



CONSOLIDATED COMMISSION ON UTILITIES

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

GUAM POWER AUTHORITY WORK SESSION
CCU Conference Room
8:30 a.m., Thursday, August 22, 2024

AGENDA

1. **CALL TO ORDER**
2. **ISSUES FOR DECISION**
 - 2.1 [GPA Resolution No. FY2024-26 Relative to Bonds Financing Savings Utilization](#)
 - 2.2 **GPA Resolution No. FY2024-27** Relative to Approval of the Purchase of WSD Generators
 - 2.3 **GPA Resolution No. FY2024-28** Relative to Approval of the Purchase of WSD Generators
 - 2.4 [GPA Resolution No. FY2024-29 Relative to the Award of Phase IV Renewables](#)
 - 2.5 [GPA Resolution No. FY2024-30 Relative to Approval of the Orote Power Plant Repair/Overhaul](#)
3. **GM REPORT**
 - 3.1 [Engineering & Technical Services](#)
 - 3.2 [Administration](#)
 - 3.3 [Finance](#)
 - 3.4 [Operations](#)
4. **OTHER DISCUSSION**
 - 4.1 [Generation Capacity Update](#)
5. **ANNOUNCEMENTS**

Next CCU Meeting: August 27, 2024, Tuesday, CCU Regular Board Meeting 5:30 p.m.
6. **ADJOURNMENT**



GUAM POWER AUTHORITY

ATURIDÁT ILEKTRESEDÁT GUAHAN
P.O.BOX 2977 • AGANA, GUAM U.S.A. 96932-2977

Issues for Decision

Resolution No.

GPA RESOLUTION NO.: FY2024-26

RELATIVE TO BOND FINANCING SAVINGS UTILIZATION

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

GPA has successfully refunded its outstanding 2014 Series A revenue bonds for interest rate savings. The bond refunding resulted in a cumulative debt service reduction of \$6,639,468 from year 2025 to 2044.

Pursuant to Public Law 37-95, Section 2(h), GPA must notify *I Liheslaturan Guåhan* within ninety (90) days of refinancing of its intent and plan regarding the savings achieved from refinancing. Accordingly, GPA proposes to use the bond refunding savings towards the capital lease and Operating and Maintenance Expense of the Ukudu Power Project for the benefit of the community.

The approval of the Public Utilities Commission of Guam is required for using the savings towards the investment of the Ukudu Power Project.

Where is the location?

Guam Power Authority

How much will it cost?

The bond refunding resulted in a cumulative debt service reduction of \$6,639,468 from year 2025 to 2044.

When will it be completed?

N/A



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GPA RESOLUTION NO.: FY2024-26

RELATIVE TO BOND FINANCING SAVINGS UTILIZATION

WHEREAS, Guam Power Authority's (GPA) Bond Refunding Program will result in a cumulative debt service reduction of \$6,639,468 from year 2025 to 2044; and

WHEREAS, as per Guam Public Law 37-95, Section 2(h), GPA must notify *I Liheslaturan Guåhan* within ninety (90) days of refinancing of its intent and plan regarding the savings achieved from refinancing, and

WHEREAS, GPA desires to reserve these savings for the benefit of the community by making a strategic investment in Ukudu Power Project; and

WHEREAS, GPA proposes to use the Bond Refunding Program savings towards the capital lease and Operating and Maintenance Expense of the Ukudu Power Project; and

NOW, THEREFORE, BE IT RESOLVED, by the Consolidated Commission on Utilities, as the Governing Body of GPA, as follows:

1. The CCU authorizes GPA to petition the PUC for approval of using the savings toward the investment of Ukudu Power Project.
2. The CCU authorizes GPA to notify *I Liheslaturan Guåhan* in compliance with Public Law 37-95, Section 2(h) the decision on this matter.

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

DULY AND REGULARLY ADOPTED, this 27th day of August, 2024.

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

SECRETARY’S CERTIFICATE

I, **Pedro Roy Martinez**, Secretary of the Consolidated Commission on Utilities (CCU), as evidenced by my signature above, do hereby certify as follows:

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

Ayes: _____

Nays: _____

Abstentions: _____

Absent: _____

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GUAM POWER AUTHORITY

ATURIDÁT ILEKTRESEDÁT GUAHAN
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Issues for Decision

Resolution No. 2024-29:

RELATIVE TO APPROVAL OF THE PHASE IV RENEWABLE ENERGY ACQUISITION AWARD TO KEPCO-EWP-SUMSUNG C&T CONSORTIUM AND CORE TECH SOLAR ENERGY, LLC FOR UP TO 192 MW OF RENEWABLE ENERGY CAPACITY

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

GPA intends to meet its 2030 IRP goals and comply with Public Law 29-62 which sets renewable goals under the Renewable Portfolio Standards (RPS) with the Phase IV projects. In December 2023 GPA obtained the price bids for GPA Multi-Step Bid No: GPA- 012-23 for over 330MW of Renewable Energy Resource capacity with ESS for peak shifting. KEPCO-EWP-SAMSUNG C&T Consortium and Core Tech Solar Energy, LLC are two (2) of responsive bidders that have submitted proposals that have been determined to qualify based on bid requirements and submit price proposals to be within the purchase cap of \$0.179/kWh.

GPA and KEPCO-EWP-Samsung C&T Consortium have completed and agreed to commercial terms and conditions of the Renewable Energy Purchase Agreements (REPA). GPA seeks approval to submit KEPCO-EWP-Samsung C&T Consortium's REPA to the PUC for their approval.

GPA and Core Tech Solar Energy, LLC have completed and agreed to commercial terms and conditions of the Renewable Energy Purchase Agreements (REPA). GPA seeks approval to submit Core Tech Solar Energy, LLC's REPA to the PUC for their approval.

Where is the location?

The KEPCO-EWP-SAMSUNG C&T Consortium solar project will be located at Cross Island Road, Santa Rita near the Ylig River/Paulana River area.

The Core Tech Solar Energy, LLC solar project will be located at Ukudu area, near the GWA Northern Water Treatment Plant

How much will it cost?

Please see attached tables.

When will it be completed?

The Agreements are both for 25-year terms.

What is its funding source?

Funding source is LEAC.

**Summary of Bid Proposals from
KEPCO- EWP-Samsung C& T Consortium and Core Tech Solar Energy, LLC**

KEPCO- EWP-Samsung C&T Consortium		
Contract Year	Annual Price (\$/MWH)	Guaranteed Net Annual Generation (MWH/YR)
1	178.9929	233,915
2	180.7828	235,062
3	182.5907	234,447
4	184.4166	233,863
5	186.2607	233,959
6	188.1233	232,699
7	190.0046	232,120
8	191.9046	231,543
9	193.8237	231,639
10	195.7619	230,393
11	197.7195	229,768
12	199.6967	229,198
13	201.6937	229,084
14	203.7106	227,857
15	205.7477	227,291
16	207.8052	226,727
17	209.8833	226,817
18	211.9821	225,604
19	214.1019	224,913
20	216.2429	224,356
21	218.4054	192,491
22	220.5894	191,823
23	222.7953	191,640
24	225.0233	191,457
25	227.2735	191,817

Core Tech Solar Energy, LLC		
Contract Year	Annual Price (\$/MWH)	Guaranteed Net Annual Generation (MWH/YR)
1	173.62	117,675
2	175.35	117,229
3	177.11	116,781
4	178.88	116,330
5	180.67	115,877
6	182.47	115,421
7	184.30	114,963
8	186.14	114,502
9	188.00	114,038
10	189.88	113,573
11	191.78	113,104
12	193.70	112,635
13	195.64	112,165
14	197.59	111,695
15	199.57	111,224
16	201.56	110,753
17	203.58	110,281
18	205.62	109,808
19	207.67	109,335
20	209.75	108,862
21	211.85	108,389
22	213.97	107,916
23	216.10	107,443
24	218.27	106,970
25	220.45	106,497



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1 **RESOLUTION NO. 2024 - 29**

2 **RELATIVE TO APPROVAL OF THE PHASE IV RENEWABLE ENERGY**
3 **ACQUISITION AWARD TO KEPKO-EWP-SUMSUNG C&T CONSORTIUM AND**
4 **CORE TECH SOLAR ENERGY, LLC FOR UP TO 192 MW OF RENEWABLE**
5 **ENERGY CAPACITY**
6

7 **WHEREAS**, GPA announced GPA Multi-Step Bid No: GPA-012-23 for 300,000,000 kWh
8 to 530,000,000 kWh of renewable energy in December 2022 as its Phase IV procurement for utility
9 scale renewables over 25 years with an option for 5 additional years; and

10 **WHEREAS**, the bids were opened in December 2023 and GPA received over 330 MW of
11 renewable solar PV capacity to generate a minimum of 612,000,000 kWh annually for 25 years. The
12 summary is attached in **Exhibit A**; and

13 **WHEREAS**, the procurement process to contract Phase IV renewables is now taking close to
14 two years before a contract is approved and signed. The process requires substantial time and
15 investments by both the bidders and GPA to complete a contract for a sustained Renewable Power
16 Purchase Agreement (REPA) for 25 years; and

17 **WHEREAS**, the construction environment on the island has historically affected project
18 construction costs and is anticipated to continue driving these costs significantly higher. Projects
19 have to compete with large, ongoing military buildup projects, which are expected to persist into the
20 next decade. Additionally, inflation has been substantial, and the lead time for material supplies has
21 increased significantly; and

22 **WHEREAS**, the Phase IV awards could result in providing about 173 MW in ESS load-
23 shifting capacity. This will help GPA meet the expected significant load growth by the end of the
24 decade. The estimated military growth, which could reach 100 MW by 2033, coupled with potential
25 increases in data centers and the use of electric vehicles, will cause significant increases in demand
26 in the coming years; and

27 **WHEREAS**, GPA originally solicited for energy to be 100% shifted through an Energy
28 Storage System (ESS) to non-daylight hours. Unfortunately, ESS costs have increased to a large
29 extent which resulted in GPA having to adjust its requirement to 50% shifting through an ESS with
30 a bid price cap of \$0.179/kWh; and

RESOLUTION NO: 2017-37

31 **WHEREAS**, several large and small projects were submitted by various bidders. Their prices
 32 were all within the bid price cap of \$0.179/kWh which includes about \$0.07/kWh for energy-shifting
 33 batteries which provide additional value to GPA compared with its existing contracts. Battery Energy
 34 Storage Systems (BESS) are similar to conventional generators which could be operated at peak
 35 demand periods. Therefore, the pricing as received are reasonable in comparison to existing contracts;
 36 and

37 **WHEREAS**, the Renewable Energy Purchase Agreements allow a maximum of 1% annual
 38 price escalation over the 25-year contract period; and

39 **WHEREAS**, GPA evaluated the bidders’ priced proposals against GPA’s variable operating
 40 costs primarily made up of fuel costs. Bidders provided \$/MWh priced proposals for the energy,
 41 including BESS and interconnection costs; and

42 **WHEREAS**, in December 2023, GPA obtained the price bids and determined KEPCO-EWP-
 43 Samsung C&T Consortium and Core Tech Solar Energy, LLC to be qualified, responsive bidders
 44 with two proposals totaling 192 MW of solar PV capacity and 97 MW/ 380 MWh of BESS as shown
 45 in the table below; and

	PV Capacity	BESS Capacity
KEPCO-EWP-Samsung C&T Consortium	132 MWAC	67 MW / 260 MWh
Core Tech Solar Energy, LLC	60 MWAC	30 MW / 120MWh
Aggregate Capacities	192 MWAC	97MW / 380MWh

46

47 **WHEREAS**, GPA has determined that KEPCO-EWP-Samsung C&T Consortium and Core
 48 Tech Solar Energy, LLC proposals would provide substantial savings to GPA over the term of the
 49 contracts based on current and projected LEAC rates. **Exhibit B** provides a summary of the energy
 50 priced proposals submitted by KEPCO-EWP-Samsung C&T Consortium and by Core Tech Solar
 51 Energy, LLC; and

52 **WHEREAS**, GPA issued an intent to award all bidders, subject to the System Impact Study
 53 results, without a change in price, and attaining CCU and PUC approval; and

RESOLUTION NO: 2017-37

54 **WHEREAS**, **Exhibit C** outlines the LEAC variance between adopting and not adopting the
55 Phase IV Renewable projects at various ULSD prices per barrel; and

56 **WHEREAS**, USLD fuel oil prices continue to rise and fluctuate. ULSD prices have reached
57 over \$150 per barrel within the past two years. In 2022, ULSD was at its highest price of \$186 per
58 barrel; and

59 **WHEREAS**, GPA considers renewable energy as an effective hedge against rising fuel oil
60 prices. The renewable energy projects will decrease GPA's importation of ULSD by about 800,000
61 barrels. The cash outflow from the island will be reduced by about \$93M annually which would be
62 a significant help for the island's economy. Ratepayers will no longer see the LEAC increase to
63 \$0.31/kWh as it did recently due to global events such as the war in Ukraine. A similar situation
64 would keep LEAC below \$0.20/kWh; and

65 **WHEREAS**, not awarding these contracts will likely not result in cost savings to ratepayers
66 and may instead result in higher energy bills and increased pricing for renewable energy. GPA needs
67 to invest in renewables to hedge against global events that could drive oil prices higher, potentially
68 reaching \$200 per barrel. The current geopolitical threats from countries such as China and North
69 Korea highlight the potential for significant volatility in future oil prices; and

70 **WHEREAS**, the current import of fuel oil totals about 3M barrels per year. The new Ukudu
71 198 MW power plant will reduce imports by about 879,000 barrels yearly. The award of all Phase
72 IV renewable projects would decrease imports by an additional 800,000 barrels. Guam has an
73 opportunity to reduce its import of oil to about 1.4M barrels in 2028 substantially reducing negative
74 rate impacts on our community; and

75 **WHEREAS**, renewable energy is sustainable energy and good for the island; and

76 **WHEREAS**, Public Law 29-62 sets renewable goals under the Renewable Portfolio
77 Standards (RPS) which mandated 50% renewables by 2035 and 100% by 2045. GPA has adopted a
78 goal of 50% renewables by 2030; and

79 **WHEREAS**, the award of 192 MW is projected to increase GPA's ratio of renewable energy
80 to sales up to 39% by 2028. **Exhibit D** is a projected RPS outlook; and

81 **WHEREAS**, the System Impact Study is an iterative and complicated process that determines
82 the required infrastructure for a seamless integration of the Phase IV projects to interconnect and
83 operate on the GPA electric grid system; and

RESOLUTION NO: 2017-37

84 **WHEREAS**, the System Impact Study will not change the bidders' priced proposals as all
85 costs associated with the required infrastructure, as determined by the study, will be the responsibility
86 of the bidder; and

87 **WHEREAS**, the bid documents allow the bidders to withdraw any proposal without penalty
88 if the bidder cannot comply with the System Impact Study within the bidders' priced proposals; and

89 **WHEREAS**, GPA would like to proceed with an approval to award a potential total of
90 330MW of renewable energy capacity contracts subject to the completion of the System Impact Study
91 and finalization of the bidders' draft REPAs and Interconnection Agreements; and

92 **WHEREAS**, prices agreed upon are time sensitive which is why a partial award of the Phase
93 IV bids is being pursued at this time. These two projects are significant and could be impacted by
94 inflationary and other costs, making them important to award as expeditiously as possible; and

95 **WHEREAS**, it is GPA's intent to bring all the other bids to CCU and PUC for their approvals
96 once these bidders have met System Impact Study requirements without a change in price. GPA is
97 hopeful the other bidders could be awarded within the next 4 to 6 months; and

98 **WHEREAS**, the award of all Phase IV bids would have GPA achieve a 50% renewables
99 portfolio by 2029 ahead of its targeted 2030 goal and well ahead of the mandated 2035 date.

100 **NOW, THEREFORE, BE IT RESOLVED, by the CONSOLIDATED COMMISSION**
101 **ON UTILITIES, as FOLLOWS:**

102 **1.** The CCU authorizes GPA to petition the PUC for approval to award Phase IV Renewable
103 Acquisition Bid of two proposals, totaling 192 MW, to KEPCO-EWP-Samsung C&T
104 Consortium and Core Tech Solar Energy, LLC as required under the PUC Procurement
105 Protocol.

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

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RESOLUTION NO: 2017-37

111 **DULY AND REGULARLY ADOPTED AND APPROVED THIS 27TH DAY OF**
112 **AUGUST 2024.**

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Certified by:

Attested by:

JOSEPH T. DUENAS
Chairperson

PEDRO ROY MARTINEZ
Secretary

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

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

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Ayes: _____

Nays: _____

Absent: _____

Abstain: _____

EXHIBIT A

Phase IV Projects - Summary

Bidder	Size MWac	ESS Size MWdc	Village	Site
Mojave Marianas LLC	60	30 MW, 120 MWh	Inarajan	Near existing Dandan Solar
PEC and LMS	4.999	2.75 MW, 16.512 MWh	Harmon	Near Harmon Sub (Lot 101185-4)
PEC and LMS	4.999	2.75 MW, 16.512 MWh	Malojloj	Lot B-3REM-14-R2
PEC and LMS	4.999	2.75 MW, 16.512 MWh	Pulantat	Near Leo Palace (LOT 177-1-4 and LOT 177-1-R6)
PEC and LMS	4.999	2.75 MW, 16.512 MWh	Barrigada	Near Radio Barrigada Sub (LOT 2442-5, LOT 2442-6, and LOT 2442-7)
Core Tech Solar Energy, LLC	60	30 MW, 120 MWh	Ukudu	Near GWA Northern Water Treatment
KEPCO, EWP, and Samsung C&T Consortium	132	67 MW, 260 MWh	Yona	Cross-Island Road- Ylig River/ Paulana River area
Power Solutions and SK Ecoplant	26.4	15 MW, 88.064 MWh	Dededo	Guam International Country Club Golf Course
Power Solutions and SK Ecoplant	26.4	15 MW, 88.064 MWh	Dededo	Guam International Country Club Golf Course
Power Solutions and SK Ecoplant	4.4	2.75 MW, 16.512 MWh	Dededo	Guam International Country Club Golf Course
Power Solutions and SK Ecoplant	4.4	2.75 MW, 16.512 MWh	Yigo	LOT 7079-1-R2 and LOT 7079-1-1R/W

EXHIBIT B

**Summary of Bid Proposals from
KEPCO- EWP-Samsung C& T Consortium and Core Tech Solar Energy, LLC**

KEPCO- EWP-Samsung C&T Consortium		
Contract Year	Annual Price (\$/MWH)	Guaranteed Net Annual Generation (MWH/YR)
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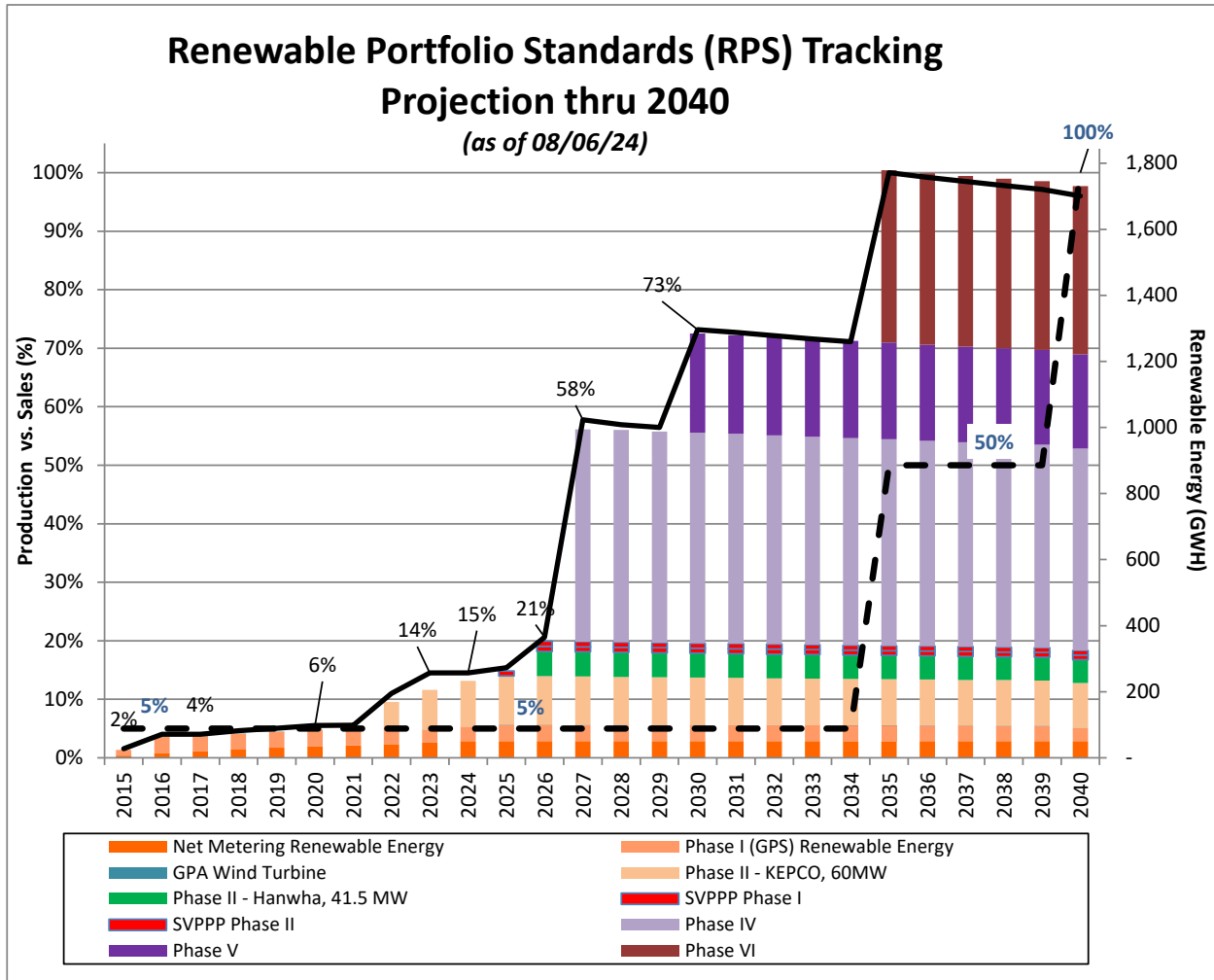
EXHIBIT C

LEAC Variance Without and With Phase IV Renewables at Various Fuel Prices

ULSD FUEL PRICE/BARREL	2024	2026	2027	2028	2029	2030
Without Phase IV @ \$100/Bbl	\$ 0.1856	\$ 0.1237	\$ 0.1236	\$ 0.1254	\$ 0.1268	\$ 0.1277
With Phase IV @ \$100/Bbl	\$ 0.1856	\$ 0.1237	\$ 0.1236	\$ 0.1323	\$ 0.1439	\$ 0.1448
Variance				(\$0.0069)	(\$0.0171)	(\$0.0171)
ULSD FUEL PRICE/BARREL	2024	2026	2027	2028	2029	2030
Without Phase IV @ \$120/Bbl	\$ 0.2197	\$ 0.1442	\$ 0.1443	\$ 0.1466	\$ 0.1483	\$ 0.1496
With Phase IV @ \$120/Bbl	\$ 0.2197	\$ 0.1442	\$ 0.1443	\$ 0.1484	\$ 0.1547	\$ 0.1563
Variance				(\$0.0018)	(\$0.0064)	(\$0.0067)
ULSD FUEL PRICE/BARREL	2024	2026	2027	2028	2029	2030
Without Phase IV @ \$150/Bbl	\$ 0.2710	\$ 0.1750	\$ 0.1752	\$ 0.1783	\$ 0.1806	\$ 0.1824
With Phase IV @ \$150/Bbl	\$ 0.2710	\$ 0.1750	\$ 0.1752	\$ 0.1726	\$ 0.1709	\$ 0.1737
Variance				\$0.0057	\$0.0097	\$0.0087
ULSD FUEL PRICE/BARREL	2024	2026	2027	2028	2029	2030
Without Phase IV @ \$175/Bbl	\$ 0.3137	\$ 0.2006	\$ 0.2010	\$ 0.2047	\$ 0.2075	\$ 0.2098
With Phase IV @ \$175/Bbl	\$ 0.3137	\$ 0.2006	\$ 0.2010	\$ 0.1928	\$ 0.1844	\$ 0.1881
Variance				\$0.0119	\$0.0231	\$0.0217
ULSD FUEL PRICE/BARREL	2024	2026	2027	2028	2029	2030
Without Phase IV @ \$200/Bbl	\$ 0.3564	\$ 0.2262	\$ 0.2268	\$ 0.2311	\$ 0.2344	\$ 0.2371
With Phase IV @ \$200/Bbl	\$ 0.3564	\$ 0.2262	\$ 0.2268	\$ 0.2130	\$ 0.1979	\$ 0.2026
Variance				\$0.0181	\$0.0365	\$0.0345

