GPWA MEETING

Presentation To:
Consolidated Commission on Utilities
JANUARY 24, 2023

ISSUES FOR DECISION

GPA Resolution No. FY2023-07

Cancellation of the Cabras 41MW Reserve Unit

GPA RESOLUTION NO. FY2023-07
CANCELLATION OF THE CABRAS 41MW RESERVE FACILITY

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

Guam Power Authority (GPA) contracted with Guam Ukudu Power (GUP) for the construction of the Ukudu Power Plant and associated forty-one (41) MW reserve facility.

The 41MW reserve facility was required to be relocated to the Cabras industrial area to ensure the Ukudu Power Plant could be constructed using a minor source permit. The GUP lenders required that GUP and GPA obtain legislative approval for an exemption to construct the reserve facility within 1,200 feet of a school, and legislative approval of a 30-year lease for both the Ukudu and Cabras lots.

The GUP contractor Doosan indicated that the 41MW reserve facility contract would need to be finalized prior to March 31, 2022, otherwise costs would increase substantially due to increased labor and material costs.

The 41MW reserve facility contract could not be finalized by March 31, 2022, as PL 36-91 was signed April 11, 2022, and PL 36-104 was signed June 15, 2022, and when GPA approached GUP and Doosan costs had increased substantially rendering the project not economically feasible, which resulted in GPA's decision to cancel the 41MW reserve facility.

GPA Resolution No. FY2023-08

Line Extension Policy

GPA RESOLUTION NO. FY2023-08
LINE EXTENSION POLICY

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

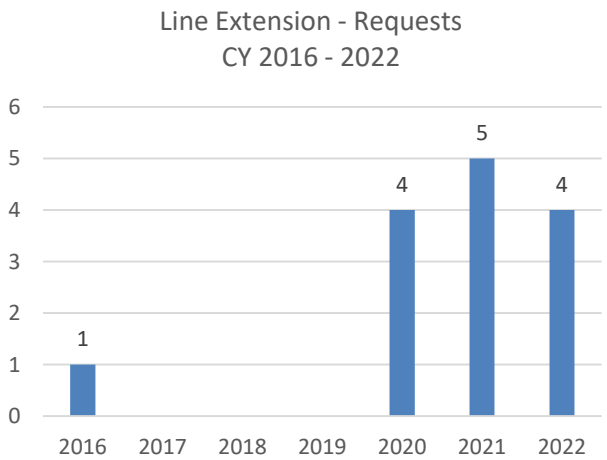
The Guam Power Authority (GPA) line extension policy is set forth in 28 GAR §3136 and 3139, which provides that private or government owned electric lines beyond the service delivery point must be constructed and maintained without expense to the Authority.

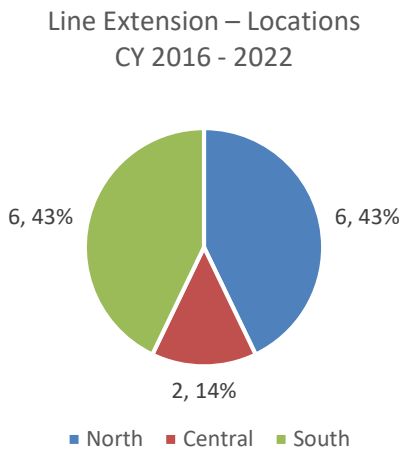
The current line extension policy provides that payment made by the new customer for a line extension may be partially refunded if additional customers connect within five (5) years from the date the extension is ready for service.

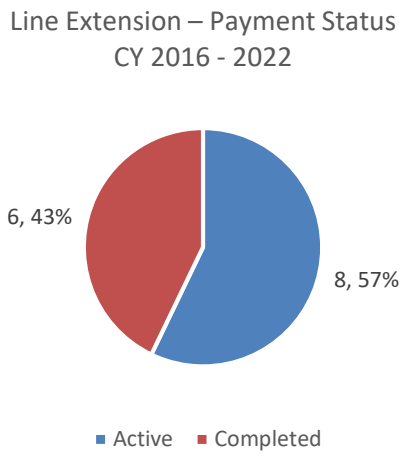
The GPA proposes to modify the line extension policy from five (5) to fifteen (15) years to allow additional time for customers who pay for a line extension to be partially refunded if additional customers connect to the line extension within that period.

LINE EXTENSIONS - CY 2016 - 2022

Date	Term (months)	Amount	Balance	Avg Mo Payment	Payment Status
9/23/2022	15	$ 15,194.16	$ 9,117.12	$ 1,012.94	Active
9/21/2022	4	$ 1,500.00	$ 175.00	$ 375.00	Active
9/21/2022	24	$ 30,604.14	$ 30,604.14	$ 1,275.17	Active
3/3/2022	24	$ 9,886.65	$ 2,860.00	$ 411.94	Active
11/19/2021	12	$ 3,612.95	$ -	$ 301.08	Completed
11/4/2021	24	$ 8,591.36	$ 1,171.68	$ 357.97	Active
9/13/2021	18	$ 8,730.80	$ 2,711.15	$ 485.04	Active
8/5/2021	3	$ 4,558.14	$ -	$ 1,519.38	Completed
7/12/2021	60	$ 29,030.15	$ 16,727.13	$ 483.84	Active
8/13/2020	24	$ 14,929.55	$ -	$ 622.06	Completed
6/23/2020	4	$ 3,118.42	$ -	$ 779.61	Completed
3/12/2020	6	$ 22,161.81	$ -	$ 3,693.64	Completed
2/24/2020	3	$ 2,307.11	$ -	$ 769.04	Completed
8/19/2016	60	$ 169,951.92	$ 44,072.15	$ 2,832.53	Active







GPA Resolution No. FY2023-09

Contract Extension For Piti 8&9 Units

GPA RESOLUTION NO. FY2023-09 (TABLED)

Independent Power Producer (IPP) Contract Extension for Piti 8&9 Units

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

The Marianas Energy Corporation (MEC) Contract for Operation, Maintenance and Re-capitalization of Piti 8&9 expires January 2024. Piti 8&9 are the most reliable and efficient units in the GPA System and must be operated and maintained by experienced management, operations and maintenance personnel most especially during the next few years until the new Ukudu Power Plant and Phase IV renewables are commissioned. The Piti Plant has been managed, operated and maintained by the Independent Power Producer MEC since the commissioning of the units in 1999 and the contract was extended by the CCU and the PUC in 2018. This resolution is for an additional extension of five(5) years in order to continue providing reliable low cost energy for our ratepayers as GPA transitions to the New Ukudu power Plant and 50% renewables by 2030

Where is the location?

Piti Units 8&9 are located on Cabras Island, Piti.

How much will it cost?

The Annual O&M cost is approximately $10.3M; cylinder lube oil and engine emulsifier are passed thru at cost estimated at about $2.9M annually

When will it be completed?

The contract extension is for the period January 2024 thru January 2029.

What is its funding source?

Revenue funds

GUAM CCU

GUAM POWER AUTHORITY GPA POWER TO SERVE

Capacity (MW) Projections

Date:	CY 2023	CY 2024	CY 2025	CY 2026	CY 2027	CY 2028	CY 2029	CY 2030
Current Operable Capacity								
Ukudu Power Plant Commissioned (CY 2025)			198	198	198	198	198	198
Cabras Steam (Retired CY 2025)	100	100						
Piti 8&9 (MEC)	88	88	88	88	88	88	88	88
BASELOAD TOTAL	188	188	286	286	286	286	286	286
NON-BASELOAD TOTAL	161	161	161	161	161	161	161	161
TOTAL CONVENTIONAL CAPACITY	**349**	**349**	**447**	**447**	**447**	**447**	**447**	**447**
Full Shifting Renewables (Firm Capacity)								
Phase IV CY 2023 Bid-COD CY 2026 (50% Firm)				90	90	90	90	90
Phase V CY 2025 Bid-COD CY 2028 (50% Firm)						90	90	90
Firm ESS Capacity				**90**	**90**	**180**	**180**	**180**
TOTAL FIRM CAPACITY:	**349**	**349**	**447**	**537**	**537**	**627**	**627**	**627**
Peak Demand (2% Growth)	265	270	276	281	287	293	298	304
Minimum Reserve (55%of Peak Demand)	146	149	152	155	158	161	164	167
Capacity Balance	**-62**	**-70**	**20**	**101**	**92**	**173**	**164**	**155**

Reliability period of concern

Cautionary Period during ESS Mobilization

Piti 8&9 Annual Cost

Fiscal Year	Fuel Handling	Other Contractual	Total O&M	Monthly Average	Capital Projects Completed
FY2019 *Feb-Sept*	$ 1,654,846	$ 5,902,587	$ 7,557,433	$ 944,679	$ 1,444,179
FY2020	$ 1,938,304	$ 9,135,527	$ 11,073,831	$ 922,819	$ 3,865,510
FY2021	$ 1,789,002	$ 9,365,143	$ 11,154,146	$ 929,512	$ 2,519,393
FY2022	$ 2,545,125	$ 9,355,771	$ 11,900,896	$ 991,741	$ 1,199,014
FY2023 *thru Dec*	$ 410,830	$ 2,526,023	$ 2,936,854	$ 978,951	$ -
	$ 8,338,108	**$ 36,285,052**	**$ 44,623,160**		**$ 9,028,097**

A Reliable and Efficient Piti Plant Equates to Lower LEAC

As of:	Dec-22
Piti ULSD $/bbl	**$ 120.65**
Reserve ULSD $/bbl	**$ 123.43**
Cabras 0.2%LSRFO	**$ 141.05**

Base Load Plant:	Net kWh/Gal	Fuel $/gal	$/Net kWh	Variance
Piti 8/9	15.40	$ 2.87	**$ 0.1865**	
Cabras 1/2	**12.47**	**$ 3.36**	**$ 0.3197**	**$ 0.1332**

Non-Base Load Plants:	Net kWh/Gal	Fuel $/gal	$/ Net kWh	Variance
Medium Speed Diesels	13.70	$ 2.94	$ 0.2145	$ 0.0280
Yigo Diesel	12.31	$ 2.94	$ 0.2387	$ 0.0522
Yigo CT	11.48	$ 2.94	$ 0.2560	$ 0.0695
Macheche CT	10.93	$ 2.94	$ 0.2689	$ 0.0824
Piti 7	9.01	$ 2.94	$ 0.3262	$ 0.1397
Dededo CT	8.09	$ 2.94	$ 0.3633	$ 0.1768
Reserves Average:			**$ 0.2779**	**$ 0.0914**

Production Cost Comparison (MEC 8&9 Substantially Cheaper)

O&M COST:	FY 2022	FY 2021	FY 2020
MEC	$ 9,355,771	$ 9,365,143	$ 9,135,527
Cabras 1&2	$ 9,697,084	$ 9,297,848	$ 10,526,523
All Other Plants	$ 9,404,203	$ 10,352,632	$ 10,655,500

FUEL COST:			
MEC	$ 68,688,270	$ 57,424,638	$ 48,891,430
Cabras 1&2	$ 102,599,672	$ 76,140,667	$ 65,829,844
All Other Plants	$ 155,034,462	$ 56,196,390	$ 47,117,442

KWH PRODUCED:			
MEC	504,706,860	661,329,700	640,118,700
Cabras 1&2	615,429,000	685,785,000	700,778,000
All Other Plants	481,946,606	318,886,505	295,832,286

TOTAL O&M & FUEL COST / KWH PRODUCED			
MEC	**$ 0.155**	**$ 0.101**	**$ 0.091**
Cabras 1&2	$ 0.182	$ 0.125	$ 0.109
All Other Plants	$ 0.341	$ 0.209	$ 0.195

Contract Extension Cost Reasonable

Description:		CY 2023 Contract Year		New Contract CY 2024		Variance	% Change
Fixed O&M $/KW/Mo	$	7.380	$	7.730			
Rated KW		87,560		85,560			
Annual Cost	$	7,754,314	$	7,936,546	$	182,232	2.4%
Variable O&M	**$**	**1,493,316**	**$**	**1,548,624**	$	55,308	3.7%
Rate/kWh/mo		0.0027		0.0028			
Monthly kWh		46,090,000		46,090,000			
Fixed O&M	$	7,754,314	$	7,936,546			
Variable O&M	$	1,493,316	$	1,548,624			
Total:	**$**	**9,247,630**	**$**	**9,485,170**	**$**	**237,540**	**2.6%**

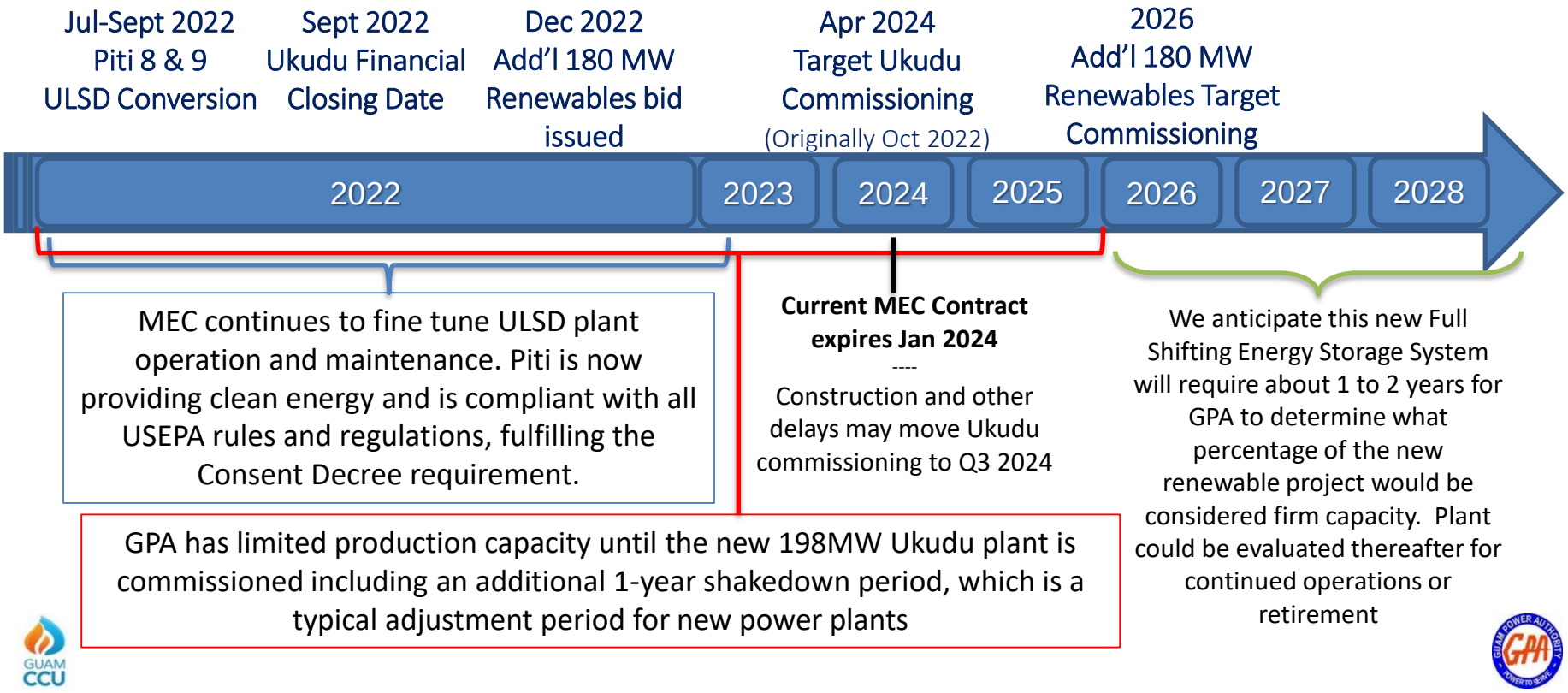
Increase of 2.6% substantially below inflation

Recapitalization/Major Overhaul to be approved by GPA per budget year

Justification for the 5-Year Contract Extension

OVERVIEW

- Piti's reliable capacity is crucial over the next five years as the new Ukudu 198 MW power plant is commissioned and Phase IV renewable bids with full shifting energy storage systems are awarded and commissioned in late 2026. The successful commissioning and operations of these two significant projects would allow GPA to retire aged legacy units between 2025 thru 2030. The reliable and efficient Piti plants are crucial for meeting energy demand at lower costs.



Justification for the 5-Year Contract Extension

CONTINUED RELIABILITY

- The Piti 8&9 88 MW plant has been and continues to be the most reliable plant in the system. Marianas Energy Corporation (MEC) Management, operators and maintenance employees have successfully operated the plant reliably for the past 24 years. MEC has all the institutional knowledge and experience in operating this complicated plant successfully and reliably. In addition, MEC has an established engine engineering, technical representatives and spare parts cadre of support

EFFICIENCY

- The Piti 8&9 plant is currently the most efficient plant in the system. Plant produces energy with ULSD at about 15.4 net kWh/gal and at today's oil prices is $0.09 to $0.13/Net kWh cheaper than Cabras and the reserve units. The plant produces over 600,000,000 kWh annually translating to anywhere from $55M to $80M in lower fuel cost in comparison to the other generators. Any decrease in reliability will result in an increase in LEAC negatively impacting our ratepayers.

COOPERATION

- MEC has requested for an expedited extension (letter attached) of their contract for another 5 years. MEC is experiencing difficulties retaining experienced employees because the current contract expires January 2024 and job security has become a major concern amongst its employees. The military buildup has been attracting employees away from MEC , similarly to GPA.

I recommend the MEC contract be extended another 5 years in view of the critical importance. The plant is certainly crucial to meeting energy needs until the new Ukudu plant is commissioned and stable and as we commission more renewables to achieve 50% renewables by 2030.

GPA Resolution No. FY2023-10
Adjustment to the Power Pole Attachment Rate

GPA RESOLUTION NO. FY2023-10
ADJUST THE POWER POLE ATTACHMENT RATE

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

The most common visual elements of the utility industry are the transmission towers and utility power poles delivering electricity, and often these poles are used for transporting other important products and services offered by third parties, such telecommunications, and cable services.

