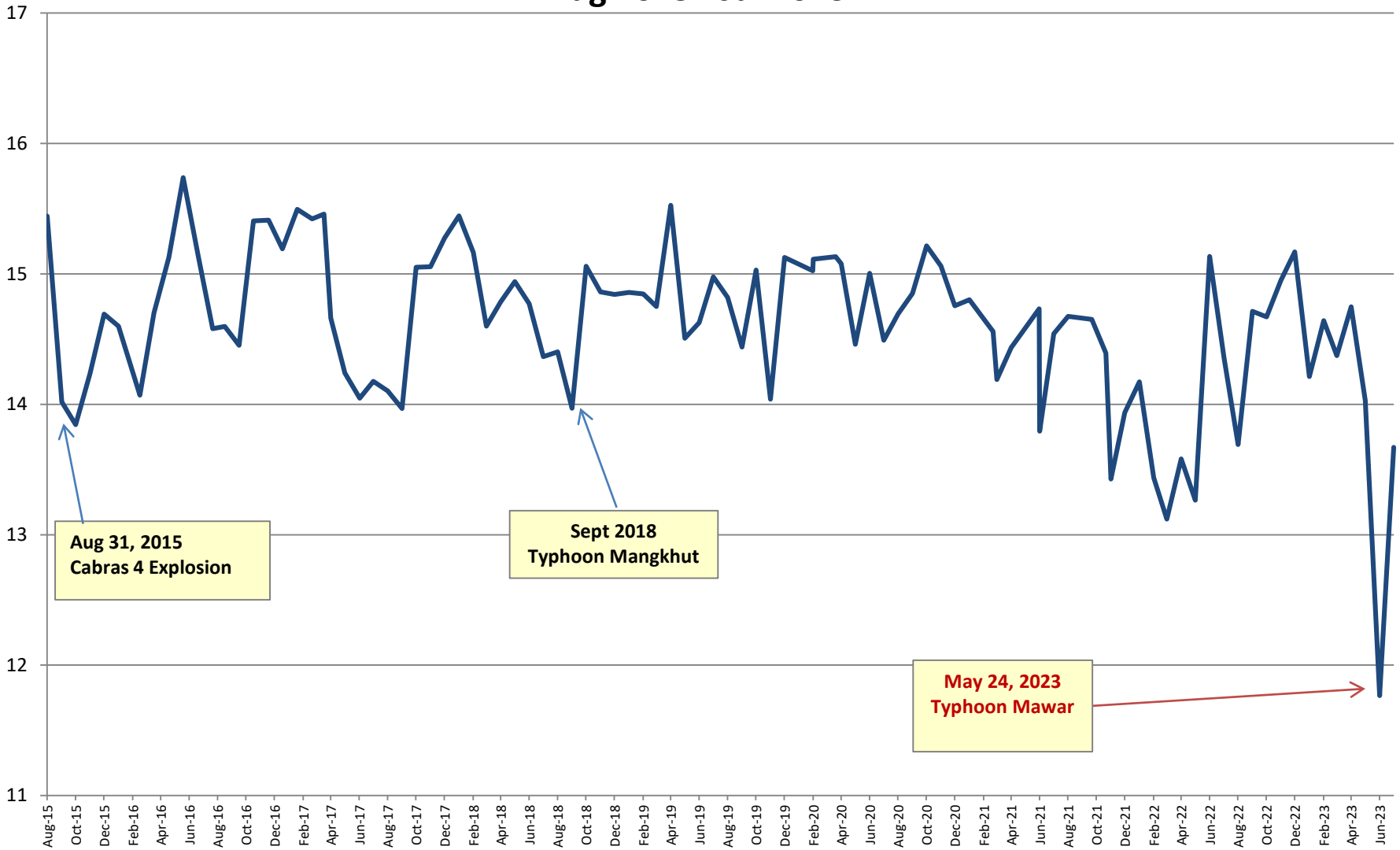
COVID 19 Pandemic
PCOR1 - Mar 15, 2020
PCOR2 - May 10, 2020
PCOR3 - Jul 20, 2020
PCOR1 - Aug 16, 2020
PCOR 2- Jan 18, 2021
PCOR3 - Feb 22, 2021