EXHIBIT D

Renewable Portfolio Standards Outlook



POWERING FORWARD CLEAN ENERGY MASTER PLAN

AWARD OF PHASE IV RENEWABLE ENERGY BID

CONSOLIDATED COMMISSION ON UTILITIES

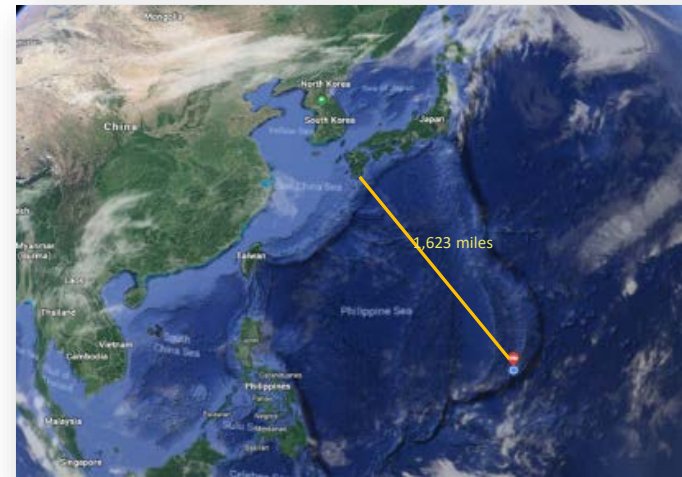
August 22, 2024

GPA HQ | Fadian, Mangilao

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



GPA OVERVIEW



52,642
Total Meters¹

\$554M
in Revenues¹

257 MW
in Peak Demand¹

351.4 MW
Oil Fire
Generation

85.3 MW
Renewable
Generation

\$856M
in Assets

1.4M MWh
In Energy Sales¹

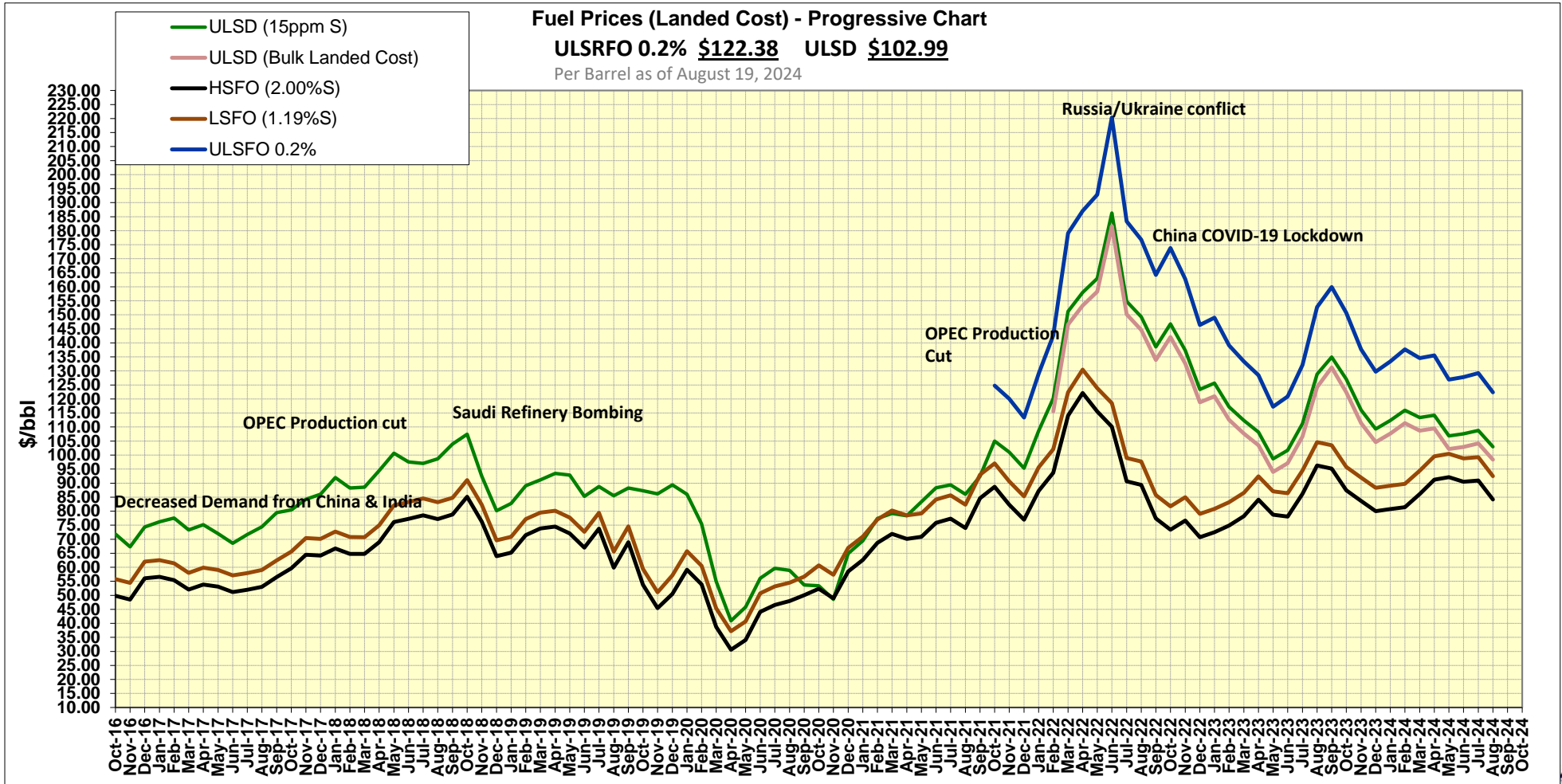
29 Substations
Conversion to indoor
type underway

1,839 Miles
Combined Transmission
& Distribution Lines

1. For fiscal year September 30, 2023

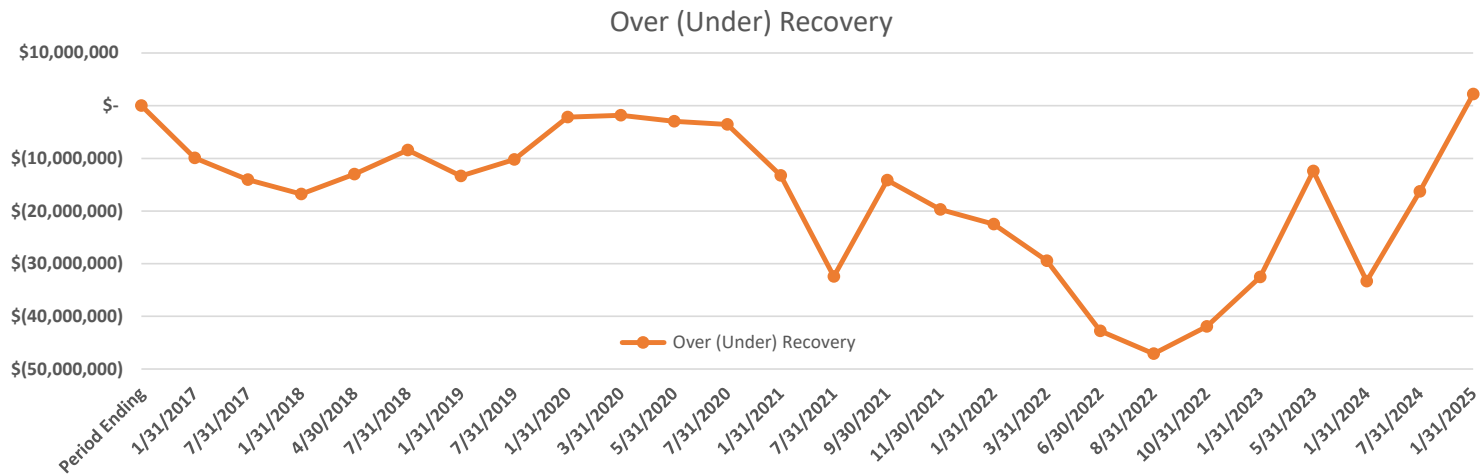
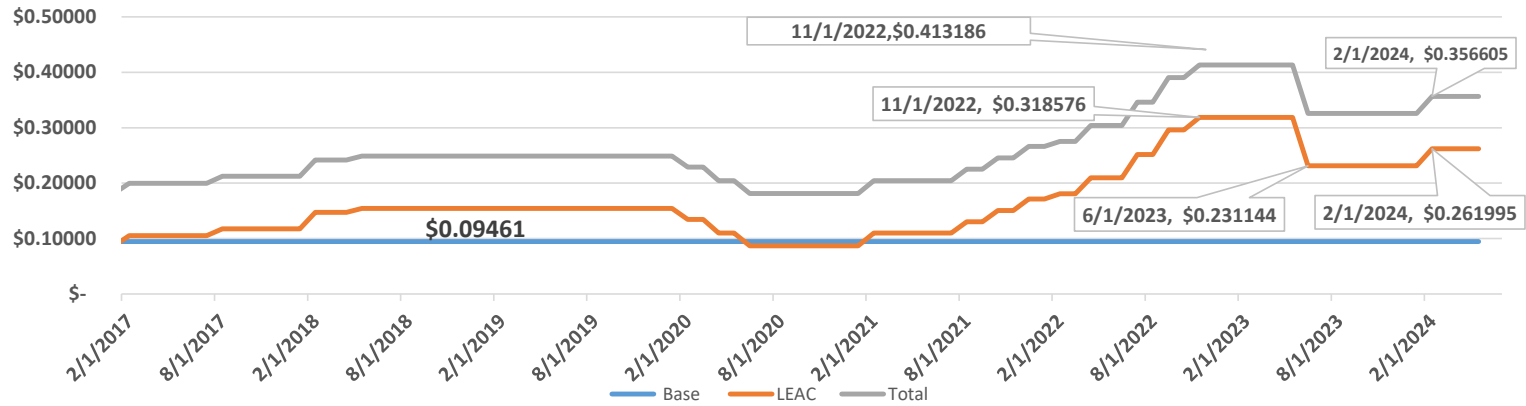


GUAM FUEL PRICES IMPACTED BY GEOGRAPHICAL & POLITICAL CONFLICTS



HISTORIC LEAC ADJUSTMENTS

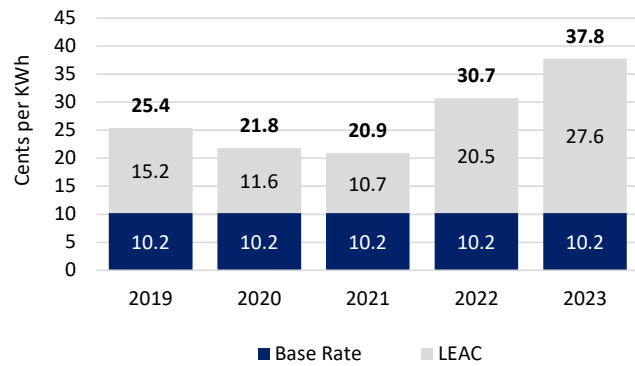
GPA recovers fuel related costs through the semi-annual Levelized Energy Adjustment Clause (LEAC) which recently has been highest in GPA history. Base rate has not changed since 2013



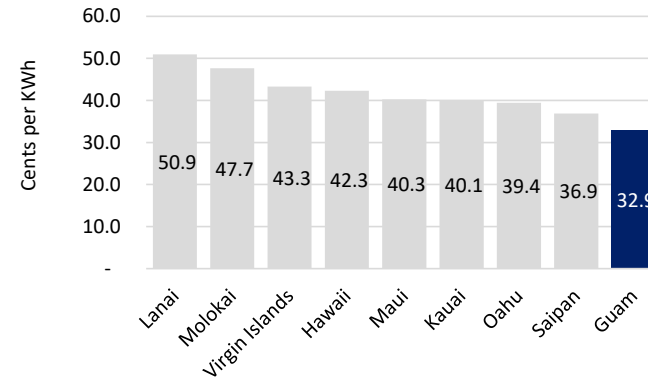
GPA RATE STRUCTURE

GPA recovers fixed costs through its Base Rate, fuel costs through the semi-annual Levelized Energy Adjustment Clause (LEAC), and any cost recovery through available surcharges

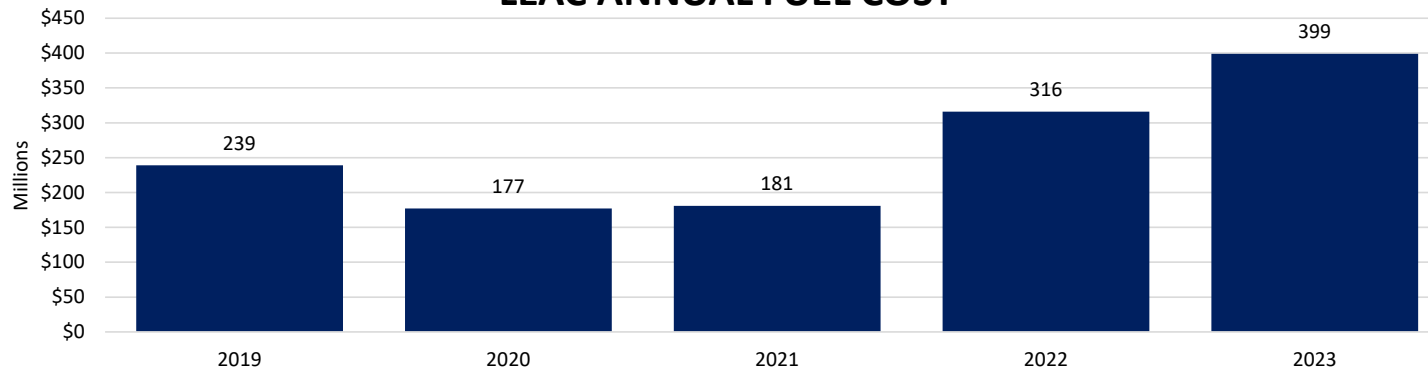
GPA System Average Rates (Fiscal Year)



Residential Rate Comparison¹



LEAC ANNUAL FUEL COST



Source: Guam Power Authority

1. Rates for Guam as of December 1, 2023; Rates for Kauai, Oahu, Molokai, Lanai, Hawaii and Maui as of December 1, 2023; Rates for Saipan as of December 1, 2023; and Rates for Virgin Islands as of March 1, 2022.



NEW CONVENTIONAL POWER GENERATION



Ukudu Power Plant 198 MW Combined Cycle *Cornerstone for Renewables*



Dual Fuel (Ultra-Low Sulfur Diesel and Liquefied Natural Gas)



51% Thermal Efficiency (GPA's most efficient conventional plant)



Decreases fuel oil import by 879,000 barrels per year



Utilizes treated wastewater for boiler and condenser cooling – No thermal discharge to the ocean



Highly Reliable; Includes 25MW Energy Storage Battery



Independent Power Producer (IPP) 25-year Contract with GUP



NEW RENEWABLE ENERGY GENERATION

Fossil-free living with the power of solar and wind

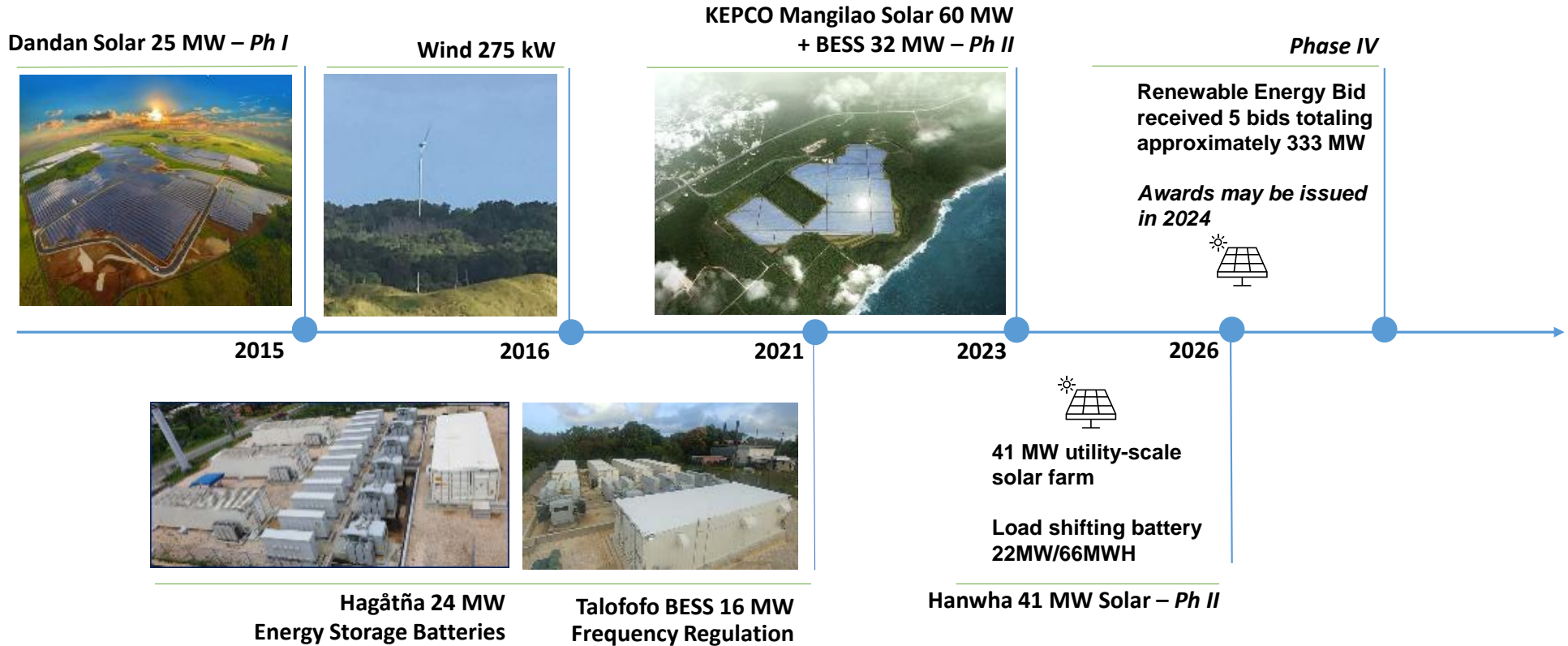
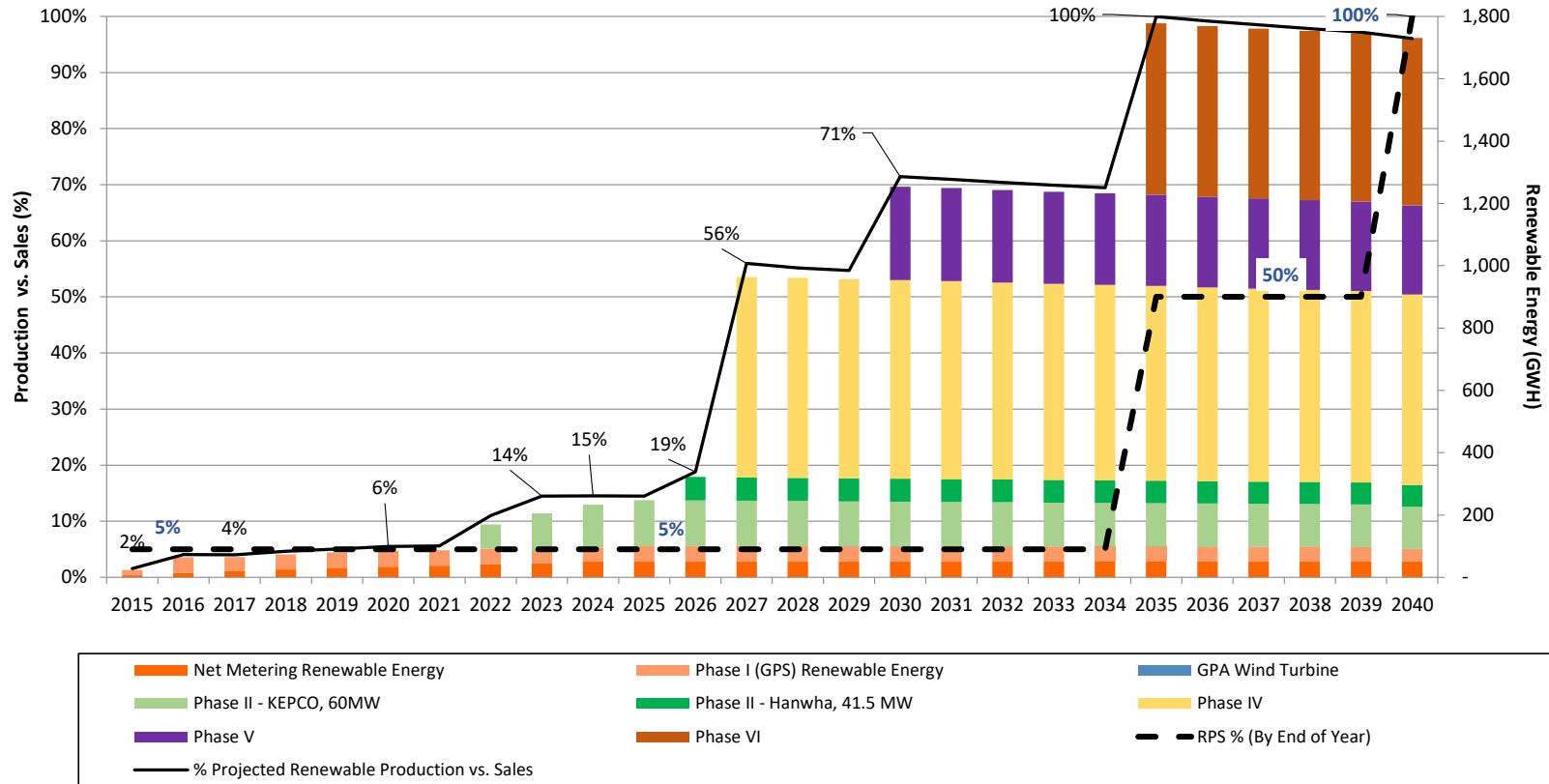


Photo Source: Guam Power Authority, pncguam.com, secc.co.kr



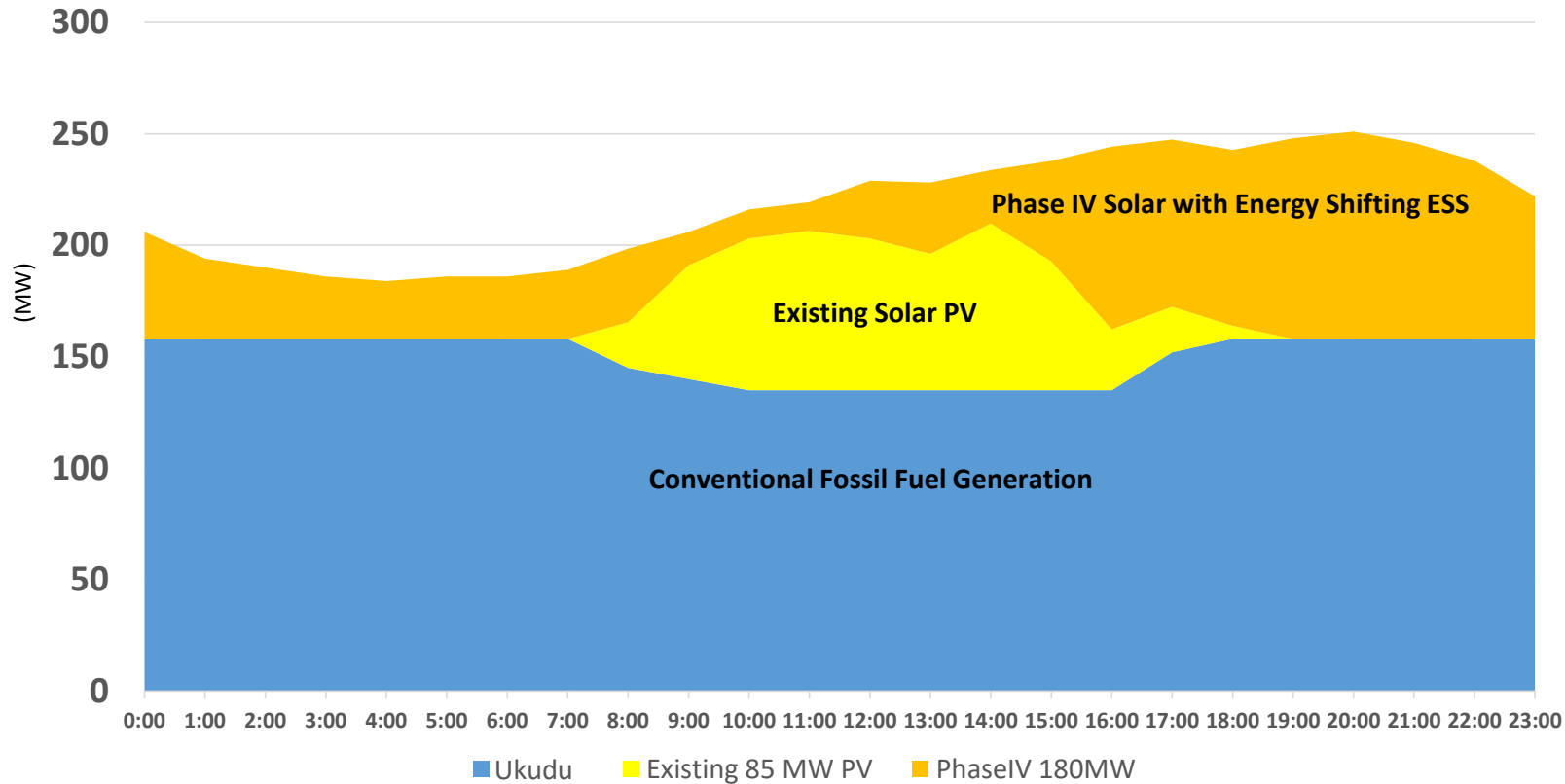
GPA'S JOURNEY TO 100% RENEWABLE ENERGY

Renewable Portfolio Standards (RPS) Tracking Projection thru 2040 *(as of 04/05/24)*



SIGNIFICANT REDUCTION IN OIL IMPORTS PROJECTED BY 2027

Daily Energy Dispatch in 2027



ANNUAL FUEL OIL IMPORTS

CY 2023
3.0 MBbls.
approximate



CY 2028
1.3 MBbls.
projected



SIGNIFICANT PROGRESS IN ENERGY GENERATION, SHIFTING, & CAPACITY

		Capacity (MW)			
		Contract Type	July 2024	July 2026	July 2028
PRIMARY GENERATION	Cabras 1&2	Owned	84	Retired	
	Piti 8&9	Owned	86.4	86.4	86.4
	Piti 7	Owned	40	40	40
	Macheche CT	Owned	20	20	20
	Yigo CT	Owned	20	20	20
	Dededo 1&2 CT	Owned	40	40	40
	Diesel Units (4MW)	Owned	33	40	40
	Yigo Diesels (1MW)	Owned	8	Retired	
	Aggreko Temp Diesels (0.8MW)	Temporary Svc	20	-	
	Tenjo Annex Diesels (1MW)	Owned	-	20	20
	Ukudu Power Plant	IPP (25 Yrs)	-	198	198
	Total Primary Capacity			351.4	464.4
RENEWABLE GENERATION	Dandan Solar	PPA (11 Yrs)	25	25	25
	Marbo Solar	PPA (23 Yrs)	60	60	60
	Wind Turbine	Owned	0.3	0.3	0.3
	Phase II/Hanwha Contract	PPA (25 Yrs)	-	41	41
	Phase IV Solar Bid – Potential Award		-	-	330
	Total Renewable Capacity			85.3	126.3
ESS SHIFTING	Dandan ESS Shifting		4	4	4
	Hanwha ESS Shifting	PPA (25 Yrs)	-	22	22
	Phase IV Bid – ESS Shifting	PPA (25 Yrs)	-	-	150
	Total ESS Shifting Capacity			4	26
TOTAL PRIMARY & ESS SHIFTING CAPACITY			355.4	490.4	640.4
Projected Peak Demand			260	270	289
% Reserves			36.7%	81.6%	127.9%
Est. Capacity Available for Growth			(11.6)	66.4	205.4