The process by which communication and cable companies can collocate its infrastructure on existing utility poles are termed pole attachment; and this reduces the number of poles to be built to accommodate utility services thus reducing the costs to end users by allowing cost share.

The Guam Public Utilities Commission (GPUC) is authorized to examine, establish, and modify rates and charges for utility services.

in January 2011 the GPUC determined it appropriate to postpone consideration of permanent pole attachment rates until the pending Federal Communications Commission (FCC) rulemaking proceeding regarding pole attachment rate formulas is concluded.

The FCC updated the pole attachment rate formula in 2015 under FCC 15-151; where FCC adjusted the telecom formula to bring greater parity between telecom and cable rate formulas and GPA seeks for the adjustment of the current pole attachment rate.

GPA currently charges pole attachments for about 26,000 poles to five private telecommunications and cable companies and the proposed rate adjustment projects an increase of pole attachment revenue by $6,538 per month and $78,450 per annum.

What would it cost?

GPA seeks for the adjustment of the current pole attachment rate by three dollars ($3.00) per pole attachment ($0.25 cents per month) from six dollars ($6.00) to nine dollars ($9.00) annually for the next three years.

Pole Attachment Summary

- PUC approved the $6 annual pole attachment interim rate on January 31, 2011.
  - The order postponed consideration of permanent pole attachment rates until the Federal Communications Commission rulemaking proceedings regarding pole attachment rate formulas is concluded.
  - 2011 updated order of section 224 limited the capital cost recovery to bring telecom and cable closure together.
  - 2015 updated the discount for multiple attachers.
- FFC established formulas for determining pole attachment rates for cable and telecommunication attachments.
  - Telecom Formula:
    - 47 U.S.C. §224(e) *Regulations Governing Charges; Apportionment of Costs of Providing Space*.
  - Cable Formula:
    - 47 U.S.C §224(d) *Determination of Just and Reasonable Rates; "Usable Space" Defined*.
- Attachment rate:
  - Telecom Formula - $17.13
  - Cable Formula - $14.82
- Current power pole attachment rate is $6.00 (50 cents per month) annual per attachment
- Proposal - Increase by $3.00 annual per pole attachment for next 3 years.

Pole Attachment Formula

Cable Formula:

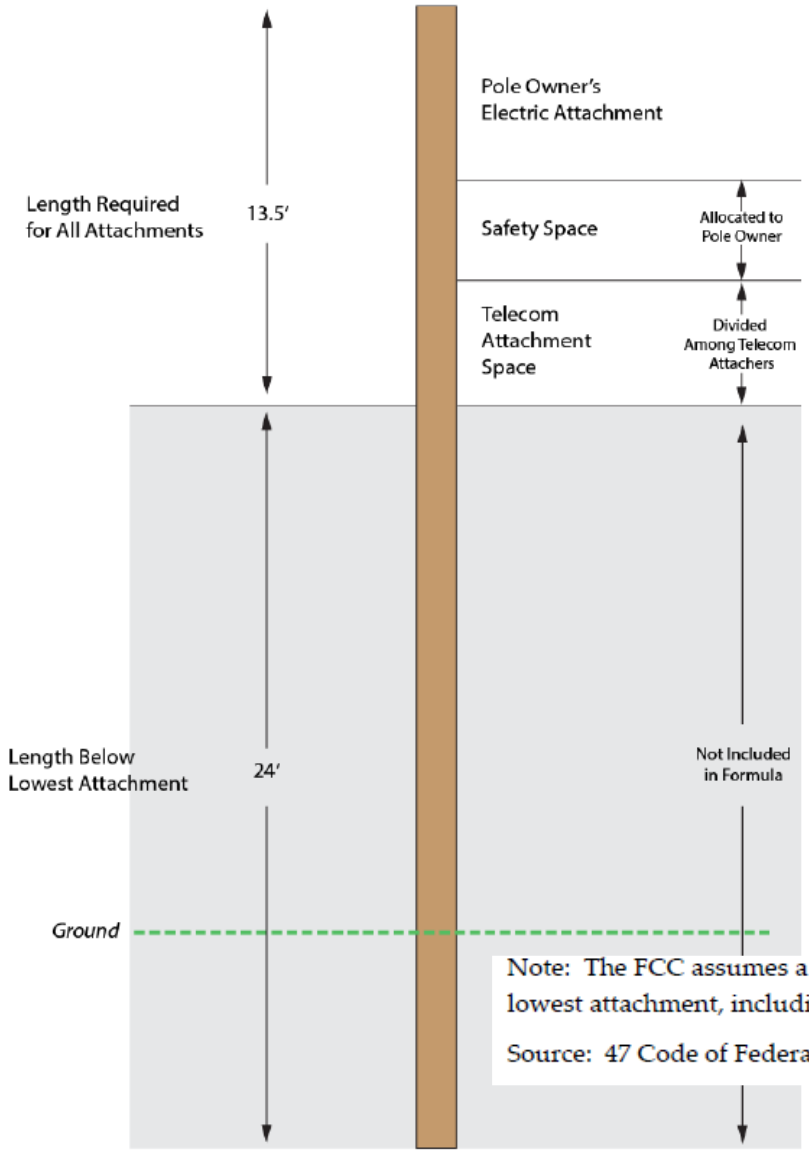
$$Fee = \left(\frac{Space\ Occupied\ by\ Attacher}{Space\ Used\ by\ All\ Attachments} \right) x\ (Estimated\ Annual\ Pole\ Cost)$$

- ***Space Occupied by Attacher***
  - Based on increments of 1 foot
  - Rate calculated is a per foot rate which is typical for most attachments
- ***Space Occupied by All Attachments***
  - Total footage of pole available for attachments.
  - FCC assumes that an average pole of 37.5’ has 13.5’ feet of usable space for attachments
- ***Estimated Annual Pole Cost***
  - Identified as the net cost of a bare pole multiplied by carrying charge rate which are maintenance, depreciation, administration, taxes and return on investment allocation

Source: 47 CFR § 1.1409(e)(1); 47 CFR § 1.1418

Pole Attachment Formula (continued)

FCC Cable Formula Space Allocation Diagram



Note: The FCC assumes a 37.5 foot pole with 13.5 feet required for attachments and 24 feet below the lowest attachment, including the length in the ground.

Source: 47 Code of Federal Regulations 1.1418.

Pole Attachment Formula (continued)

Telephone Formula:

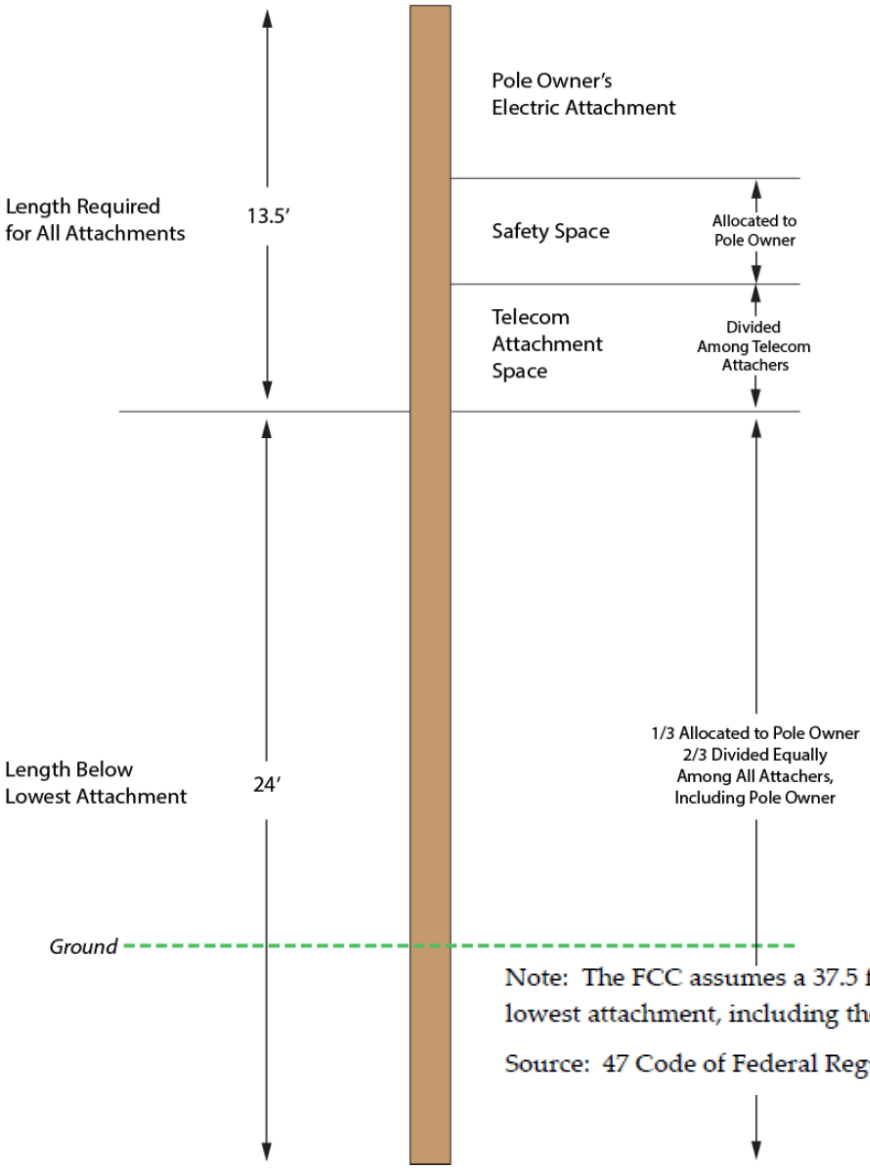
$$Fee = \left(\frac{Space\ Occupied\ by\ Attacher + \frac{2}{3}\left(\frac{Space\ Below\ Lowest\ Attachment}{Total\ \#\ Attachers}\right)}{Total\ Pole\ Length} \right) \times (Est.\ Annual\ Pole\ Cost)$$

- ***Space Occupied by Attacher***
  - Equals the actual space in feet required for the attachment
- ***Space Below Lowest Attachments***
  - Includes all of the pole that is buried underground
  - FCC assumes that an average pole of 37.5' has 13.5' feet of usable space for attachments
- ***Total # Attachers***
  - Includes the electric attachers
- ***Estimated Annual Pole Cost***
  - Identified as (net cost of a bare pole) x (carrying charge rate) x (31% if two total attachers)

Source: 47 CFR § 1.1409(e)(2)(ii); FCC 15-151 (2015); 47 CFR § 1.1418

Pole Attachment Formula (continued)

FCC Telephone Formula Space Allocation Diagram



Note: The FCC assumes a 37.5 foot pole with 13.5 feet required for attachments and 24 feet below the lowest attachment, including the length in the ground.

Source: 47 Code of Federal Regulations 1.1418.

Calculation

- The net cost of a bare pole was identified as $1,364:

Net Cost of a Bare Pole:	
Appurtence Allowance	0%
Gross Investment in Poles (364)	$ 69,039,556
Accumulated Pole Depreciation (364)	$ 27,186,872
Net Cost of a Bare Pole	$ 1,364

The FCC formula allows for 15% Appurtenance allowance for crossarms to estimate the cost of a bare pole. As the pole database was used the net cost does not need to be reduced.

Height	35	45	50	55	Total
Concrete					
Count	8,196	17,178	313	1,527	27,214
Cost	$ 16,728,118	$ 43,166,062	$ 820,713	$ 5,989,982	$ 66,704,875
Accumulated Depreciation	$ (6,093,089)	$ (16,658,414)	$ (480,287)	$ (2,548,232)	$ (25,780,022)
Wood					
Count	2,235	1,227			3,462
Cost	$ 1,412,316	$ 922,364	$ -	$ -	$ 2,334,680
Accumulated Depreciation	$ (875,674)	$ (531,175)	$ -	$ -	$ (1,406,849)
Total					
Count	10,431	18,405	313	1,527	30,676
Cost	$ 18,140,434	$ 44,088,426	$ 820,713	$ 5,989,982	$ 69,039,555
Accumulated Depreciation	$ (6,968,763)	$ (17,189,589)	$ (480,287)	$ (2,548,232)	$ (27,186,871)

Calculation (Continued)

- Administration carrying charge:

Administration Adder		
Total Administration Expenses (920-932)	$	43,661,890
Plant NBV	$	429,097,427
Admin Rate		**10.2%**

- Maintenance carrying charge:

Maintenance Adder		
Pole Maintenance Expenses (593)	$	1,611,853
Gross Poles, Towers and Fixtures (364)	$	**69,039,556**
Gross Overhead Lines and Conductors (365	$	30,278,948
Gross Services (369)	$	9,268,761
AD Poles, Towers and Fixtures (364)	$	**27,186,872**
AD Overhead Lines and Conductors (365)	$	(16,828,923)
AD Services (369)	$	(7,194,237)
Maintenance Rate		**2.0%**

Source: Accounting data from the 2020 audit

Calculation (Continued)

- **Depreciation carrying charge:**

Depreciation Adder	
Pole Life (years)	43.06
Depreciation Rate	2.3%

- Rate of Return carrying charge from COS:

Rate of Return	5%

- Total carrying charge = 10.2% (Admin) + 2% (Maintenance) + 2.3% (Depreciation) + 5% (Return)
- Total carrying charge = 19.5%
- Annual Carrying Cost = $1,364 (Net Bare Pole Cost) * 19.5% (Total carrying charge) = $266
- From the pole database the average pole height was identified as 42.1’ which equates to 17.9’ of usable space for attachments.
- The calculated rate per foot is **$14.82** ($266 (carrying cost)/17.9’ (usable space))

Source: 47 CFR § 1.1409(e)(1)

Impact on Attachers

- GPA currently charges attachers $6.00 (50 cents per months) annually per attachment or annual revenue of $156,900.
- Recommend that the pole attachment rate increase by $3 per pole attachment (25 cents per month) annually for the next 3 years.
- Monthly revenue to increase by $6,538 per month, annual $78,450 for the first year.

- The following table details the dollar effect for current attachers per month in the first year.

	Docomo	IT&E	GTA	PDS	DMR
Attachments	25000	903	143	84	20
Monthly Charge Current	$12,500.00	$ 451.50	$ 71.50	$ 42.00	$ 10.00
Monthly Increase ($0.25)	$ 6,250.00	$ 225.75	$ 35.75	$ 21.00	$ 5.00
Proposed Month Charge	$18,750.00	$ 677.25	$ 107.25	$ 63.00	$ 15.00

GPA Resolution No. FY2023-11

Multi-Step Bid (MSB) for Property Insurance

GPA RESOLUTION NO. FY2023-11
PROCURE PROPERTY INSURANCE FOR FY'2024 TO FY'2026

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

CCU has determined that it is a prudent and reasonable business practice to maintain insurance coverage on Guam Power Authority's (GPAs) assets to the extent practical. GPA's Bond Indenture agreement requires GPA to "secure and maintain property insurance on all facilities constituting the system against risks of loss or damage to the extent that such insurance is obtainable at reasonable cost

The indenture further requires GPA to carry insurance "of a scope and nature as that usually carried in the industry." The contract review protocol established by the Public Utilities Commission (PUC) requires that all contracts in excess of $1.5 million be authorized by the PUC in advance of the procurement.

The current property insurance cost for FY'2023 is $6.67 million and this procurement will exceed the PUC contract review threshold. GPA's existing Property Insurance policy including Boiler and Machinery coverage and Terrorism coverage will expire on November 1, 2023.

GPA desires to issue its insurance Multi-step bid as soon as possible in order to allow sufficient time for insurance vendors to prepare their bid.

When will it be completed?

The term of the insurance bid being requested will be for a three (3) year period (FY'2024 thru FY'2026) with options for two (2) additional one (1) year extensions.

What is its funding source?

