

CONSOLIDATED COMMISSION ON UTILITIES

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

Regular Board Meeting CCU Conference Room, Gloria B. Nelson Public Service Building 5:30 p.m., Tuesday, September 28, 2021

AGENDA *AMENDED

1. CALL TO ORDER

The CCU Chairman called the CCU Regular Meeting of September 28, 2021 to order at 5:30 p.m. He said four [4] Commissioners were present for a quorum and that Comm. Sanchez was excused. Others in attendance include:

Commissioners:

Joseph T. Duenas

CCU Chairman

Francis E. Santos

CCU Vice Chairman

Michael T. Limtiaco

CCU Secretary

Peter Roy Martinez

Commissioner

Executive Mgmt.:

John Benavente

GM / GPA

Miguel Bordallo

GM / GWA

Melinda Mafnas

AGMO / GPA

Tom Cruz

AGMO / GWA

Tricee Limtiaco

AGMA / GPA

Chris Budasi

AGMA / GWA

John J. Cruz

AGMET / GPA - Online

John Kim

CFO / GPA

Taling Taitano

CFO / GWA

Graham Botha

Legal Counsel / GPA

Therese Rojas

Legal Counsel / GWA

Management & Staff:

Vien Wong

IT Support / GPA

Vlad Navasca Vangie Lujan IT Support / GPA

Compliance & Safety / GWA

Ann Borja-Gallarde

Management Analyst IV / GWA Ex. Office

Joyce Sayama

Management Analyst / GPA Ex. Office

Guest:

PNC News

Online

Annmarie Muna

AM Insurance

2. APPROVAL OF MINUTES

The Minutes of the Special Meeting of June, 3, 2021 and the Special Meeting of June 18. 2021 were presented for approval.

Comm. Santos motioned to approve the Minutes subject to verification and written correction, second by Comm. Martinez. There was no discussion and the motion passed 4 ayes, 1 absent.

3. PUBLIC COMMENTS - None

4. GWA

4.1 GM Report

GWA Workforce availability as of September 17, 2021

Healthy	348	94,1%
Sick, not COVID-19 related	4	1.1%
COVID-19 Quarantined	9	2.4%
Employee with COVID-19, active case	1	0.3%
Military Leave	7	1.9%
LTD	1	0.3%
	370	100%

	Total	
Healthy/Reporting for duty at worksite	340	91.9%
Healthy/Reporting for duty - Teleworking	8	2.2%
Employee with COVID-19, active case	1	0.3%
Employee sick - symptoms unrelated to COVID-19	4	1.1%
Military Leave	7	1.9%
Employee (to be) tested for COVID-19 with results pending	3	0.8%
Employee's direct exposure to a household member with symptoms related to COVID-19	1	0.3%
Employee sick - symptoms related to COVID-19	3	0.8%
Employee's direct exposure to a household member - COVID-19	2	0.5%
LTD/Workers Comp	1	0.3%
	370	100%

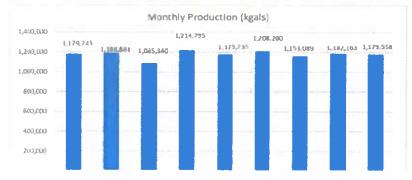
GWA Workforce Vaccine Status as of September 17, 2021

One Shot Remaining	24	6.49%
Fully Vaccinated	300	81.08%
Did Not Receive Shot	46	12.43%
Bearing the state of the second secon	370	100%

Operations Update

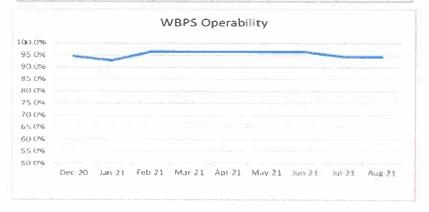
Production (August 2021)