MS IFB GPA-012-23: PHASE IV RENEWABLES BID CHRONOLOGY

Bid Announcement	December 1, 2022
Question/Answer Period	December 1, 2022 - August 14, 2023
Submittal of Technical Proposal and Price*	November 6, 2023
Technical Proposal Review and Notification of Qualified Bidders	November 8 - December 5, 2023
Opening of Price Proposal of Qualified Bidders	December 20, 2023
Price Evaluation and Notification of Successful Bidders	December 20 - 29, 2023
System Integration Study Agreed to and Paid by Successful Bidders	February 8 - August 22, 2024 (continuing)
Contract Finalization	In Progress. Acceptable draft contract provided by GPA.
CCU Approval for Initial Proponents accepting SIS infrastructure requirement without change in price <i>CCU Resolution FY2024-29</i>	August 27, 2024 (target)
PUC Approval of CCU Resolution FY2024-29	September 30, 2024 (target)
CCU Approval of Additional Proponents	TBD (Rolling process as SIS and contract finalization are completed)
PUC Approval of Additional Proponents	One Month after CCU Approval

**Price proposals remained sealed until determination of bidder qualifications*

NOTE: PROCUREMENT PROCESS HAS TAKEN 21 MONTHS TO DATE; PRICING NOW AT 8 MONTHS VALIDITY AND TIME SENSITIVE



MS IFB GPA-012-23 - PHASE IV RENEWABLES BID SUMMARY

PROPONENT	1st. Year Price	ANNUAL kWh	AMOUNT	MW Capacity	ESS MW	ESS MWh	LOCATION
Mojave	\$ 0.150000	113,641,000	\$ 17,046,150	60.0	30.00	120.0	Dandan
Core Tech Solar	\$ 0.173618	114,545,000	\$ 19,887,061	60.0	30.00	120.0	Harmon
KEPCO/EWP/Samsung	\$ 0.178990	216,055,000	\$ 38,671,684	132.0	67.00	260.0	Cross Island Rd.
Power Solutions/SK	\$ 0.179000	58,105,000	\$ 10,400,795	26.4	15.00	88.1	Dededo
Power Solutions/SK	\$ 0.179000	58,093,000	\$ 10,398,647	26.4	15.00	88.1	Dededo
Power Solutions/SK	\$ 0.179000	9,655,000	\$ 1,728,245	4.4	2.75	16.5	Dededo
Power Solutions/SK	\$ 0.179000	9,367,000	\$ 1,676,693	4.4	2.75	16.5	Yigo
PEC/LMS	\$ 0.179000	8,342,210	\$ 1,493,256	5.0	2.75	16.5	Harmon
PEC/LMS	\$ 0.179000	8,411,420	\$ 1,505,644	5.0	2.75	16.5	Malojloj
PEC/LMS	\$ 0.179000	7,658,520	\$ 1,370,875	5.0	2.75	16.5	Pulantat
PEC/LMS	\$ 0.179000	8,420,020	\$ 1,507,184	5.0	2.75	16.5	Barrigada

Phase IV Totals: \$ 0.172607 612,293,170 \$105,686,234 333.6 173.5 775.2

MS IFB GPA-012-23

- 5** Proponents
- 11** Sites
- 336.6 MW**
612,293,170 kWh Combined Proposed Production



PHASE IV RENEWABLE ENERGY BID DISCUSSION

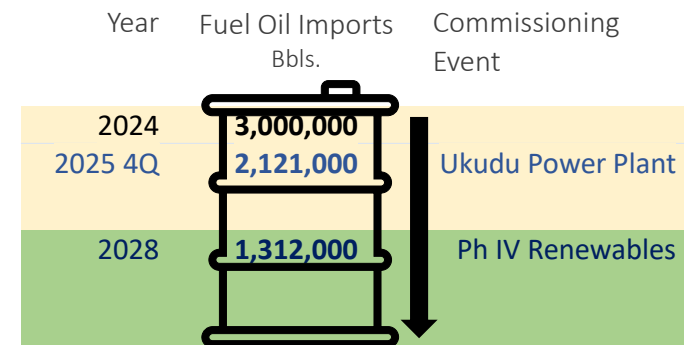
PROPOSALS SUBMITTED IN RESPONSE TO THE PHASE IV RENEWABLE ENERGY BID TOTALS 333.6MW

ACHIEVING THE RENEWABLE PORTFOLIO STANDARD MANDATE

- **GPA IS MANDATED TO ACHIEVE 50% RENEWABLES BY 2035.** If all proponents are awarded, GPA will achieve the RPS mandate by 2028.
- **The award of the proposals provide clear benefits for GPA and its ratepayers.** The government procurement process is burdensome and time-consuming. The current bid is nearing two years since announcement. Delaying awards will negatively impact ratepayer costs.

REDUCING GUAM'S ENERGY COSTS & CARBON FOOTPRINT

- **ULSD fuel oil prices will continue to rise and fluctuate** because it is a global commodity significantly impacted by global events. Every historic global and/or political event resulted in the slope of fuel prices maintaining an upward price trend.
- The price of ULSD prices has reached \$150+ per barrel within the past two years, soaring to \$186/Bbl. in 2022.
- **While GPA cannot control global fuel prices, efforts to reduce its fuel consumption significantly benefits ratepayers.**
 - The commissioning of the Ukudu Power Plant and Phase IV Renewables will reduce GPA fuel imports by ~56%.
 - The impact of global events, the perennial nemesis of GPA ratepayers, will have been reduced more than half.
 - **This paradigm shift in Guam energy generation and fuel sources will continue further as GPA continues to pursue renewables beyond 50%**



PHASE IV RENEWABLES BID DISCUSSION *CONTINUED*:

ACHIEVING OVERALL VALUE & AFFORDABILITY

- **The award of the Phase IV proposals will provide an excellent hedge against high ULSD fuel prices.**
 - GPA has used fuel oil hedging in past years to no success despite the assistance of hedging consultants.
 - GPA sets the annual escalator at no more than 1%, making these renewable energy contracts an excellent hedge. This condition protects ratepayers from having to see LEAC reach the high 20¢/kWh and into the 30¢/kWh range as it recently did.
- **GPA power purchase agreements add value to large tracts of land which are otherwise difficult to develop.**
 - As GPA enters more renewable energy contracts, the prices of large land tracts will likely increase because of their added value for energy production. However, large tracts with varying terrain and topography requiring substantial grading to install solar components will drive land and contract prices higher.
 - The award of the Phase IV proposals are time sensitive as proponents have limited land option contracts. Failure to issue timely awards jeopardize the feasibility and costs of these projects if the proponent's land options expire.
- **T&D infrastructure upgrades, although initially costly, improves the grid and prepares it for expansion.**
 - Limitations of existing transmission infrastructure are constraining low-cost utility-scale project sites.
 - Upgrades to 115 kV lines are becoming the norm and could cost upwards of \$0.02/kWh to install. As more higher voltage transmission lines are added into the grid, more and more renewables at lessor price could be added without additional expenses.
- **Energy Storage Systems (ESS) are required to shift daytime solar energy to non-daylight hours.**
 - ESS capable of 50% shifting increases renewable energy project pricing by about \$0.07/kWh, while a 100% shifting requirement raise the energy pricing over \$0.20/kWh.
 - The Phase IV bid required 50% energy shifting and a price cap of \$0.179/kWh.



PHASE IV RENEWABLES BID DISCUSSION *CONTINUED*:

IMPROVING ENERGY RELIABILITY, RESILIENCY, & READINESS

- **Energy Storage Systems provide reserve capacity to meet peak loads and future load growth.**
 - ESS provides reserve capacity, allowing GPA to reduce conventional reserve units and reduce cost.
 - DoD has noted their potential growth will raise their power requirements to 100+MW, compared to about 42MW in 2024.
 - Capacity to serve other growth areas, such as data centers, electric vehicles, island housing, etc., could be met by the ESS capabilities delivered by Phase IV projects.
- **Responding to the INDOPACOM threats and conflicts requires GPA ramp up its resiliency and reliability capacities.**
 - Having 50% of all the island's energy serve by renewables by end of 2027 goes a long way to achieving resiliency.
 - The reduction of energy from conventional plants increases our inventory capacity from 90 days to several months to sustain energy sustainability.

Note: On December 29, 2023, GPA issued to all proponents Notices of Intent to Award subject to their agreement and compliance with the system impact study infrastructure requirements (to be conducted for their technical proposals) with no change in bid price and further subject to CCU and PUC approvals



PHASE IV RENEWABLES BID RECOMMENDATION:

GPA recommends an initial award (Phase IV-A) of MS IFB GPA-012-23 totaling 192 MW of solar PV renewable energy to the following two proponents:

1. Core Tech Solar Energy, LLC
2. KEPCO-EWP-Samsung C&T Consortium

- ✓ Proponents have agreed to implement the recommendation of the system impact study with no change in bid price.
- ✓ It has been indicated that an award is time sensitive due to escalating project cost which could make a contract not economically feasible.

PROPONENT	1st. Year Price	ANNUAL kWh	AMOUNT	MW Capacity	ESS MW	ESS MWh	LOCATION
Core Tech Solar	\$ 0.173618	114,545,000	\$ 19,887,061	60	30	120	Harmon
KEPCO/EWP/Samsung	\$ 0.178990	216,055,000	\$ 38,671,684	132	67	260	Cross Island Rd.
Ph IV Awards (Pt 1) Totals:	\$ 0.177129	330,600,000	\$ 58,558,745	192	97	380	

- *GPA requests that this award be the first of a series of awards to be recommended over likely the next six months as each of the remaining bidders listed agree to installing the infrastructure delineated by the System Impact Study with no change in bid price.*
- *As noted earlier, GPA recommends awarding a contract to all the proponents qualified in the Phase IV bid.*



PROJECTED LEAC WITHOUT PHASE IV AWARD

	2024		2026		2027		2028		2029		2030	
0.2% S LSRFO \$/BBL	\$150											
ULSD \$/BBL	\$120		\$120		\$120		\$120		\$120		\$120	
LNG (\$/BBL Equivalent)											\$84	
CALENDAR YEAR	2024		2026		2027		2028		2029		2030	
Fuel Type	LSRFO/ULSD/Solar PV		ULSD/Solar PV Ukudu 198MW Commissioned Hanwha Ph II Commissioned		ULSD/Solar PV		ULSD/Solar PV		ULSD/Solar PV		ULSD/Solar PV/LNG Ukudu Steam Turbine O/H LNG Alternative	
	Net Production	Annual Cost	Net Production	Annual Cost	Net Production	Annual Cost	Net Production	Annual Cost	Net Production	Annual Cost	Net Production	Annual Cost
GPA Conventional												
Ukudu New 198MW			1,285,678,568	\$183,668,367	1,364,723,154	\$194,960,451	1,364,723,154	\$194,960,451	1,364,723,154	\$194,960,451	1,364,723,154	\$194,960,451
Cabras 1&2 0.2% LSRFO	512,000,000	\$140,659,341	-	-	-	-	-	-	-	-	-	-
Piti 8&9 ULSD	602,000,000	\$110,967,742	113,000,000	\$20,829,493	113,000,000	\$20,829,493	177,044,586	\$32,634,947	256,089,172	\$47,205,377	335,133,758	\$61,755,808
Total Baseload	1,114,000,000	\$251,627,083	1,398,678,568	\$204,497,860	1,477,723,154	\$215,789,944	1,541,767,740	\$227,595,397	1,620,812,326	\$242,165,828	1,699,856,912	\$256,736,259
Total Non-Baseload Units	307,391,609	\$79,841,976	10,000,000	\$2,597,403	10,000,000	\$2,484,472	25,000,000	\$5,952,381	25,000,000	\$5,952,381	25,000,000	\$5,952,381
GPA Renewables												
GlidePath PV I \$0.215/kWh	54,000,000	\$11,610,000	54,000,000	\$11,842,200	54,000,000	\$11,961,000	54,000,000	\$12,079,800	54,000,000	\$12,204,000	54,000,000	\$11,610,000
KEPCO PV II \$0.0867/kWh	141,912,000	\$12,303,770	141,912,000	\$12,559,212	141,912,000	\$12,672,742	141,912,000	\$12,800,462	141,912,000	\$12,928,183	141,912,000	\$13,055,904
Hanwha PV II \$0.143/kWh			79,000,000	\$11,297,000	79,000,000	\$11,407,600	79,000,000	\$11,526,100	79,000,000	\$11,636,700	79,000,000	\$11,755,200
Ph IV-A 192MW \$0.177/kWh												
Ph IV-B 141MW \$0.167/kWh												
Ph V VPP & Other \$0.17/kWh												
Total GPA Renewables	195,912,000	\$23,913,770	274,912,000	\$35,698,412	274,912,000	\$36,041,342	274,912,000	\$36,406,362	274,912,000	\$36,768,883	274,912,000	\$36,421,104
Total Conventional	1,421,391,609	\$331,469,059	1,408,678,568	\$207,095,263	1,487,723,154	\$218,274,416	1,566,767,740	\$233,547,778	1,645,812,326	\$248,118,209	1,724,856,912	\$262,688,639
Net Metering kWh	54,312,000		55,398,240		56,506,205		57,636,329		58,789,055		59,964,837	
Conventional \$/kWh		\$0.2332		\$0.1470		\$0.1467		\$0.1491		\$0.1508		\$0.1523
Renewables \$/kWh		\$0.1221		\$0.1299		\$0.1311		\$0.1324		\$0.1337		\$0.1325
System Production Cost		\$355,382,829		\$242,793,675		\$254,315,757		\$269,954,141		\$284,887,092		\$299,109,743
System \$/kWh		\$0.2197		\$0.1442		\$0.1443		\$0.1466		\$0.1483		\$0.1496
% Renewable Energy		15.0%		19.0%		18.2%		17.5%		16.9%		16.3%



PROJECTED LEAC WITH PHASE IV AWARD

	2024		2026		2027		2028		2029		2030	
0.2% S LSRFO \$/BBL	\$150											
ULSD \$/BBL	\$120		\$120		\$120		\$120		\$120		\$120	
LNG (\$/BBL Equivalent)											\$84	
CALENDAR YEAR	2024		2026		2027		2028		2029		2030	
Fuel Type	LSRFO/ULSD/Solar PV		ULSD/Solar PV Ukudu 198MW Commissioned Hanwha Ph II Commissioned		ULSD/Solar PV		ULSD/Solar PV Ph IVA 192MW Commissioned		ULSD/Solar PV Ph IVB 141 Commissioned		ULSD/Solar PV/LNG Ukudu Steam Turbine O/H LNG Alternative	
	Net Production	Annual Cost	Net Production	Annual Cost	Net Production	Annual Cost	Net Production	Annual Cost	Net Production	Annual Cost	Net Production	Annual Cost
GPA Conventional												
Ukudu New 198MW			1,285,678,568	\$183,668,367	1,364,723,154	\$194,960,451	1,206,167,740	\$172,309,677	828,319,156	\$118,331,308	852,363,742	\$121,766,249
Cabras 1&2 0.2% LSRFO	512,000,000	\$140,659,341										
Piti 8&9 ULSD	602,000,000	\$110,967,742	113,000,000	\$20,829,493	113,000,000	\$20,829,493	20,000,000	\$3,686,636	20,000,000	\$3,686,636	60,000,000	\$11,059,908
Total Baseload	1,114,000,000	\$251,627,083	1,398,678,568	\$204,497,860	1,477,723,154	\$215,789,944	1,226,167,740	\$175,996,313	848,319,156	\$122,017,944	912,363,742	\$132,826,157
Total Non-Baseload Units	307,391,609	\$79,841,976	10,000,000	\$2,597,403	10,000,000	\$2,484,472	10,000,000	\$2,380,952	10,000,000	\$2,380,952	25,000,000	\$5,952,381
GPA Renewables												
GlidePath PV I \$0.215/kWh	54,000,000	\$11,610,000	54,000,000	\$11,842,200	54,000,000	\$11,961,000	54,000,000	\$12,079,800	54,000,000	\$12,204,000	54,000,000	\$11,610,000
KEPCO PV II \$0.0867/kWh	141,912,000	\$12,303,770	141,912,000	\$12,559,212	141,912,000	\$12,672,742	141,912,000	\$12,800,462	141,912,000	\$12,928,183	141,912,000	\$13,055,904
Hanwha PV II \$0.143/kWh			79,000,000	\$11,297,000	79,000,000	\$11,407,600	79,000,000	\$11,526,100	79,000,000	\$11,636,700	79,000,000	\$11,755,200
Ph IV-A 192MW \$0.177/kWh							330,600,000	\$58,549,260	330,600,000	\$59,134,753	330,600,000	\$59,739,420
Ph IV-B 141MW \$0.167/kWh									281,693,170	\$47,127,267	281,693,170	\$47,606,146
Ph V VPP & Other \$0.17/kWh									175,200,000	\$29,784,000	175,200,000	\$30,081,840
Total GPA Renewables	195,912,000	\$23,913,770	274,912,000	\$35,698,412	274,912,000	\$36,041,342	605,512,000	\$94,955,622	1,062,405,170	\$172,814,903	1,062,405,170	\$173,848,510
Total Conventional	1,421,391,609	\$331,469,059	1,408,678,568	\$207,095,263	1,487,723,154	\$218,274,416	1,236,167,740	\$178,377,266	858,319,156	\$124,398,896	937,363,742	\$138,778,538
Net Metering kWh	54,312,000		55,398,240		56,506,205		57,636,329		58,789,055		59,964,837	
Conventional \$/kWh		\$0.2332		\$0.1470		\$0.1467		\$0.1443		\$0.1449		\$0.1481
Renewables \$/kWh		\$0.1221		\$0.1299		\$0.1311		\$0.1568		\$0.1627		\$0.1636
System Production Cost		\$355,382,829		\$242,793,675		\$254,315,757		\$273,332,888		\$297,213,800		\$312,627,047
System \$/kWh		\$0.2197		\$0.1442		\$0.1443		\$0.1484		\$0.1547		\$0.1563
% Renewable Energy		15.0%		19.0%		18.2%		34.9%		56.6%		54.5%



LEAC SENSITIVITY WITHOUT AND WITH PHASE IV RENEWABLES

PROJECTED LEAC RATE WITHOUT PHASE IV RENEWABLES AWARD							Liquefied Natural Gas (LNG)
<u>ULSD FUEL PRICE/BARREL</u>	<u>2024</u>	<u>2026</u>	<u>2027</u>	<u>2028</u>	<u>2029</u>	<u>2030</u>	<u>2030</u>
\$100	\$ 0.1856	\$ 0.1237	\$ 0.1236	\$ 0.1254	\$ 0.1268	\$ 0.1277	\$ 0.1033
\$120	\$ 0.2197	\$ 0.1442	\$ 0.1443	\$ 0.1466	\$ 0.1483	\$ 0.1496	\$ 0.1203
\$150	\$ 0.2710	\$ 0.1750	\$ 0.1752	\$ 0.1783	\$ 0.1806	\$ 0.1824	\$ 0.1459
\$175	\$ 0.3137	\$ 0.2006	\$ 0.2010	\$ 0.2047	\$ 0.2075	\$ 0.2098	\$ 0.1671
\$200	\$ 0.3564	\$ 0.2262	\$ 0.2268	\$ 0.2311	\$ 0.2344	\$ 0.2371	\$ 0.1884
PROJECTED LEAC RATE WITH PHASE IV RENEWABLES AWARD							Liquefied Natural Gas (LNG)
<u>ULSD FUEL PRICE/BARREL</u>	<u>2024</u>	<u>2026</u>	<u>2027</u>	<u>2028</u>	<u>2029</u>	<u>2030</u>	<u>2030</u>
\$100	\$ 0.1856	\$ 0.1237	\$ 0.1236	\$ 0.1323	\$ 0.1439	\$ 0.1448	\$ 0.1295
\$120	\$ 0.2197	\$ 0.1442	\$ 0.1443	\$ 0.1484	\$ 0.1547	\$ 0.1563	\$ 0.1381
\$150	\$ 0.2710	\$ 0.1750	\$ 0.1752	\$ 0.1726	\$ 0.1709	\$ 0.1737	\$ 0.1508
\$175	\$ 0.3137	\$ 0.2006	\$ 0.2010	\$ 0.1928	\$ 0.1844	\$ 0.1881	\$ 0.1615
\$200	\$ 0.3564	\$ 0.2262	\$ 0.2268	\$ 0.2130	\$ 0.1979	\$ 0.2026	\$ 0.1722



LEAC VARIANCE WITHOUT & WITH PH IV RENEWABLES @ VARIOUS FUEL PRICES

ULSD FUEL PRICE/BARREL	2024	2026	2027	2028	2029	2030
Without Phase IV @ \$100/Bbl	\$ 0.1856	\$ 0.1237	\$ 0.1236	\$ 0.1254	\$ 0.1268	\$ 0.1277
With Phase IV @ \$100/Bbl	\$ 0.1856	\$ 0.1237	\$ 0.1236	\$ 0.1323	\$ 0.1439	\$ 0.1448
Variance				(\$0.0069)	(\$0.0171)	(\$0.0171)
ULSD FUEL PRICE/BARREL	2024	2026	2027	2028	2029	2030
Without Phase IV @ \$120/Bbl	\$ 0.2197	\$ 0.1442	\$ 0.1443	\$ 0.1466	\$ 0.1483	\$ 0.1496
With Phase IV @ \$120/Bbl	\$ 0.2197	\$ 0.1442	\$ 0.1443	\$ 0.1484	\$ 0.1547	\$ 0.1563
Variance				(\$0.0018)	(\$0.0064)	(\$0.0067)
ULSD FUEL PRICE/BARREL	2024	2026	2027	2028	2029	2030
Without Phase IV @ \$150/Bbl	\$ 0.2710	\$ 0.1750	\$ 0.1752	\$ 0.1783	\$ 0.1806	\$ 0.1824
With Phase IV @ \$150/Bbl	\$ 0.2710	\$ 0.1750	\$ 0.1752	\$ 0.1726	\$ 0.1709	\$ 0.1737
Variance				\$0.0057	\$0.0097	\$0.0087
ULSD FUEL PRICE/BARREL	2024	2026	2027	2028	2029	2030
Without Phase IV @ \$175/Bbl	\$ 0.3137	\$ 0.2006	\$ 0.2010	\$ 0.2047	\$ 0.2075	\$ 0.2098
With Phase IV @ \$175/Bbl	\$ 0.3137	\$ 0.2006	\$ 0.2010	\$ 0.1928	\$ 0.1844	\$ 0.1881
Variance				\$0.0119	\$0.0231	\$0.0217
ULSD FUEL PRICE/BARREL	2024	2026	2027	2028	2029	2030
Without Phase IV @ \$200/Bbl	\$ 0.3564	\$ 0.2262	\$ 0.2268	\$ 0.2311	\$ 0.2344	\$ 0.2371
With Phase IV @ \$200/Bbl	\$ 0.3564	\$ 0.2262	\$ 0.2268	\$ 0.2130	\$ 0.1979	\$ 0.2026
Variance				\$0.0181	\$0.0365	\$0.0345



PHASE IV RENEWABLES PROVIDE CAPACITY FOR GROWTH

	WITHOUT PHASE IV	WITH PHASE IV
Ukudu Power Plant	198	198
Piti 8&9	86	86
Piti 7	31	31
Macheche CT	20	20
Yigo CT	20	20
Dededo CTs	40	40
Tenjo Diesels	20	20
Manenggon Diesels	8	8
Talofofa Diesels	8	8
Yigo Diesels Replacement (online 2026)	20	20
Total Conventional Capacity:	451	451
Renewables + Shifting ESS	22	195
TOTAL CAPACITY:	473	646
Reserve Requirement	146	146
Load Capacity	327	500
Projected Demand 2028 – 2% Growth	289	289
Capacity for Growth in 2028:	38	211
Additional Military Demand by 2033	44	44
Additional Demand 2033 – 2% Growth	30	30
Projected 2033 Total Growth – 2% Growth	74	74
Capacity for Growth in 2028	38	211
BALANCE FOR GROWTH/UNIT RETIREMENTS:	(36)	137

Phase IV Projects with ESS capacity provides capacity to meet growth, and customer demands for greater energy reliability and resiliency.

CONSIDERATIONS:

- Without adequate load capacity,
 - Retirement of older units not recommended
 - Load-shedding is possible
- Current reserve units will be 35 years old by 2028
- Military demand may ramp up quickly to address regional threats. The Phase IV projects provide capacity to GPA to meet concurrent customer needs.



SUMMARY

GPA RECOMMENDS THE AWARD TO ALL PHASE IV RENEWABLE BIDDERS (MS IFB-012-23) WHO COMPLY WITH SYSTEM IMPACT STUDY INFRASTRUCTURE REQUIREMENT WITHOUT A CHANGE IN BID PRICE

PH IV-A

Initial Awards

- Two of the five qualified proponents have substantially completed the System Impact Studies and contract negotiations with GPA. The parties are prepared to proceed to the award phase of the procurement process.
- The 2 proposals total 192MW solar PV with 97MW/280MWh ESS capacity.
- The lengthy procurement process stresses proponents’ ability to maintain price validity, increasing the time sensitivity to award.
- GPA requests the CCU’s approval to proceed with an initial award to proponents KEPCO/EWP/Samsung and Core Tech Solar. Together, 192MW solar PV with 97MW/280MWh ESS capacity 97MW/280MWH will be awarded.