Revenue funds

GM REPORT

JANUARY 2023

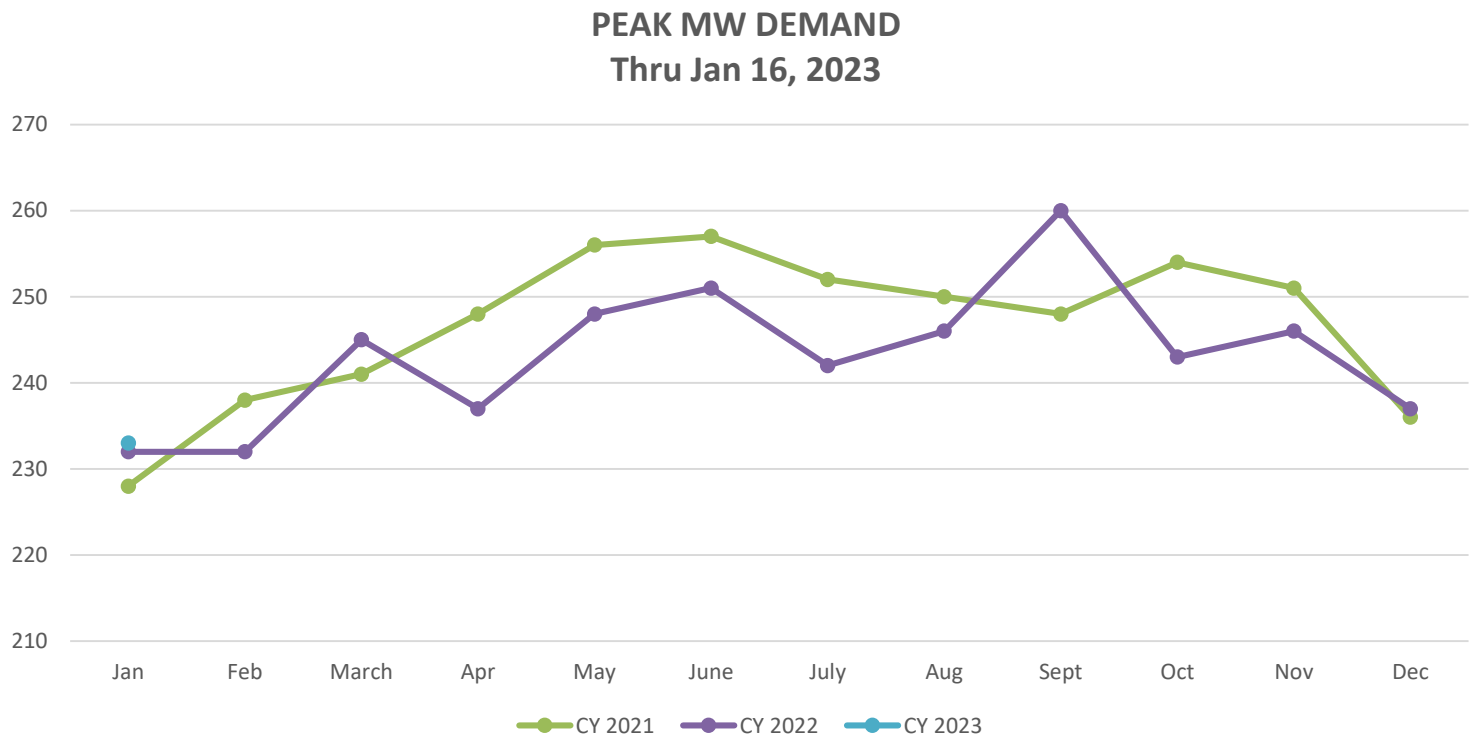
Generation Status

1. **Reserve Margin Forecast for February 2023:**

   Projected Available Capacity: 291 MW
   Projected Demand: 232 MW
   Anticipated Reserve Margin: 59 MW

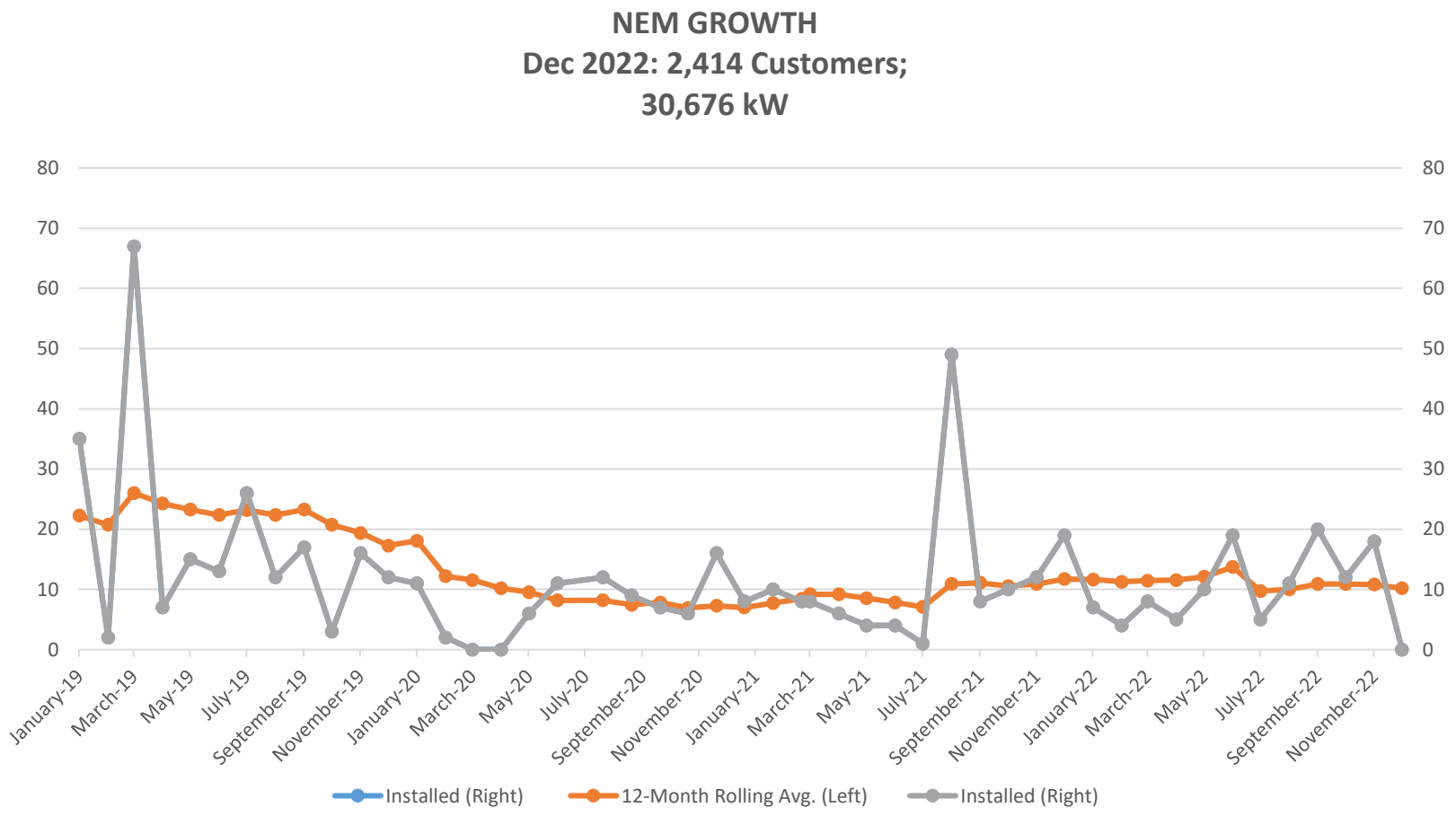
   Cabras #2 under major overhaul until February 15th, 2023

2. **System Peak Demand:**



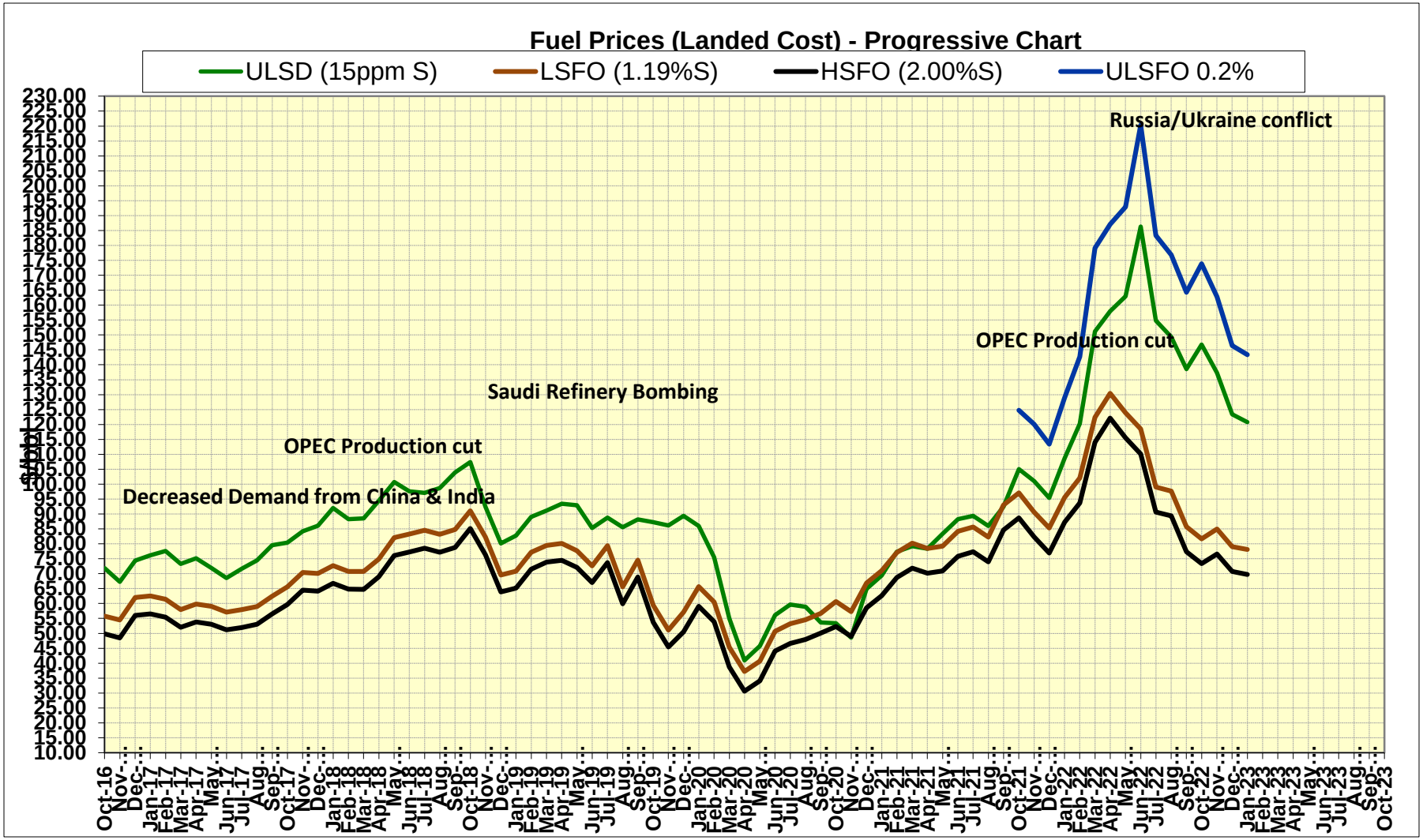
Net Metering (NEM)

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



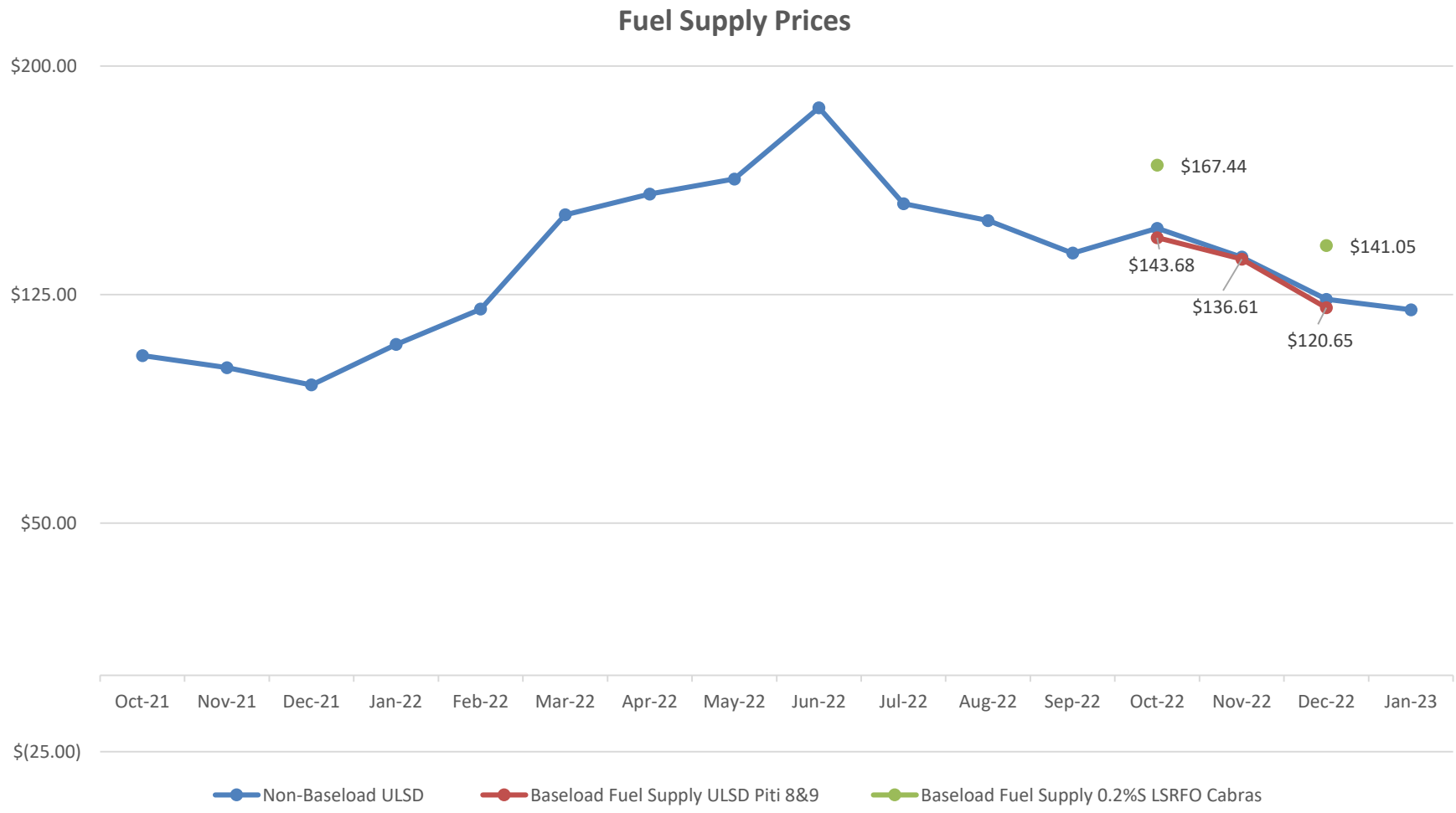
GPA Fuel Landed Cost (Per Barrel) Thru Jan. 12, 2023

4. 0.2% LSRFO $143.35 ; ULSD $120.81



Fuel Oil Landed Prices

5. Fuel Oil Landed Prices



General Manager's Report (cont'd)

6. PUC Update:

Current GPA Docket on PUC Agenda (Thursday, January 26, 2023):

GPA Docket 23-06, LEAC Filing, Authorizing the Management of the Guam Power Authority to Petition the Guam Public Utilities Commission to Maintain the Levelized Energy Adjustment Clause (LEAC) for the Period from February 1, 2023 to July 31, 2023

GPA Dockets - Thursday, December 29, 2022 Meeting:

- GPA Docket 23-04, Filing of Approved Contracts and Obligations for FY2022 – Filed
- GPA Docket 23-05, Petition for Approval of Extension of the ULSD Tank Lease Agreement with TriStar - Approved

GPA Dockets - Tuesday, November 29, 2022 Meeting:

- GPA Docket 23-02, Petition for Contract Review Relative to the Approval of Engineering, Procurement and Construction Management (EPCM) Contract with Stanley Consultants, Inc. - Approved
- GPA Docket 23-03, Petition for Contract Review Relative to Authorization of Guam Power Authority to Award Property Insurance -Approved

7. Update on Ph. IV 180+ MW Renewable Energy Bid:

Announced:	12/1/22
Registered Vendors:	11 registered
Current Proposal Deadline:	**4/14/23** - extended 49 days from 2/23/23 due to request for extension on questions submittal deadline and allowance for GPA to prepare responses.
Bid Status:	Issued 3 amendments, questions received are being reviewed and responses being prepared.

General Manager's Report (cont'd)

7. Update on 180+ MW Renewable Energy

Current Bid Milestones (Amendment III)

Bid Milestones		From Date	To Date
Bid Announcement		12/01/2022	02/24/2023
Submit Questions		12/01/2022	02/07/2023
Cut Off Date for Receipt of Questions		**02/07/2023 - 4:00 P.M. (CHST)**	
GPA Review and Answer Questions		02/08/2023	03/24/2023
Vendor Prepare Bids		03/25/2023	04/14/2023
Cut Off Date for Receipt of Proposals	**(Technical and Price Proposals)**	**04/14/2023 - 2:00 P.M. (CHST)**	
EVALUATION	Technical Proposal Evaluation	04/17/2023	04/28/2023
Step One:	Notification of Qualified Bidders	05/01/2023	05/05/2023
EVALUATION	Opening of Price Proposals (Public Opening)	**05/23/2023 - 2:00 P.M. (CHST)**	
	Evaluation of Price Proposal	05/24/2023	05/26/2023
Step Two:	Notification of Successful Bidder(s)	05/29/2023	06/02/2023
System Integration Study		TBD	TBD
Contract Finalization		TBD	TBD
Contract Approval & Recommendation to Award		TBD	TBD
Public Utilities Commission Review		TBD	TBD
Contract Signing		TBD	
Contract Mobilization		TBD	TBD
CONTRACTOR Operational Commencement		TBD	

General Manager's Report (cont'd)

8. Legislative Updates

- 37th Guam Legislature:
  - Senator William Parkinson, Chairperson of the Committee on Fire, Agriculture, Power and Energy Utilities, Public Transit, Unemployment Insurance and Universal Health Insurance, has legislative oversight over GPA. GPA congratulates Sen. Parkinson on his successful legislative bid and welcomes him as a utility partner.
- Change Existing Protest and Local Preference Mandates:
  - GPA's Phase III renewable energy project underwent a two (2) year protest period. The renewable project intended award was to vendor, Engie. The protest which took two years to resolve, although in GPA favor, resulted in delaying the project to the point where the inflationary and supply issues at the time made it too risky for Engie to proceed. GPA had to cancel the Phase III bid.
  - Existing laws favors protestor and significantly imbalanced resulting in loss savings to community
  - GPA is seeking legislative sponsor(s) to introduce legislation to amend an adjust local preference laws to be relevant to renewable procurement. Existing 15% local preference seems intended for product procurement and not long-term energy contracts which would result in substantial cost to ratepayers.
  - GPA is also seeking legislation to provide consequences for protest costing community millions in lost savings.