Gross and Net Generation (KWH)
Jul 2019 - Jul 2023

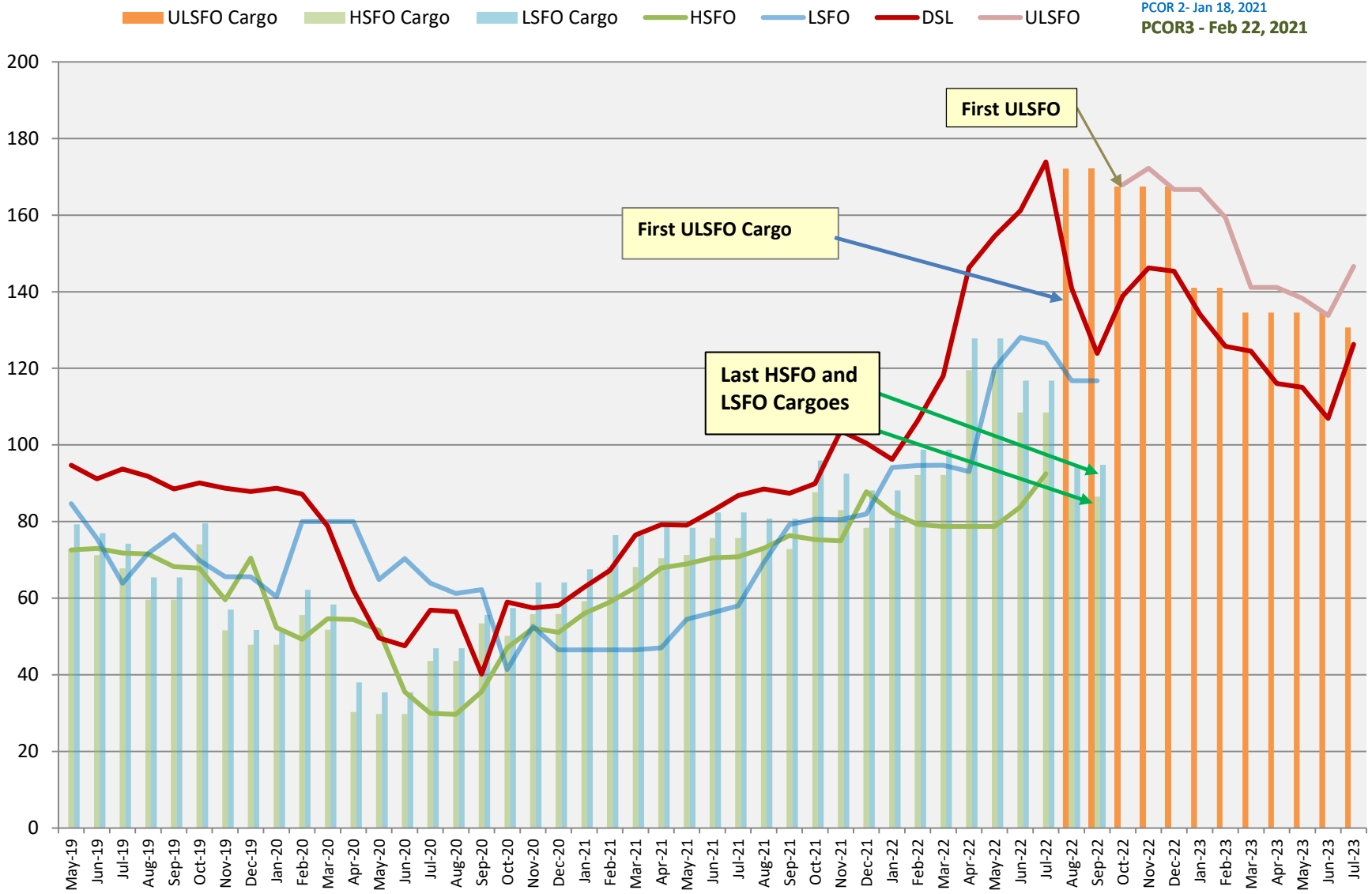


SYSTEM GROSS HEAT RATE
(KWH/Gal)
Aug 2015 - Jul 2023



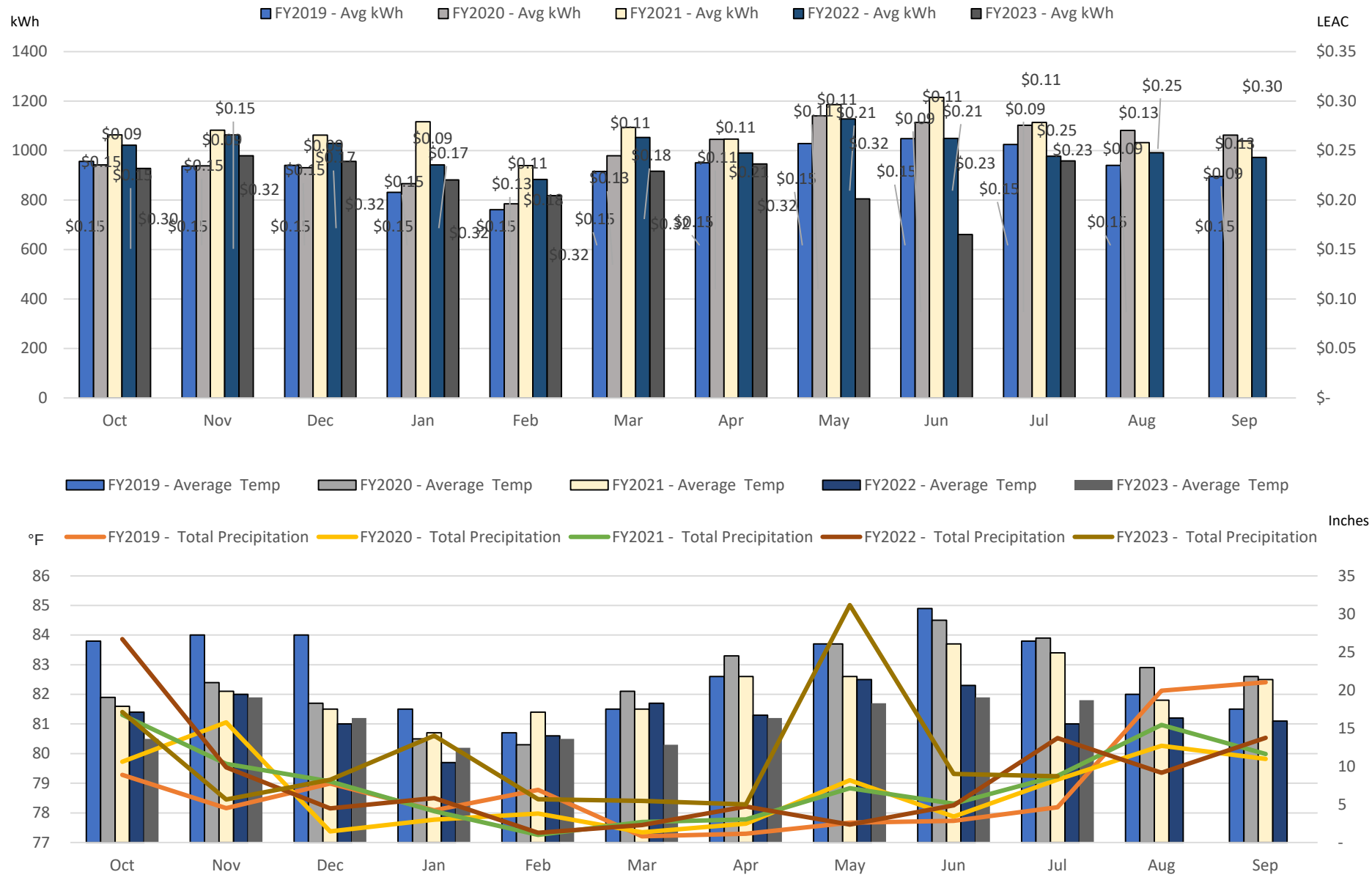
Fuel Cargo and Fuel Consumption Costs ($/bbl)
April 2019 - Jul 2023

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



9. CFO FINANCIAL HIGHLIGHTS JULY 2023

Residential average kWh & Weather Chart



Residential average kWh & LEAC Rate

Avg kWh	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
FY 2019	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		