PH IV-B

Remaining Awards

- GPA will recommend the CCU and PUC approve the award to the remaining proponents upon completion of the SIS and contract negotiations.

PHASE IV renewable projects provide a **significant hedge against perennially rising fuel prices** resulting in recent \$0.31/kWh LEAC. Ukudu and Ph IV projects will keep LEAC below \$0.20/kWh despite rising fuel prices.

The combination of efficient conventional energy and energy shifting renewable energy capacity provides **reliability and resiliency for Guam ratepayers.**

The added capacity from Ph IV is allows GPA to **meet future demand growth, retire units as needed, and achieve the 50% renewable portfolio mandate** ahead of schedule.





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

Issues for Decision

GPA Resolution No. FY2024-30

RELATIVE TO APPROVAL OF THE REPAIR AND OVERHAUL OF THE OROTE POWER PLANT

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

Navy has requested for GPA to assist with the repair/overhaul of the Orote Power Plant. The Navy-owned plant consists of three 6.8 MW Wartsila units and is located on Naval Base Guam. GPA and Navy through the Commander, Joint Region Marianas have an Inter-Governmental Support Agreement (IGSA) in place for the purpose of providing each other with mutual assistance of electrical power goods and support services. Orote Power Plant is a critical power source for the Naval Base and has supported GPA during GPA generation capacity shortfalls. Orote Power Plant is considered a critical capacity reserve until the Ukudu Power Plant is commissioned in September 2025

Where is the location?

The Orote Power Plant is located in Naval Base Guam in Agat.

How much will it cost?

The estimated cost is \$3M

When will it be completed?

The estimated completion is 150 days and is depending on the availability of parts.

What is its funding source?

Reimbursement from Navy through the IGSA.

The RFP/BID responses:

Wartsila is the sole source vendor as justified by Navy as the original equipment manufacturer (OEM).



CONSOLIDATED COMMISSION ON UTILITIES
Guam Power Authority | Guam Waterworks Authority
P.O. Box 2977 Hagatna, Guam 96932 | (671)649-3002 | guamccu.org

RESOLUTION NO. FY2024 - 30

**RELATIVE TO APPROVAL OF THE REPAIR AND OVERHAUL
OF THE NAVY-OWNED OROTE POWERPLANT**

1
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WHEREAS, Guam Power Authority (GPA) and Commander, Joint Region Marianas (CJRM), renewed the Inter-Governmental Support Agreement (IGSA) for another 10- year period in June 2023 for the purpose of providing each other with mutual assistance of electrical power goods and support services; and

WHEREAS, CJRM has requested GPA to assist with the repair and overhaul services for the Orote Power Plant located on Naval Base Guam (NBG); and

WHEREAS, the Orote Power Plant consists of three 6.8MW Wartsila diesel engines; and

WHEREAS, the diesel engines were recently assessed by Wartsila and Navy has justified use of the original equipment manufacturer (OEM) to provide the repair and overhaul services; and

WHEREAS, GPA requests for approval of up to \$3M based on an initial estimate for all work related to the Orote Power Plant which is a reimbursable cost to GPA under the IGSA from Navy that will not produce an increased revenue requirement and as such notice shall be provided to the Guam Public Utilities Commission under its contract review protocol; and

WHEREAS, presently two diesel engines at the Orote Power Plant are operational and have provided support to the Island Wide Power System during GPA generation capacity shortfalls and is a critical capacity reserve resource until the Ukudu Power Plant is commissioned in September 2025; and

WHEREAS, Navy has requested to expedite this service to ensure power supply to the Naval Base Guam at all times especially after typhoons.

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

- 1 1. GPA is approved to contract Wartsila, to provide repair and overhaul services on the
- 2 Orote Power Plant which shall be reimbursed by Navy under the IGSA.
- 3 2. GPA shall notify the PUC of the contract as required by the contract review protocol.
- 4

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

7 **DULY AND REGULARLY ADOPTED AND APPROVED THIS ___TH DAY OF**
 8 **August, 2024.**

9 Certified by: _____ Attested by: _____
 10
 11 _____

12 **JOSEPH T. DUENAS** **PEDRO ROY MARTINEZ**
 13 Chairperson Secretary
 14 Consolidated Commission on Utilities Consolidated Commission on Utilities

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

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

21
 22 Ayes: _____
 23 Nays: _____
 24 Absent: _____
 25 Abstain: _____

GPA WORK SESSION

Presentation to:

Consolidated Commission on Utilities
August 22, 2024



GM REPORT



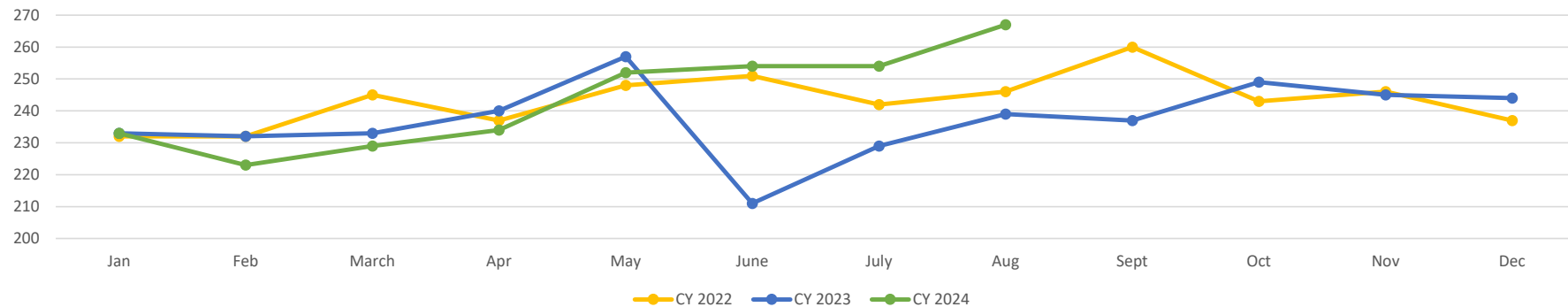
General Manager's Report

Reserve Margin Forecast for September 2024:

Targeted Available Capacity:	297 MW (All Baseloads Available)
Projected Demand:	262 MW
Anticipated Reserve Margin:	35 MW
Interruptible Load Availability:	16 MW
Navy Assistance (Orote)	12 MW
Total Reserves:	63 MW

System Peak Demand:

MONTHLY PEAK DEMAND
THRU August 13, 2024



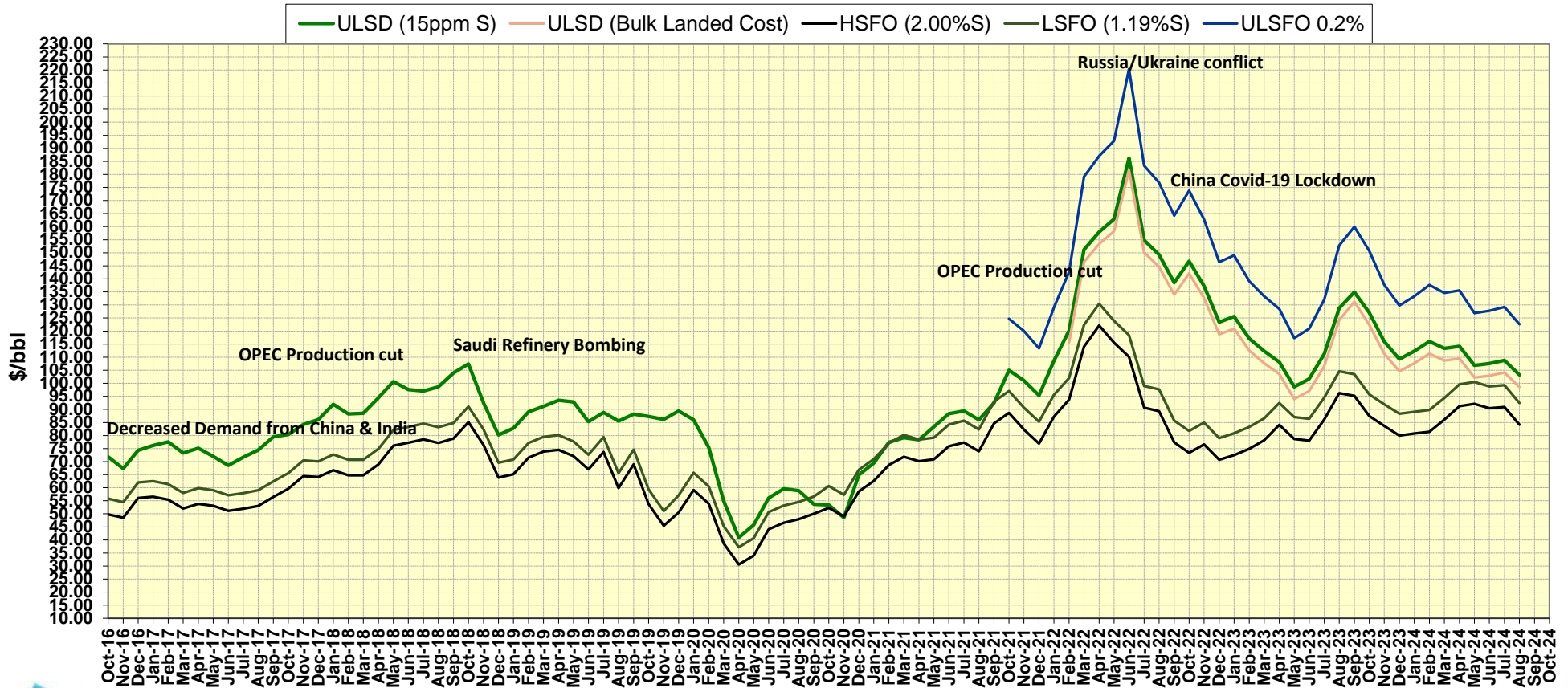
General Manager's Report

GPA Fuel Landed Cost (Per Barrel as of August 19, 2024)

ULSRFO 0.2% \$122.63

ULSD Bulk \$98.55

Fuel Prices (Landed Cost) - Progressive Chart



General Manager's Report

PUC Update:

Dockets heard and passed in the month of July:

- Docket No. 24-16: Petition to Approve the Energy Conversion Agreement (ECA) Amendment for the Ukudu Power Plant
- Docket No. 24-20: Petition to Maintain the Levelized Energy Adjustment Clause (LEAC) for the Period of August 1, 2024 through January 31, 2025

Dockets to be heard for the month of August:

- Docket No. 24-21: Petition to Approve the Contract with TEMES, Inc. to Overhaul Piti 7
- Docket No. 24-22: Petition to Approve the Construction of the New Transmission & Distribution Facility

Pending Dockets:

- Docket No. 24-03: Petition to Review 12 GCA § 8502(c)(2)(B) Relative to Net Metering - this docket will not be heard until further notice.



General Manager’s Report

Customer Assistance

Prugrãman Ayuda Para I Taotao-Ta Energy Credit

- Public Law 37-104, formerly known as Bill No. 277-37, was signed into law on June 5, 2024. This marks the 5th extension to the Energy Credit Program.

No.	Bill No.	Public Law No.	Date Signed	Amount	Start	End
1	325-36	36-106	07/27/2022	\$500	JUL 2022	NOV 2022
2	357-36	36-123	12/17/2022	\$500	DEC 2022	APR 2023
3	83-37	37-16	05/22/2023	\$500	MAY 2023	SEP 2023
4	173-37	37-49	11/10/2023	\$300	OCT 2023	DEC 2023
5	208-37	37-66	02/26/2024	\$300	JAN 2024	MAR 2024
6	277-37	37-104	06/05/2024	\$600	APR 2024	SEP 2024

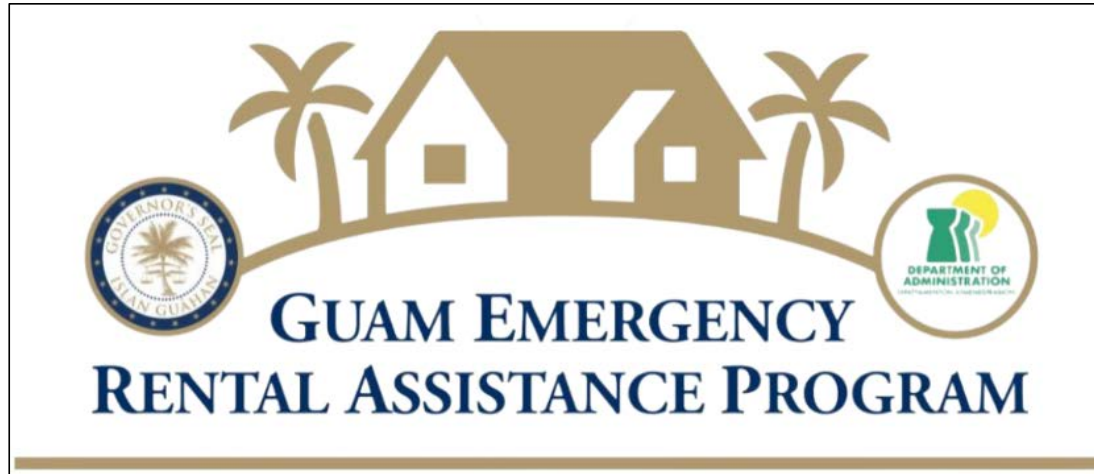
\$2,700

- Bill No. 277-37 initially requested for a three-month extension (April, May, June) but was later amended to a six-month extension (to include July, August, and September) totaling \$600 in energy credits for GPA customers.
- GPA received three allotments for the energy credit program just days apart and were immediately applied to all active accounts:
 - First \$100 energy credit (April 2024) received and applied on Thursday, June 13, 2024.
 - Second \$100 energy credit (May 2024) received and applied on Friday, June 21, 2024.
 - Third \$100 energy credit (June 2024) received and applied on Thursday, June 27, 2024
 - Fourth \$100 energy credit (July 2024) received and applied on Saturday, July 27, 2024.



General Manager's Report

Customer Assistance *(continued)*



Emergency Rental Assistance Program (ERA)

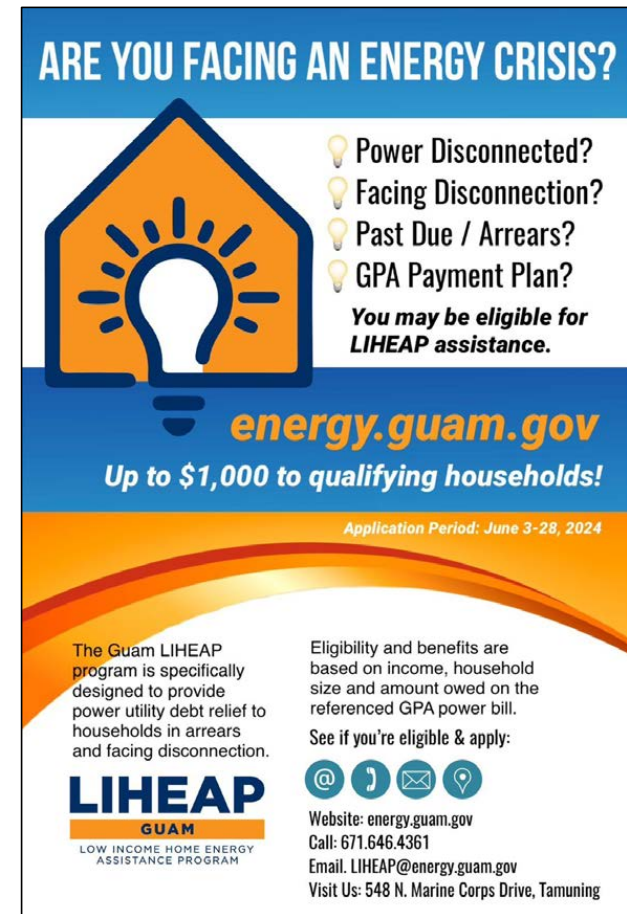
- \$104,633.31 was applied to qualified ratepayer accounts [Batch 312 - 317] for July 2024, totaling \$7,164,468.03 since the program's inception.

General Manager's Report

Customer Assistance *(continued)*

Low Income Home Energy Assistance Program (LIHEAP)

- Cycle 2 application period, which ran from July 8, 2024 to August 2, 2024, produced 352 applications [Batch 4 – 8] with \$245,708.88 applied to qualified ratepayer accounts.
- Total amount applied since inception of program is \$405,965.88 covering 573 ratepayer accounts.
- Cycle 3 application period is now open from August 5, 2024 to September 13, 2024.
- The Guam LIHEAP program is specifically designed to provide power utility debt relief to households in arrears and facing disconnection.
- LIHEAP provides a one-time payment of up to \$1,000 to qualifying households facing energy crisis.



ARE YOU FACING AN ENERGY CRISIS?

- 💡 Power Disconnected?
- 💡 Facing Disconnection?
- 💡 Past Due / Arrears?
- 💡 GPA Payment Plan?

You may be eligible for LIHEAP assistance.

energy.guam.gov

Up to \$1,000 to qualifying households!

Application Period: June 3-28, 2024

The Guam LIHEAP program is specifically designed to provide power utility debt relief to households in arrears and facing disconnection.

Eligibility and benefits are based on income, household size and amount owed on the referenced GPA power bill.

See if you're eligible & apply:

LIHEAP GUAM
LOW INCOME HOME ENERGY ASSISTANCE PROGRAM

Website: energy.guam.gov
Call: 671.646.4361
Email: LIHEAP@energy.guam.gov
Visit Us: 548 N. Marine Corps Drive, Tamuning

General Manager's Report

Customer Engagement & Community Outreach - 80th Liberation Day Parade - Sunday, July 21, 2024

- To commemorate this year's Liberation Parade theme "Peace for us always", GPA proudly presented their dedicated team of GPA linemen and SPORD team members as participants in the parade convoy.
- T&D Linemen crew participated in the parade convoy accompanied with 4 bucket trucks, 1 sprayer truck and 2 utility trucks.
- SPORD personnel showcased GPA's EV vehicle symbolizing our journey towards a cleaner, greener and more peaceful Guam.
- SPORD interns handed out GPA promotional items to parade-goers.



General Manager's Report

Workforce Succession & Planning Updates



APPRENTICE

5th Cycle – Completed Oct 2023

6th Cycle – Completion Oct 2024

7th Cycle – Onboard April 2024



INTERNSHIP

Extended Terms and Internship Areas

- Cybersecurity
- Human Resources
- Finance
- Engineering
- Administrative

Summer Interns: June – September 2024

UOG partnership signed



IN-HOUSE TRAINING

1st cycle – Trainees complete in year 2;
Estimated Completion by
Mar 2025

General Manager's Report

DSM Online Report - July 2024

OVERALL COUNTS

Month	ALL			COMMERCIAL			RESIDENTIAL		
	Applications	Equipment	Rebates	Applications	Equipment	Rebates	Applications	Equipment	Rebates
FY-2022*	696	981	\$ 196,075	7	12	\$ 1,950	689	969	\$ 194,125
FY-2023	5,721	7,992	\$ 1,621,850	67	101	\$ 19,350	5,654	7,891	\$ 1,602,500
Oct-23	416	569	\$ 115,250	7	12	\$ 1,800	409	557	\$ 113,450
Nov-23	450	654	\$ 128,500	4	5	\$ 700	446	649	\$ 127,800
Dec-23	389	558	\$ 111,650	7	10	\$ 1,950	382	548	\$ 109,700
Jan-24	442	607	\$ 125,800	3	3	\$ 2,550	439	604	\$ 123,250
Feb-24	321	459	\$ 103,175	6	7	\$ 7,100	315	452	\$ 96,075
Mar-24	391	589	\$ 118,650	5	5	\$ 2,450	386	584	\$ 116,200
Apr-24	433	564	\$ 113,350	6	6	\$ 800	427	558	\$ 112,550
May-24	443	641	\$ 126,250	4	4	\$ 600	439	637	\$ 125,650
Jun-24	456	673	\$ 134,100	7	8	\$ 3,850	449	665	\$ 130,250
Jul-24	570	782	\$ 161,675	14	16	\$ 3,500	556	766	\$ 158,175
Aug-24									
Sep-24									
TOTAL	10,728	15,069	\$ 3,056,325	137	189	\$ 46,600	10,591	14,880	\$ 3,009,725

AVERAGES

As of Jul-24	ALL		COMMERCIAL		RESIDENTIAL	
	Applications	Equipment	Applications	Equipment	Applications	Equipment
Rebates	\$ 285	\$ 203	\$ 340	\$ 247	\$ 284	\$ 202
Applications	488	685	6	9	481	676

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



General Manager's Report

Ukudu Power Plant Update:

GPA ACTIVITIES

Ongoing:

- ECA Amendment - PUC approved the ECA amendment on July 25th, 2024
- Water & Wastewater Requirements - GPA is coordinating with GWA to modify the GWA NPDES permit. According to GWA, the permit modification is on schedule.

GUP ACTIVITIES

Typhoon Mawar Restoration:

- Tank Restoration - GUP/DUP has completed hydro-testing all ULSD and Treated Water Tanks

Construction:

- Reuse Water Facility – Building permit has been issued. Civil work is ongoing

Schedule Update:

- The new COD has been agreed to by GPA and GUP and approved by PUC.



General Manager's Report

Ukudu Power Plant Construction Status

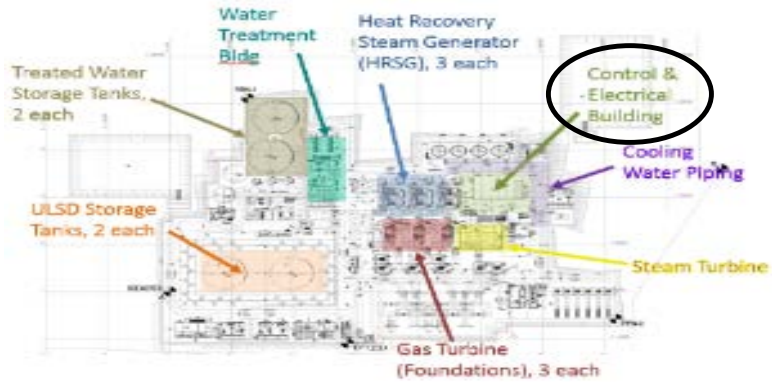
Plant construction progresses steadily. Major work includes: Painting of ULSD Tanks, cable pulling & termination, Reuse Water Facility excavation & pipe installation.