General Manager's Report (cont'd)

8. Legislative Update (continued)

- Extension to the Prugråman Ayuda Para I Taotao-ta Energy Credit
  - Legislation to extend *Prugråman Ayuda Para I Taotao-ta Energy Credit Program*, was passed by the 36th Guam Legislature on Dec. 16, 2022, and signed into law by Governor Lou Leon Guerrero on Dec. 17. 2022. The $500 credit will be applied in $100 monthly increments from December 2022 to April 2023.
  - GPA received the first installment from the Department of Administration (DOA) on December 28, 2022 and applied the first $100 energy credit the next day for December 2022. GPA received a total of $5.27 million in electronic fund transfer from DOA, allowing the GPA to complete the global upload of the $100 credits to more than 50,000 active residential and commercial account holders on Dec. 2
  - The extension of the *Prugråman Ayuda Para I Taotao-ta Energy Credit program* will help many in need of assistance.

9. Customer Assistance Programs

- $1.132M (1,601 households) - Guam Homeowner Assistance Fund Program (HAF)
- $3.38M (2,011 households) - Emergency Rental Assistance Program (ERA)
- $5.27M (~51,000 residential, multi-meter, commercial accounts; December 2022) – *Prugråman Ayuda Para I Taotao-ta* Energy Credit

10. Customer Engagement & Community Outreach

- Latest GPA news and updates on projects, energy-saving tips, assistance, Clean Energy Master Plan, etc. is broadcasted through printed and e-newsletters, social media, advertisements, website, and outreach events.
- December highlights: Food and gift drives benefitting local non-profit organizations.

General Manager's Report (cont'd)

11. Succession Planning

- **UN DANGKULU SI YU'OS MA'ASE'!**
  - Mrs. Melinda C. Mafnas will retire from the Guam Power Authority after 31 years of service. On behalf of her GPA family, Congratulations Melinda!!!! Biba Melinda!!!!
  - Melinda joined the Authority in 1991 as an Electrical Engineer, proceeded up the ranks to be Engineering Manager and then to her current position as Assistant General Manager, Operation (AGMO). Our AGMO will be missed by her GPA family.
- **Apprenticeships & Training Programs**
  - The 19 participants of the *Plant Operator-Worker Training Program* are quickly progressing. The participants are paired with mentors in our Generation division, learning the trade of power plant maintenance and operations.
  - The 5th cycle Apprentices have nearly completed their T&D Apprenticeship Program and will be graduating soon.
  - The 6th cycle are about 1 year away from graduating
  - Internship programs have been established in several areas including Finance and IT

12. DSM Online Report – December 2022

APPLICATIONS

Month	Applications	Commercial	Residential
Aug-22	**217**	-	217
Sep-22	**479**	7	472
Oct-22	**474**	4	470
Nov-22	**514**	10	504
Dec-22	**480**	5	475
TOTAL	**2,164**	**26**	**2,138**

AVERAGE REBATE PER APPLICATION

Commercial	Residential
$ 225	$ 280

EQUIPMENT

Month	Equipment	Commercial	Residential
Aug-22	**315**	-	315
Sep-22	**666**	12	654
Oct-22	**689**	9	680
Nov-22	**697**	14	683
Dec-22	**652**	5	647
TOTAL	**3,019**	40	2,979

AVERAGE REBATE PER EQUIPMENT

Commercial	Residential
$ 146	$ 201

REBATES

Month	Rebate	Commercial	Residential
Aug-22	**$ 61,375.00**	$ -	$ 61,375.00
Sep-22	**$ 134,300.00**	$ 1,950.00	$ 132,350.00
Oct-22	**$ 139,100.00**	$ 1,450.00	$ 137,650.00
Nov-22	**$ 138,800.00**	$ 1,500.00	$ 137,300.00
Dec-22	**$ 131,350.00**	$ 950.00	$ 130,400.00
TOTAL	**$ 604,925.00**	**$ 5,850.00**	**$ 599,075.00**

** 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.*

12. DSM Online Report - December 2022

APPLICATION COUNTS PER STATUS

Month	Applications	Commercial			Residential		
		Processing	Approved	Denied	Processing	Approved	Denied
Aug-22	217	-	-	-	-	198	19
Sep-22	479	-	1	6	13	362	97
Oct-22	474	2	-	2	271	71	128
Nov-22	514	8	-	2	401	-	103
Dec-22	480	5	-	-	475	-	-
TOTAL	2,164	15	1	10	1,160	631	347

APPLICATION COUNTS PER PROGRAM

Month	Applications	Commercial				Residential			
		Split A/C Units	Central A/C Units	VRF A/C Units	Rooftop A/C Units	Split A/C Units	Central A/C Units	Window A/C Units	Washer/Dryer
Aug-22	217	-	-	-	-	192	-	15	10
Sep-22	479	7	-	-	-	404	-	29	39
Oct-22	474	4	-	-	-	413	-	19	38
Nov-22	514	10	-	-	-	432	-	16	56
Dec-22	480	5	-	-	-	407	1	21	46
TOTAL	2,164	26	-	-	-	1,848	1	100	189

REBATES PER PROGRAM

Month	Rebate	Commercial				Residential			
		Split A/C Units	Central A/C Units	VRF A/C Units	Rooftop A/C Units	Split A/C Units	Central A/C Units	Window A/C Units	Washer/Dryer
Aug-22	$ 61,375.00	$ -	$ -	$ -	$ -	$ 57,375.00	$ -	$ 1,600.00	$ 2,400.00
Sep-22	$ 134,300.00	$ 1,950.00	$ -	$ -	$ -	$ 119,950.00	$ -	$ 3,400.00	$ 9,000.00
Oct-22	$ 139,100.00	$ 1,450.00	$ -	$ -	$ -	$ 126,350.00	$ -	$ 1,900.00	$ 9,400.00
Nov-22	$ 138,800.00	$ 1,500.00	$ -	$ -	$ -	$ 122,300.00	$ -	$ 1,600.00	$ 13,400.00
Dec-22	$ 131,350.00	$ 950.00	$ -	$ -	$ -	$ 116,500.00	$ 500.00	$ 2,600.00	$ 10,800.00
TOTAL	$ 604,925.00	$ 5,850.00	$ -	$ -	$ -	$ 542,475.00	$ 500.00	$ 11,100.00	$ 45,000.00

EQUIPMENT COUNTS PER PROGRAM

Month	Equipment	Commercial				Residential			
		Split A/C Units	Central A/C Units	VRF A/C Units	Rooftop A/C Units	Split A/C Units	Central A/C Units	Window A/C Units	Washer/Dryer
Aug-22	315	-	-	-	-	287	-	16	12
Sep-22	666	12	-	-	-	575	-	34	45
Oct-22	689	9	-	-	-	614	-	19	47
Nov-22	697	14	-	-	-	600	-	16	67
Dec-22	652	5	-	-	-	566	1	26	54
TOTAL	3019	40	-	-	-	2,642	1	111	225

** 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.*

New Power Plant Update

13. 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.

Critical Path & Risk Items

Delays on Permit Approvals

- Construction Permits
- NPDES Permit
- **Heavy Haul Transportation Permit**

Construction Mitigation

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

General Manager's Report (cont'd)

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

Ongoing / Pending:

- Archaeological & Cultural Requirements:
  - ✓ Section 106 process for cultural survey on Navy properties (Harmon Substation) revised submitted being delivered to SHPO for final approval. Navy to complete NEPA documents upon final approval once SHPO provides review response to allow for construction activities on the bull cart trails along pipeline route and in the Harmon Substation.
  - ✓ Archaeological monitoring for pipeline construction work (Chaot & Nimitz areas).
- Water & Wastewater Requirements:
  - ✓ Change of Law issues due to update GWA NPDES permit affecting discharge of wastewater from cooling system. Follow-up with GWA on the NPDES permit modification.
- Construction Permit & Drawing Reviews:
  - ✓ Interconnection and pipeline design documents are being reviewed for approval.
- Reserve Facility:
  - ✓ Increased costs require cancellation of the reserve facility
- 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
  - ✓ Attending transportation logistic meetings for heavy transport to Ukudu from Port.

General Manager's Report (cont'd)

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

Completed:

- EPC Contract – Doosan
- Height Variance for Ukudu Site
- Financing Contracts Signed – Equity Bridge Loan in place. Senior loan requires air permit and land lease legislation for funds drawdown.
- Down payment to Siemens to secure Turbine Order (long lead item)
- Survey Maps for land lease recorded at Dept. of Land Management
- Phase I for Ukudu Plant construction permit approved. Foundation work is ongoing.
- GUP 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.

Ongoing / Pending:

- Design / Permitting
  - ✓ 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. Contractors working with DPW on encroachment permit for areas crossing and along roadways. Initiated additional work area along Cesario Road in Mongmong.
    - Transmission Line – design and material specifications under review. Anticipating construction early 2023 pending permit approval.
- 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.

General Manager's Report (cont'd)

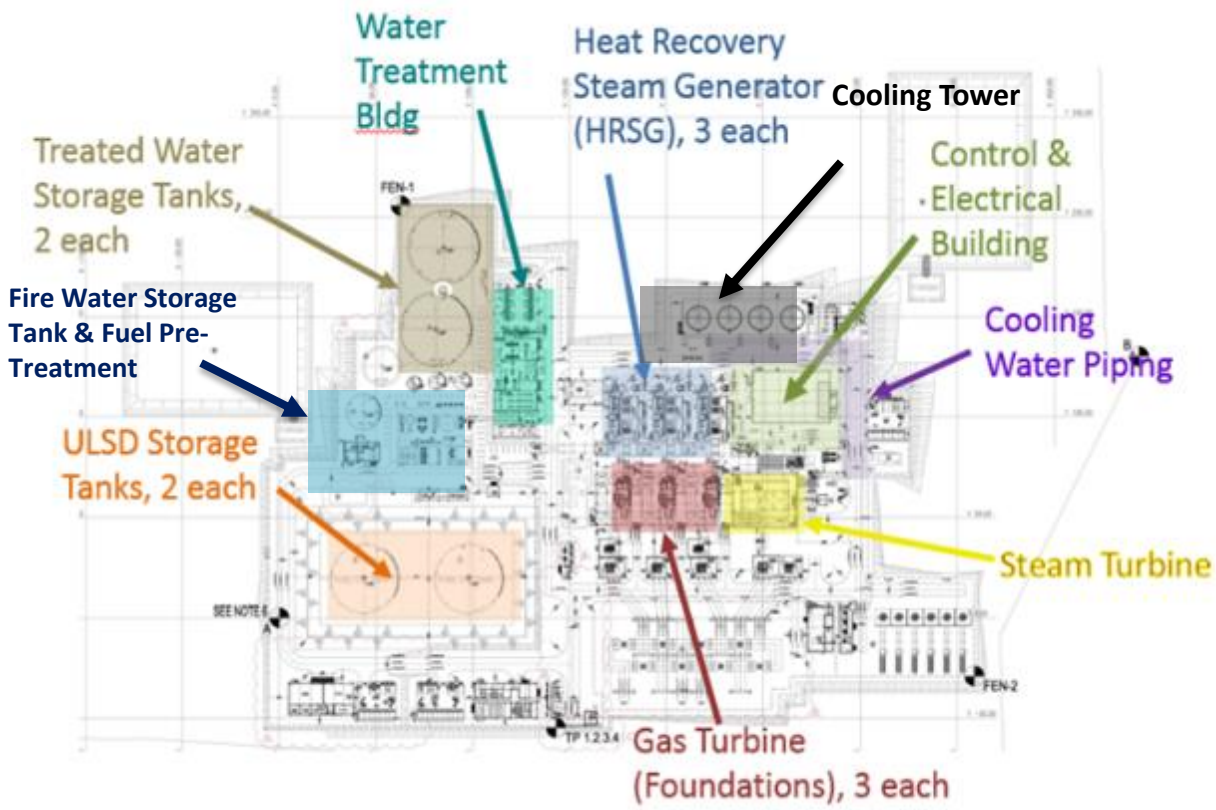
13. New Power Plant Update: GUP Activities (Contractor) *continued*

Ongoing / Pending: ***(continued)***

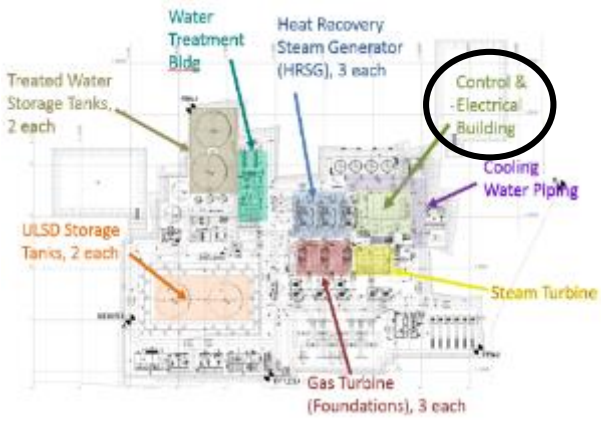
- Reserve Facility – GPA provided notice to GUP to cancel the Reserve Facility due to increased costs.
- Schedule Update – Plant and fuel pipeline continue to progress with concerns on potential schedule impact due to pipeline progress and delays of the heavy haul permit.
- Transportation Logistics – 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.
  - DPW and Doosan team finalizing insurance requirements to address damages due to the heavy haul.
  - Permit approval is still pending
  - Next heavy haul cargo is expected to arrive on Guam in early February 2023

Ukudu Power Plant Construction Status

Construction work ongoing with Control & Electric Building, Heat Recovery Steam Generator Inlet Ducts, Fuel Storage Tanks, Fire Water Tank, Fuel Pre-Treatment Area, Water Treatment Tanks, Gas Turbine Foundations, Steam Turbine Foundations, and Water Treatment Building progress. Further progress made on Cooling Tower Foundation. Began construction on Administration Building.



Ukudu Power Plant Construction Status



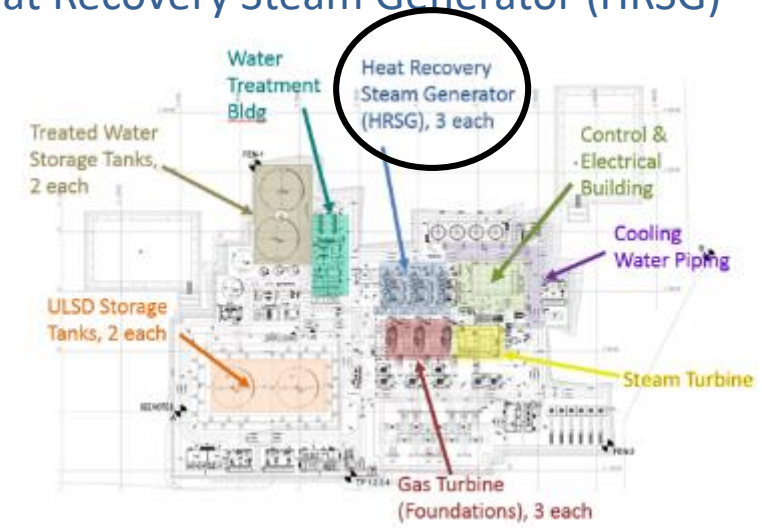


Control & Electrical Building – Steel frames



Ukudu Power Plant Construction Status

Heat Recovery Steam Generator (HRSG) – HRSG Inlet Duct Construction Ongoing



All 3 HRSG Inlet Ducts Installed



HRSG (#1 of 3): Foundation work ongoing



HRSG (#2 of 3): Foundation work ongoing

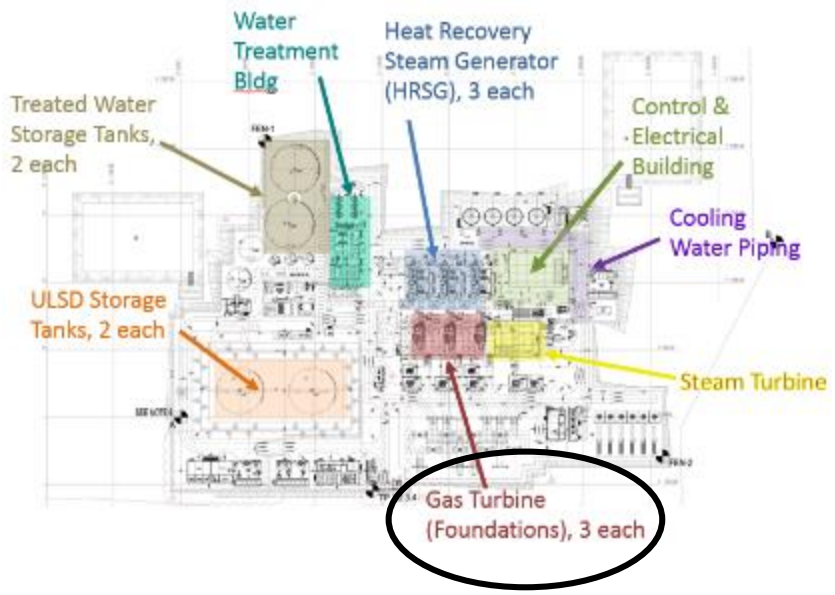




HRSG (#3 of 3): Foundation work ongoing

Ukudu Power Plant Construction Status

Gas Turbines Foundations



GT #3 - Foundation Work Ongoing



GT #2 – Foundation Work Ongoing



GT #1- Steel Frames Work Ongoing (Foundation Work Complete)





GUAM CCU

GPA

Ukudu Power Plant Construction Status

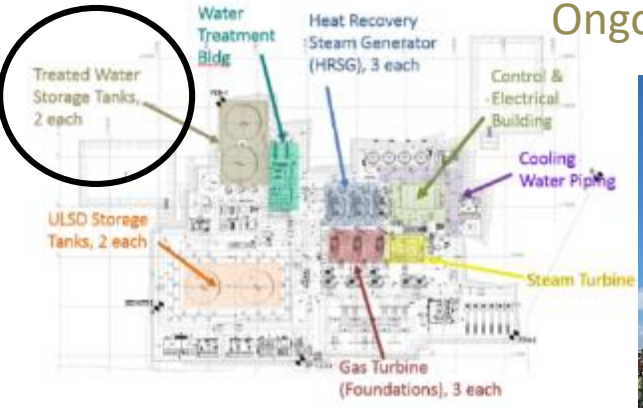
Treated Water Storage Tank 2 – 3nd Row of Steel Plates Ready to be Welded