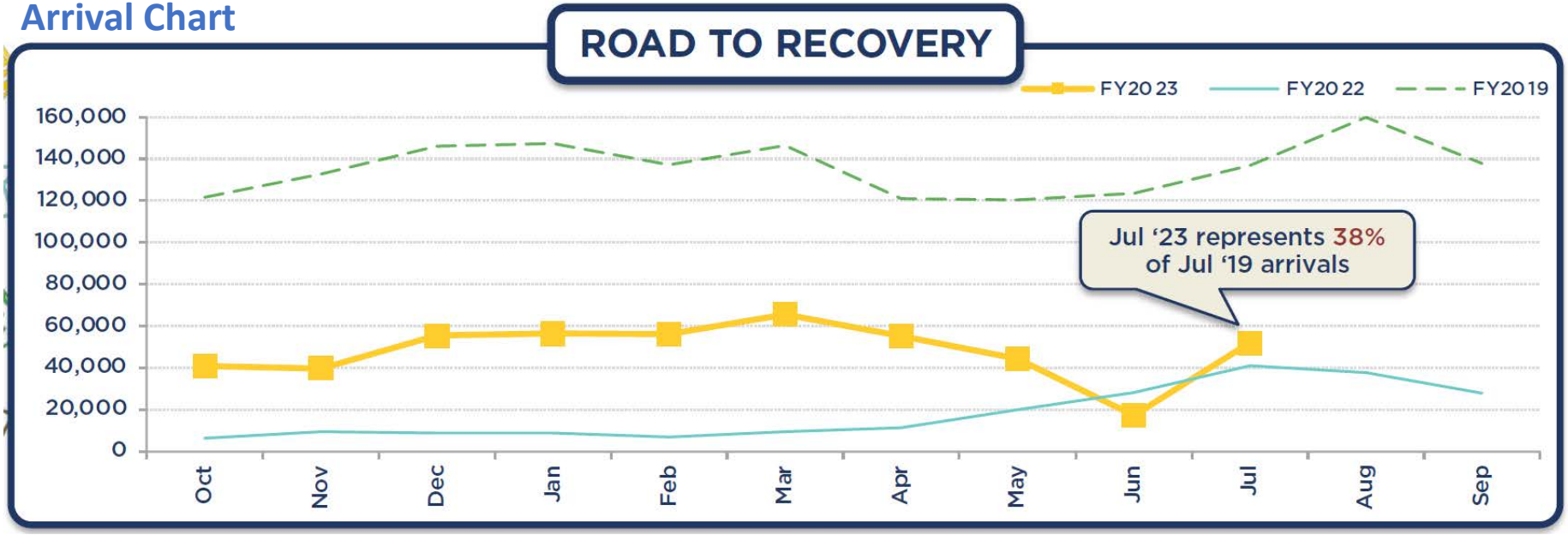
LEAC Rate	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
FY 2019	$ 0.1542	$ 0.1542	$ 0.1542	$ 0.1542	$ 0.1542	$ 0.1542	$ 0.1542	$ 0.1542	$ 0.1542	$ 0.1542	$ 0.1542	$ 0.1542
FY2020	$ 0.1542	$ 0.1542	$ 0.1542	$ 0.1542	$ 0.1345	$ 0.1345	$ 0.1100	$ 0.1100	$ 0.0868	$ 0.0868	$ 0.0868	$ 0.0868
FY2021	$ 0.0868	$ 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		

Hotel kWh & Occupancy Rate

mWh Hotels	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
FY2019	10,826	10,628	10,494	10,175	8,965	9,443	10,565	10,741	10,066	11,494	10,170	10,397
FY2020	10,316	9,801	10,508	9,848	9,627	8,319	7,044	6,826	7,309	7,645	7,520	7,063
FY2021	7,045	7,379	7,596	6,973	6,270	6,863	7,326	7,152	7,521	7,841	7,906	7,560
FY2022	6,973	7,346	7,041	6,921	6,419	6,964	6,850	7,451	7,683	7,959	8,071	7,821
FY2023	7,802	7,921	8,251	8,031	7,542	7,950	7,859	7,176	6,101	8,538		

Occupancy Rat	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			

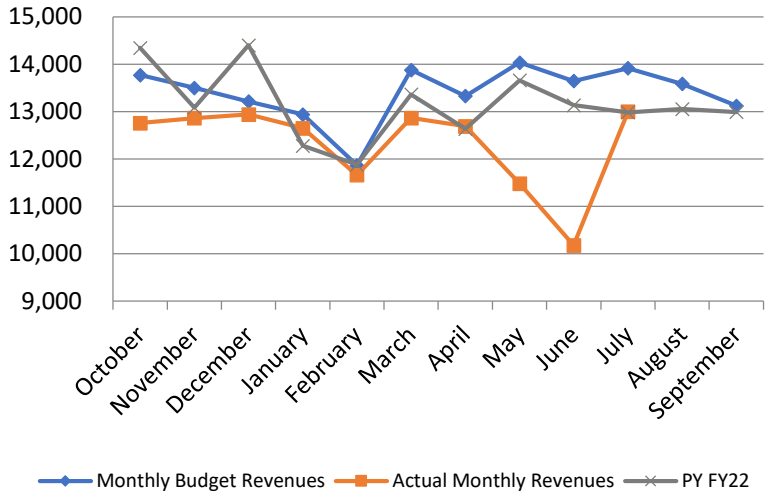
Arrival Chart



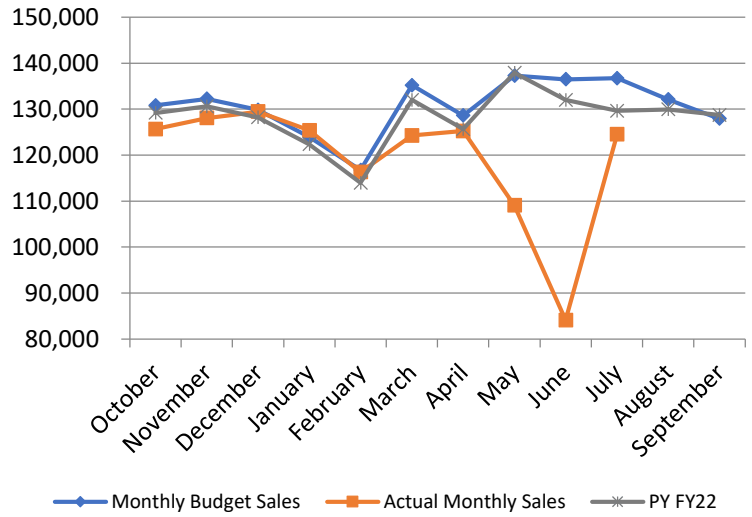
Note: Data from 22 hotels in schedule P. 1 hotel closed its doors on Oct. 2021. Occupancy rate and Road to Recovery is from GVB Visitor Arrival Statistic.

July 2023 Monthly Financial Highlights

Base Rate Revenue (in '000)



MWH Sales (in 'mWh)

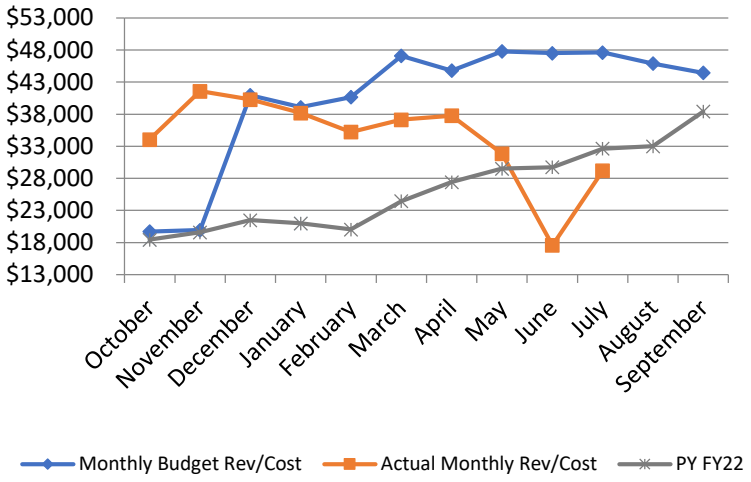


Through July 31, 2023							
$000	Monthly Budget Revenues	Actual Monthly Revenues	Variance		PY FY22	CY vs PY Variance	
October	13,769	$ 12,757	$ (1,013)	↓	$ 14,345	$ (1,589)	↓
November	13,500	12,861	$ (638)	↓	13,085	$ (223)	↓
December	13,214	12,940	$ (274)	↓	14,396	$ (1,456)	↓
January	12,939	12,651	$ (288)	↓	12,278	$ 374	↑
February	11,866	11,660	$ (206)	↓	11,879	$ (219)	↓
March	13,880	12,865	$ (1,014)	↓	13,364	$ (498)	↓
April	13,329	12,691	$ (638)	↓	12,636	$ 55	↑
May	14,033	11,484	$ (2,549)	↓	13,661	$ (2,177)	↓
June	13,646	10,178	$ (3,468)	↓	13,134	$ (2,956)	↓
July	13,916	12,997	$ (919)	↓	12,983	$ 15	↑
August	13,585				13,056		
September	13,122				12,992		
Total	**$ 160,800**	**$ 123,085**	**$ (11,007)**		**$ 157,808**	**$ (8,675)**	