Actual accumulated progress including Engineering, Procurement, and Construction: **89.46%**
(as of July 31, 2024)



General Manager's Report

Ukudu Power Plant Construction Status



Control Room



Control & Electrical Building



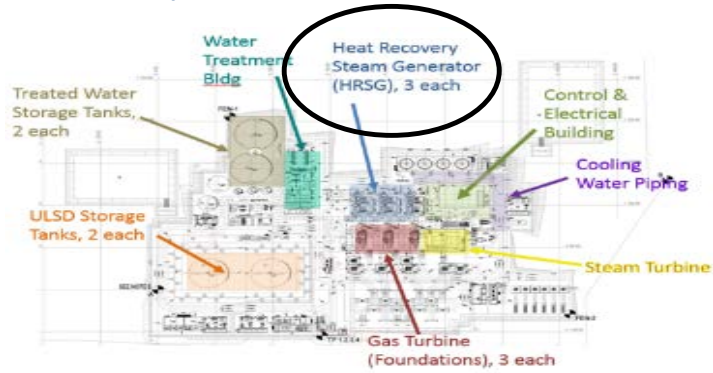
MV Switchgear Area



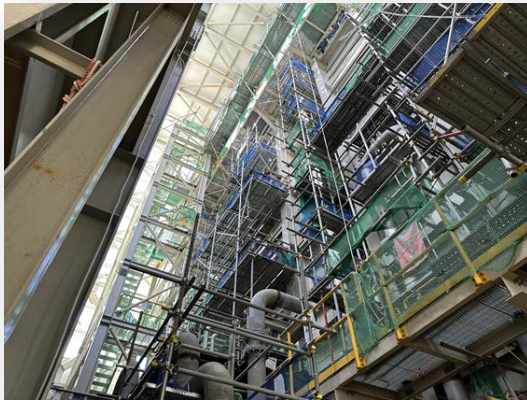
General Manager's Report

Ukudu Power Plant Construction Status

Heat Recovery Steam Generator (HRSG)



Pipe installation work is in progress



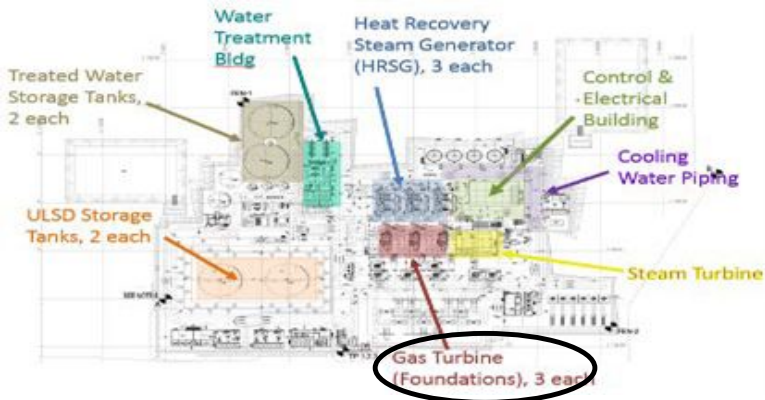
HRSG 1-3: Installation of the Inlet Duct Insulation Steel Structure and casing is ongoing



General Manager's Report

Ukudu Power Plant Construction Status

Gas Turbines & Generators



Combustion Turbine 2



GTG Building – Cable pulling and termination work is ongoing



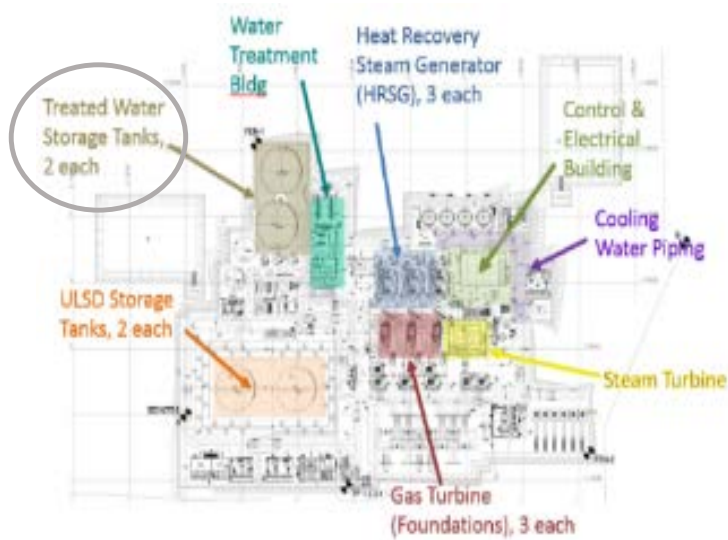
General Manager's Report

Ukudu Power Plant Construction Status

Treated Water Storage Tanks:

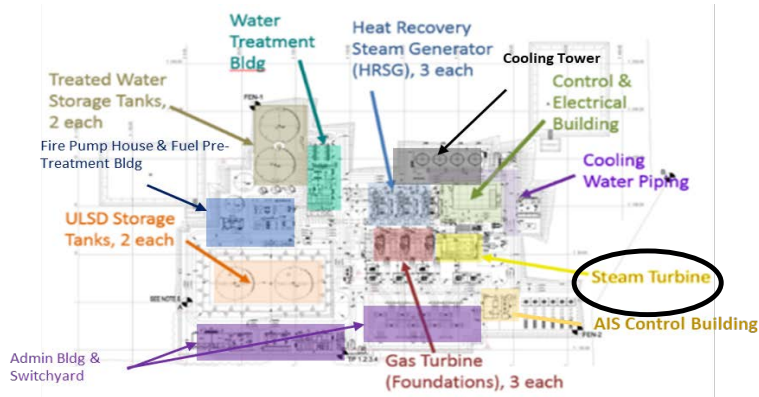
Treated Water Tank A – 5 Courses in place

Treated Water Tank B – 6 Courses in place



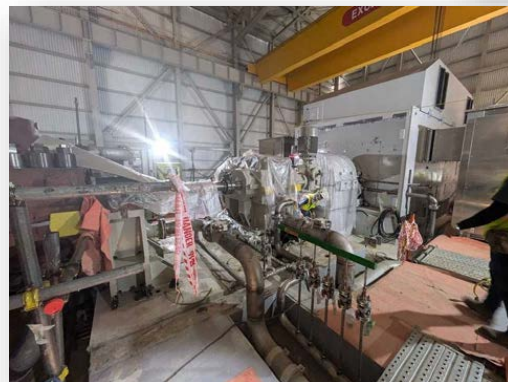
General Manager's Report

Ukudu Power Plant Construction Status



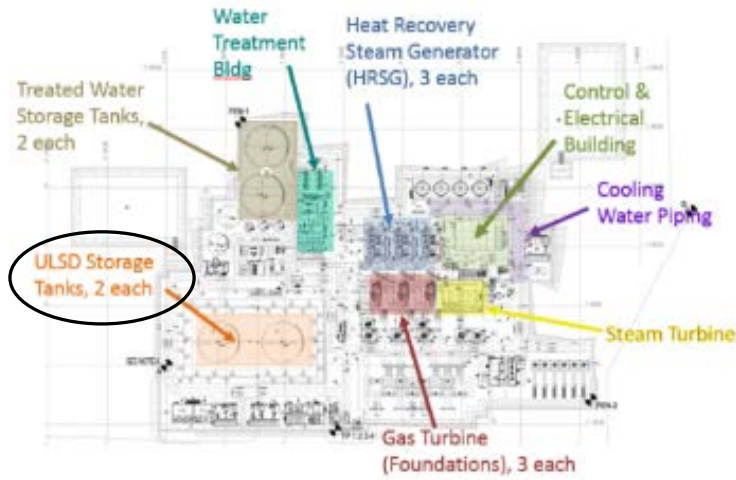
Steam Turbine piping work is ongoing

Steam Turbine & Generator Building – Piping installation work is ongoing



General Manager's Report

Ukudu Power Plant Construction Status

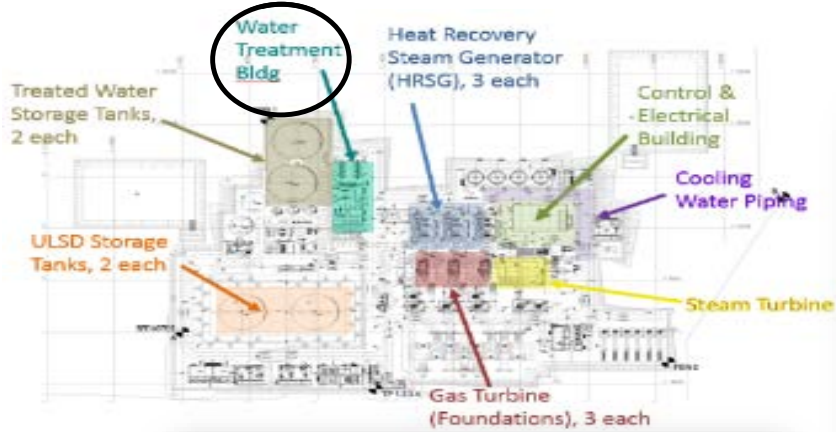


ULSD Storage Tanks – Exterior painting on ULSD Tank A is completed and ongoing for ULSD Tank B.



General Manager's Report

Ukudu Power Plant Construction Status

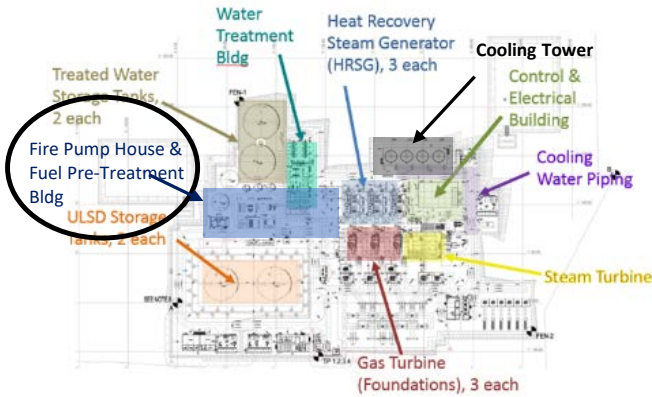


Water Treatment Building – Piping and Cable installation work is ongoing



General Manager's Report

Ukudu Power Plant Construction Status



Fire Loop Piping is nearly completed

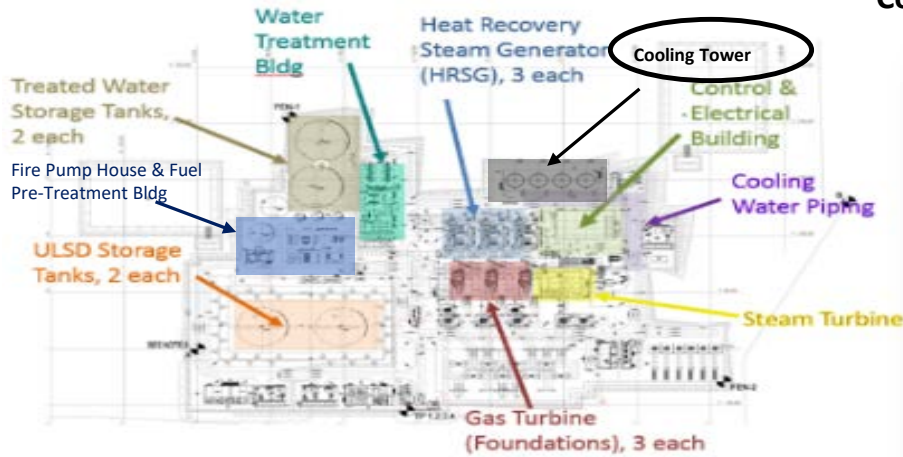


Fire Fighting Tank: Fire tank has been completed and filled with water.



General Manager's Report

Ukudu Power Plant Construction Status



Cooling Tower & Basin – Corrugated panel and Fan Deck installation is ongoing



General Manager's Report

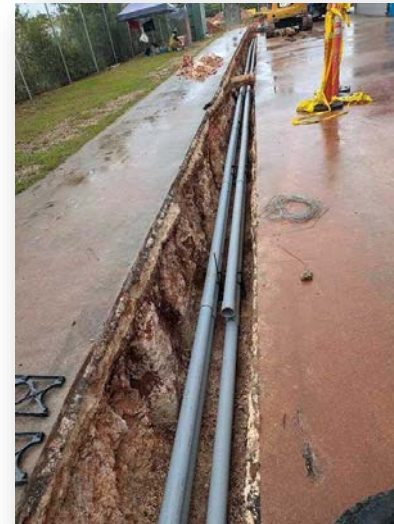
Ukudu Power Plant Construction Status

Re-Use Water Facility (at GWA's Northern District Waste Water Treatment Facility)

Sump Pit – Excavation is ongoing



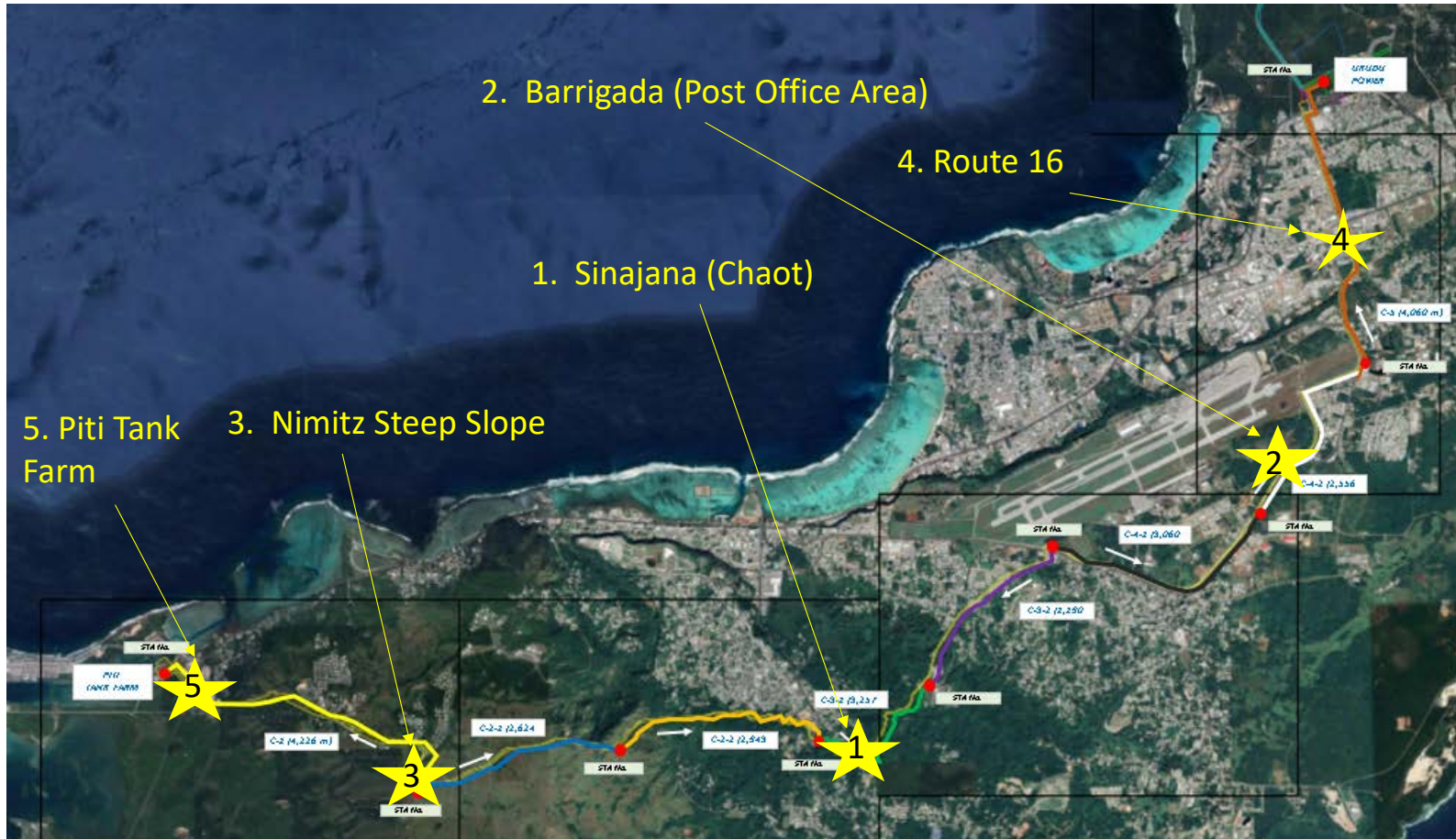
Electrical Trench – Conduit has been installed



Transformer – Location for pad-mounted transformer has been excavated

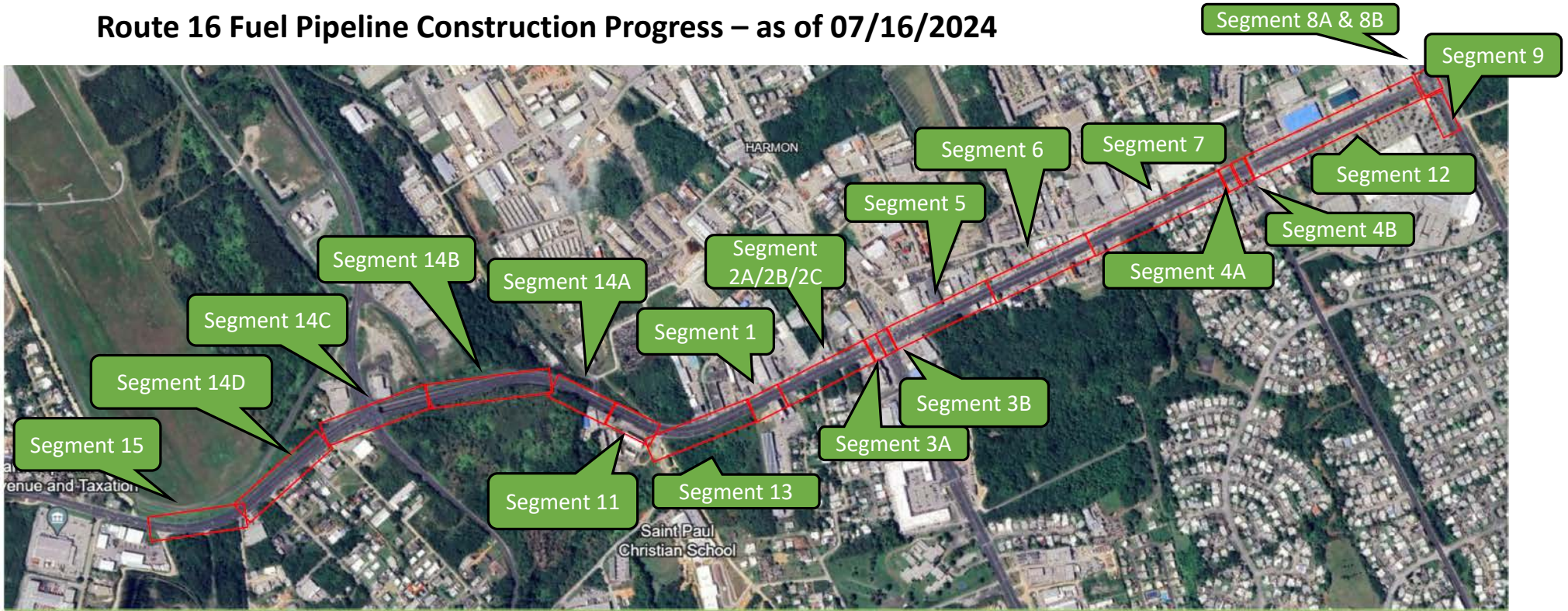
General Manager's Report




Fuel Pipeline Construction Status



General Manager's Report

Route 16 Fuel Pipeline Construction Progress – as of 07/16/2024



-  = Pending
-  = Ongoing
-  = Completed

ROUTE 16 TO ROUTE 1
STA. 19+873 TO STA. 23+230
LENGTH = 3357 METERS



General Manager's Report

Fuel Pipeline Construction Status

1. Sinajana/Chaot area

Pressure test of pipeline segment from Chaot area to Barrigada Post Office was completed.



2. Barrigada (Post Office)

GPA-DUP discussing how to proceed with the existing Tanguisson line near the Post Office.



General Manager's Report

Fuel Pipeline Construction Status

3. Nimitz Hill

This segment of the pipeline has been successfully pressure tested.



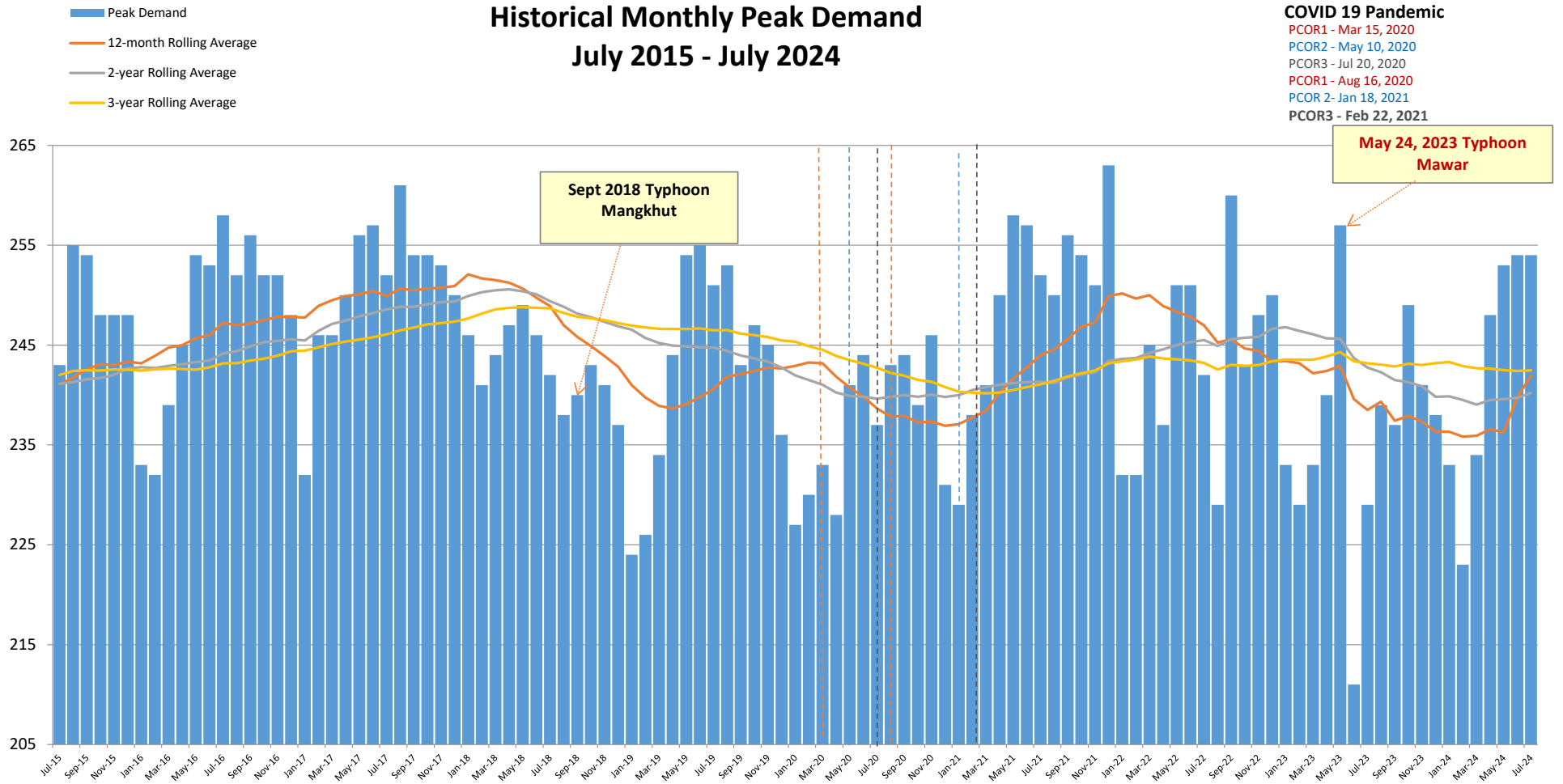
4. Route 16

Pipeline installation and Pressure Testing has been completed. Road restoration is ongoing.



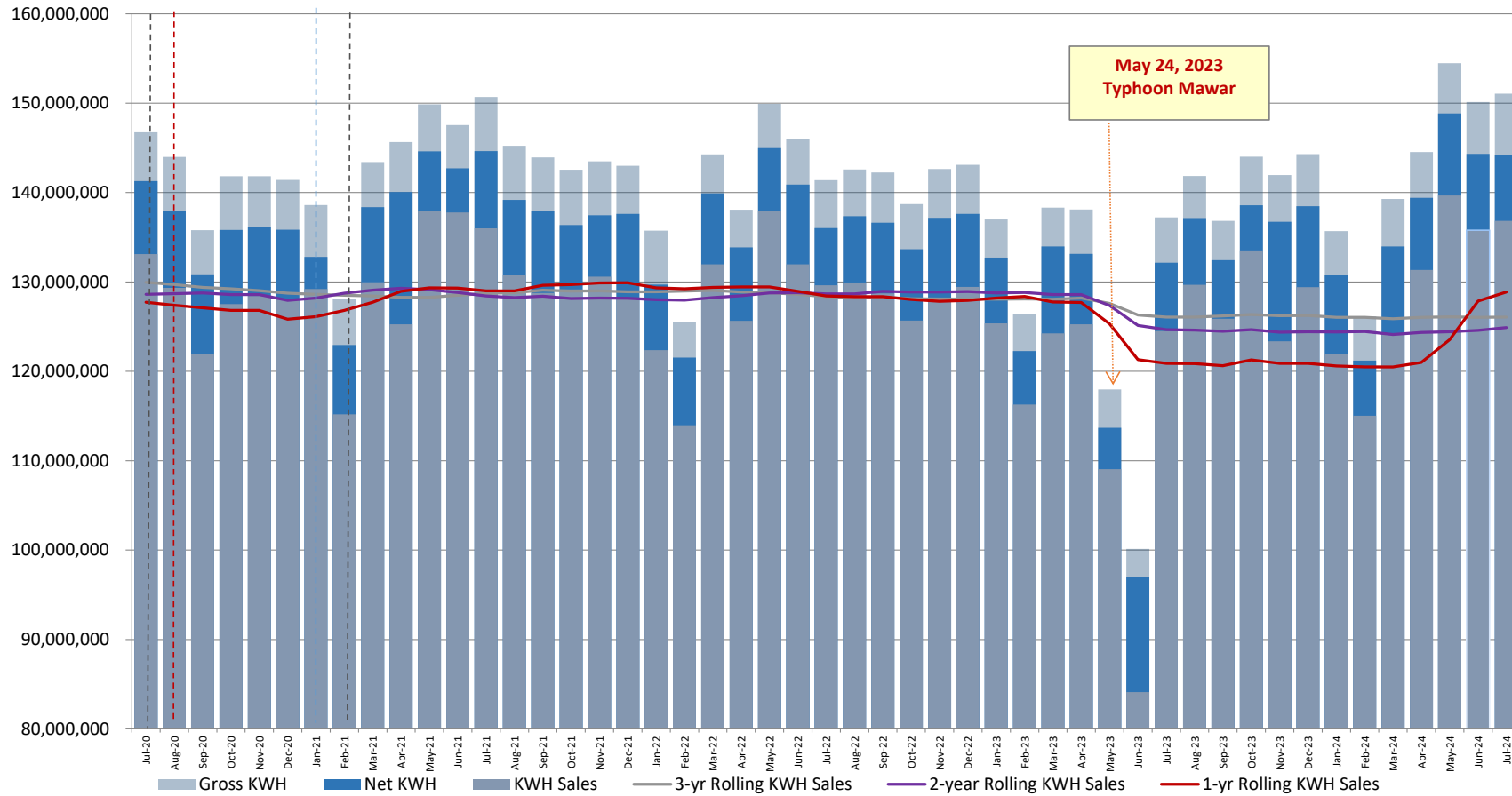
Generation KPIs July 2024





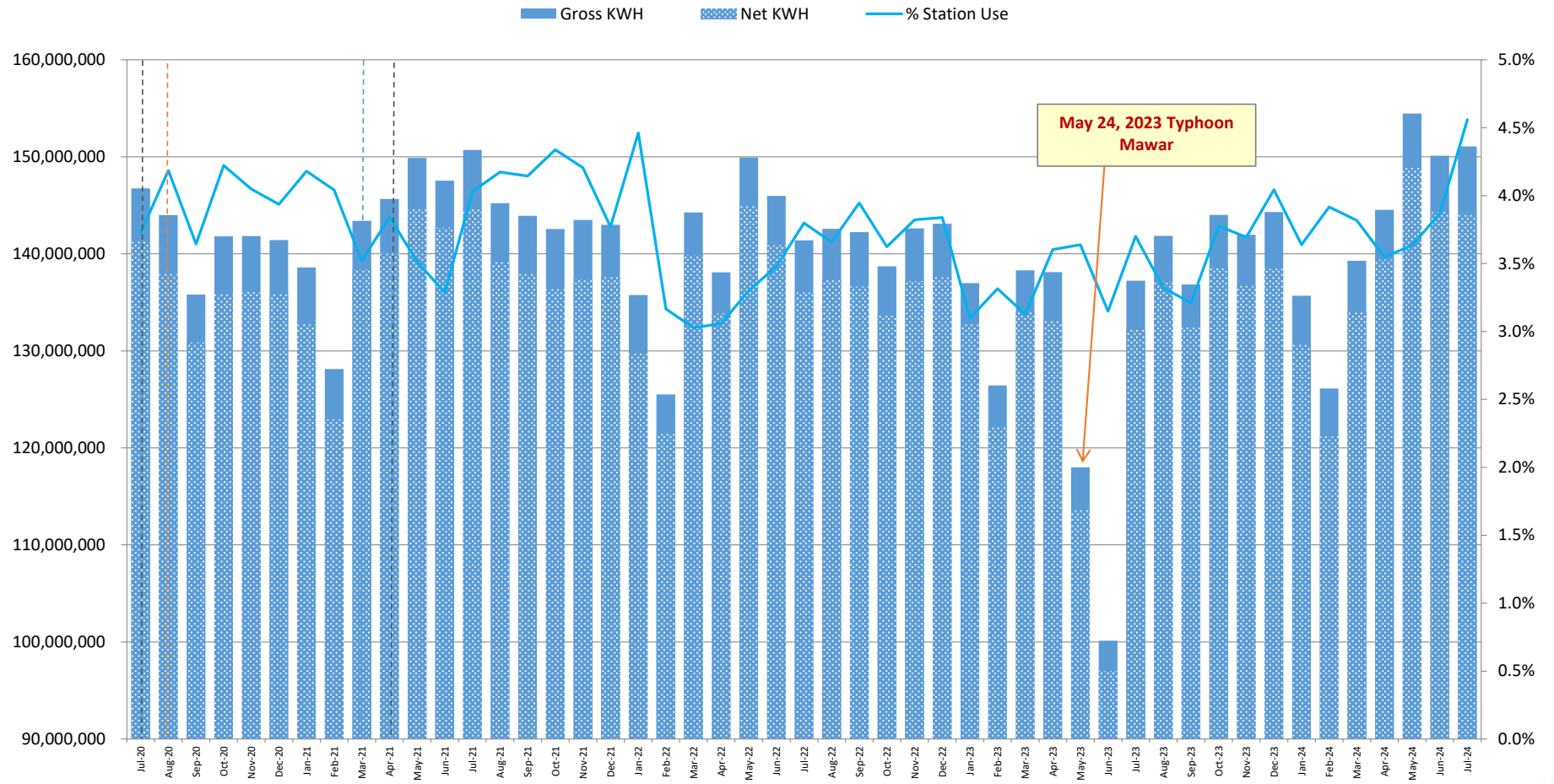
Historical KWH Sales July 2020 - July 2024