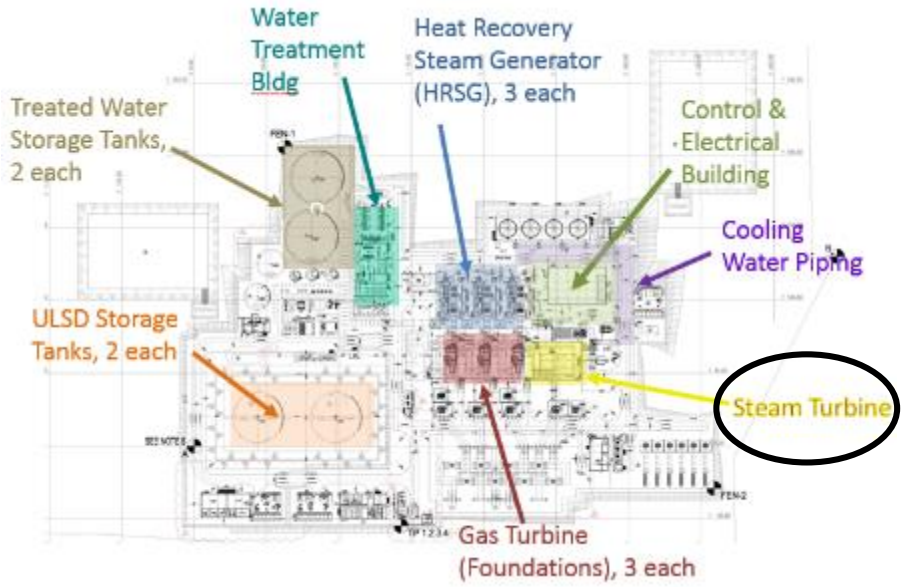
Treated Water Storage Tank 1 – 1st Row of Steel Plates Welding Ongoing







Ukudu Power Plant Construction Status



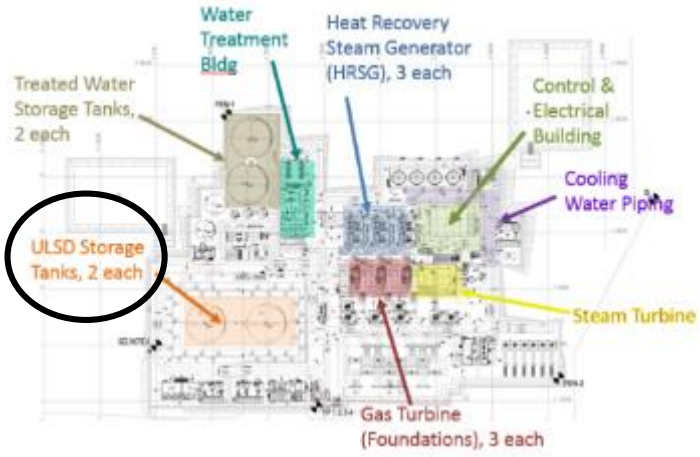
Steam Turbine Foundation – Rebar for Columns







Ukudu Power Plant Construction Status





ULSD Storage Tank #1&2 – Bottom Steel Plates

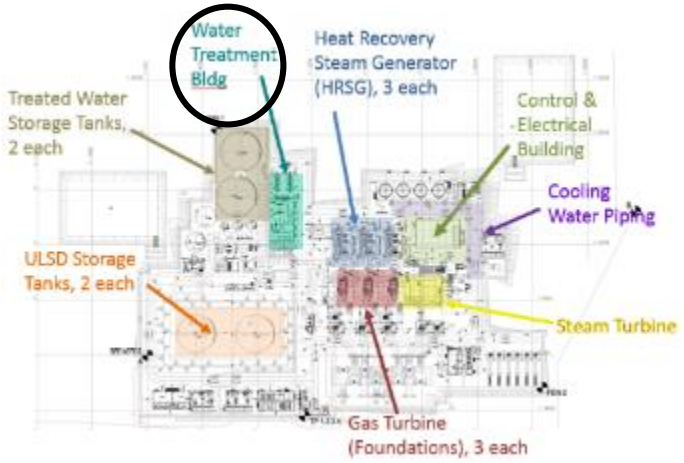


Ukudu Power Plant Construction Status

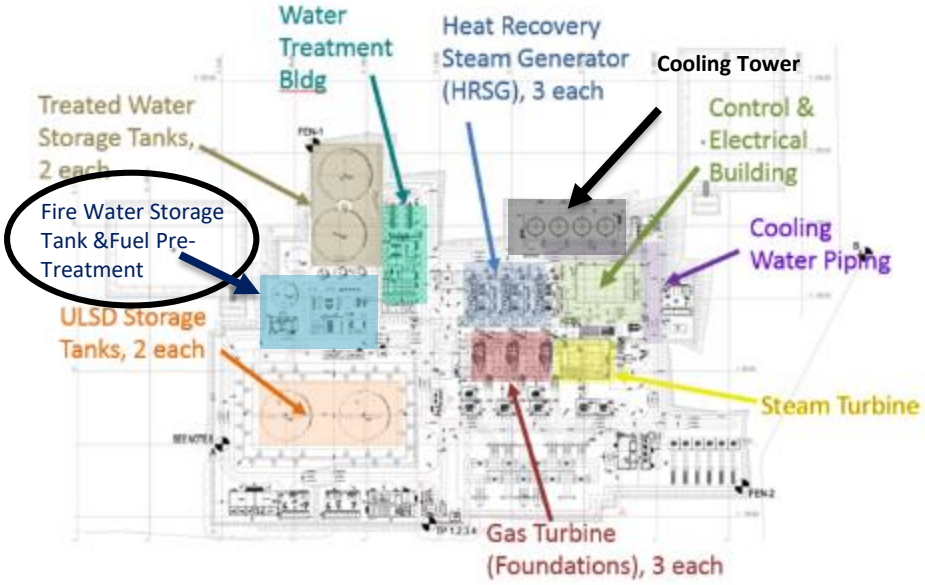
Water Treatment Building - Foundation







Ukudu Power Plant Construction Status



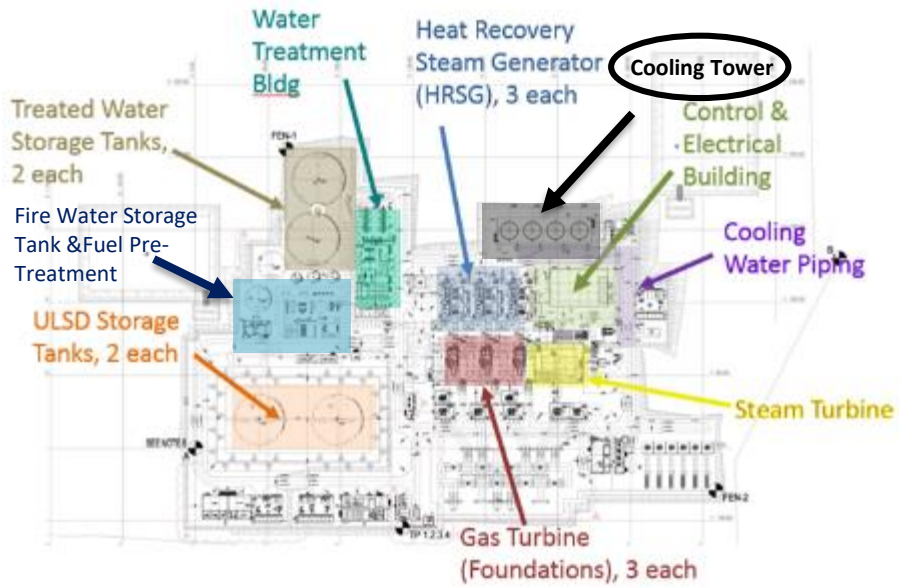
Fuel Pre-Treatment Foundation– Construction Ongoing



Fire Pump – Foundation Work Ongoing



Ukudu Power Plant Construction Status



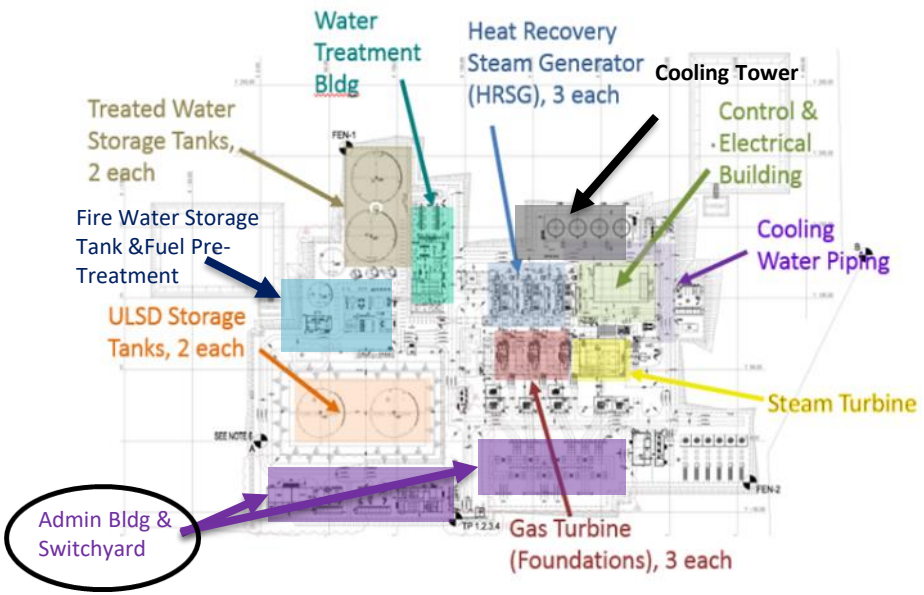
Cooling Tower & Pump – Foundation work in progress







Ukudu Power Plant Construction Status



Admin Building – Excavation work ongoing



Switchyard – Excavation work ongoing



Off Shore Progress

Major equipment updates include shipment of Gas Turbines 1&2 and other progress as noted below:



Gas Turbine #3 Assembly prep for shipment



HRSG Stack prep for shipment



Steam Generator factory testing



Steam Turbine HP/IP prep for shipment



Transformer manufacturing



Water treatment vessel manufacturing

Transportation

Four shipments of heavy cargo requiring the self-propelled modular transport and DPW permit for the heavy haul are listed below:

No.	Heavy Cargo Description	Arrival Date
1	Heat Recovery Steam Generator (HRSG) Modules (3 units x 4 modules = 12 pieces)	Nov. 2, 2022 (Arrived & at PAG)
2	Gas Turbine #1 , GT #1 Generator, Gas Turbine #2, GT #2 Generator	Early Feb. 2023
3	Gas Turbine Generator Transformer (3 each) & Steam Turbine Generator Transformer	Mid-Feb. 2023
4	Gas Turbine #3 , GT #1 Generator	End of Feb. 2023
5	Assembled Steam Turbine IP/LP, Hydraulic Power Unit, Condenser	April 2023

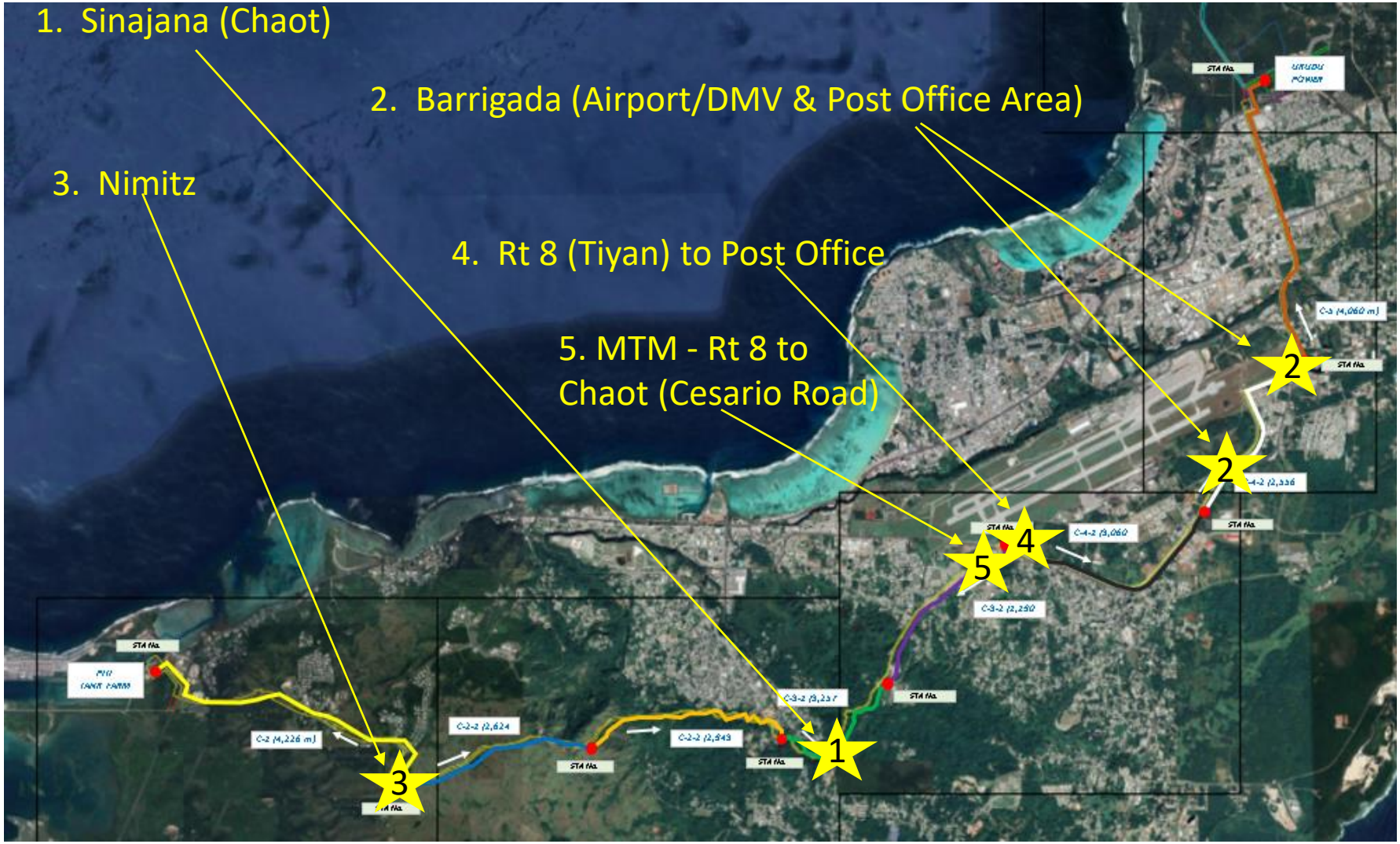
Doosan and their subcontractors are working with DPW on preparation for the initial move of the HRSG modules including median removal, adjustments to traffic signal heights, coordination with agencies and other utilities as well as media outreach.





https://www.poweronthemove.org/

Fuel Pipeline Construction Status



Fuel Pipeline Construction Status

1. Chaot area (100 M)

Initial test area completed final compaction in Aug 2022.



2. Barrigada - Airport / Across DMV

All pipeline installation and backfilling near Airport fencing complete



2. Barrigada – Near Post Office

Excavation towards Airport completed. Pipe installation ongoing





Fuel Pipeline Construction Status

3. Nimitz

Excavation work ongoing. Pipeline and Fiber Optic Cable installation in progress.







4. Rt 8 (Tiyan) to Post Office

Excavation work ongoing. Removal of existing line nearly complete. Pipeline now being installed





Fuel Pipeline Construction Status

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

Excavation ongoing along Cesario St. Pipeline installation in progress.