Through July 31, 2023							
mwh	Monthly Budget Sales	Actual Monthly Sales	Variance		PY FY22	CY vs PY Variance	
October	130,810	125,672	(5,138)	↓	129,175	(3,502)	↓
November	132,251	128,077	(4,174)	↓	130,597	(2,520)	↓
December	129,828	129,439	(389)	↓	128,204	1,235	↑
January	123,917	125,368	1,451	↑	122,367	3,001	↑
February	116,767	116,289	(477)	↓	113,980	2,310	↑
March	135,211	124,254	(10,957)	↓	131,984	(7,730)	↓
April	128,610	125,257	(3,353)	↓	125,661	(404)	↓
May	137,272	109,061	(28,211)	↓	137,915	(28,854)	↓
June	136,470	84,097	(52,372)	↓	131,980	(47,882)	↓
July	136,715	124,518	(12,197)	↓	129,637	(5,119)	↓
August	132,084				129,938		
September	127,916				128,721		
Total	**1,567,850**	**1,192,033**	**(115,817)**		**1,540,160**	**(89,467)**	

July 2023 Monthly Financial Highlights (Continued)

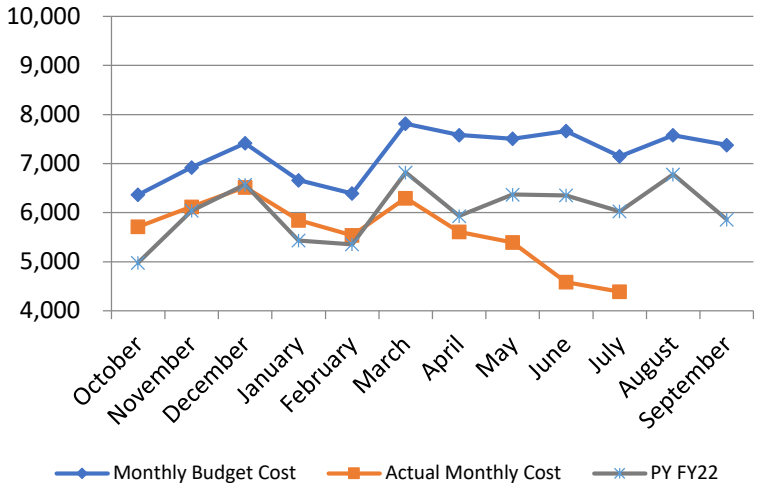
Fuel Revenues (in '000)



Through July 31, 2023

$000	Monthly Budget Rev/Cost	Actual Monthly Rev/Cost	Variance		PY FY22	CY vs PY Variance	
October	$ 19,726	$ 34,062	14,336	↑	$ 18,431	15,631	↑
November	19,943	41,593	21,650	↑	19,600	21,993	↑
December	40,967	40,281	(686)	↓	21,475	18,806	↑
January	39,102	38,205	(897)	↓	20,978	17,227	↑
February	40,669	35,217	(5,453)	↓	20,043	15,173	↑
March	47,094	37,143	(9,950)	↓	24,465	12,678	↑
April	44,794	37,773	(7,021)	↓	27,433	10,340	↑
May	47,811	31,867	(15,945)	↓	29,517	2,350	↑
June	47,532	17,560	(29,972)	↓	29,731	(12,171)	↓
July	47,617	29,194	(18,423)	↓	32,646	(3,452)	↓
August	45,916				32,999		
September	44,467				38,433		
Total	**$ 485,639**	**$ 342,895**	**$ (52,360)**		**$ 315,753**	**$ 98,575**	

O&M Costs (in '000)



Through July 31, 2023

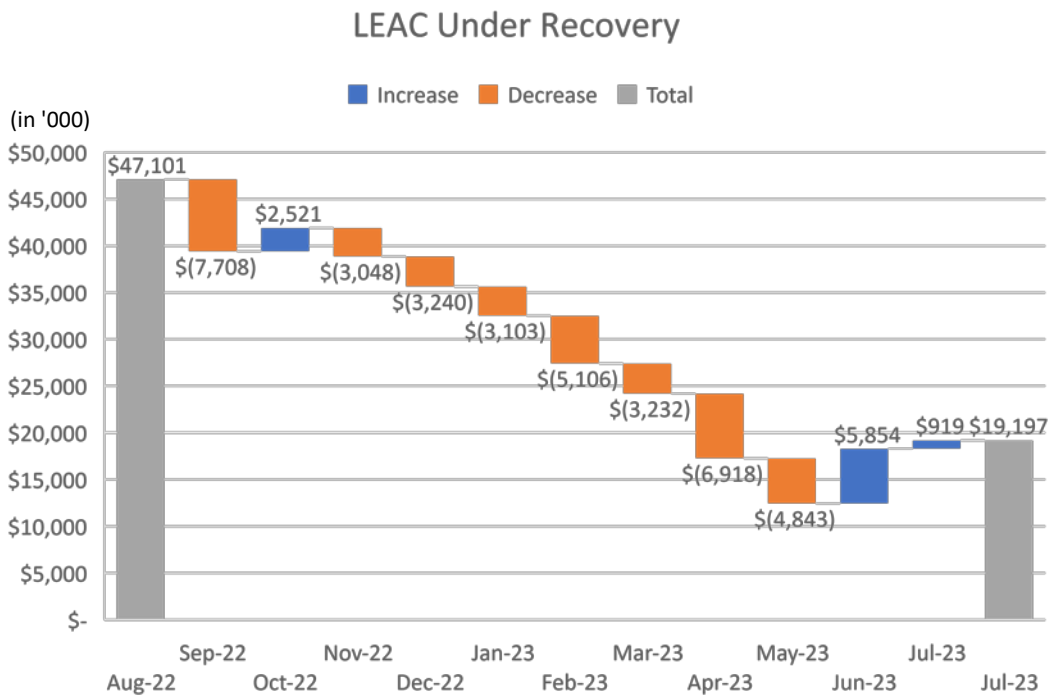
$000	Monthly Budget Cost	Actual Monthly Cost	Variance		PY FY22	CY vs PY Variance	
October	6,367	5,712	(655)	↑	4,979	733	↓
November	6,923	6,120	(802)	↑	6,039	82	↓
December	7,415	6,518	(898)	↑	6,569	(52)	↑
January	6,663	5,846	(817)	↑	5,434	412	↓
February	6,392	5,537	(855)	↑	5,353	184	↓
March	7,814	6,298	(1,517)	↑	6,818	(521)	↑
April	7,582	5,610	(1,972)	↑	5,931	(321)	↑
May	7,508	5,395	(2,113)	↑	6,369	(975)	↑
June	7,665	4,585	(3,080)	↑	6,353	(1,768)	↑
July	7,148	4,390	(2,758)	↑	6,028	(1,638)	↑
August	7,578				6,779		
September	7,380				5,859		
Total	**$ 86,435**	**$ 56,010**	**$ (15,466)**		**$ 72,512**	**$ (3,864)**	