Monthly Pro	duction Summa	ry - Augusi	2021				
Deep Wells			34.9	MGD			
Active wells =	91	of 120	100				
Avg days in operation	= 31	days			24		
Total Production =	1,081,128	Kgals					
Springs			0.22	MGD	DW Status as of 1	1/21/2021	
Avg days in operation	= 31	days		1.00	Active	91	
Total Production =	6,911	Kgais			100		
Ugum Surface Water Plant			2.0	MGD	Grounded material		A26-001-003-010-0188-F06-F13-Y16-Y20
Avg days in operation	= 31	days	_		Pump Fallure	12	F04-F15-Y21
Total Production =	62,754	Kgals			Out of commission	8	A02-A07-A28-005-D13-N14-A001-A005
Tumon Maui Well		thire .	0.93	MGD	Yempararily Secured -	2	A23-A25
Avg days in operation	= 31	days			Standby	6	A29-024-F05-4609-Y01-Y02
Total Production =	28,765	Kgals			Temporarily Secured	1	P07
	1,179,558	Kgals	38.1	MGD	TOTAL	120	



Distribution (August 2021)

	Monthly	Distribution	Summary	- August 20	21
Wa	ter Booster Pum	p Stations			
	District	No. of Stations	Total Pumps	Pumps Operating	% Operational
	Northern	13	26	25	96.2%
	Central	7	14	12	85.7%
	Southern	7	15	15	100.0%
		27	55	52	94.5%



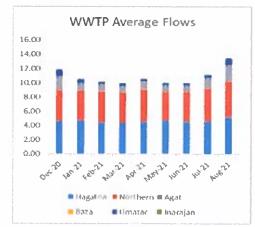
Wastewater Collections (August 2021)

	Monthly Collections Summary - August 2021								V	//V/PS	Oper	ability			
Wastew	Vastewater Pump Stations									_Aug	ust 20	21			
	District	No. of	Total	Pumps	%	90.0%	=	11.						_	
	District	Stations	Pumps	Operating	Operational	810%									
	Northern	22	52	44	84.6%	79.0%									
	Central	29	63	59	93.7%	60.0%									
	Southern	26	56	49	87.5%	50.0%									
		77	171	152	88.9%		Dec-20	Jan-21	Feb-21	Mir-21	Apr-23	Nay-2	l /un-21	Jul-21	Aug-



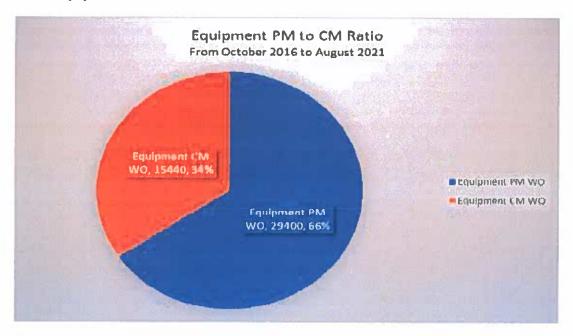
Wastewater Treatment (August 2021)

/ Treatment Plants	- Flows			
Facility	Avg. Daily Flows	Sludge (lbs)	Sluc	dge Disp. (\$)
Hagatna	5.06	89,720	\$	8,075
Northern	5.10	606,920	\$	54,623
Agat	2.39	78,700	\$	7,083
Baza	0			
Umatac	0.78	T		
Inarajan	0.16			
	13.49	775,340	\$	69,781

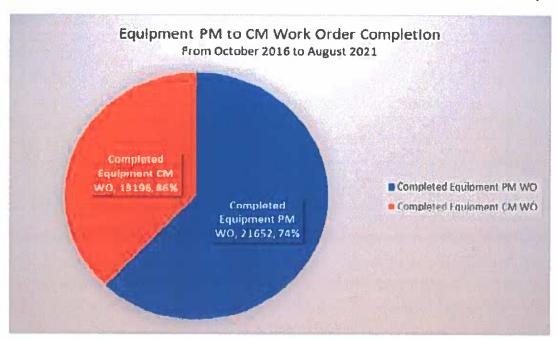


Asset Management (through August 2021)