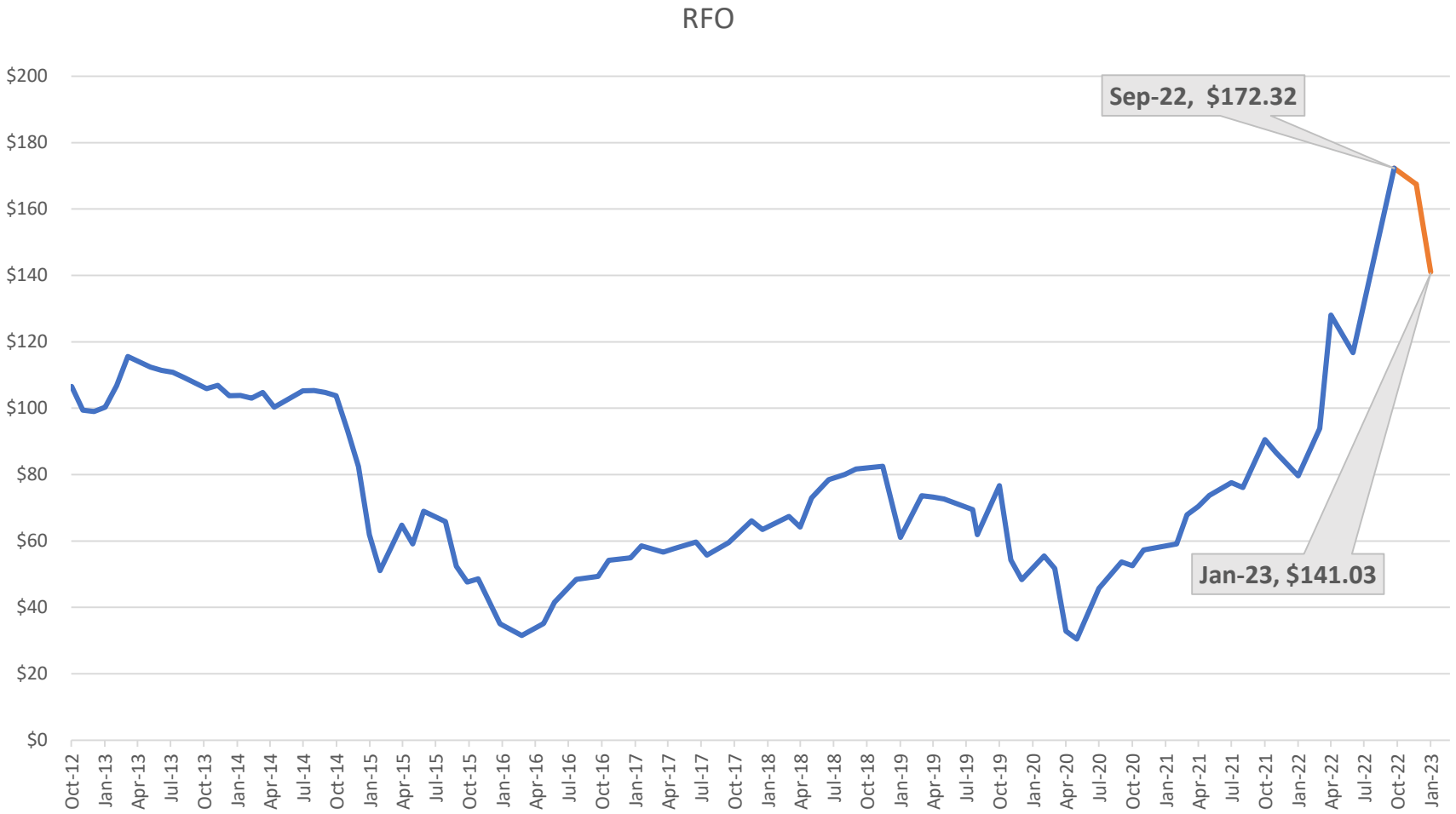






14. Levelized Energy Adjustment Clause (LEAC) Update

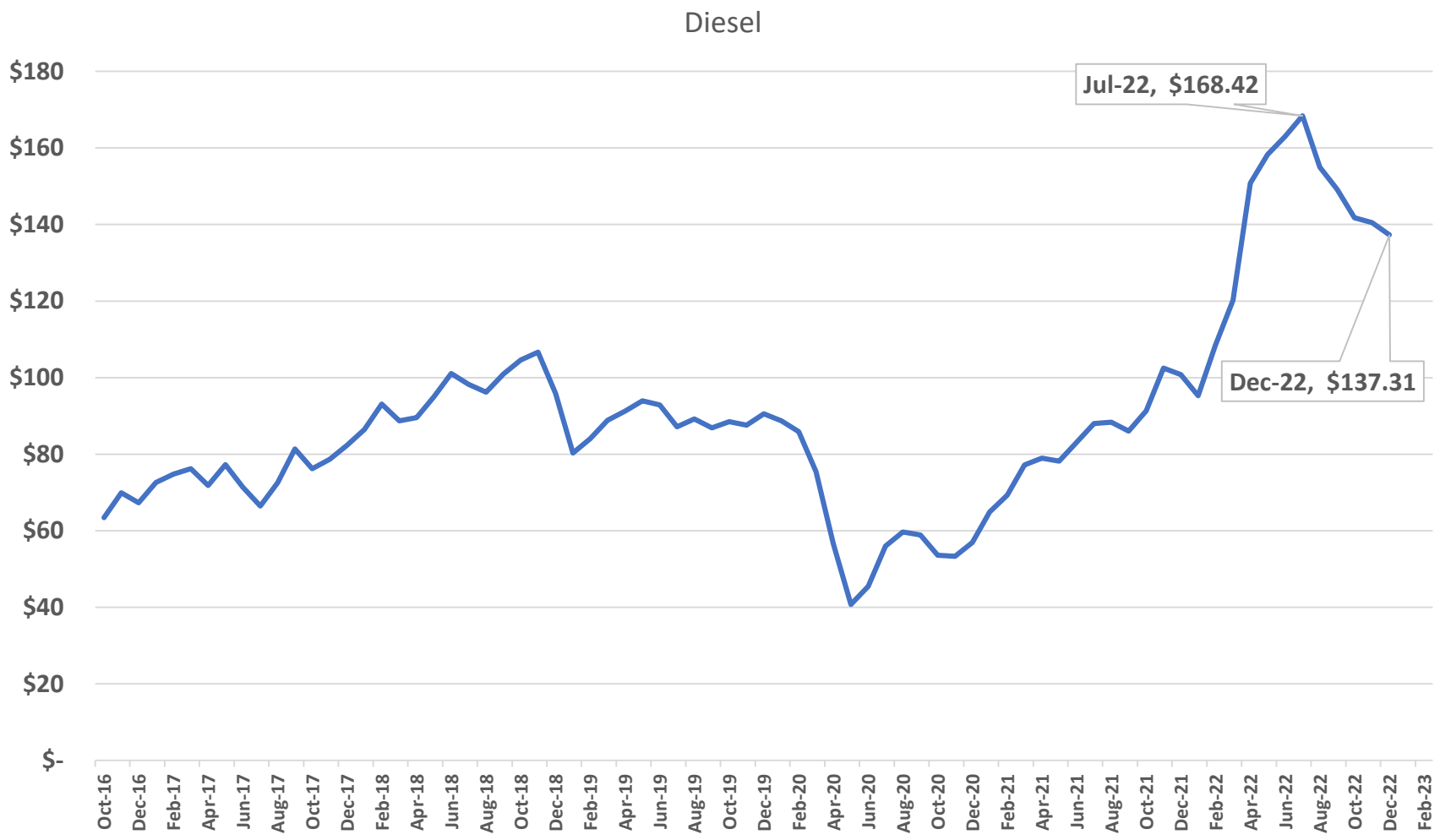
LEAC Update – GPA RFO Purchases (Per Barrel)



Note:

- Russia invaded Ukraine on February 24, 2022

LEAC Update – GPA Diesel Purchases (Per Barrel)



Note:

- Russia invaded Ukraine on February 24, 2022

LEAC Update – Morgan Noon Call Pricing

Date	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23
Gassoil 10ppm							
1/9/2023	109.33	107.08	104.88	102.78	101.01	101.01	98.08
1/10/2023	109.51	106.96	104.66	102.26	100.50	100.50	97.99
1/11/2023	110.81	108.81	106.31	103.51	101.41	101.41	98.56
1/12/2023	115.19	112.79	110.29	107.59	105.44	105.44	102.32
1/13/2023	117.83	114.83	112.13	109.43	107.08	107.08	103.63
Five-day average	**$ 112.53**	**$ 110.09**	**$ 107.65**	**$ 105.11**	**$ 103.09**	**$ 103.09**	**$ 100.12**

LEAC Update – Change in Power Generation Required by Consent Decree



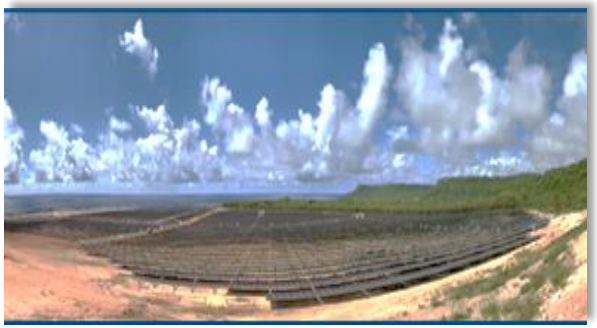
Piti 8 & 9

- Converted to use USLD.



Cabras 1 & 2

- Using 0.2% ULSRFO.



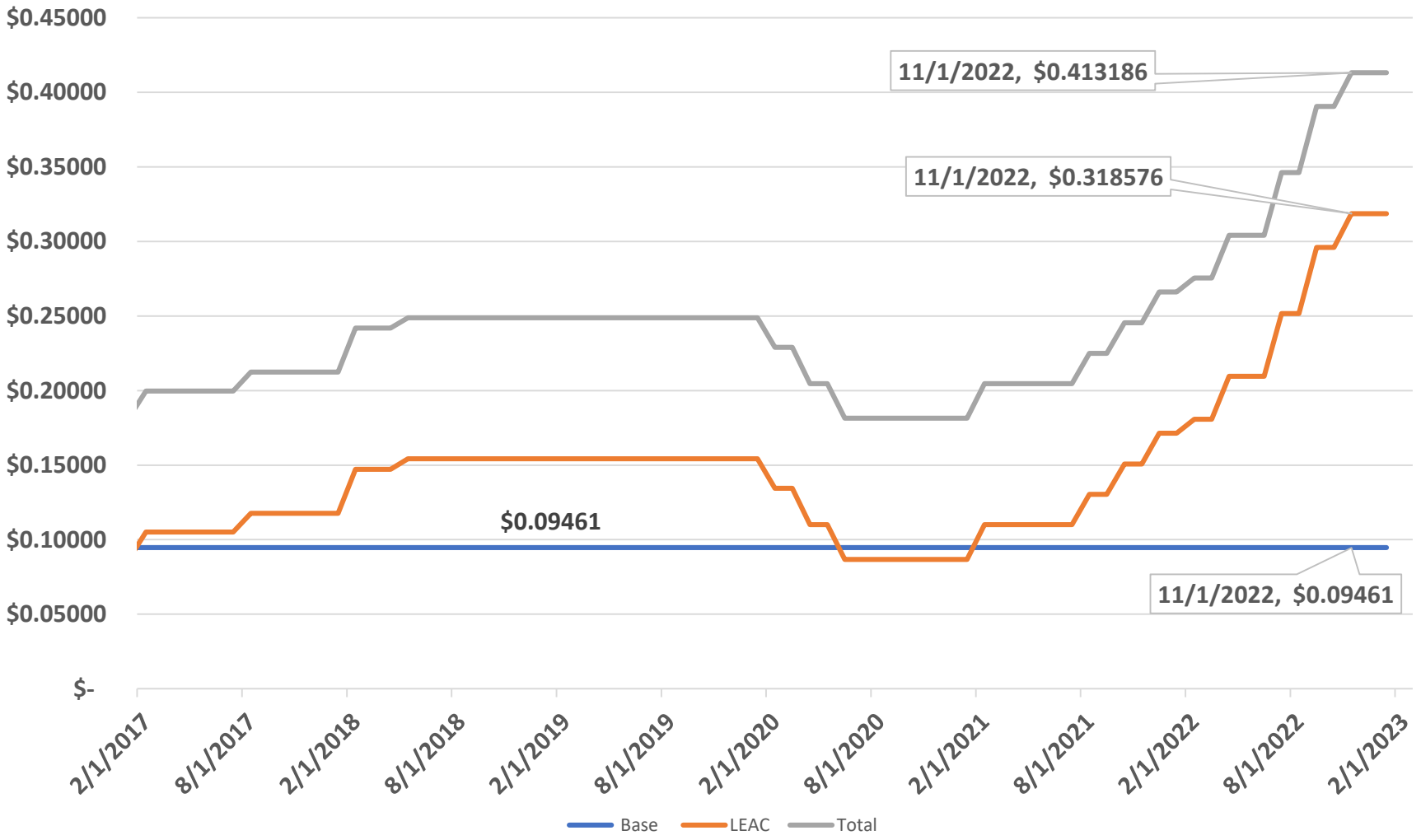
KEPCO 60 MW solar

- Fully operational on June 18, 2022.
- $0.085/kWh energy, 141,000,000 kWh annually
- Equivalent to $52/Bbl. oil price
- Produce equivalent annual energy for 14,000 Average Residential Customers

GUAM CCU

GUAM POWER AUTHORITY GPA POWER TO SERVE

LEAC Update – Historical Residential LEAC Rate



LEAC Update – Historical LEAC Over / (Under) Recovery

LEAC Period		Approved LEAC	Actual Over	
From	To	Rate	(Under) Recovery	
4/1/2012	7/31/2012	$ 0.192310	$ (3,040,418)	
8/1/2012	1/31/2013	$ 0.186834	$ (2,494,052)	
2/1/2013	7/31/2013	$ 0.209271	$ 1,345,259	
8/1/2013	10/31/2013	$ 0.182054	$ 1,300,093	
2/1/2014	7/31/2014	$ 0.172986	$ (1,137,034)	
8/1/2014	10/31/2014	$ 0.176441	$ (4,646,872)	
11/1/2014	1/31/2015	$ 0.146666	$ 661,428	
2/1/2015	7/31/2015	$ 0.102054	$ 1,757,878	
8/1/2015	1/31/2016	$ 0.104871	$ (2,467,151)	
2/1/2016	7/31/2016	$ 0.086613	$ (2,668,603)	
8/1/2016	1/31/2017	$ 0.086613	$ (9,915,360)	
			$ (5,315,360)	(a)
2/1/2017	7/31/2017	$ 0.105051	$ (14,050,504)	
8/1/2017	1/31/2018	$ 0.117718	$ (16,775,982)	
2/1/2018	4/30/2018	$ 0.147266	$ (13,005,689)	
5/1/2018	7/31/2018	$ 0.154242	$ (8,422,674)	
8/1/2018	1/31/2019	$ 0.154242	$ (13,336,698)	
2/1/2019	7/31/2019	$ 0.154242	$ (10,225,349)	
8/1/2019	1/31/2020	$ 0.154242	$ (2,193,618)	
2/1/2020	3/31/2020	$ 0.134474	$ (1,803,778)	
4/1/2020	5/31/2020	$ 0.110039	$ (2,981,023)	
6/1/2020	7/31/2020	$ 0.086800	$ (3,563,177)	
8/1/2020	1/31/2021	$ 0.086800	$ (13,230,995)	
2/1/2021	7/31/2021	$ 0.110000	$ (32,452,576)	
8/1/2021	9/30/2021	$ 0.130400	$ (14,168,086)	(b)
10/1/2021	11/30/2021	$ 0.150800	$ (19,695,128)	
12/1/2021	1/31/2022	$ 0.171458	$ (22,490,844)	
2/1/2022	3/31/2022	$ 0.180837	$ (29,444,602)	
4/1/2022	6/30/2022	$ 0.209522	$ (42,759,975)	
7/1/2022	8/31/2022	$ 0.251638	$ (47,101,089)	
9/1/2022	10/31/2022	$ 0.296043	$ (41,914,469)	
11/1/2022	1/31/2023	$ 0.318576	$ (33,299,989)	Estimated

Notes:
(a) Under-recovery balance after applying $4.6 million from Cabras 3 & 4 Extra Expense claim.
(b) Under-recovery balance after applying $10 million from Self-Insurance Fund and $15 million from GovGuam.

LEAC Update - Rate

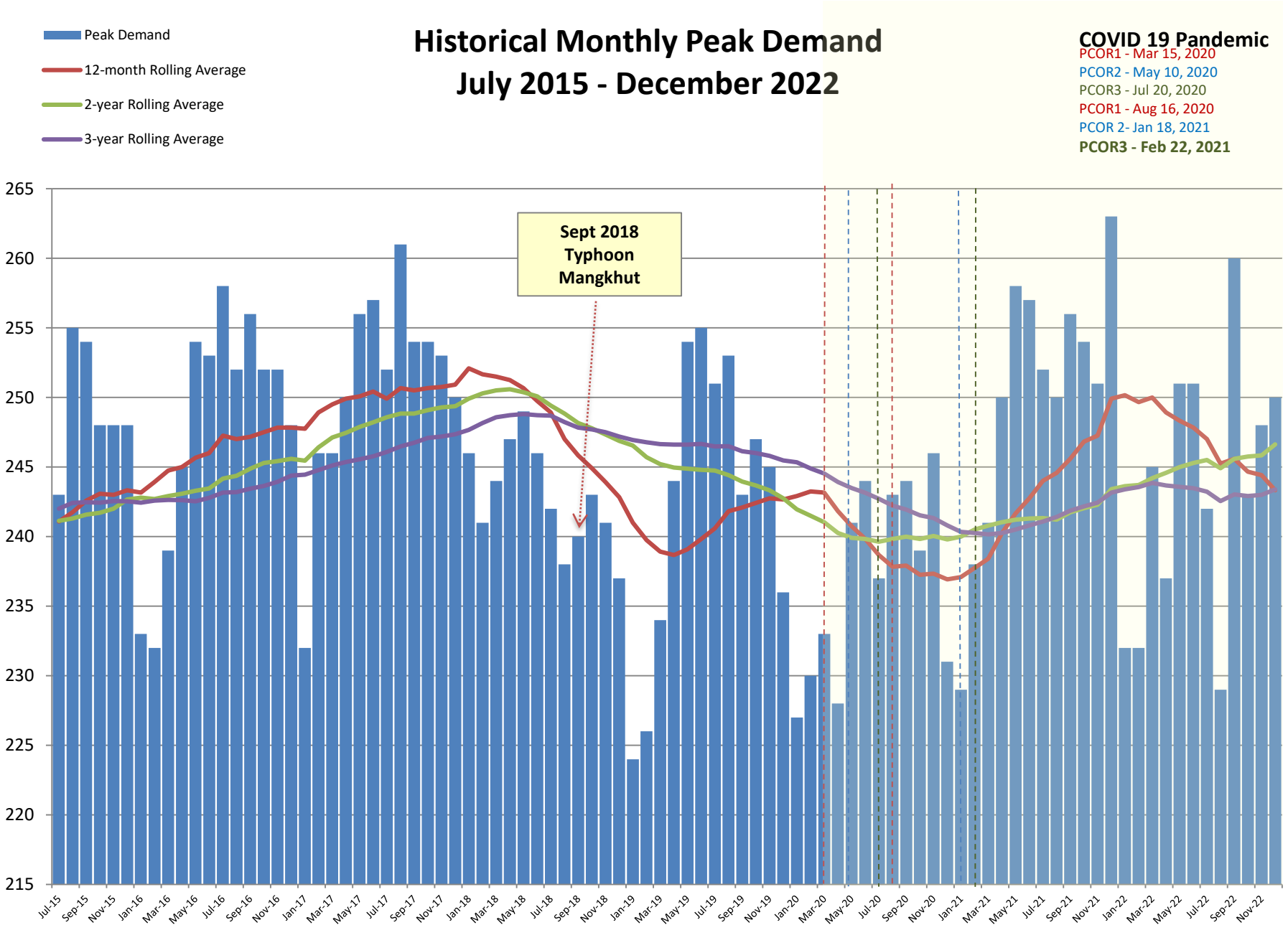
	NOV 22 - JUL 23
	MS Pricing 01.09.23 to 01.13.23 $0.318576
	Nov 22 - Jul 23
Average Price per Bbl- 0.2 ULSFO	$ 148.10
Average Price per Bbl-Diesel	$ 119.19
Number 6 (0.2 LSFO)	$ 82,628
Number 2 (Diesel)	$ 106,856
Renewable (Solar)	$ 10,453
TOTAL COST	$ 199,937
Handling Costs	$ 9,105
Total Current Fuel Expense	$ 209,042
Civilian Allocation	79.707%
LEAC Current Fuel Expense	$ 166,620
Estimated DSM for this period	$ 1,500
Deferred Fuel Expense at the beginning of the period	$ 35,626
Total LEAC Expense	$ 203,747
Less: Trans. Level Costs	$ (11,310)
Distribution Level Costs	$ 192,436
Over recovery/(Under) at the end of the period	**$ (915)**
Adjusted Distribution Level Costs	$ 191,522
Distribution Level Sales (mWh)	593,879
LEAC Factor Distribution	**$0.318576**
Current LEAC Factor Distribution	$ 0.318576
Increase/(Decrease)	-
Monthly Increase/(Decrease) - 1000 kWh	**$** -
% Increase/(Decrease) in LEAC	0.00%
% Increase/(Decrease) in Total Bill	0.00%
Discount (3%) - Primary 13.8 KV	**$ 0.309031**
Discount (4%) - 34.5 KV	**$ 0.308141**
Discount (5%) - 115 KV	**$ 0.304348**