July 2023 Monthly Financial Highlights (Continued)

Through July 31, 2023													
	4Q2020	1Q2021	2Q2021	3Q2021	4Q2021	1Q2022	2Q2022	3Q2022	4Q2022	1Q2023	2Q2023	3Q2023	4Q2023
Residential	44,191	44,503	44,575	45,247	45,229	45,224	45,283	45,261	45,315	45,370	45,417	45,453	45,015
Commercial	5,366	5,301	5,307	5,330	5,336	5,349	5,367	5,368	5,373	5,425	5,473	5,436	5,411
Government	1,081	1,063	1,060	1,049	1,056	1,069	1,077	1,079	1,087	1,088	1,108	1,112	1,106
Streetlights	1,132	1,133	1,132	1,132	1,131	1,160	1,158	1,156	1,163	1,167	1,167	1,165	1,159
Navy	1	1	1	1	1	1	1	1	1	1	1	1	1
Total	**51,771**	**52,001**	**52,075**	**52,759**	**52,753**	**52,803**	**52,886**	**52,865**	**52,939**	**53,051**	**53,166**	**53,167**	**52,692**

Debt service coverage (DSC) calculation-indenture	2018	2019	2020	2021	2022	2023
Senior lien coverage	2.53	1.78	1.42	1.54	1.87	1.65
Debt service coverage (DSC) calculation-IPP as O&M						
Senior lien coverage	1.65	1.46	1.23	1.49	1.87	1.65

July 2023 Monthly Financial Highlights (Continued)



Through July 31, 2023				
$000	LEAC Revenue	Fuel Cost	(Over)/Under Recover	Under Recovery Balance
October	$ 34,062	$ 36,583	2,521	$ 41,914
November	41,593	$ 38,545	(3,048)	$ 38,866
December	40,281	$ 37,041	(3,240)	$ 35,626
January	38,205	$ 35,102	(3,103)	$ 32,523
February	35,217	$ 30,111	(5,106)	$ 27,417
March	37,143	$ 33,911	(3,232)	$ 24,185
April	37,773	$ 30,855	(6,918)	$ 17,267
May	31,867	$ 27,024	(4,843)	$ 12,424
June	17,560	$ 23,414	5,854	$ 18,278
July	29,194	$ 30,113	919	$ 19,197
August				
September				
Total	**$ 342,895**	**$ 322,699**	**$ (20,196)**	

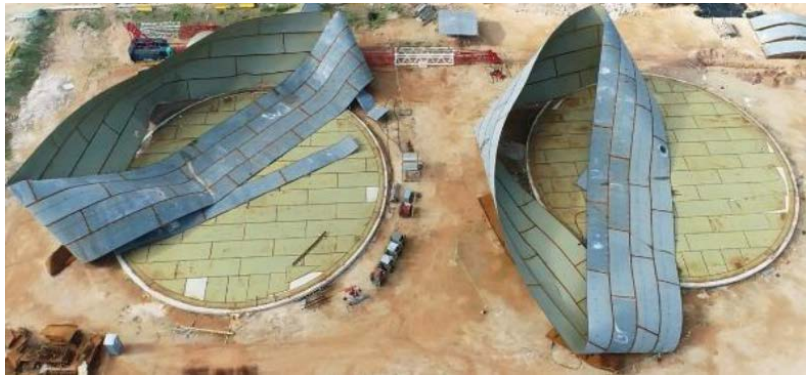
Typhoon Mawar
Report & Recommendations

Typhoon Mawar: Updates

Typhoon Mawar impact and damage assessment report was presented to the CCU at its July 2023 meeting. This report serves to update the Commission on recent activities and information.

GENERATION

- Yigo 20 MW Combustion Turbine
  - FEMA representatives are scheduled to inspect the typhoon damaged components this week.
  - The generator rotor is scheduled to be shipped to Texas this week.
  - Return to service anticipated no later than December 31, 2023.
- Ukudu Power Plant
  - GPA is preparing to discuss the impact of the typhoon on the consent decree datelines which includes the retirement of Cabras 1&2. GPA does not have adequate generation capacity to retire Cabras any earlier than after commissioning of Ukudu.



TRANSMISSION & DISTRIBUTION

- Emergency Work Clearances (EWC)
  - Approximately 400 emergency clearances were issued to customers but remain outstanding. Delay of completed inspection/clearances may be due to customers awaiting approved typhoon claims.
  - GPA will be requesting DPW's to extend permission for licensed professional engineers to inspect and sign off on repair work to weather heads and similar components damaged by Typhoon Mawar.
- Streetlights
  - Repair/replacement of storm-damaged streetlights is substantially complete

Typhoon Mawar: Updates

STANDBY GENERATORS (Water Systems Diesel)

- GPA is focused on the following to address concerns and issues from recent Typhoon Mawar:
  - Work with GWA on finalizing and prioritizing sites to replace aged, damaged, or deteriorating units, install new units or upgrade units to meet site requirements
  - Continue to perform repairs on down units that can be repaired and perform required preventive maintenance
  - Evaluate parts listing and inventory to ensure adequate stock of spare parts
  - Evaluate and recruit necessary manpower to support activities
  - Purchase fuel tanker truck(s) to support refueling requirements
  - Assess site structures for improvements to minimize water intrusion
  - Initiate contracts to enclose “open” sites
  - Pursue FEMA mitigation funding
- The report and recommendations are being prepared and targeted to be provided by October 2023 CCU meeting.

Photo (right) shows generator damage due to severe flooding during Typhoon Mawar.

Post-typhoon inspections revealed the flooding engulfed the generator, controls, and other components.