COVID 19 Pandemic
 PCOR3 - Jul 20, 2020
 PCOR1 - Aug 16, 2020
 PCOR 2- Jan 18, 2021
 PCOR3 - Feb 22, 2021

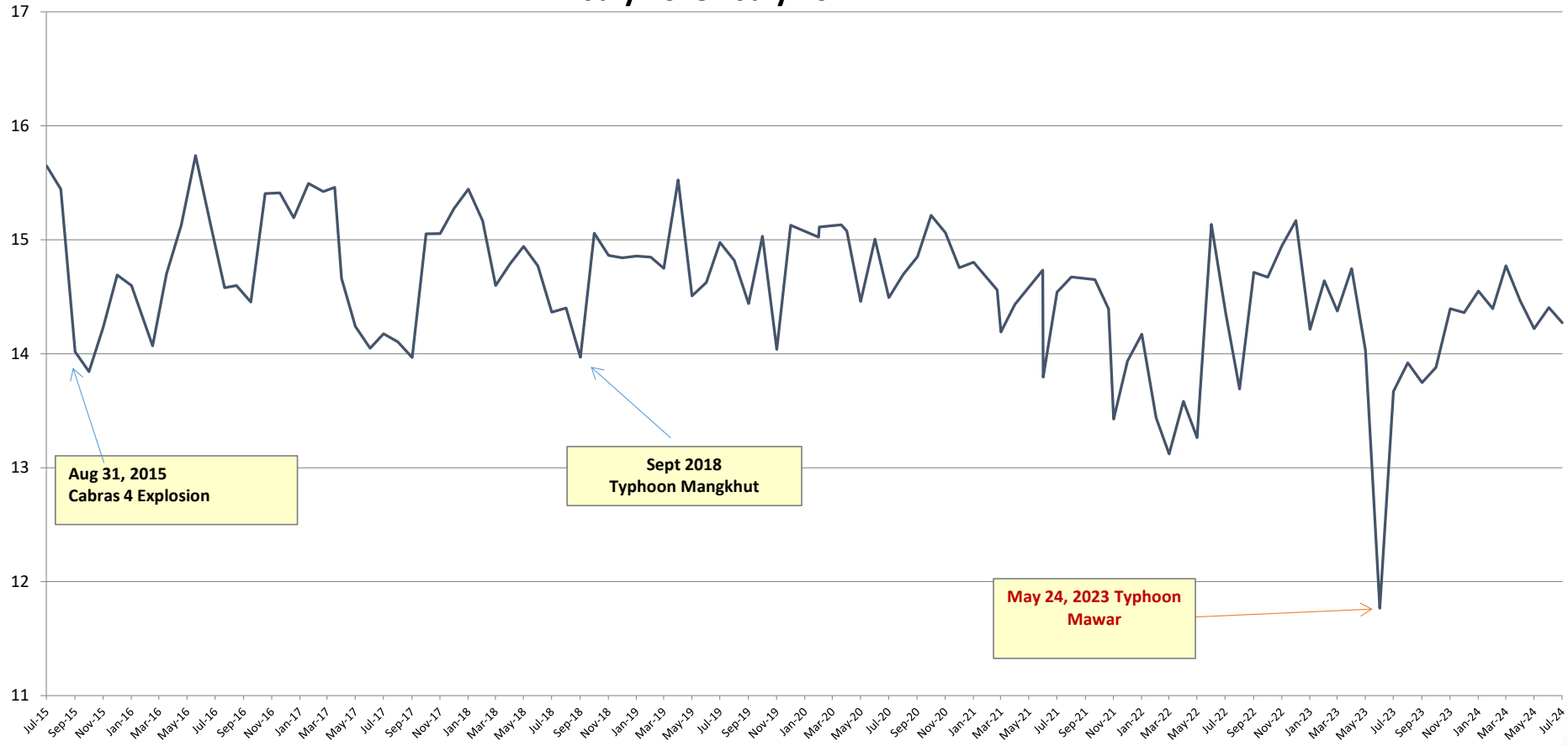


Gross and Net Generation (KWH) July 2020 - July 2024

COVID 19 Pandemic
 PCOR3 - Jul 20, 2020
 PCOR1 - Aug 16, 2020
 PCOR 2- Jan 18, 2021
 PCOR3 - Feb 22, 2021

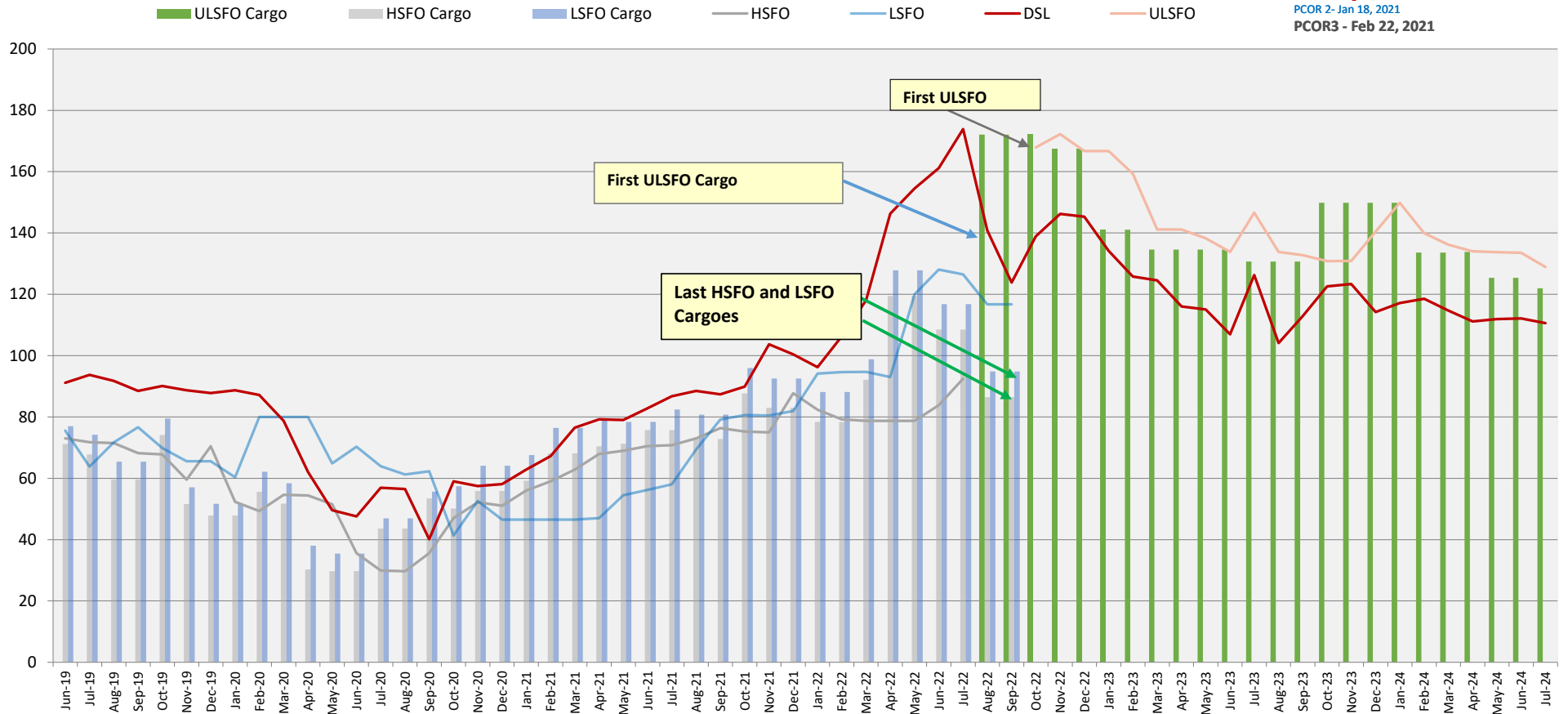


SYSTEM GROSS HEAT RATE (KWH/Gal) July 2015 - July 2024



Fuel Cargo and Fuel Consumption Costs (\$/bb) June 2019 - July 2024

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



E&TS Divisional Report Summary

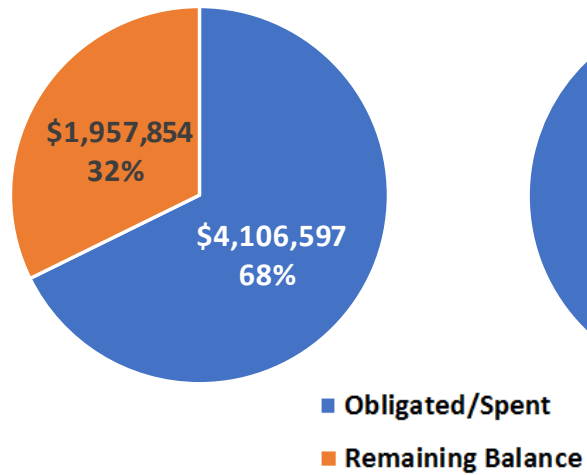
July 31, 2024

Contents

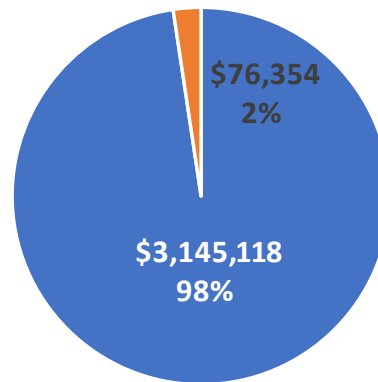
- E&TS Budget Execution Performance
 - O&M Contract Budget
 - CIP Budget
 - DSM Budget
- Environmental Compliance (SPCC and BMP Inspections)

E&TS Budget Execution Performance

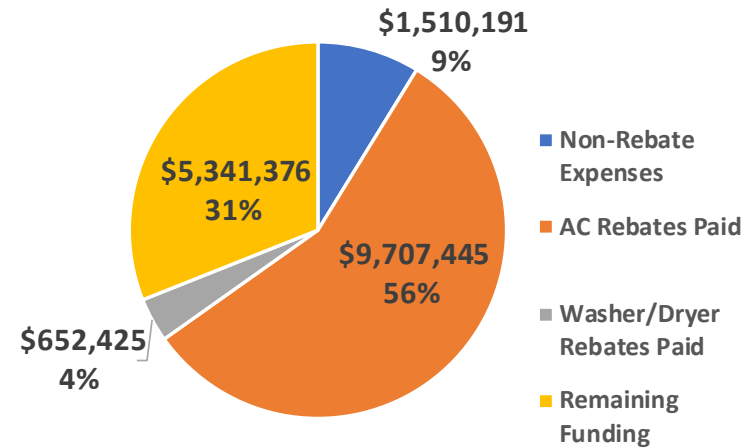
E&TS O&M Contract Budget



E&TS CIP Budget



OCT 2016 to FEB 2024 DSM EXPENSE SUMMARY

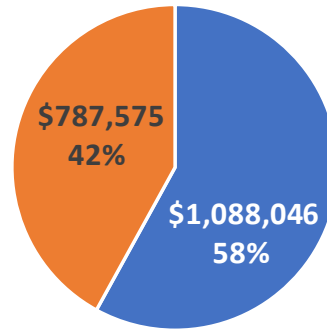


*Pending ENG & DSM paid updates

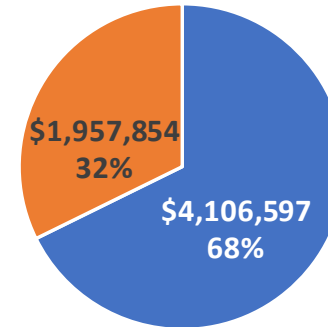
ENG O&M Contract Budget

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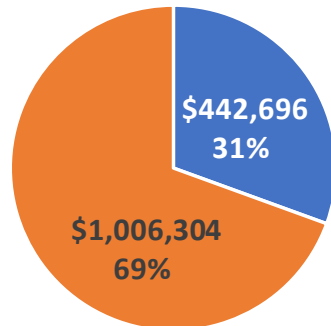
SPORD O&M Contract Budget



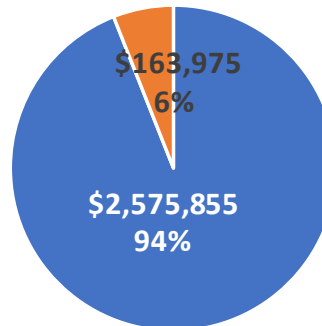
E&TS O&M Contract Budget



P&R O&M Contract Budget



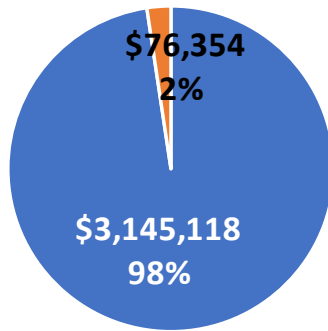
IT O&M Contract Budget



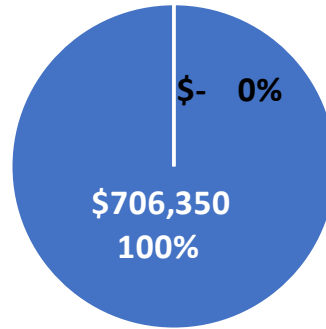
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■ Remaining Balance

**Pending ENG updates*

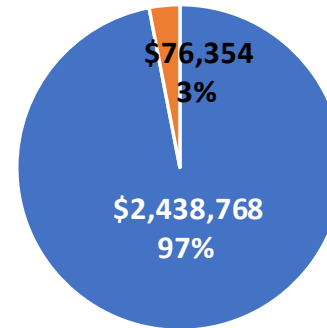
E&TS CIP Contract Budget



SPORD CIP Budget



IT CIP Budget



■ Obligated/Spent
■ Remaining Balance

FY 2024 Procurement Status

Business Unit	Current Type				Current Status			Planned				
	RFP	Bid	Multistep Bid	Total	Resolicited	QBL Established	Evaluation Completed	Award/NTP	RFP	Bid	Multistep Bid	Total
SPORD	9		3	12	1	7	1	3	4	1	2	7
Engineering				0								0
SPORD/Engineering				0								0
IT	1	7		8					1	4		5
P&R	6			6		4	1	1				0
				0								0
Total	16	7	3	26	1	11	2	4	5	5	2	12

* Pending ENG updates

Environmental Compliance

P&R Inspections Status Ending July 31, 2024

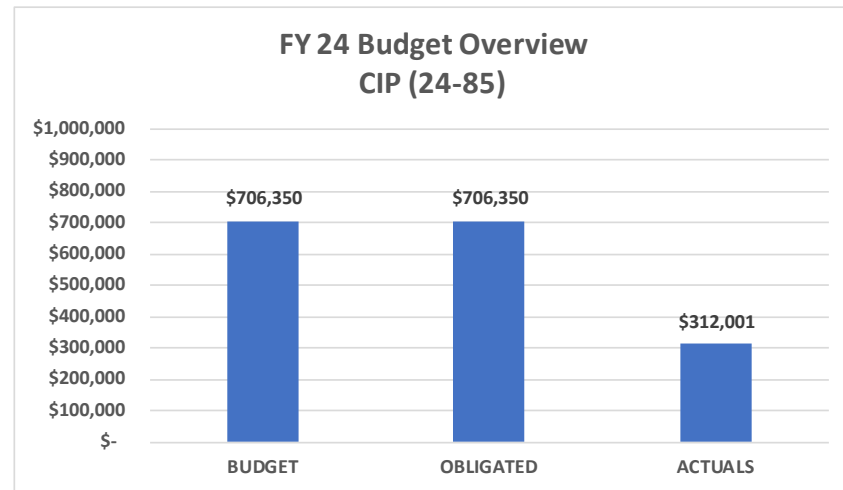
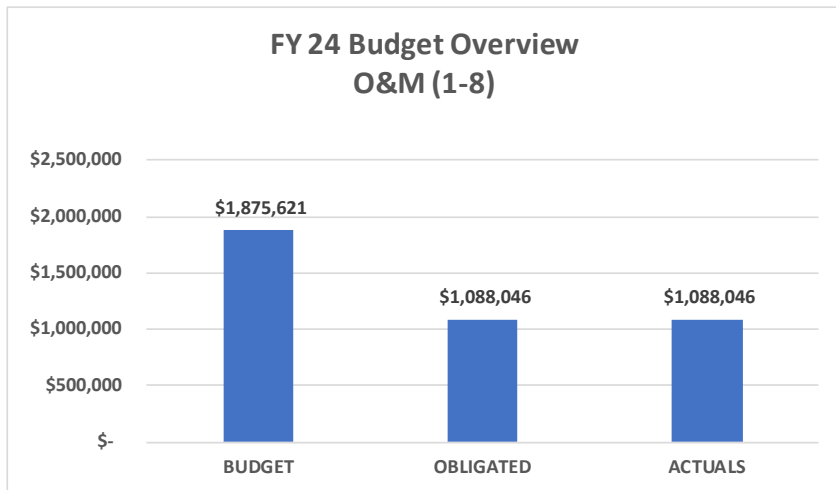
Inspection Type	Organization Responsibility	Violations Not Remediated	Number
Spill Prevention, Control, and Countermeasure (SPCC)	Generation	New Violation Notifications Issued	3
		Remediations Past Due	33
		Remediations Not Past Due	7
	T&D	New Violation Notifications Issued	1
		Remediations Past Due	3
		Remediations Not Past Due	0
Best Management Practices (BMPs)	Generation	New Violation Notifications Issued	0
		Remediations Past Due	4
		Remediations Not Past Due	0

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

SPORD CCU Report

July 31, 2024

SPORD FY 2024 Budget Status



**O&M excludes DSM & Major Contracts (IPP, PPA, Fuel). CIP includes EPCM contract costs.*

SPORD FY 2024 Budget Status

- Major Contracts (Non-O&M)

Contract Description	Budgeted Amount	Committed Amount	Actuals	PO Balance
Fuel Contracts	\$ 389,922,124	\$ 40,952,802	\$ 277,142,079	\$ 112,780,045
MEC IPP (Piti 8&9)	\$ 3,583,175	\$ 298,598	\$ 1,492,990	\$ 2,090,185
Glidepath & KEPCO Contract (Renewables)	\$ 21,361,788	\$ 1,780,149	\$ 8,900,745	\$ 12,461,043

GPA Work Session - August 22, 2024 - GM REPORT

PENDING AWARD / NTP

Responsible	PROJECT	Description	CCU Date Approved (Resolution No.)	PUC Date Approved (Docket No.)	Projected Start*	Projected Completion	Status
SPORD (BSN/FJI/LOS)	TEMPORARY POWER	Temporary Power Services	1/23/2024 (GPA Resolution No. FY2024-16)	3/28/24 (PUC Docket GPA-24-15)	4/1/2024	7/10/2026	Notice to Proceed issued on 4/1/2024. Commercial Operation Date was 7/18/24.

ONGOING PROCUREMENT

Responsible	PROJECT	Description	Bid or RFP	Bid/RFP No	Announced	Bid Opening / Due	Notes
SPORD (LOS/JTL)	PLANNING SOFTWARE	Utility Resource Planning Software (CIP)	RFP	GPA-RFP-22-004	4/21/2022	6/23/2022	Price Proposal evaluation and negotiation with 2nd proponent are completed. Best and Final Offer received. Pending contract finalization.
SPORD(CNC)	MWMS	Clevert Mobile Workforce Management Software Services	RFP	GPA-RFP-22-006	11/1/2022	12/2/2022	Negotiations ongoing
SPORD(JUM)	SCADA	DNP3 Secure Authentication Services	RFP	GPA-RFP-22-007	8/11/2022	11/14/2022	Awarded to Closedloop Communications, Inc. Contract completed, Training being scheduled
SPORD (LOS/JTL/MNM)	SOLAR CANOPY	Installation of Solar Canopy at Fadian Public Parking Area	MS Bid	MS GPA-042-22	8/9/2022	1/5/2024	Bid submittal due date was 1/5/24. No bids received. Re-bid announced on 6/13/24 with bid submittal due date on 7/30/24. No bids received. Adding project to existing contract with Siemens is being considered.
SPORD (LOS/JTL/MNM)	RENEWABLES	Phase IV Renewable Resource Acquisition	MS Bid	MS GPA-012-23	12/1/2022	10/2/2023	Opening of Price Proposals was on 12/20/23 with 5 bidders submitting bids for 11 sites. The System Impact Study began in February for all 11 sites and is currently on-going.
SPORD (ANF)	FUEL	Diesel Supply (by Roadtanker): Site Location 1 (YCT/Ydsl) Site Location 2 (DCT/MCT) Site Location 3 (Cab1&2/Piti 7) Site Location 4 (MDI/Tal)	MS Bid	MS GPA-050-24	4/11/2024	6/7/2024	<i>Ongoing Solicitation.</i> <i>Price Proposal Opening: 08/09/24</i> <i>Target contract commencement date: 01/01/2025</i>
SPORD (FJI/VAT)	EV Managed Charging Services	Electric Vehicle Managed Charging Services and associated charging devices.	RFP	GPA-RFP-24-007	2/28/2024	3/28/2024	<i>Ongoing Solicitation.</i> <i>Price Proposal Opening: 08/16/24</i> <i>Target contract commencement date: 4th Qtr CY24</i>
SPORD(CNC)	Engineering Analysis	Milsoft WindMil (Engineering Analysis) and WindMilMap (Geographic Circuit Model Editing) Software Services	RFP	GPA-RFP-24-009	2/21/2024	3/21/2024	Evaluation Committee review ongoing
SPORD(CNC)	Tier II	HITACHI WIRELESS MESH NETWORK SERVICES	RFP	GPA-RFP-24-012	4/18/2024	5/16/2024	PMM Scheduling Committee Evaluation
SPORD(CNC)	Tier II	GPA TIER II WIRELESS MESH NETWORK EQUIPMENT SERVICES	RFP	GPA-RFP-24-011	4/18/2024	5/16/2024	PMM Scheduling Committee Evaluation
SPORD(JUM)	TIER III	Landis+Gyr Software and System Services	RFP	GPA-RFP-24-008	2/22/2024	3/21/2024	Evaluation Committee review ongoing
SPORD(JUM)	TIER III	Landis+Gyr Advanced Meter Infrastructure Equipment	RFP	GPA-RFP-24-006	2/22/2024	3/21/2024	Evaluation Committee review ongoing

DEVELOPING PROCUREMENT

Responsible	PROJECT	Description	Bid or RFP	Projected Start	Projected Completion	Status
SPORD (LOS/JTL)	ESS	Standby Generator & Automatic Transfer Switch for Talofoto ESS	RFP	FY 2025	FY 2026	RFP package pending, need management approval prior to submittal to PMM for advertisement.
SPORD (LOS/JTL/MNM)	IPP/PMC	Piti 8&9 PMC	MS Bid	Cancelled		PUC approved contract extension on March 30, 2023 (Docket No. 23-11). ECA contract amendment signed.
SPORD (ANF)	FUEL	GUP Truckloading Facility Operation	RFP	FY 2024	FY 2025	Developing Specifications
SPORD(CNC)	GIS	Street View Mapping	RFP	FY 2024	TBD	Developing Specifications
LNS	FUEL	Post-Disaster Supply of Fuel to GPA and GWA	Solicitation of Interest	FY 2024	TBD	Solicitation of interest already posted by Procurement team.
ANF	FUEL	Diesel Supply to Tenjo Vista	MS Bid	TBD	TBD	CCU (Resolution 2020-02) and PUC (Docket 20-07). For solicitation (TBD).
SPORD(JUM)	Analytics	Landis+Gyr AGA Software Services	RFP	FY 2024	TBD	Developing Specifications