LEAC Update – Sample residential bill – Current Rate

	RATE SCHEDULE R			
	Existing Rate Eff 11-01-22		Proposed Eff 02-01-23	
KWH		1,000		1,000
Monthly Charge	$ 15.00	$ 15.00	$ 15.00	$ 15.00
Non-Fuel Energy Charge				
First 500 KWH	0.069550	34.78	0.069550	34.78
Over 500 KWH	0.086870	43.44	0.086870	43.44
Emergency Water-well charge	0.002790	1.40	0.002790	1.40
Self-Insurance Charge	0.002900	2.90	0.002900	2.90
Total Electric Charge before Fuel Recovery Charges		97.52		97.52
Fuel Recovery Charge	**0.318576**	318.58	**0.318576**	318.58
Total Electric Charge		$ 416.10		$ 416.10
Increase/(Decrease) in Total Bill				$ -
% Increase/(Decrease) in Total Bill				**0.00%**
% Increase/(Decrease) in LEAC rate				**0.00%**

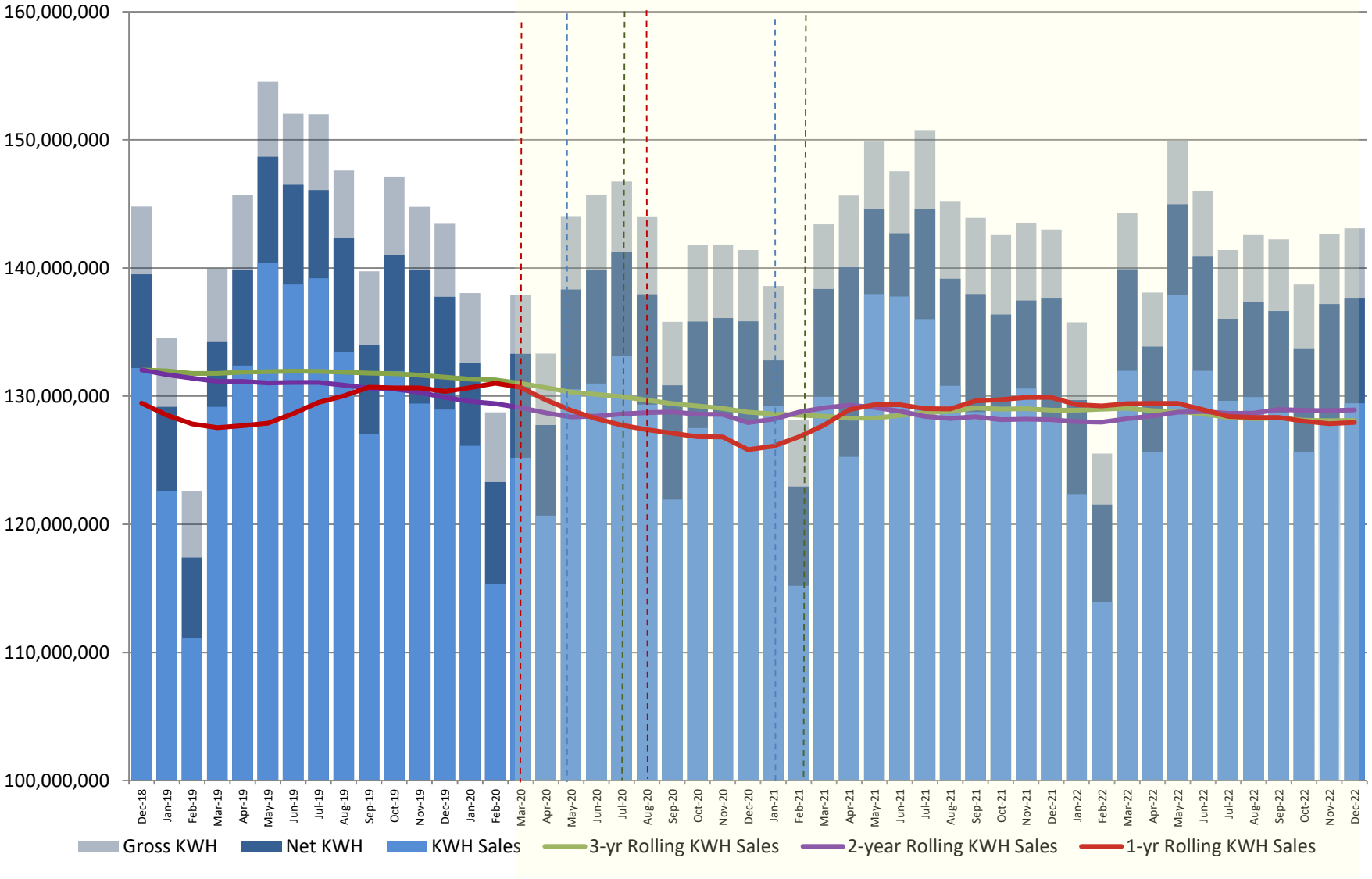
15. Generation KPIs Update December 2022

Historical Monthly Peak Demand
July 2015 - December 2022

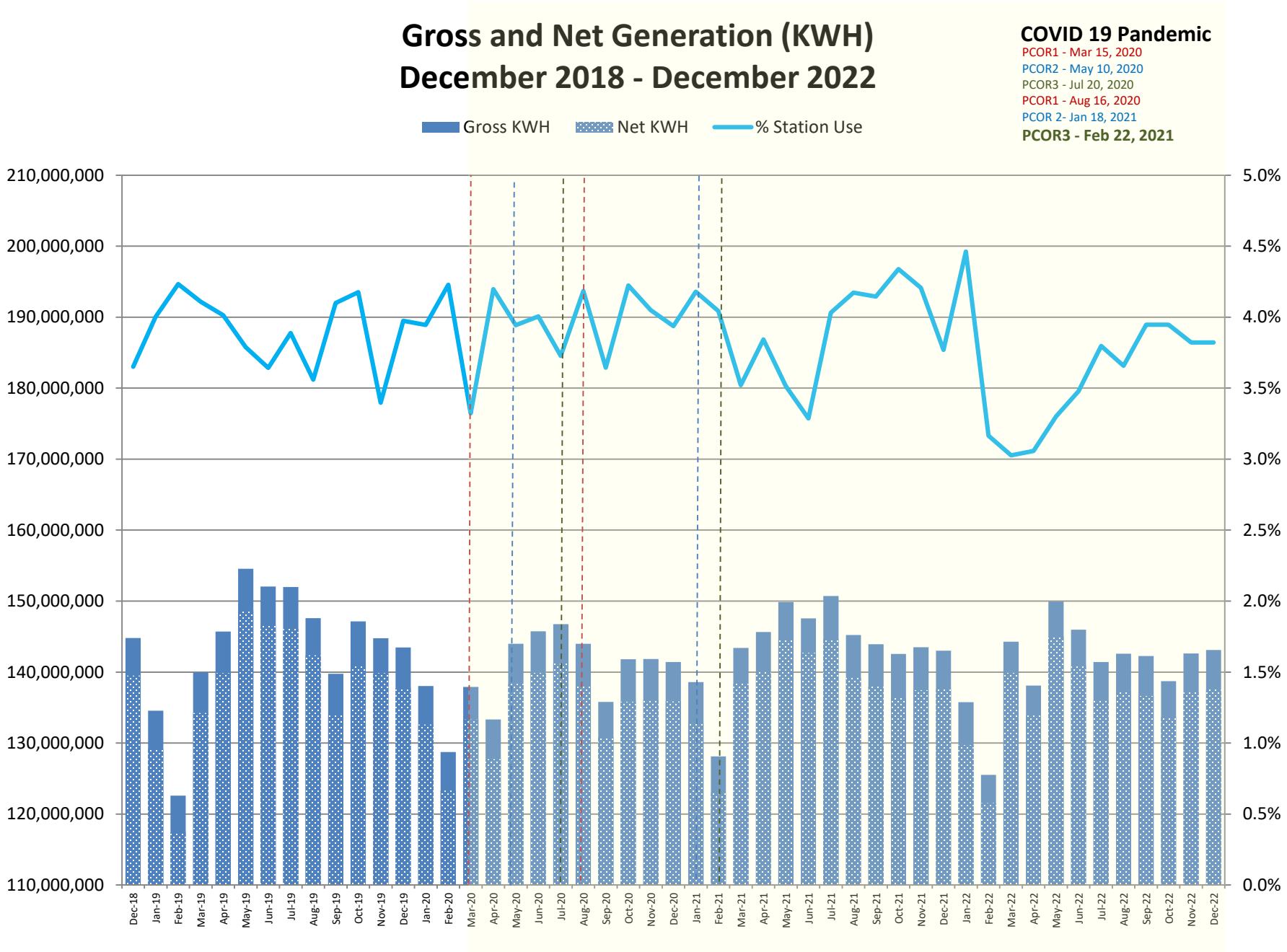


Historical KWH Sales
December 2018 - December 2022

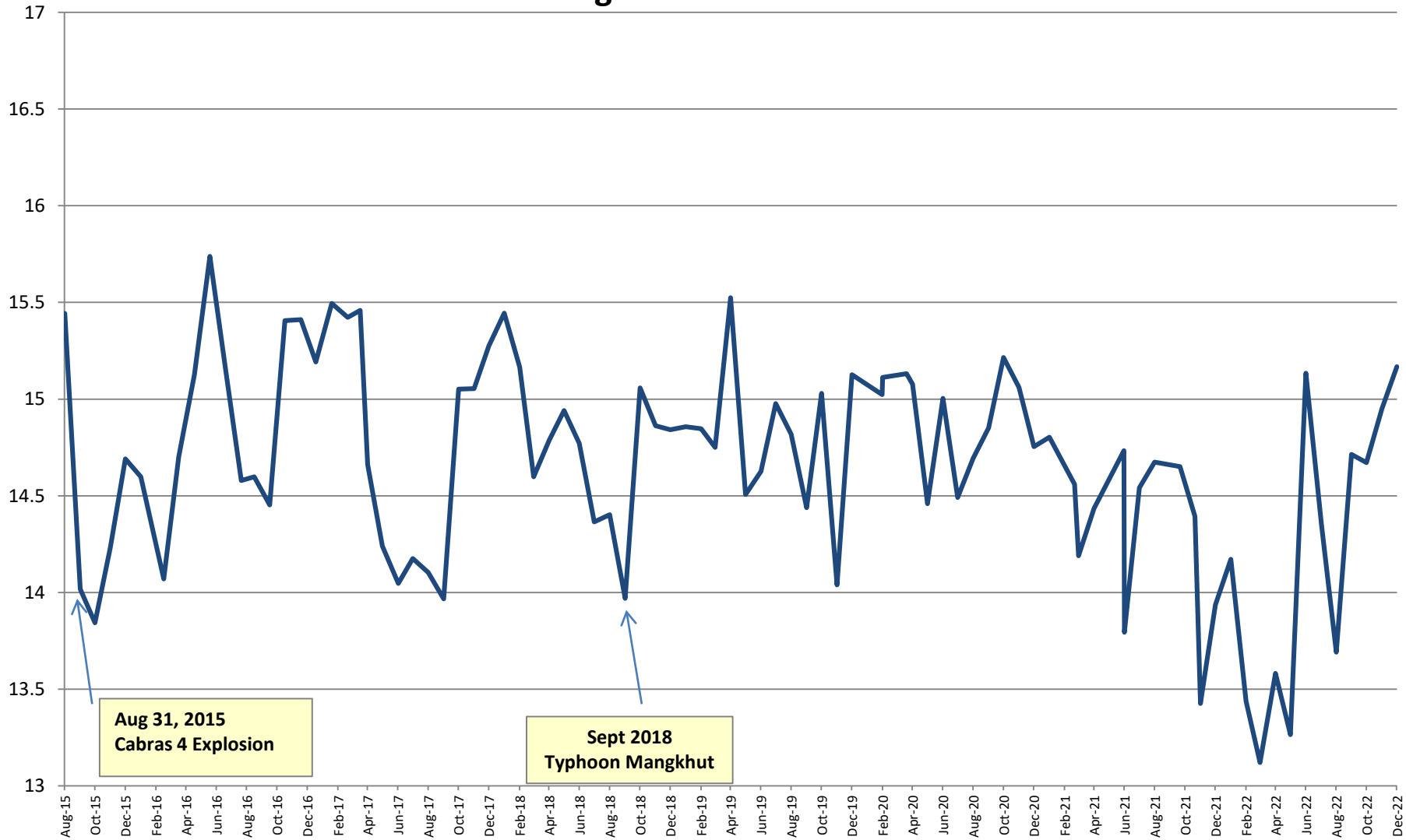
COVID 19 Pandemic
PCOR1 - Mar 15, 2020
PCOR2 - May 10, 2020
PCOR3 - Jul 20, 2020
PCOR1 - Aug 16, 2020
PCOR 2- Jan 18, 2021
PCOR3 - Feb 22, 2021