Typhoon Mawar: Updates (continued)

FEMA COLLABORATION

- Claims
  - The GPA team, lead by Engineering Manger, is in frequent communication with FEMA regarding Section 406 (Public Assistance) eligible work resulting from Typhoon Mawar damage
- Mitigation & Resiliency Projects
  - GM and GPA teams have met with several FEMA teams to discuss other projects qualified under various FEMA programs
  - Proposed energy projects support other critical infrastructure, community resiliency, and military mission readiness
  - Additional FEMA representatives are scheduled for onsite visits with GPA teams

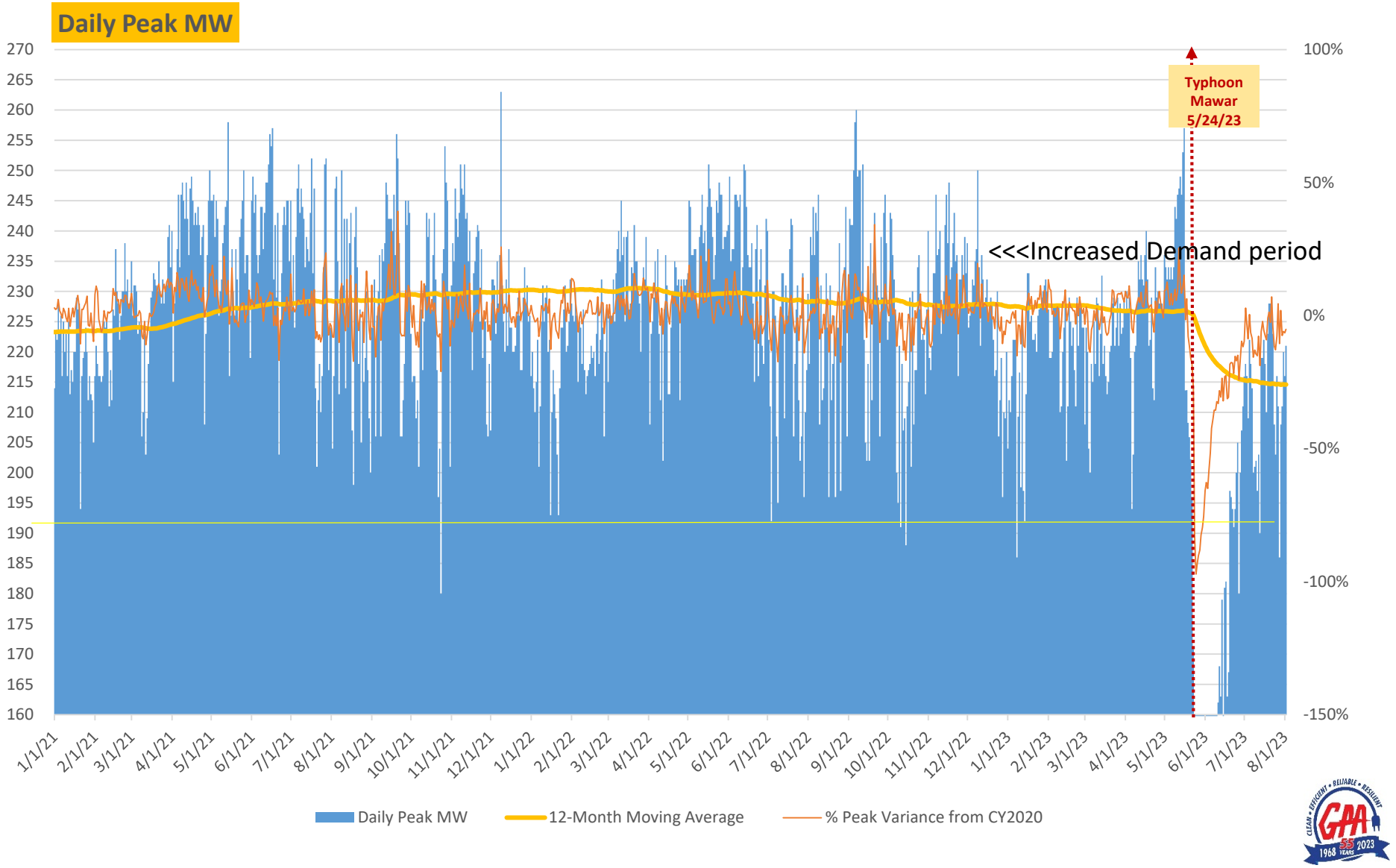
OTHER FEDERAL COLLABORATION

- Discussions with several federal partners concerning priority and funding for energy mitigation and resiliency projects including:
  - Undergrounding transmission lines
  - Water well and wastewater generators
  - Undergrounding distribution lines
  - Critical GPA communications infrastructure
  - General communication core sites
  - Emergency/temporary power

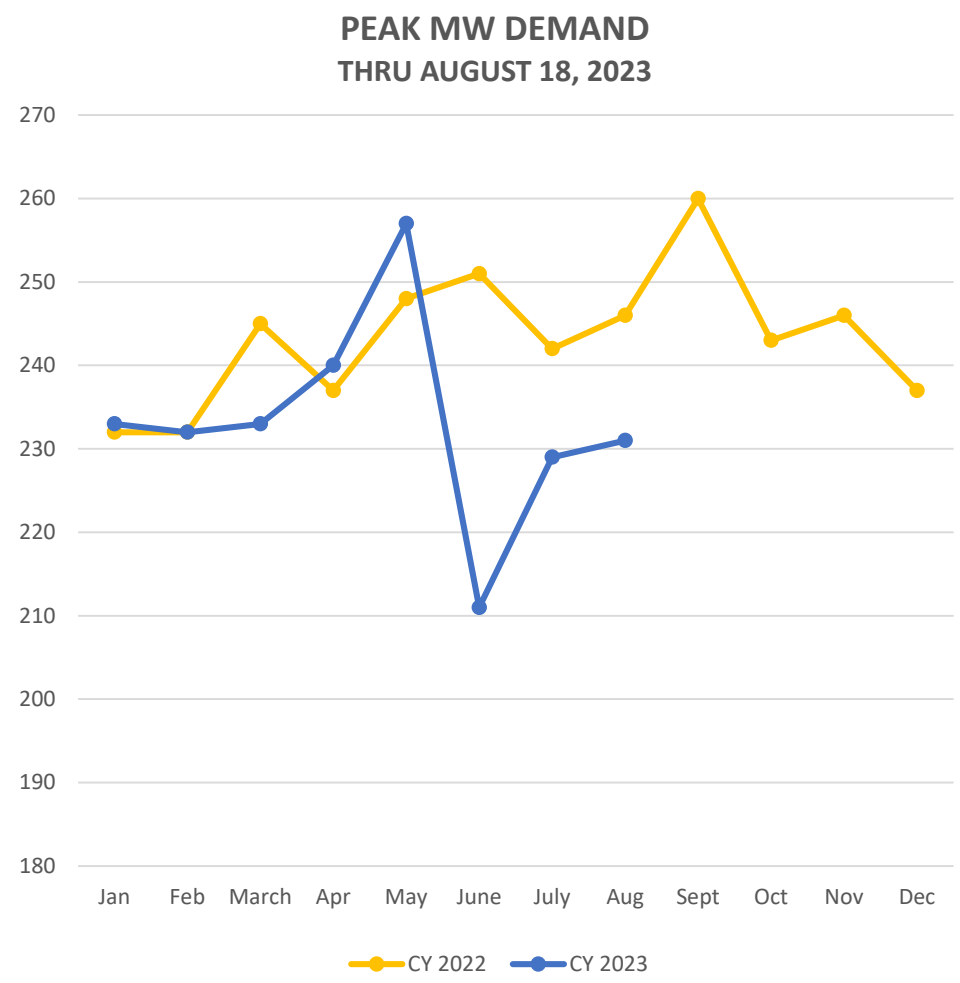
Generation Capacity Shortfall (Load-Shedding)