I. Equipment Preventive Maintenance to Corrective Maintenance Ratio

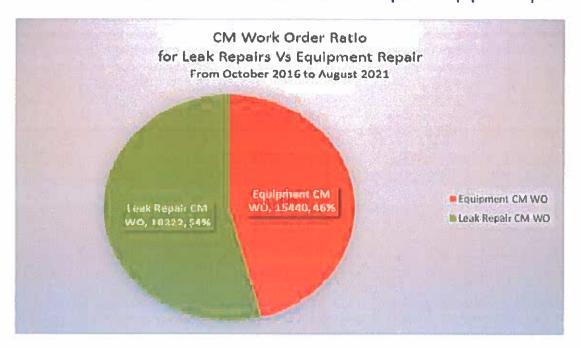


II. Equipment Preventive Maintenance to Corrective Maintenance Work Order Completion

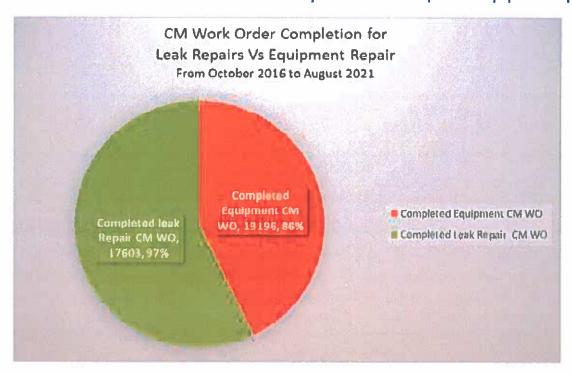


Asset Management (through August 2021)

III. Corrective Maintenance Work Order Ratio for Leak Repairs vs. Equipment Repair



IV. Corrective Maintenance Work Order Completion for Leak Repairs vs. Equipment Repair



One Guam Update (through August 2021)

Tumon Maui Well

- Still waiting on AAFB approval to increase the pumping rates to be consistent with the GEPA well permit.
- The license for TMW will be for 1 more year. Then next term will be fa 5-year lease. The valuation of the property will
 determine the amount of the fee for the lease.
- Next inspection will be October 20, 2021

OEA Projects

- Observation Wells/NGLA
 - DoD is working to resolve ownership issue w/ adjacent landowner. DOD met with the Department of Land Management to
 resolve the issue with the property. GWA still needs to access BPM-1 site in Mangilao for rehabilitation project.

Strategy/Framework Discussion

- Santa Rosa Intertie Still pending approval by Andersen leadership (as with TMW/AG-1).
- . Route 16 Intertie Project will not start until 2023.

Property Transfers

- Transfer of Navy Laterals at Murray Road and to Schoeffel Heights to GWA Right of Entry is being reviewed by DOD
- Transfer of ACEORP Tunnel No new update; waiting for GovGuam to sign.
- Easement on Marbo property for Sewer Line GWA request for easement/relocation was delivered to DOD. GWA still waiting on response.
- Amendment to the Cetti Bay easement is approved; documents will be transmitted to GWA.

Other

- GWA is preparing a Standard Operating Procedures (SOP) for Wastewater Batch Discharge from DOD to GWA.
- DOD is considering discharge of pool water from Camp Blaz to GWA. GWA will issue a Pretreatment Permit for the discharge into GWA wastewater system. DOD will coordinate with GWA on the discharge.
- The AWWA-HIWPS annual conference will be virtual and will be free.

Court Order Summary (August 2021 - no changes)



	Court Order Items	%	Performance
Completed/Continuous - on time	78	84%	on-time or
Completed - late	14	15%	completed)
In Progress - on time	0	0%	
In Progress - late	1	1%	
Totals	93	100%	98.9%

Court Order - Status Information (August 2021)

- No CO delays due to approval of CO extension.
 - o Final Date to complete CO 29(b) is June 30, 2023.
- Overflow or Bypass events reported to USEPA (for August up to September 1, 2021):
 - SSO #453, Aug. 22, 2021-Aga St., Santa Rita Heavy Rain
 - SSO #454, Aug. 20, 2021-Chalan Pago/Ordot Sewer overflow, Station Pump Airlocked
 - o SSO #457, Aug. 23, 2021-Vicente Salomon, Agaña Heights FOG
 - o SSO #459, Aug. 26, 2021-Chalan Canton Tasi, Merizo PS Controller Issues
 - o SSO #461, Sept. 1, 2021-Chagamin Lago, Inalahan Heavy Rain