PROJECT ACTIVITIES

No.	Project Description	July 2024 Activities	Status / Est. Completion	RFP/Bid No
1	Energy Storage System (Phase I)	<ol style="list-style-type: none"> Annual maintenance completed Jul/Aug 2023. Weekly, monthly, quarterly and half-yearly maintenance inspections for the Agana and Talofoto ESS sites are on-going. Review of daily, weekly, monthly, quarterly, half-yearly, yearly reports are on-going. Novation Agreement to transfer contract to SJ Dooall signed on 2/1/24. Inspection of pending repairs is on-going. Coordination of Talofoto ESS peak-shifting operation to support load-shedding prevention is on-going. 	O&M phase ongoing.	MS Bid GPA-082-15
2	Renewable Energy Resource Phase II	Hanwha signed off on the amendments (PPA and IA). Finalising System Impact Study. Evaluating the right conductors.	COD - March 31, 2026.	MS Bid GPA-070-16
3	New Power Plant Bid (EPCM)	<p>Progress includes:</p> <ul style="list-style-type: none"> - Overall project progress is about 88.35% as of June 30, 2024. - GPA and GUP agreed to a Commercial Operation Date of September 30th, 2025. ECA amendment has been approved by the CCU and PUC. - Pipeline construction is ongoing along Route 16 and Route 1 towards the Piti Tank Farm. Hydrotesting of completed segments of the pipeline is ongoing. - GPA energized Harmon Substation for Power Receiving on June 25, 2024 - Tank Restoration Progress: All ULSD and Treated Water tanks are 100% restored. Hydrotesting of ULSD Tanks has been completed. Hydrotesting of Treated Water Tanks is nearly completed. - Design drawings review ongoing. <p>LNG:</p> <ul style="list-style-type: none"> -EPCM updated the initial proposal for Phase I of LNG project. -PUC authorized GPA to commence Phase I of the LNG project on February 9th, 2024. -Kick-Off meetings with GPA and key stakeholders were held the week of May 13-17. - EPCM delivered inception report on June 10th, 2024. GPA is currently reviewing the assumptions made. -EPCM seeking additional funding to commence work on Task 3 objectives (e.g. engage subcontractors, identify LNG Infrastructure) 	ECA Project COD - Target: September 30th, 2025	MS GPA-034-18
4	DSM Marketing	Completed the customer outreach for the EnergyX phase 2. Currently supporting surveys, commercial account rebates outreach and school events outreach.	Continuous	
5	DSM Rebate Program	Processed more than 119 applications for rebates totaling \$39K in the reporting period	Continuous	
6	Wireless Network Expansion	<ol style="list-style-type: none"> Testing Sim card Router communications completed - Pending GPA network connection Amendment for additional routers submitted to procurement. Procurement processing. 	Dec-24	GPA-RFP-19-010
7	Smartworks MDM and Eportal	<ol style="list-style-type: none"> Data Migration from Oracle to Postgres Planned - Production and Databased servers provisioned. GPA storage space allocated for migration Integration to MV90 requirements gathering ongoing 	Sep-24	GPA-RFP-19-007

PROJECT ACTIVITIES

No.	Project Description	July 2024 Activities	Status / Est. Completion	RFP/Bid No
8	GDOE BEST Schools	<p><u>2019 DOI Award Projects:</u></p> <ul style="list-style-type: none"> - Parking Lot Lighting Certificate of Substantial Completion 2/29/24 <p>- Project Closeout in Progress</p> <p><u>2021 DOI Award Projects:</u></p> <p>University of Guam LED Lighting Upgrades, HVAC Controls, and Solar PV (\$1.29M);</p> <ul style="list-style-type: none"> - UOG project kick-off meeting conducted July, 2022 - UOG Lighting walk thru on 7/20/23. - Solar+BESS substantial completion walkthrough 10/19/23 - PV punchlist completed 11/2023, BESS commissioning ongoing <p>- Project Complete, Closeout in Progress.</p> <p>Tamuning Elementary LED lighting and Solar PV (\$154k)</p> <ul style="list-style-type: none"> - Lighting Project Certificate of Substantial Completion 2/29/24 <p>- Project Closeout in Progress</p> <p><u>2022 DOI Award Project:</u></p> <p>Ordot Chalan Pago Elementary School LED+PV Project</p> <ul style="list-style-type: none"> - Pending design submittal for PV+BESS - Lighting Project Certificate of Substantial Completion 2/29/24 - Solar PV+BESS 60% Design Submitted - Under Review by GPA and GDOE - Solar PV+BESS final design accepted. Construction begins August 2024. 	Est. Completion: Sep. 2024	GPA-RFP-16-013

PROJECT ACTIVITIES

No.	Project Description	July 2024 Activities	Status / Est. Completion	RFP/Bid No
9	Consulting Services for Smart Grid Analytics Enabled Distribution System Planning, Technical, and Economic Feasibility Studies	<p>Substation update reports for 6 Substations - (ApraHeights, Dededo, Harmon, Pagat, SanVitores, Yigo)</p> <ol style="list-style-type: none"> 1. Distribution Model Corrections submitted for L+G Revision 2. FCI and Switch Placement submitted for L+G Revision 3. Load Flow Studies - GPA 2nd Round Reviewed - Completed 4. Voltage Analysis submitted for L+G Revision 5. Demand Response submitted for L+G Revision 6. Volt/Var Optimization - for L+G Revision 7. Conservation Voltage Reduction - for L+G Revision 8. DER - L+G working on <p>Additional 4 Substation reports ongoing (Agana, Barrigada, Pulantat, Talofoto)</p>	Continuous	RE-SOLICITATION GPA-RFP-19-002
10	MEC Piti #8 and #9 - ECA Extension	<ol style="list-style-type: none"> 1. Contract Extension commenced 12:01 PM January 29, 2024. Recapitalization Projects reconciled and monthly payment amount was adjusted. 2. Inspection of completed Recapitalization Projects is on-going. 3. Pending determination of penalty fees. 4. Review of 2022 and 2023 performance tests completed. The 2024 performance test was deferred. 5. Processing of invoices for O&M, recapitalization, cylinder oil, emulsifier, waste oil hauling, and Typhoon Mawar repairs is on-going. 6. Inspection of Typhoon Mawar repairs is on-going. 	IN PROGRESS	(N/A)
11	Utility Energy Services Contract (UESC)	<p>UOG Phase I Project - Punchlist work ongoing.</p> <p>UOG Grant Funded Project - Punchlist work ongoing for original scope. UOG issued amendment 3 (Additional solar PV panels for RFK building rooftop).</p> <p>Navy PA - finalizing the ECMS scopes</p> <p>GDOE - Developed scope for ARP funded projects. Firm-fixed priced proposal expected August, 2024.</p>	<p>UOG Phase I Project - Substantially completed.</p> <p>UOG Phase I Project - Substantially completed. Amendment 3 is expected to be completed in 30 days.</p> <p>Navy PA - No completion schedule is issued.</p>	
12	GPA Fuel Farm New ULSD Pipeline & Pumps to Piti 7/8/9	c/o Engineering Project Mgt. ULSD Pipeline to MEC 8&9 completed in June 2022. Final connections to the bulk storage tanks 1934 & 1935 will be done after tank inspections and repairs.	<p>Project Timeline:</p> <p>Estimated Start: Jan 2020</p> <p>Est. Completion: Dec 2021-Dec 2023</p>	IFB GPA-027-19

PROJECT ACTIVITIES

No.	Project Description	July 2024 Activities	Status / Est. Completion	RFP/Bid No
13	Tk 1934 & Tk1935 API 653 Internal Inspection	c/o Engineering Project Mgt. Implementation in progress. Delays were experienced for Tank 1935 due to COVID and sludge processing however the total project schedule may still be within the projection completion date. Tk1934 refurbishment to follow.	Project Timeline: Estimated Start: Feb 2020 Est. Completion: June 2024 (Tk1935) Est. Completion: June 2025 (Tk1934)	IFB GPA-028-19
14	Milssoft OMS Systems Software Services	1. Integration of SEL Device to OMS ongoing - RFP documents being processed at PMM	Continuous	GPA-RFP-18-003
15	MV90 Integration Services	1. Gathering requirements for MDMS integration	Mar-24	GPA-RFP-18-001
16	GPA Fuel Farm- OWS Upgrading	c/o Engineering Project Mgt. Scope included in Tk 1934 & Tk1935 API 653 Internal Inspection and refurbishment. Implementation in progress	Project Timeline: Estimated Start: Feb 2020 Est. Completion: June 2024 (last week of June turn-over)	IFB GPA-028-19
17	GPA Fuel Farm- LD System Upgrading	c/o Engineering Project Mgt. Scope included in Tk 1934 & Tk1935 API 653 Internal Inspection and refurbishment. Implementation in progress	Project Timeline: Estimated Start: Feb 2020 Est. Completion: Dec 2024	IFB GPA-028-19
18	Utility Resource Planning Software RFP.	Technical Proposals evaluated in August 2022. Best and Final Offer received. Pending contract finalization.	Planned Completion: January 2024	GPA-RFP-22-004
19	Power System Analyses and Studies	Contract was extended for two years and now expires 1/20/2025.	Estimated Start: TBD Est. Completion: TBD	GPA-RFP-19-001
20	GPA Fuel Farm Mgt Contract	Contract awarded to Supreme Group Guam LLC. Approved by CCU (Resolution 2023-14) and approved by PUC (Docket 23-14) Contract Term: 3 years base period w/ 2 years extension option	3-year base period: 10/01/23-09/30/26	MS IFB GPA-015-22
21	Bulk RFO Supply for Baseload Plants (by Oceantanker)	Contract awarded to Hyundai Corporation Contract Term: 3-year base period: 09/01/20 to 08/31/23 w/ 2 Year Extn Option GPA received first shipment of 0.2% RFO for Cabras 1&2 consent decree compliance in September 2022.	3-year base period: 9/1/2020-8/31/2023. 1st Year Extension: 09/01/2023-08/31/24 Addtl 2-Yr Extn: 09/01/2024-08/31/2026	MS IFB GPA-050-20

PROJECT ACTIVITIES

No.	Project Description	July 2024 Activities	Status/ Est. Completion	RFP/Bid No
22	Bulk Diesel Supply (by Oceantanker)	Contract awarded to Hyundai Contract Term: 3-year base period w/ 2 Year Extn Option	3-year base period: 02/06/2024-2/05/2027	MS IFB GPA-040-23
23	DSM Digitization	New contract finalized in July 2024. Gathering SOW requirements for additional change order pricing. Update application to include online exemptions.	3 mo. of 1st year: 7/17/2024 - 9/30/2024 9 mo. of 1st year: 10/1/2024 - 7/16/2025 3 - 1 year extensions: TBD	GPA-RFP-23-004
24	Diesel Supply (by Roadtanker): Site Location 1 (YCT/YdsI) Site Location 2 (DCT/MCT) Site Location 3 (Piti 7) Site Location 4 (Cab 1&2/MDI/Tal)	ContractTerm: 2-year base period w/ 3 Year Extn Option Contract for Site Locations 1, 3, & 4 awarded to Mobil Oil Guam Contract for Site Location 2 IP&E Guam	2-year base period: 01/01/19-12/31/21 3-Yrs extension: 01/01/22-12/31/24	MS IFB GPA-008-18
25	Diesel Inspection & Testing Services Contract	Contract awarded to Intertek Testing Services Guam ContractTerm: 3-year base period w/ 2 Year Extn Option	3-year base period: 12/01/21-11/30/24 2-Yrs extension: 12/01/24-11/30/26	MS IFB GPA-046-21
26	RFO Inspection & Testing Services Contract	Contract awarded to Intertek Testing Services Guam ContractTerm: 3-year base period w/ 2 Year Extn Option	3-year base period: 5/01/24-4/30/27 2-Yrs extension: 4/30/27-11/30/27	MS IFB GPA-016-23
27	AGMETs Grant Support	1. BIL – STATCOM Grant Support is on-going. 2. Awarded EIC grant reporting is on-going. 3. Coordination of grant for CEM and CEA training and certification is on-going.		
28	Renewable Energy Resource Phase IV	1. Opening of Price Proposals was on 12/20/23 with 5 bidders submitting bids for 11 sites. 2. The System Impact Study began in February for all 11 sites. Coordination is on-going and near completion. 3. The cost analysis of the price proposals using Capacity Expansion is on-going.	Est. Completion: 2026	MS GPA-012-23
29	Fadian Parking Lot Solar Canopy	Bid submittal due date was 1/5/24. No bids received. Re-bid announced on 6/13/24 with bid submittal due date on 7/30/24. No bids received. Adding project to existing contract with Siemens is being considered.	Est. Completion: 2024	MS GPA-042-22
30	Piti 8&9 PMC	PUC approved contract extension on March 30, 2023 (Docket No. 23-11).	Est. Completion: 2024	
31	MEC Piti 8& 9 and #9 ULSD Conversion	ULSD Conversion CIP completed in July 2022 for Piti 8 and September 2022 for Piti 9. Payment for ULSD conversion change order #2 and meter change order will be covered under the recapitalization payments. Meter replacement and pipeline modification completed. Final invoice from MEC under ULSD Conversion project submitted and paid.	Completed: September 2022 Punch list finalization completed	(N/A)

PROJECT ACTIVITIES

No.	Project Description	July 2024 Activities	Status / Est. Completion	RFP/Bid No
32	Remote Site Communications	1. Talofoto Diesel Communications - Completed 2. TEMES MEC - Survey and Design Completed - pending equipment and network cables 3. Piti GIS and Substation -- Survey and Design ongoing 4. Substation Building--Completed	Continuous	
33	LEAC/Fuel Projections	LEAC projection for August 2024 thru January 2025 was prepared by Brian.	Continuous	
37	Home Area Network	100 devices received testing ongoing	January-25	
38	Street View GIS	Developing Project Plan	July-24	
39	Solar Irradiance	Pending Delivery of Equipment	September-24	
40	Milsoft WindMilMap Implementation	Helping Engineering/IT with requirements gathering	July-24	
41	Biological Survey for Solar Canopy Project	Purchase order completed with NTP on August 9, 2023. Final report completed.	Completed: September 2023	
42	Temporary Power Emergency Procurement	Notice of Interest announced 12/12/23. Non-mandatory site visit scheduled on 12/15/23 at 9:00 AM. Solicitation responses due on 12/18/23 at 5:00 PM. Final proposal accepted on 1/23/24. CCU approval received 1/23/24. PUC approval received 3/28/24. Notice to Proceed issued on 4/1/24. All 24 gensets arrived on 6/3/2024. Commercial Operation Date was 7/18/24.	Est. Completion: July 2026	
43	Wind Turbine MOA Procurements for DOAG	1. Procurement of laptop is completed. 2. Truck repairs by GPA's Transportation division is completed.	On-going	
44	Online Home Energy Audit: My Energy Expert	Phase 1 pilot testing completed 9/2023. Phase 2 launched on 7/17/2024. Currently going through project closeout processes.	Project Start: October 2023 Completion: August 2024 Contract Renewal:	GPA-RFP-23-001

CCU Report- DSM

As of July 31, 2024

All Expenses – Fiscal Year

Description	FY16-FY20	FY21	FY22	FY23	FY24	Total to Date
Regular/OT Pay	\$ 157,844.00	\$ 162,395.40	\$ 126,711.34	\$ 71,212.92	\$ 37,582.03	\$ 555,745.69
Other Contractual	\$ 233,831.05	\$ 107,854.90	\$ 183,880.23	\$ 167,607.81	\$ 244,310.00	\$ 937,483.99
Ads & Radio Announcements	\$ 9,000.00	\$ -	\$ -	\$ -	\$ -	\$ 9,000.00
Paid Rebates - Split AC	\$ 4,904,451.00	\$ 1,855,550.00	\$ 1,579,649.00	\$ 1,306,345.00	\$ -	\$ 9,645,995.00
Paid Rebates - Central AC	\$ 24,900.00	\$ 3,900.00	\$ 9,500.00	\$ 1,650.00	\$ 500.00	\$ 40,450.00
Paid Rebates - Washer/Dryer	\$ 269,228.00	\$ 134,497.00	\$ 159,250.00	\$ 89,450.00	\$ -	\$ 652,425.00
Paid Rebates - Split AC (Commercial)			\$ 7,300.00	\$ 7,650.00	\$ 1,450.00	\$ 16,400.00
Paid - Rebates Central Ducted AC (Commercial)			\$ -	\$ 1,000.00	\$ -	\$ 1,000.00
Paid Rebates - Rooftop/Package AC			\$ -	\$ 1,150.00	\$ -	\$ 1,150.00
Paid Rebate - VRF AC (Commercial)			\$ -	\$ 2,450.00	\$ -	\$ 2,450.00
Total Expenses	\$ 5,599,254.05	\$ 2,264,197.30	\$ 2,066,290.57	\$ 1,648,515.73	\$ 283,842.03	\$11,862,099.68
Back Interst (+)	\$ 5,790.62	\$ 324.50	\$ 443.80	\$ 924.80	\$ 730.94	\$ 8,214.66
Bank Fees	\$ 5,222.32	\$ 545.00	\$ 1,513.00	\$ 495.30	\$ 240.00	\$ 8,015.62

DSM Funding

No.	Description	Amount
1	Initial DSM Budget FY 2016	\$ 1,806,014
2	Interest Income	\$ 7,484
3	Bank Fees	\$ (7,776)
4	Additional Funding Source	
	2017 Bond Refunding savings	\$ 1,139,189
	FY 2019 Revenue Funding	\$ 1,031,500
	FY 2020 Revenue Funding	\$ 348,075
	FY2020 LEAC (June to September)	\$ 1,296,398
	FY2021 LEAC (October 2020 to September 2021)	\$ 3,859,303
	FY2022 LEAC (October 2021 to September 2022)	\$ 3,817,841
	FY2023 LEAC (October 2022 to September 2023)	\$ 3,593,218
	FY2023 LEAC (October 2023 to March 2024)	\$ 1,258,520
5	Total Expense FY2016-FY2020 (Ending May 2020)	\$ (4,355,078)
6	Total Expense FY2020-FY2024 (June 2020 to Mar 2024)	\$ (7,507,021)
	DSM Ending Balance	\$ 6,287,667

FY 2020- Rebate Amount Paid Monthly

Month	Total	Split A/C Units	Central A/C Units	Washers/ Dryers
OCT '19				
NOV '19	\$14,900.00	\$14,300.00	\$0.00	\$600.00
DEC '19	\$116,775.00	\$105,875.00	\$500.00	\$10,400.00
JAN '20	\$39,050.00	\$36,650.00	\$0.00	\$2,400.00
FEB '20	\$65,050.00	\$60,450.00	\$0.00	\$4,600.00
MAR '20	\$96,425.00	\$86,825.00	-	\$9,600.00
APR '20	-		-	
MAY '20	\$21,325.00	\$19,525.00	-	\$1,800.00
JUN '20	\$148,825.00	\$141,225.00	-	\$7,600.00
JUL '20	\$139,450.00	\$127,150.00	\$500.00	\$11,800.00
AUG '20	\$50,775.00	\$45,175.00	-	\$5,600.00
SEP '20	\$868,829.00	\$830,826.00	\$1,400.00	\$36,603.00
TOTALS	\$1,561,404.00	\$1,468,001.00	\$2,400.00	\$91,003.00

**Updated as of 09/30/23*

FY 2021- Rebate Amount Paid Monthly

Month	Total	Split A/C Units	Central A/C Units	Washers/ Dryers
OCT '20	\$ -			-
NOV '20	\$ 22,622.00	\$ 13,725.00	\$ 500.00	\$ 8,397.00
DEC '20	\$ 180,075.00	\$ 173,975.00	\$ 500.00	\$ 5,600.00
JAN '21	\$ 158,450.00	\$ 153,650.00	\$ -	\$ 4,800.00
FEB '21	\$ 91,100.00	\$ 86,100.00	\$ -	\$ 5,000.00
MAR '21	\$ 310,600.00	\$ 295,200.00	\$ -	\$ 15,400.00
APR '21	\$ 154,750.00	\$ 146,650.00	\$ 500.00	\$ 7,600.00
MAY '21	\$ 300,000.00	\$ 278,000.00	\$ -	\$ 22,000.00
JUN '21	\$ 47,975.00	\$ 41,575.00	\$ 800.00	\$ 5,600.00
JUL '21	\$ 301,875.00	\$ 280,675.00	\$ 1,000.00	\$ 20,200.00
AUG '21	\$ 178,575.00	\$ 164,875.00	\$ -	\$ 13,700.00
SEP '21	\$ 247,925.00	\$ 221,125.00	\$ 600.00	\$ 26,200.00
TOTALS	\$ 1,993,947.00	\$ 1,855,550.00	\$ 3,900.00	\$ 134,497.00

**Updated as of 09/30/23*

FY 2022- Rebate Amount Paid Monthly

Month	Total	Residential			Commercial	
		Split A/C Units	Central A/C Units	Washers/ Dryers	Split A/C Units	Central A/C Units
OCT '21	\$ 100.00				\$ 100.00	
NOV '21	\$ 118,750.00	\$ 99,550.00	\$ 1,000.00	\$ 18,200.00		
DEC '21	\$ 109,425.00	\$ 97,525.00		\$ 11,800.00	\$ 100.00	
JAN '22	\$ 86,900.00	\$ 80,600.00	\$ 500.00	\$ 5,800.00		
FEB '22	\$ 160,825.00	\$ 141,575.00	\$ 200.00	\$ 18,900.00	\$ 150.00	
MAR '22	\$ 185,600.00	\$ 166,000.00		\$ 19,400.00	\$ 200.00	
APR '22	\$ 219,600.00	\$ 200,000.00		\$ 19,600.00		
MAY '22	\$ 125,875.00	\$ 109,475.00		\$ 16,400.00		
JUN '22	\$ 201,524.00	\$ 179,074.00	\$ 5,700.00	\$ 14,200.00	\$ 2,550.00	
JUL '22	\$ 80,050.00	\$ 73,850.00		\$ 6,000.00	\$ 200.00	
AUG '22	\$ 180,700.00	\$ 172,850.00		\$ 7,600.00	\$ 250.00	
SEP '22	\$ 286,350.00	\$ 259,150.00	\$ 2,100.00	\$ 21,350.00	\$ 3,750.00	
TOTALS	\$ 1,755,699.00	\$ 1,579,649.00	\$ 9,500.00	\$ 159,250.00	\$7,300.00	\$0.00

**Updated as of 09/30/23*

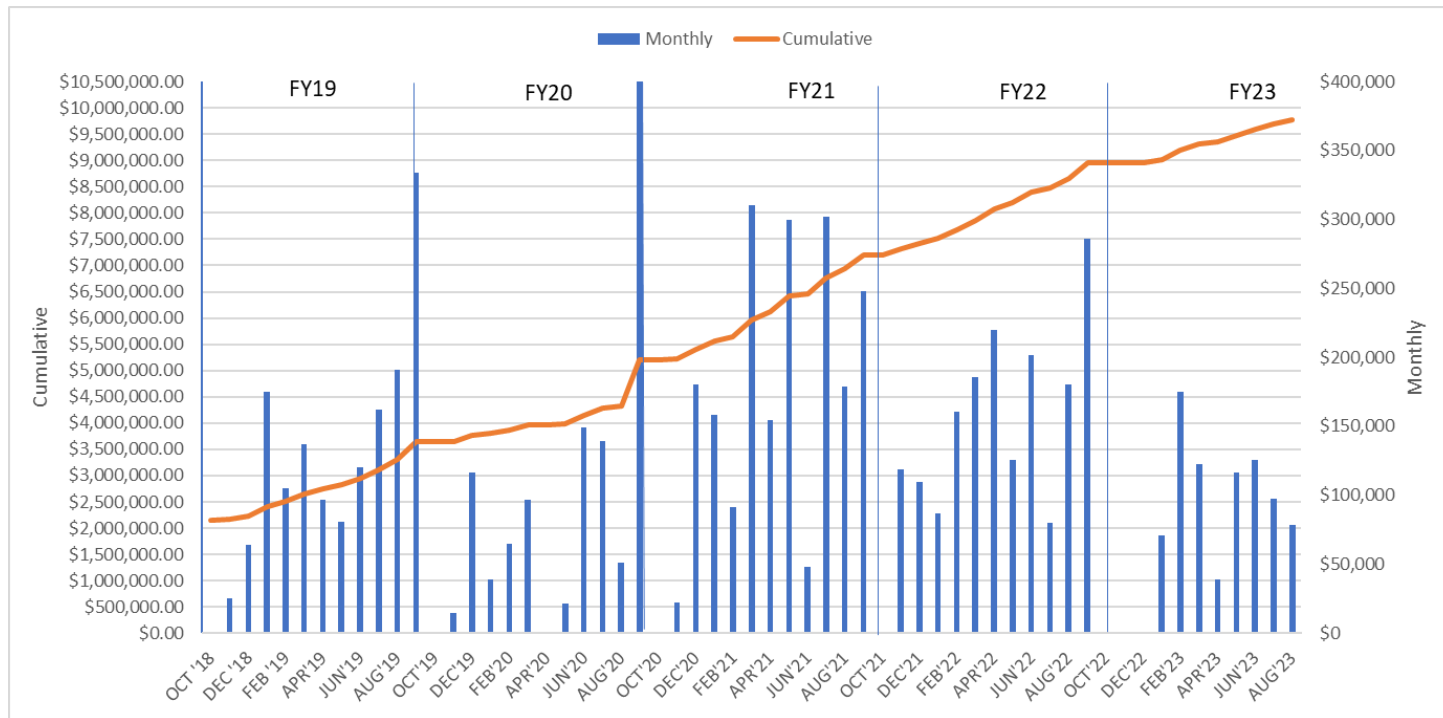
FY 2023- Rebate Amount Paid Monthly

Month	Total	Residential			Commercial	
		Split A/C Units	Central A/C Units	Washers/ Dryers	Split A/C Units	Central A/C Units
OCT '22*	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
NOV '22*	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
DEC '22*	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
JAN '23	\$ 70,600.00	\$ 68,000.00	\$ 1,150.00	\$ 1,450.00	\$ -	\$ -
FEB '23	\$ 175,250.00	\$ 160,050.00	\$ -	\$ 13,600.00	\$ 1,600.00	\$ -
MAR '23	\$ 122,950.00	\$ 113,650.00	\$ -	\$ 8,400.00	\$ 900.00	\$ -
APR '23	\$ 39,250.00	\$ 32,800.00	\$ -	\$ 6,200.00	\$ 250.00	\$ -
MAY '23	\$ 116,150.00	\$ 106,650.00	\$ 500.00	\$ 7,800.00	\$ 1,200.00	\$ -
JUN '23	\$ 125,400.00	\$ 118,250.00	\$ -	\$ 6,000.00	\$ 1,150.00	\$ -
JUL '23	\$ 97,425.00	\$ 89,025.00	\$ -	\$ 8,400.00	\$ -	\$ -
AUG '23	\$ 78,150.00	\$ 73,250.00	\$ -	\$ 4,600.00	\$ 300.00	\$ -
SEP '23	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
TOTALS	\$ 825,175.00	\$ 761,675.00	\$ 1,650.00	\$ 56,450.00	\$5,400.00	\$0.00