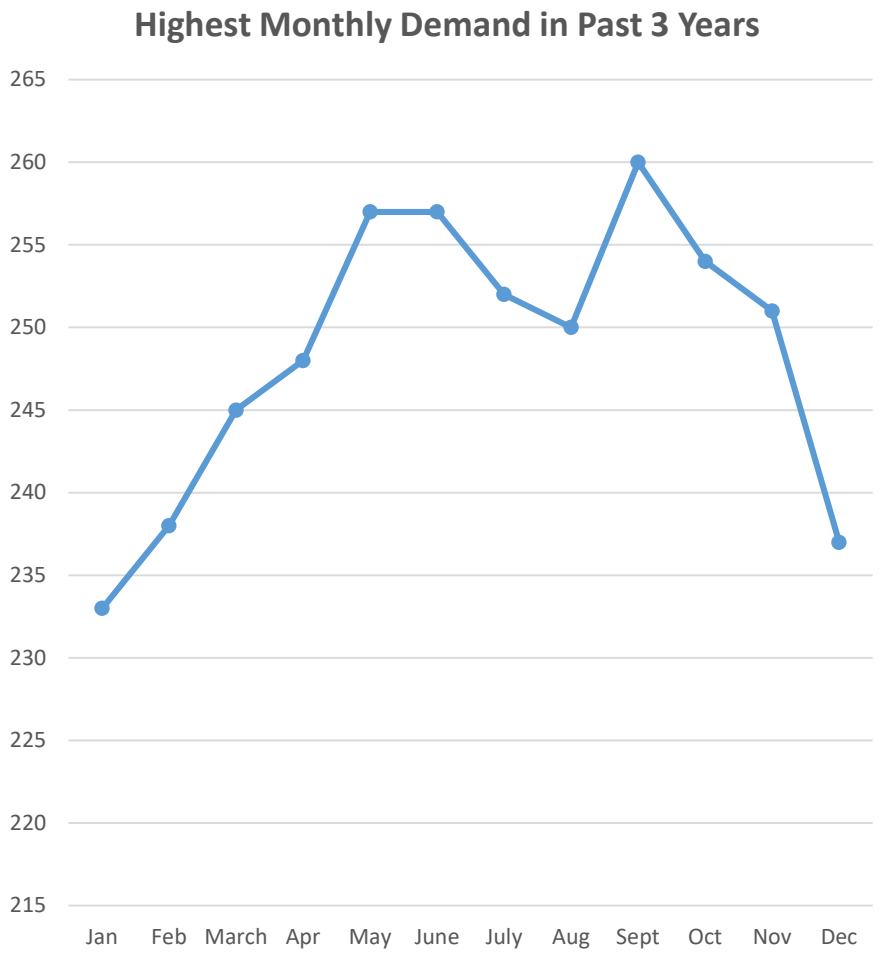
Generation Capacity Shortfall (Load Shedding)