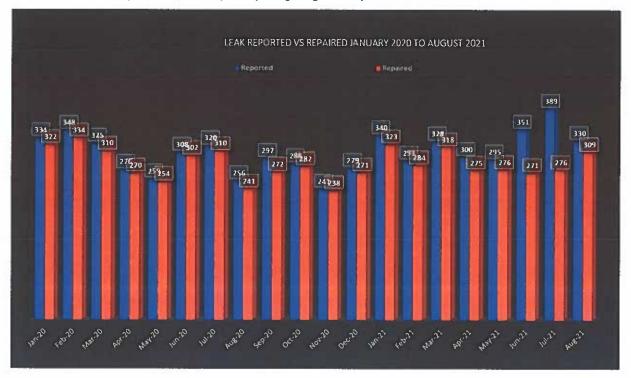
Land Acquisition Summary (for August 2021)

GWA Facility	Location	Gov. or Private Property	Land Acquisition Status
Tanks	Astumbo	Gov't CLTC	Petition of Land Registration package forwarded to Attorney General by DLM 11/04/19. AG pending court filing 06/30/2021. Follow up status sent to DLM 09/02/2021.
Idina	Piti	Private	Received final comments from DoAg. Waiting on the archaeological report before we can submit 299 form. Waiting for permission from NPS to access the lot and perform the Archeological survey.
	Airport	Private	Escrow/Title Service for land acquisition purchase opened 08/27/2021.
Deep Wells	AG-12	Dept. of Agriculture / Manhita Farms	Right of Entry Agreement sent to Dept of AG for signature 05/24/18. 2nd follow up sent on 09/12/18. 3rd follow up sent on 04/10/19. Retracement Survey Property Map filed and recorded at DLM 7/10/19. DCA submitted parceling map to DLM for review and comments on August 18, 2021, waiting for their review comments.
Booster Pump Station	Agfayan	Private	TGE working on structural design for pump station area for L28, B19, T3734, Inarajan 11/07/19. Letter of Decision received by CLTC 06/09/2021.

Land Acquisition Summary (for August 2021 – continuation)

GWA Facility	Location	Gov. or Private Property	Land Acquisition Status
Asan Springs	Asan	Federal	In order for NPS to issue a land ROW agreement with GWA, NPS has to complete NEPA first. GWA has HDR under contract to perform this work and an Environmental Assessment (EA) will be developed. The permit for the biological survey was submitted on 6/12/2020 and was signed by NPS on 1/22/2021. Further coordination between NPS and SHPO is pending to determine necessary approach for an archaeological survey. New Chief of Resources for War in the Pacific National Historical Park, Timothy Clark, hired. Replacing Tahzay Jones, who was previously working with us. HDR following up with Tim Clark to get him up to speed on things.
			Biological Survey: Fieldwork completed, 2/10/2021. Based on a preliminary finding by HDR's biologist they have found snails dose to the site, and within NPS proposed ROW, and outside the proposed ROW. Draft report submitted to NPS, 4/1/2021. Comments received from NPS, 6/4/2021. Final Report submitted to NPS, 6/12/2021.
			DOAG Environmental Consultation Letter: HDR sent Request letter sent to DOAG (Dep of Ag) on 3/15/2021. GWA followed up with DOAG on 6/25/2021. DOAG responded on 7/1/2021, but did not reach GWA Eng. until 8/4/2021; HDR review response letter and will respond soon.
			Pending archaeological survey requirements from SHPO. SHPO Letter sent to NPS for review, 5/29/2021. Received first comments on letter on 7/1/2021; submitted revised letter on 7/12/2021.

Comparison of Leaks Reported vs. Leaks Repaired (through August 2021)

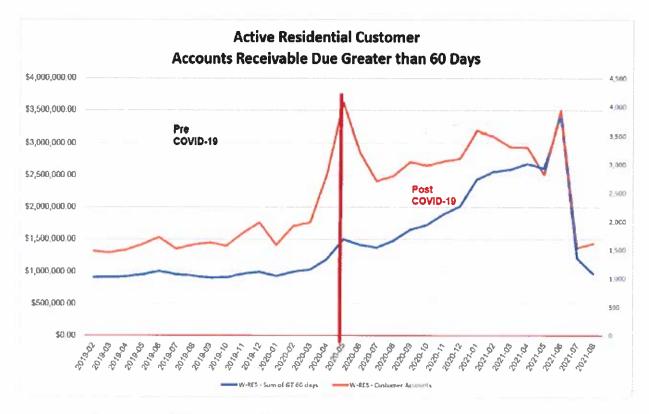


Monthly Leak Report Cost (through August 2021)