Gross and Net Generation (KWH)
December 2018 - December 2022

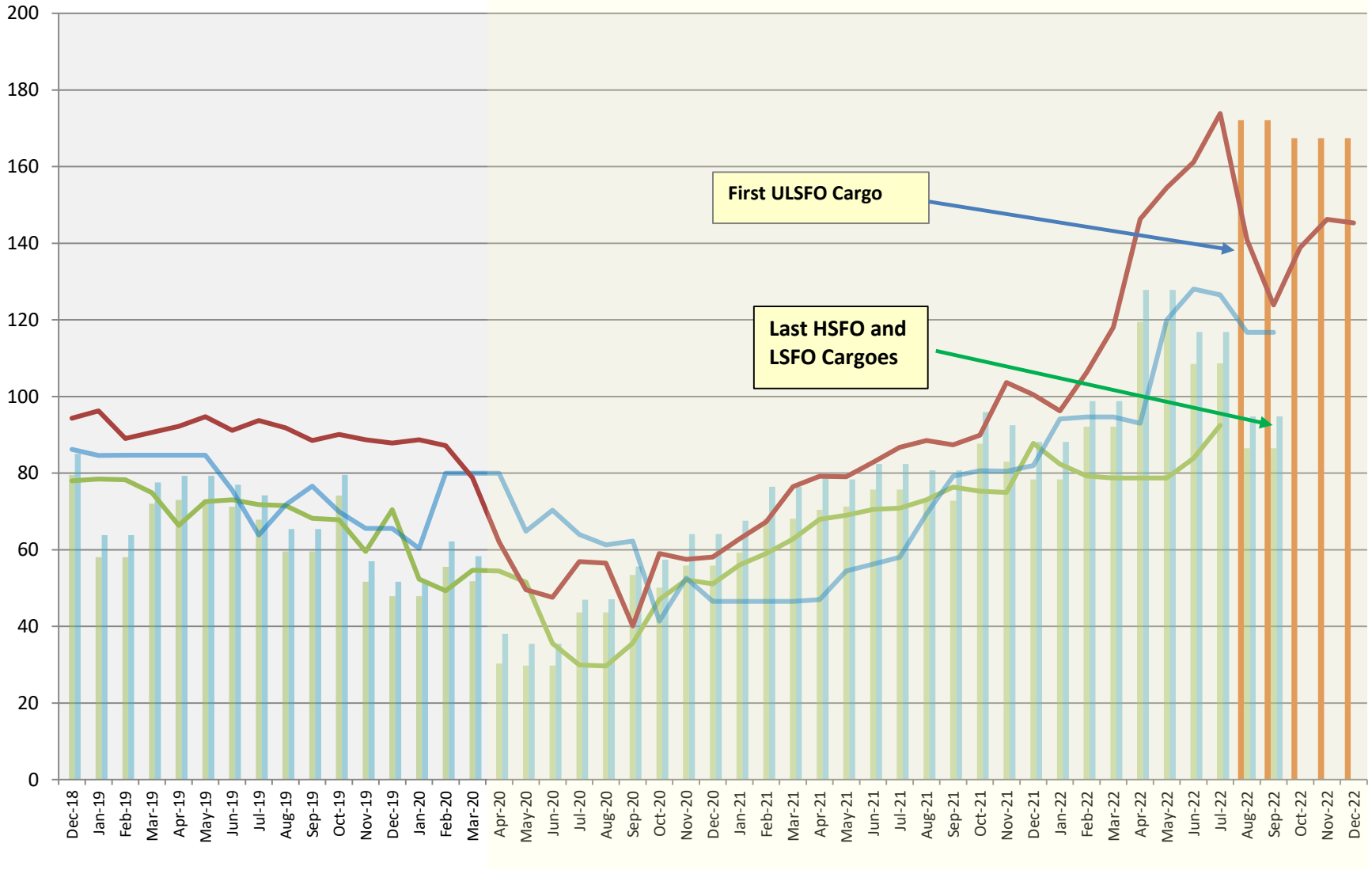


SYSTEM GROSS HEAT RATE
(KWH/Gal)
Aug 2015 - Dec 2022



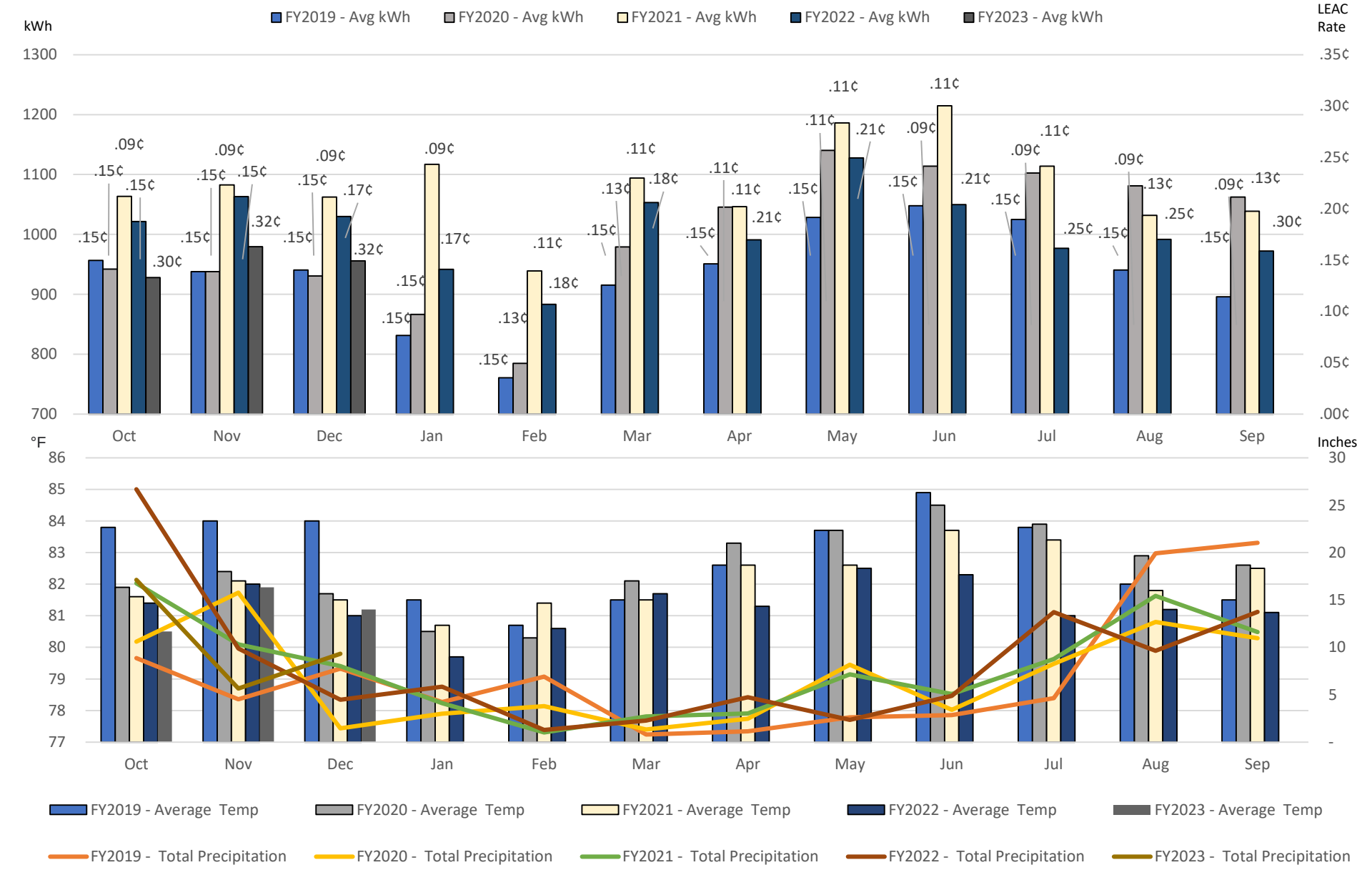
Fuel Cargo and Fuel Consumption Costs ($/bbl)
December 2018 - December 2022

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



CFO
FINANCIAL HIGHLIGHTS
December 2022

Residential average kWh & Weather Chart

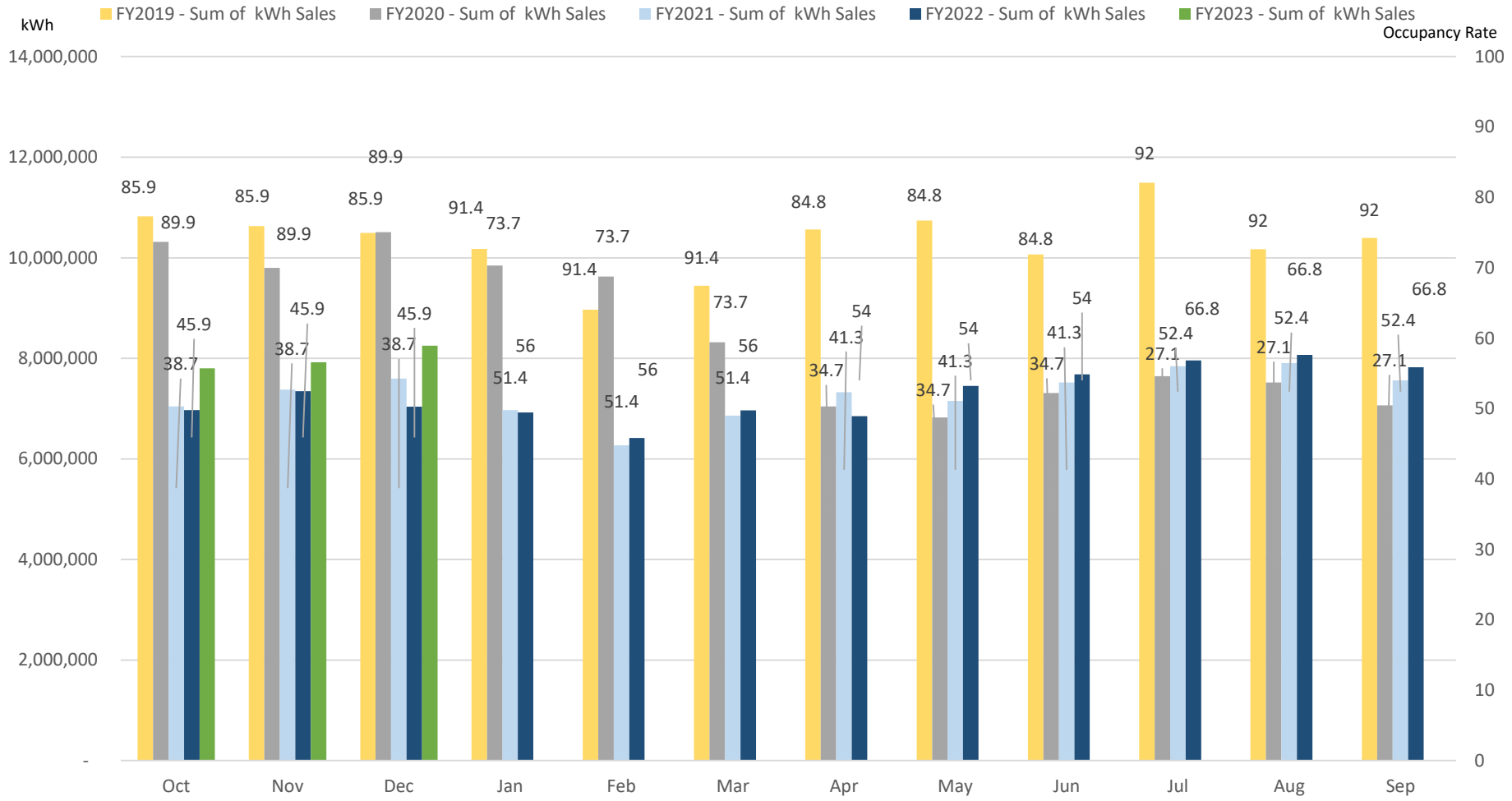


Residential average kWh & LEAC Rate

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									
Average	982	1,000	984	939	842	1,010	1,008	1,121	1,107	1,055	1,011	992

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									

Hotel kWh & Occupancy Rate



Hotel kWh & Occupancy Rate

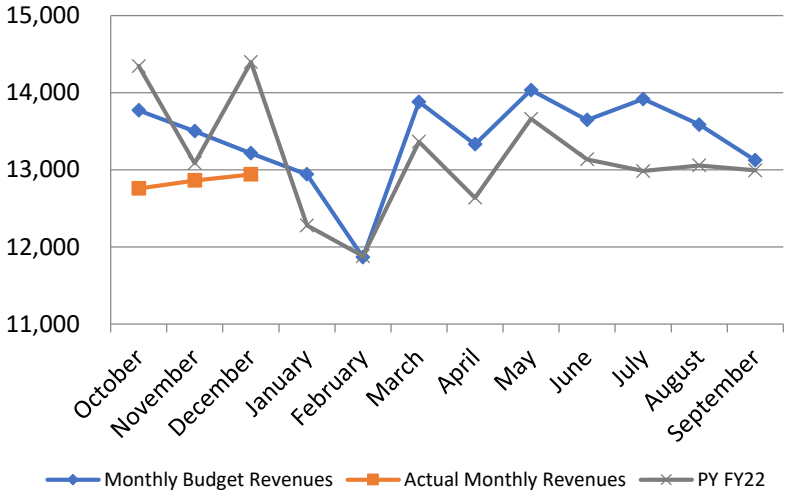
mWh Hotels	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
FY2019	10,826	10,628	10,494	10,175	8,965	9,443	10,565	10,741	10,066	11,494	10,170	10,397
FY2020	10,316	9,801	10,508	9,848	9,627	8,319	7,044	6,826	7,309	7,645	7,520	7,063
FY2021	7,045	7,379	7,596	6,973	6,270	6,863	7,326	7,152	7,521	7,841	7,906	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									

Occupancy Rate	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												

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

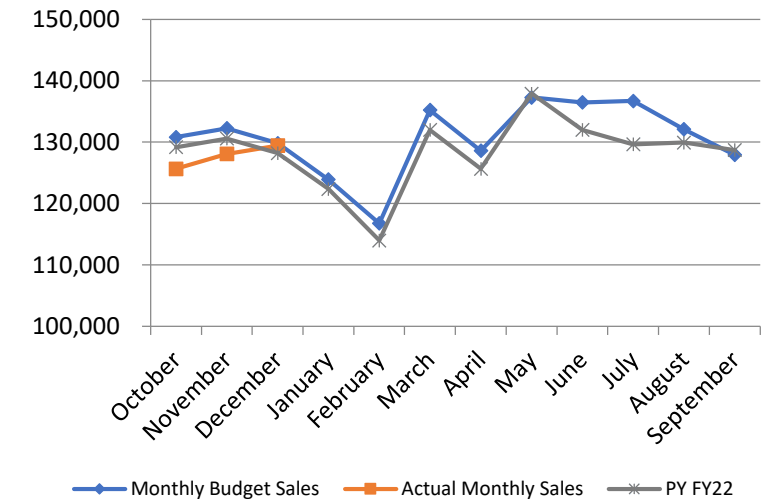
December 2022 Monthly Financial Highlights

Base Rate Revenue (in '000)



Through December 31, 2022							
$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				12,278		
February	11,866				11,879		
March	13,880				13,364		
April	13,329				12,636		
May	14,033				13,661		
June	13,646				13,134		
July	13,916				12,983		
August	13,585				13,056		
September	13,122				12,992		
Total	**$ 160,800**	**$ 38,558**	**$ (1,925)**		**$ 157,808**	**$ (3,269)**	

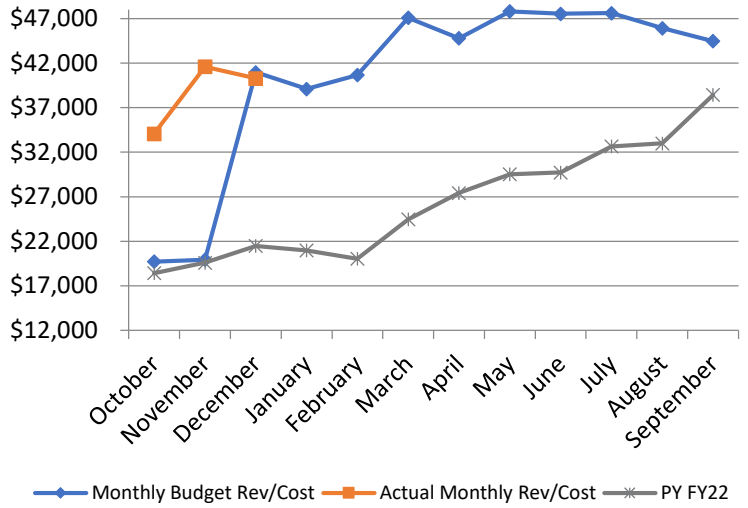
MWH Sales (in 'mWh)



Through December 31, 2022							
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				122,367		
February	116,767				113,980		
March	135,211				131,984		
April	128,610				125,661		
May	137,272				137,915		
June	136,470				131,980		
July	136,715				129,637		
August	132,084				129,938		
September	127,916				128,721		
Total	**1,567,850**	**383,188**	**(9,701)**		**1,540,160**	**(4,788)**	

December 2022 Monthly Financial Highlights (Continued)

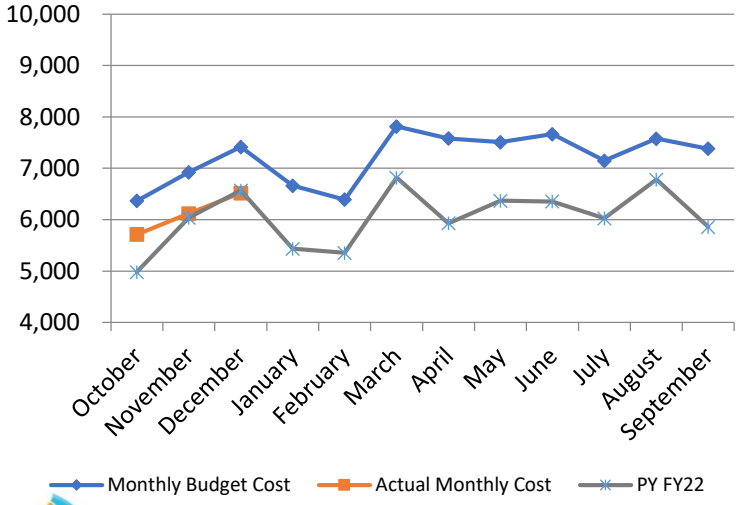
Fuel Revenues (in '000)



Through December 31, 2022

$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				20,978		
February	40,669				20,043		
March	47,094				24,465		
April	44,794				27,433		
May	47,811				29,517		
June	47,532				29,731		
July	47,617				32,646		
August	45,916				32,999		
September	44,467				38,433		
Total	**$ 485,639**	**$ 115,936**	**$ 35,299**		**$ 315,753**	**$ 56,429**	

O&M Costs (in '000)



Through December 31, 2022

$000	Monthly Budget Cost	Actual Monthly Cost	Variance		PY FY22	CY vs PY Variance	
October	6,367	5,712	655	↑	4,979	(733)	↓
November	6,923	6,120	802	↑	6,039	(82)	↓
December	7,415	6,518	898	↑	6,569	52	↑
January	6,663				5,434		
February	6,392				5,353		
March	7,814				6,818		
April	7,582				5,931		
May	7,508				6,369		
June	7,665				6,353		
July	7,148				6,028		
August	7,578				6,779		
September	7,380				5,859		
Total	**$ 86,435**	**$ 18,350**	**$ 2,355**		**$ 72,512**	**$ (763)**	

December 2022 Monthly Financial Highlights (Continued)

Through December 31, 2022													
	1Q2020	2Q2020	3Q2020	4Q2020	1Q2021	2Q2021	3Q2021	4Q2021	1Q2022	2Q2022	3Q2022	4Q2022	1Q2023
Residential	44,203	44,509	45,069	44,191	44,503	44,575	45,247	45,229	45,224	45,283	45,261	45,315	45,370
Commercial	5,154	5,352	5,309	5,366	5,301	5,307	5,330	5,336	5,349	5,367	5,368	5,373	5,425
Government	1,072	1,059	1,061	1,081	1,063	1,060	1,049	1,056	1,069	1,077	1,079	1,087	1,088
Streetlights	1,135	1,128	1,139	1,132	1,133	1,132	1,132	1,131	1,160	1,158	1,156	1,163	1,167
Navy	1	1	1	1	1	1	1	1	1	1	1	1	1
Total	**51,565**	**52,049**	**52,579**	**51,771**	**52,001**	**52,075**	**52,759**	**52,753**	**52,803**	**52,886**	**52,865**	**52,939**	**53,051**

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	1.62
Debt service coverage (DSC) calculation-IPP as O&M						
Senior lien coverage	1.65	1.46	1.23	1.49	1.87	1.62

December 2022 Monthly Financial Highlights (Continued)