Graph shows Peak Demand increase between September thru December



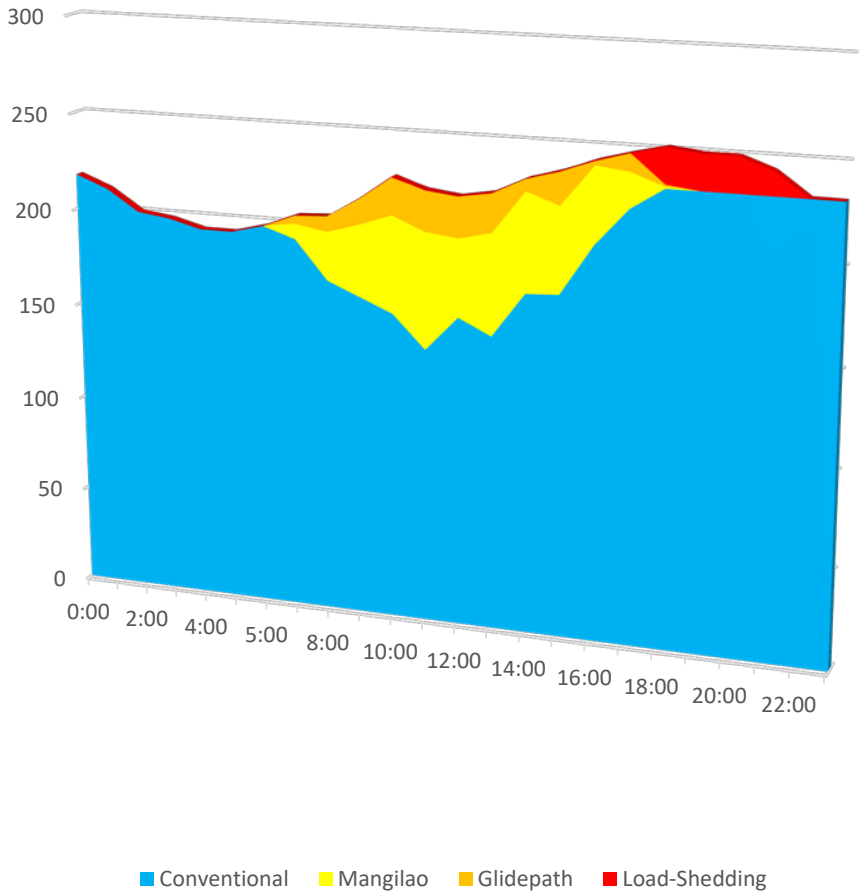
Generation Capacity Shortfall: Demand



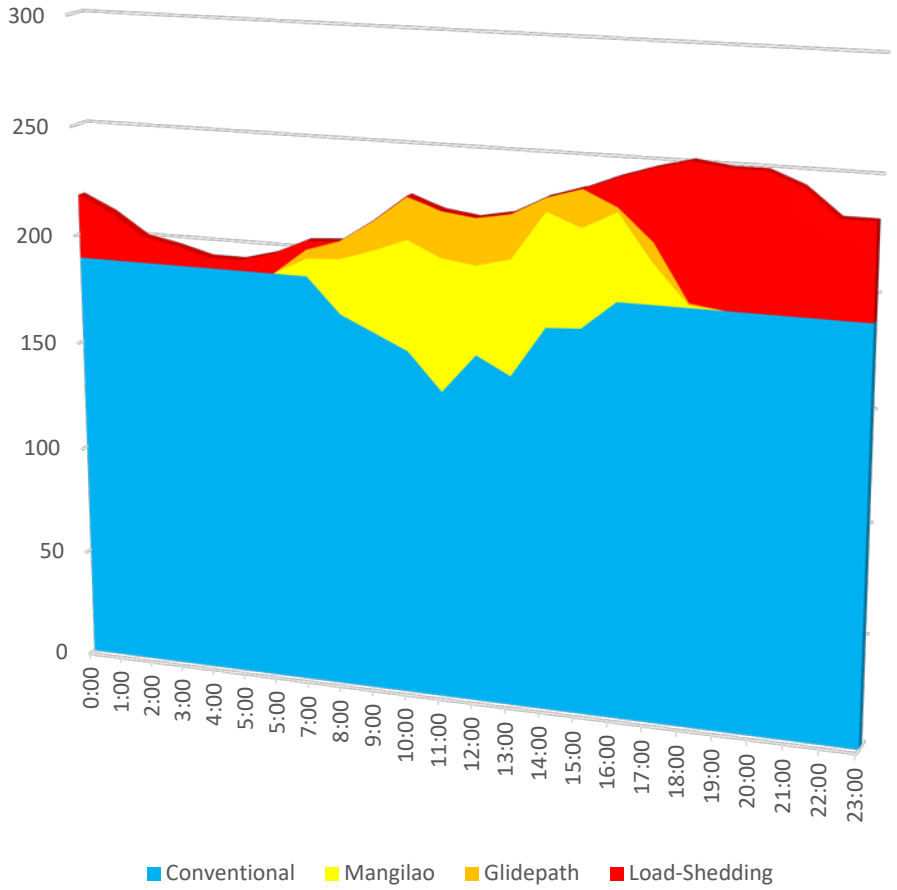


Generation Capacity Shortfall: Down Baseload Scenarios

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



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



Generation Capacity Shortfall

Capacity Dates:	18-Aug-23	20-Aug-23	31-Dec-23	CY2024/2025	CY2026
Ukudu Combined Cycle	-	-	-	-	**198**
Cabras 1	41	41	41	41	-
Cabras 2	0	35	41	41	-
Piti 8	43	43	43	43	43
Piti 9	43	43	43	43	43
Piti 7	30	30	30	30	30
Dededo 1	18	18	18	18	18
Dededo 2	18	18	18	18	18
Macheche	18	18	18	18	18
Yigo CT	**Down Hard**	**Down Hard**	**20**	**20**	**20**
Yigo Diesels	**10**	**10**	**10**	**30**	**30**
Tenjo #1	3	3	3	3	3
Tenjo #2	3	3	3	3	3
Tenjo #3	3	3	3	3	3
Tenjo #4	0	0	3	3	3
Tenjo #5	0	0	3	3	3
Talofofo #1	0	4	4	4	4
Talofofo #2	0	0	3	3	3
Manenggon #1	4	4	4	4	3
Manenggon #2	0	0	3	3	3
Total:	**234**	**273**	**311**	**331**	**446**
Anticipated Peak Demand	240	240	245	260	270
Reserve (Shortfall)	(6)	33	66	71	176
1 Baseload Down		-43	-43	-43	-43
Reserve (Shortfall)	(6)	(10)	23	28	133
2 Baseloads Down	-43	-43	-43	-43	-43
Reserve (Shortfall)	(49)	(53)	(20)	(15)	90
Interruptible Load (within 2 months)	27	27	27	27	
Voluntary Conservation (5,000 Customers)	7.5	7.5	7.5	7.5	
Load Shedding (6pm - 11pm)	(15)	(19)	15	20	

Generation Capacity Shortfall: Interruptible Load Program

Source	Count	kW	$/Month	Variable/Hour
GWA Assets	37	6,657		
GIAA	1	2,500	$ 20,000	$ 2,250
PAG	1	500	$ 3,000	$ 450
GRMC	1	1,265	$ 8,855	$ 1,139
Hotels	16	11,700	$ 81,900	$ 10,530
Commercial	18	4,500	$ 22,500	$ 4,050
TOTAL:	74	27,122	$ 136,255	$ 18,419

Fixed 6-Month Cost:	$ 817,530
Estimated Variable (72 hours):	$ 1,326,132
Estimated Interruptible Load (6-months):	$ 2,143,662
Base Rate Impact (excludes fuel cost):	$ 1,038,552

Generation Capacity Shortfall: Capacity Recovery Action Plan

Plan of Action for Capacity Recovery Over Next 6 to 9 Months

REDUCE DEMAND

- Interruptible Load:
  - Interruptible Load (IL) program and reimbursement rates have been re-established to assist GPA in meeting peak demand during loss or scheduled maintenance of baseload units. Invitation letters have been sent out to approximately 187 large power and commercial customers.
  - Requesting capacity and Interruptible Load support and assistance from DOD.

INCREASE CAPACITY

- Repairs of Existing Units
  - **Yigo CT 20 MW Unit**: Expedite repair. Generator rotor and other parts to be shipped to Texas this week for repair. Return to Service targeted for November/December 2023 timeframe
  - **Yigo Diesels**: Continue repairs of Yigo 1.1MW units. Restore Capacity to between 30 to 40 MW:
    - Current actions:
      - Resolution of procurement protests will be completed this week
      - Replace up to 25MW of Capacity with similar 1.1MW packaged units. Identify $14M of revenue funds recovered from LEAC.
      - Obtain CCU and PUC Approvals as necessary
      - This plan could take six to nine months to accomplish with incremental capacity increase during period
  - **4MW Caterpillar Diesel Units**: Expedite return to service of units requiring significant repairs or rehabilitation.
- Temporary or Long-Term Reserve Capacity
  - Pursue federal funding for 40 MW reserve capacity from FEMA, DOD or other entities. 40MW of new capacity would cost upwards of $80M which GPA does not have funding for. Consider contracting for temporary power for up to five years, if feasible and could be fast tracked.
- Energy Storage Battery 45 MW / 225 MWh:
  - Pursue approval to bid for ESS to shave peak demand and which could be charged by daytime solar PV or available conventional units.

Generation Capacity Shortfall: Capacity Recovery Action Plan (con't)

Plan of Action for Capacity Recovery Over Next 6 to 9 Months

COMMUNITY INVOLVEMENT

- Outreach
  - Launch campaign requesting our customers' help to reduce load shedding while lowering their energy bill
    - Provide actionable conservation measures:
      - Shut off *water heaters* during peak times. Lower water heater temperature setting.
      - Shut one or more *air conditioners* off during emergency load shedding periods.
      - Government employees, schools and businesses to place their air conditioning thermostats at 75˚F or higher after work. Turn off air conditioners after working hours, if possible.
      - Start this campaign with GPWA employees.
- Information
  - Issue a load shedding schedule for a month at a time
    - Explain when 1-hr or several hours-long outages could occur
    - Issue capacity alert scenarios as early as possible, which triggers the length/extent of outages