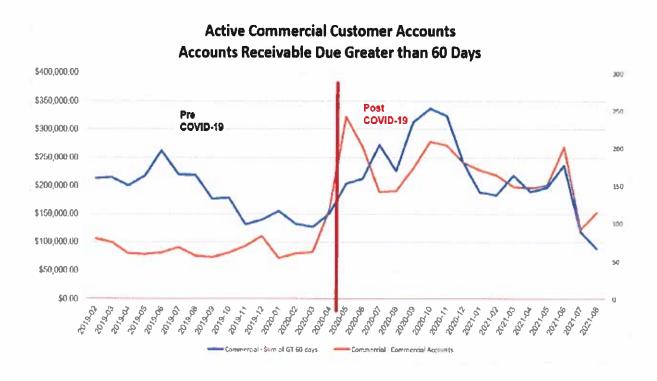


Assumptions:

- 1. Leak rate = 4 gpm
- 2. Cost per kgal = \$4.00



Accounts Receivables Due Greater than 60 Days (through August 2021)



AGM for Administration Chris Budasi reported that for August there continues to be improvement for residential customers. We are back to pre-pandemic levels for residential customers. For commercial customers we are still below pre-pandemic status.

4.2 Financials

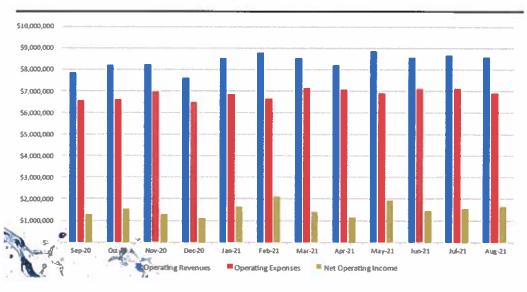


Key Financial Indicators

Indicator	Target	Jul-21	Aug-21
DSC YTD			
Per Section 6 12 of Indenture	1.25	1.35	1.35
Per PUC / CCU	1.4	1.35	1.35
Daya - Ceah on Hend	120 days	297 dayo	309 daye
Collection Ratio			
Month to Date	99%	107%	94%
Year to Date	99%	98%	99%
Days Billed	30 days	30 days	30 daye
Account Receivable Days	30 dayo	45 days	45 daye
Account Payable Daye	45 daya	39 daye	38 daye
Employee Count	400 FTE	363 FTE	372 FTE
Water Demand			
Month to Date	478,754	437,884	443,188
• Year to Date	5,268,298	4,444,009	4,887,197
Westewater Flow			
Month to Date	358,472	311,784	332,271
Year to Date	3,921,198	3,141,131	3,473,402
Water Cuatomera	42,839	43,258	43,184
Wastewater Customers	29,805	29,885	29,796