*Oct-Dec 2022 accrued in FY2022

*Updated as of 09/30/23

FY'19- FY'23 Rebate Amount Paid



*Updated as of 09/30/23

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

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

**Updated as of 09/30/23*

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

Month	Rec'd By CS	Paid By Finance
OCT '21	608	801
NOV '21	580	617
DEC '21	600	446
JAN'22	559	327
FEB '22	463	608
MAR '22	580	659
APR '22	569	819
MAY '22	488	506
JUN '22	645	895
JUL '22	533	302
AUG '22	338	663
SEP '22	362	229

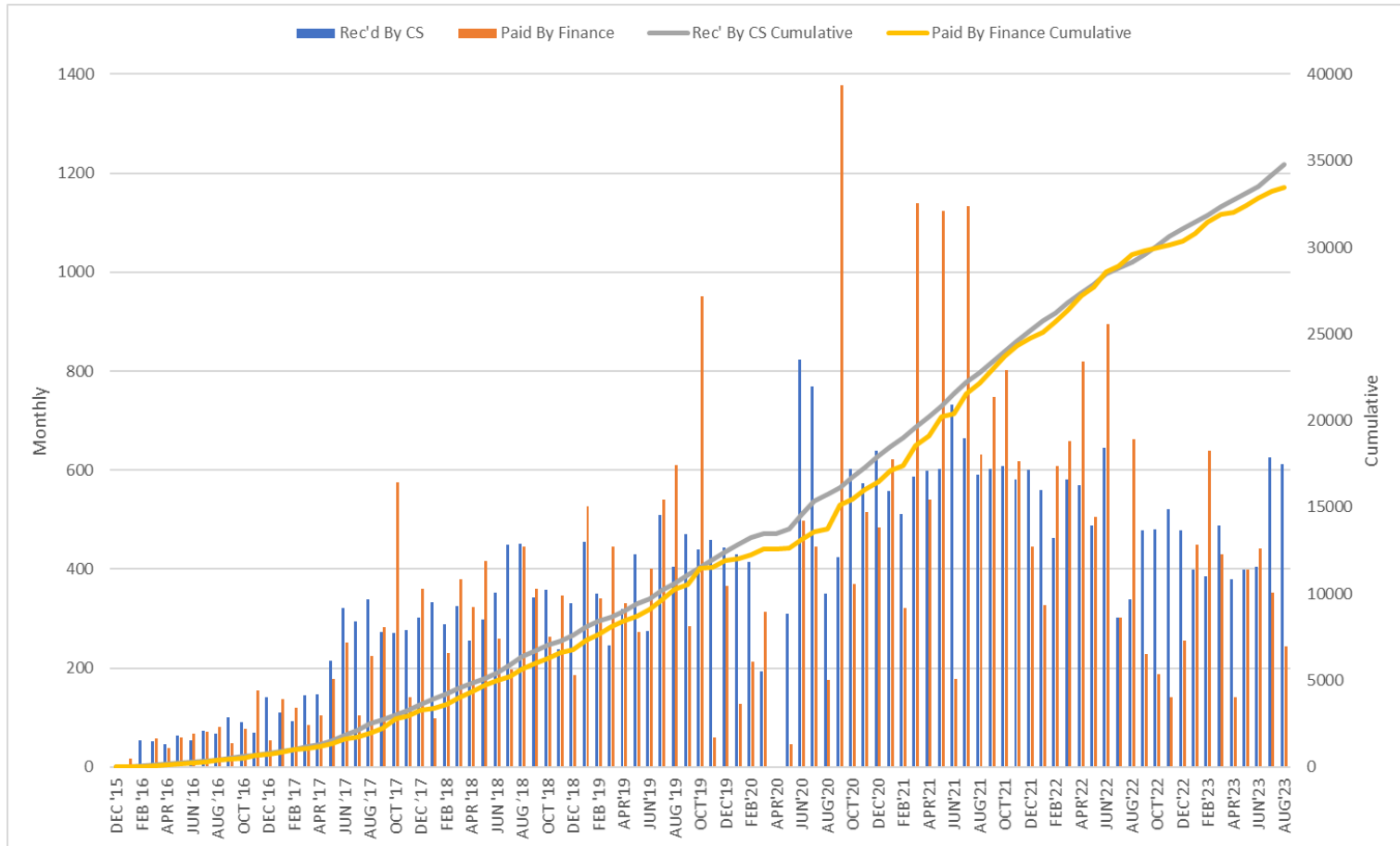
**Updated as of 09/30/23*

FY 2023 Number of Applications Received By Customer Service and Paid Monthly

Month	Rec'd By CS	Paid By Finance
OCT '22	481	188
NOV '22	521	141
DEC '22	479	255
JAN'23	398	450
FEB '23	385	640
MAR '23	487	430
APR '23	379	141
MAY '23	398	398
JUN '23	404	442
JUL '23	625	352
AUG '23	612	243
SEP '23		

**Updated as of 09/30/23*

Number of Applications Received By Customer Service and Paid



*Updated as of 09/30/23

DSM Online Report – July 2024

OVERALL COUNTS

Month	ALL			COMMERCIAL			RESIDENTIAL		
	Applications	Equipment	Rebates	Applications	Equipment	Rebates	Applications	Equipment	Rebates
FY-2022*	696	981	\$ 196,075	7	12	\$ 1,950	689	969	\$ 194,125
FY-2023	5,721	7,992	\$ 1,621,850	67	101	\$ 19,350	5,654	7,891	\$ 1,602,500
Oct-23	416	569	\$ 115,250	7	12	\$ 1,800	409	557	\$ 113,450
Nov-23	450	654	\$ 128,500	4	5	\$ 700	446	649	\$ 127,800
Dec-23	389	558	\$ 111,650	7	10	\$ 1,950	382	548	\$ 109,700
Jan-24	442	607	\$ 125,800	3	3	\$ 2,550	439	604	\$ 123,250
Feb-24	321	459	\$ 103,175	6	7	\$ 7,100	315	452	\$ 96,075
Mar-24	391	589	\$ 118,650	5	5	\$ 2,450	386	584	\$ 116,200
Apr-24	433	564	\$ 113,350	6	6	\$ 800	427	558	\$ 112,550
May-24	443	641	\$ 126,250	4	4	\$ 600	439	637	\$ 125,650
Jun-24	456	673	\$ 134,100	7	8	\$ 3,850	449	665	\$ 130,250
Jul-24	570	782	\$ 161,675	14	16	\$ 3,500	556	766	\$ 158,175
Aug-24									
Sep-24									
TOTAL	10,728	15,069	\$ 3,056,325	137	189	\$ 46,600	10,591	14,880	\$ 3,009,725

AVERAGES

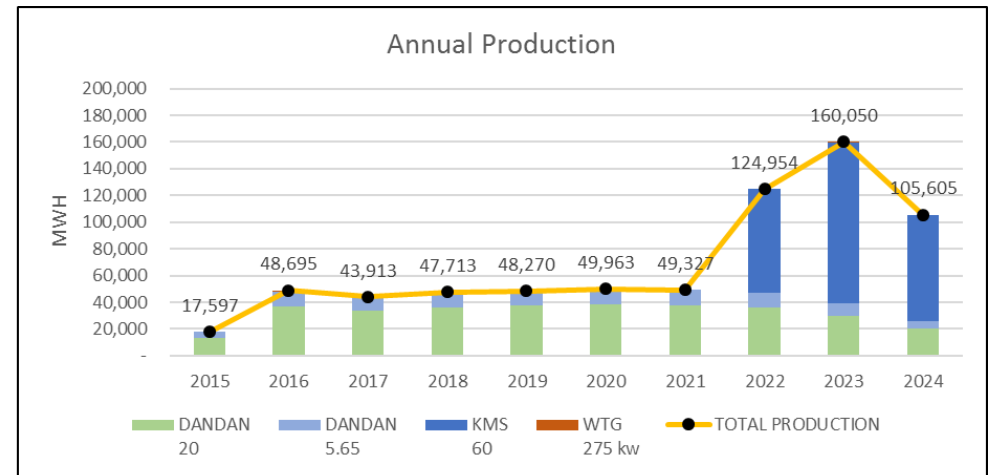
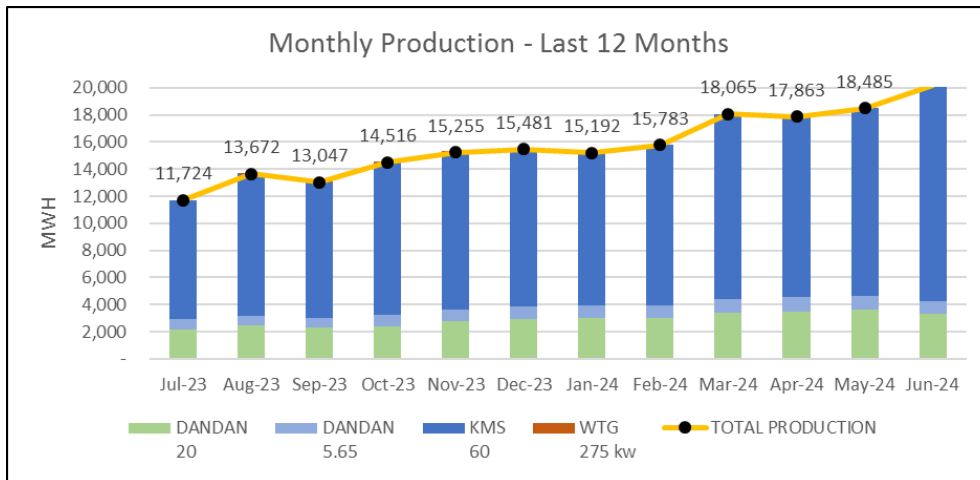
As of Jul-24	ALL		COMMERCIAL		RESIDENTIAL	
	Applications	Equipment	Applications	Equipment	Applications	Equipment
Rebates	\$ 285	\$ 203	\$ 340	\$ 247	\$ 284	\$ 202
Applications	488	685	6	9	481	676

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

Renewable Energy Production CCU Report

July 31, 2024

Renewable Energy Charts



*Updated as of 6/30/2024

Renewable Energy Data

Monthly Renewable Production - Last 12 Months (LTM)

Date	DANDAN 20	DANDAN 5.65	KMS 60	WTG 275 kw	TOTAL PRODUCTION
Jul-23	2,175.24	737.58	8,810.69	-	11,723.51
Aug-23	2,473.61	733.92	10,463.94	0.93	13,672.39
Sep-23	2,302.36	714.76	10,018.19	11.66	13,046.97
Oct-23	2,421.63	823.61	11,258.94	11.43	14,515.61
Nov-23	2,786.25	879.62	11,566.13	22.85	15,254.84
Dec-23	2,946.52	906.21	11,599.84	28.67	15,481.24
Jan-24	3,049.77	896.15	11,246.17	-	15,192.09
Feb-24	3,032.60	908.48	11,841.44	-	15,782.52
Mar-24	3,406.12	1,007.29	13,651.56	-	18,064.98
Apr-24	3,494.64	1,040.12	13,328.64	-	17,863.40
May-24	3,611.05	1,033.88	13,840.53	-	18,485.46
Jun-24	3,302.92	971.31	15,942.50	-	20,216.73
Total	35,002.72	10,652.92	143,568.56	75.54	189,299.75

Annual Renewable Production

Date	DANDAN 20	DANDAN 5.65	KMS 60	WTG 275 kw	TOTAL PRODUCTION
2015	13,522.50	4,074.07	-	-	17,596.57
2016	37,037.15	11,183.91	-	473.53	48,694.59
2017	33,472.41	9,983.29	-	456.90	43,912.60
2018	36,158.00	11,228.24	-	327.02	47,713.25
2019	37,247.12	10,792.06	-	231.26	48,270.44
2020	38,249.82	11,393.79	-	319.85	49,963.46
2021	37,841.47	11,485.18	-	-	49,326.65
2022	35,848.68	10,882.63	78,222.53	-	124,953.83
2023	29,579.29	9,258.34	121,136.71	75.54	160,049.89
2024	19,897.11	5,857.23	79,850.84	-	105,605.19
Total	298,956.44	90,281.51	199,359.24	1,884.11	590,481.30

- Dandan / GPS = Phase I Solar commissioned on 10/2015
- KEPCO Mangilao Solar (KMS) = Phase II Solar commissioned on 05/2022
- WTG = Wind Turbine Generation

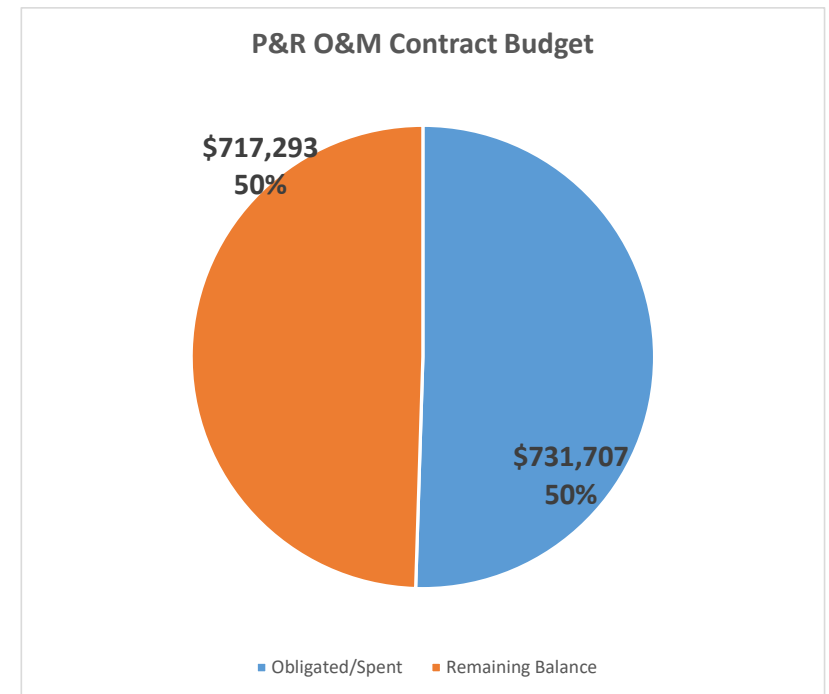
**Updated as of 6/30/2024*

Planning & Regulatory CCU Report

July 31, 2024

Planning & Regulatory O&M Contract Budget

- Revenue Funded
- Target
 - 0.00% O&M Obligation as of October 31, 2023 (Actual)
 - 0.00% O&M Obligation as of November 30, 2023 (Actual)
 - 5.42% O&M Obligation as of December 31, 2023 (Actual)
 - 11.63% O&M Obligation as of January 31, 2024 (Actual)
 - 13.69% O&M Obligation as of February 29, 2024 (Actual)
 - 25.85% O&M Obligation as of March 31, 2024 (Actual)
 - 25.85% O&M Obligation as of April 30, 2024 (Actual)
 - 28.67% O&M Obligation as of May 31, 2024 (Actual)
 - 30.55% O&M Obligation as of June 30, 2024 (Actual)
 - 50.50% O&M Obligation as of July 31, 2024 (Actual)



P&R Weekly & Monthly Inspection Reports

- Best Management Practices (BMP) Report Summary [Weekly]
- Generation Spill Prevention, Control, and Countermeasures (SPCC) Report Summary [Monthly]
- T&D Spill Prevention, Control, and Countermeasures (SPCC) Report Summary [Monthly]

- GPA is responsible to employees, the island environment, and the community to take all reasonable steps necessary to prevent spills from its facilities in order to protect human health and the environment

P&R Inspection Report Purpose

- The purpose of these inspections is to catch discrepancies and violations internally and correct them before inspections by Guam EPA and US EPA
- Regulatory Agencies can conduct scheduled or un-scheduled (surprise) inspections any time
- Any major discrepancies or violations cited can lead to issuance of a Notice of Violation (NOV), possible fines, and/or other enforcement action
- P&R conducts routine SPCC inspections in compliance with the requirements of 40CFR 112.7(a)(3)(ii), Discharge Prevention Measures

Weekly BMP Report

WEEKLY BMP REPORT SUMMARY CABRAS POWER PLANT MONTH OF JULY 2024

LEGEND OF TRACKING

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

LOCATION	#	WE 07/06/24 FINDINGS	WE 07/13/24 FINDINGS	WE 07/20/24 FINDINGS	WE 07/27/24 FINDINGS	RECOMMENDATION/ REMARKS	INITIAL FINDINGS DATE	DUE DATE	DATE COMPLETED	RESPONSE
Cabras Facility	1	Cabras 3 & 4 Building -ground pits have rainwater mixed with oil.	Cabras 3 & 4 Building -ground pits have rainwater mixed with oil.	Cabras 3 & 4 Building -ground pits have rainwater mixed with oil.	Cabras 3 & 4 Building -ground pits have rainwater mixed with oil.	Properly clean mixed rainwater and oil according to SPCC Procedures. (Planned for contracting).	6/12/2020	ASAP		
	2	Refilling Valve Pit: •Algae and rainwater accumulation in Day Tanks 1-4 refilling valve pit. • Roof at the refilling valve pit is damaged/corroded. • Corrosion of pipes and components.	Refilling Valve Pit: •Algae and rainwater accumulation in Day Tanks 1-4 refilling valve pit. • Roof at the refilling valve pit is damaged/corroded. • Corrosion of pipes and components.	Refilling Valve Pit: •Algae and rainwater accumulation in Day Tanks 1-4 refilling valve pit. • Roof at the refilling valve pit is damaged/corroded. • Corrosion of pipes and components.	Refilling Valve Pit: •Algae and rainwater accumulation in Day Tanks 1-4 refilling valve pit. • Roof at the refilling valve pit is damaged/corroded. • Corrosion of pipes and components.	•Maintain an adequate freeboard space in the valve pit as per SPCC and BMP. •Provide repairs for the damaged roof to prevent further accumulation. 07/25/2024: Damaged roof repair/replacement in progress. •Repair corrosion and repaint.	7/1/2022	ASAP		

Weekly BMP Report

LOCATION	#	WE 07/06/24 FINDINGS	WE 07/13/24 FINDINGS	WE 07/20/24 FINDINGS	WE 07/27/24 FINDINGS	RECOMMENDATION/ REMARKS	INITIAL FINDINGS DATE	DUE DATE	DATE COMPLETED	RESPONSE
Cabras Facility	3	Ponding Basin Grounds -Corroded metals and 20-foot container improperly stored near the ponding basin.	Ponding Basin Grounds -Corroded metals and 20-foot container improperly stored near the ponding basin.	Ponding Basin Grounds -Corroded metals and 20-foot container improperly stored near the ponding basin.	Ponding Basin Grounds -Corroded metals and 20-foot container improperly stored near the ponding basin.	Remove broken container to reduce heavy metals being discharged and compliance with effluent limit. <i>07/20/2024: Clean-up and disposal is in progress.</i> <i>07/25/2024:Corroded metals and the 20-foot container have been transferred to the collection bin for disposal.</i>	8/27/2021	ASAP	7/25/2024	
	4	Outfall - Corrosion of pipeline on bridge over cooling water outfall. No secondary containment.	Outfall - Corrosion of pipeline on bridge over cooling water outfall. No secondary containment.	Outfall - Corrosion of pipeline on bridge over cooling water outfall. No secondary containment.	Outfall - Corrosion of pipeline on bridge over cooling water outfall. No secondary containment.	Remove corrosion and repair. Ensure active monitoring required for maintenance.	4/20/2024	ASAP		
	5	Used Oil Facility - Damaged roof above the main oil/water separator.	Used Oil Facility - Damaged roof above the main oil/water separator.	Used Oil Facility - Damaged roof above the main oil/water separator.	Used Oil Facility - Damaged roof above the main oil/water separator.	Repair the roof to prevent collection of rainwater in the main OWS.	4/20/2024	ASAP		

T&D SPCC Inspection Report

SUMMARY OF T&D SPCC MONTHLY INSPECTION REPORT									
MONTH OF JULY 2024									
SUBSTATIONS									
LEGEND OF TRACKING									
							 Notification Date	 Completed	
							 Within Scheduled Remediation Period	 Deadline is Past Due	
#	SUBSTATION LOCATIONS		FINDINGS	RECOMMENDATION/REMARKS	STATUS	RESPONSIBLE	COMPLETION DATE	DUE DATE	INITIAL FINDINGS DATE
1	DEDEDO SUBSTATION (T-55)	1	Facility The substation area is clean and well maintained.	Maintain				ASAP	ASAP
2	DEDEDO SUBSTATION (T-191 and T-192)	1	Facility The substation area is clean and well maintained.	Maintain				ASAP	ASAP
3	DEDEDO SUBSTATION WAREHOUSE	1	Transformer Storage Area Good housekeeping	Maintain				ASAP	ASAP
		2	Used Oil Tank Area Transformers improperly stored have been moved to a proper location.	This issue has been addressed.	Completed.		07/25/2024	ASAP	06/24/2024
		3	Warehouse building The staging area is experiencing an accumulation of transformers and drums.	Drain and dispose of or salvage				ASAP	04/18/2024
		4	Oil-Water Separator Observed water accumulation in secondary containment.	Drain rainwater.				ASAP	07/25/2024
4	MACHECHE SUBSTATION	1	Facility The substation area is clean and well maintained.	Maintain				ASAP	ASAP
5	TALOFOFO SUBSTATION	1	Transformer and secondary containment The drain valve pit is filled with algae and rainwater.	Drain the water and clean out the algae.				ASAP	03/27/2024
		2	Secondary containment is filled with rainwater.	Drain water.				ASAP	05/29/2024
		3	Vegetation Observed good housekeeping.	Maintain				ASAP	ASAP
6	TENJO SUBSTATION	1	Transformer and Secondary Containment Good housekeeping is implemented in the substation.	Maintain				ASAP	ASAP
7	YIGO SUBSTATION	1	Facility The substation area was inspected and was clean and well maintained.	Maintain				ASAP	ASAP

Generation SPCC Inspection Report

SUMMARY OF GENERATION SPCC MONTHLY INSPECTION REPORT MONTH OF JULY 2024 POWER PLANT (GENERATION)								
							LEGEND OF TRACKING	
							 Notification Date	 Completed
							 Within Scheduled Remediation	 Deadline is Past Due
Item #	POWER PLANT LOCATIONS	FINDINGS	RECOMMENDATION /REMARKS	STATUS	RESPONSIBLE	COMPLETION DATE	DUE DATE	INITIAL FINDINGS DATE
1	CABRAS POWER PLANT	1 Cabras 3 & 4	Cabras 3 & 4 building ground/sump has rainwater mixed with oil.	Properly clean mixed rainwater and oil according to SPCC procedures. <i>(planned for contracting)</i>			ASAP	01/20/2023
		2 Cabras Day Tanks 3&4	Corroded supply pipelines. <i>[Pipelines still contain oil].</i>	Chip corrosion and repair.			ASAP	September 2021
		3 Outfall	The Cabras Power Plant fuel supply line has no secondary means of containment.	Ensure active monitoring as required for maintenance.			ASAP	November 2022
		4 Outfall	Corrosion on the fuel supply line above the outfall. <i>[This item is in coherence with finding no. 3].</i>	Remove the corrosion and repair the pipeline.			ASAP	07/31/23
		5 Cabras Day Tank 2	Leaking, uncovered drum filled with contaminated pads and debris.	Dispose of the drum. Clean up the contamination.			ASAP	01/19/2023
		6 Cabras Day Tank 1 valves	Valves are leaking.	Repair the valve and conduct a clean-up.			ASAP	01/19/2023
		7 Cabras Day Tank #2 - Supply Valves	Supply valves are heavily corroded. Leaking fuel.	Remove corrosion, repair the valve, and conduct clean-up.			ASAP	2023
		8 Cabras Day Tank #2 - Pipeline filter	The pipeline filter is leaking.	Provide repairs and conduct clean-ups.			ASAP	10/27/23
		9 Used Oil Tank	A corroded pipeline is experiencing a leak.	Remove corrosion, provide repairs, and conduct clean-up.			ASAP	2023

Generation SPCC Inspection Report (cont.)

Item #	POWER PLANT LOCATIONS	FINDINGS	RECOMMENDATION /REMARKS	STATUS	RESPONSIBLE	COMPLETION DATE	DUE DATE	INITIAL FINDINGS DATE
1	CABRAS POWER PLANT	10 Cabras 1 & 2 Transformer	Leaking transformer. Overflowing drip pans.	A repair has been scheduled. Awaiting the arrival of shipped parts.			ASAP	11/29/23
		11 Lube Oil Tank (Across Switchyard)	The pipeline is experiencing heavy corrosion.	Remove the corrosion and repair it.			ASAP	04/25/24
2	DEDEDO CT	1 Oil Water Separators (DCT 1 and DCT 2)	Observed corrosion buildup on OWS 1 & 2 tank walls and pipelines.	Remove the corrosion and repaint.			ASAP	04/27/23
		2 Engine Room, Generator Bldg. (DCT 2)	The area is clean and well-maintained. <i>Did not inspect DCT 1 due to the unit being online and for safety.</i>	Maintain good housekeeping.				
		3 Plant grounds	Damaged chain-link fence.	Fix the security fence near the entrance gate.			ASAP	08/29/23
			Observed trash and miscellaneous materials outside CT1 and CT2 buildings.	Conduct proper disposal of trash and miscellaneous materials.	07/24/2024: Clean-up and disposal are ongoing.		ASAP	01/22/24
		4 Refueling Area	The staging area is accumulating drums and miscellaneous debris.	Schedule items for disposal.			ASAP	04/18/24
5 Refueling Dock	Corroded saddle supports on refueling pipes.	Repair the corrosion and repaint.			ASAP	05/15/24		