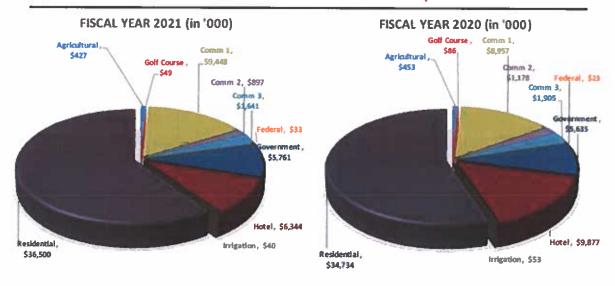
GUAM WATERWORKS AUTHORITY

Income Statement



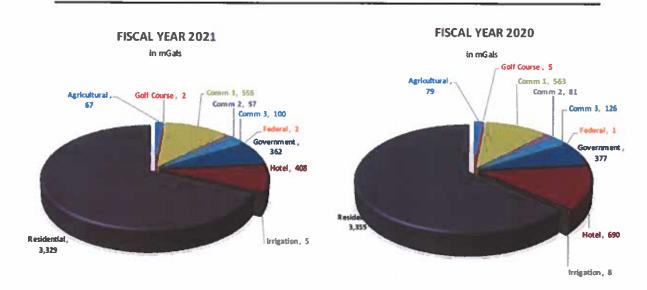


AUGUST 2021 YTD Water Revenue by Rate Class



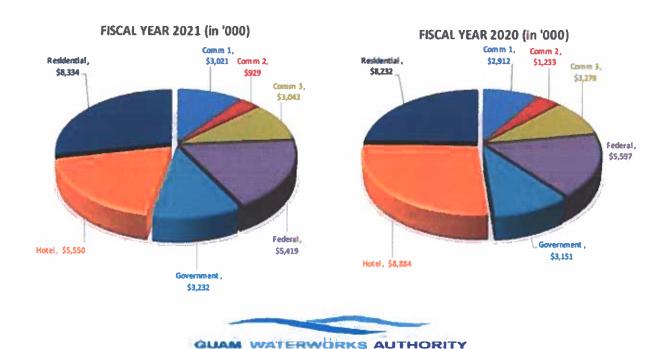
GUAM WATERWORKS AUTHORITY

AUGUST 2021 YTD Demand

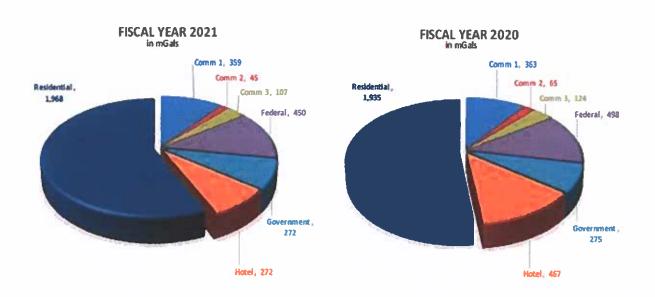




AUGUST 2021 YTD Waste Water Revenue by Rate Class

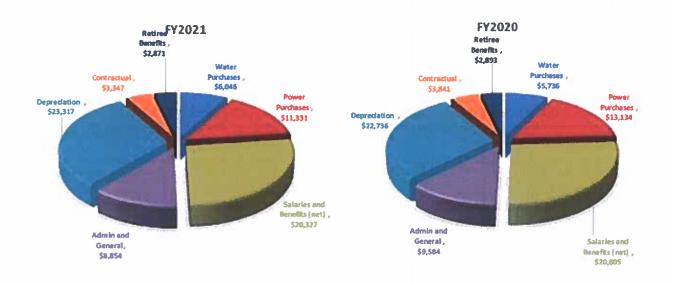


AUGUST 2021 YTD Flow



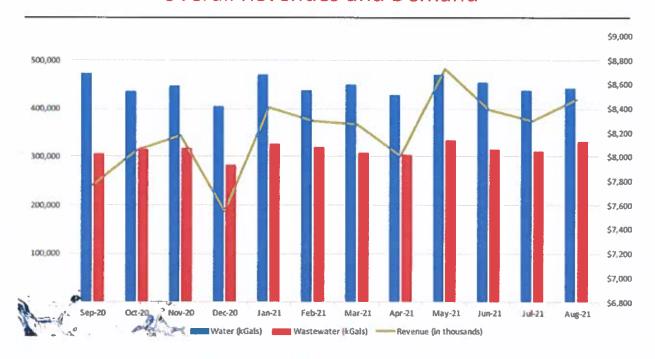


AUGUST 2021 YTD Expenses by Categories



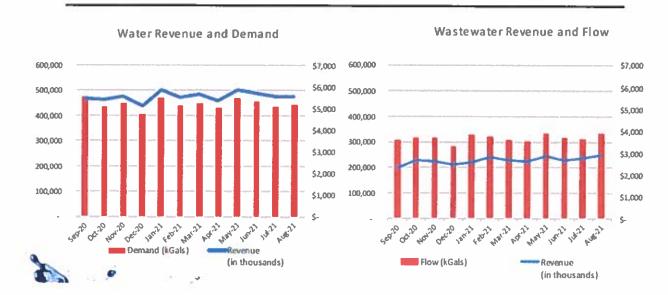
GUAM WATERWORKS AUTHORITY

Overall Revenues and Demand





Revenues and Demand



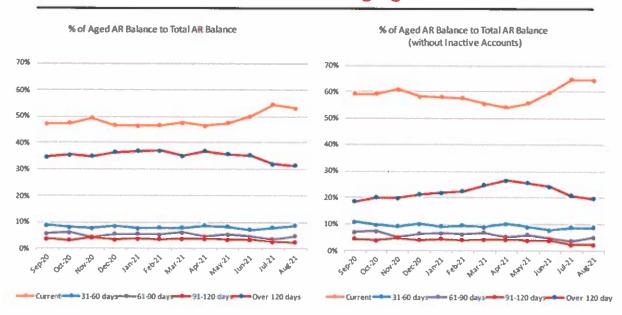
OHAM WATERWINDER AUTHORITY

Overall Revenues and Collections





Overall - AR Aging



4.3 Resolution No. 28-FY2021 Approval of Legislation Authorization to Set-Up Tax Exempt Commercial Paper Program

The Authority has all but exhausted its current borrowing authority and must plan for the next set of CIPs in its Master Plan, in particular, the projects that are likely to be included in the upcoming USEPA consent decree. Given the increasing cost of construction, GWA management is seeking additional borrowing authority for up to \$300 million.

Including a Commercial Paper (CP) Program in GWA's integrated financing strategy, as discussed in the PUC FY20 Rate Order and the GWA Capital Financing Alternatives Study, has the potential to reduce debt service requirements.

The financing will support CIP projects throughout the island. The borrowing costs of the 2020A Bonds resulted in coupon rates of 4% and an all in TIC (True Interest Cost) of 4.587%. The Series 2020B Bonds (taxable refunding of Series 2013 Bonds) resulted in average coupon rates of 3.61% and an all in TIC of 3.7%.

The interest rates on CP are based Federal Reserve Board publications which use data for certain trades to estimate a relation between interest rates on the traded securities and their maturities, with the final pricing on CP based on the specific short-term credit rating of the issuer. Normally, the cost of CP is calculated using the CP index, plus a spread for credit support in the form of a letter of credit (L/C) and a remarketing fee. The dealer fee, for rate

setting and dealer services, is based on market conditions and is in the range of 5 to 15 basis points. There are additional fees for obtaining a credit rating, as CP is generally rated. We hope to have legislation in place by the end of January 2022. GWA Operating Revenues are the pledged funding source to pay debt service and related fees.

Comm. Limtiaco asked if the all the interest was included in the rolling balance in the 27-year bond as well and the GM said yes. Comm. Santos asked if the commercial paper rates are at 1.6%. The GM said the Federal Reserve Board establishes data and that data is used to establish what the CP would cost. Other fees are added into the mix between 5-15 basis points and the credit rating of the issuer also is key. In terms of range it could be 1.6% as opposed to 3.4% on long term bonds. The GM said interest is accrued only on the amounts that are drawn. As the funds are drawn down administrative costs will come into play but the overall costs are minimum.

Comm. Santos asked about GEDA's fees and the GM said it would only be for the take-out bond. He has not seen any figures from GEDA yet for the Commercial Paper program. Comm. Duenas said this question is important and asked the GM could verify this.

The GM said that he hopes the Commercial Paper Program in place by the end of January next year. The additional Commercial Paper funds would not be needed until the end of the fiscal year which gives enough time.

Comm. Limtiaco asked re the line-out for the total cumulative amounts and asked if the final draft is inclusive of the line-outs. The GM said the existing law places a limit on short term borrowing. The proposed legislation removes this language and applies the new limit and borrowing authorization for the Commercial Paper Program and also ties in the take out provision.

Comm. Santos motioned to approve Resolution 28-FY2021, second by Comm. Limtiaco. There was no further discussion or objection and the motion passed - 4 ayes 1 absent.

4.4 Resolution No. 29-FY2021 Approval of Amendment for the Indefinite Delivery / Indefinite Quantity Professional Project/Construction Management Service Contract

GWA currently has an IDIQ contract with Brown and Caldwell (BC). Amendment No. 2 to Task

Order No. 3 extends the contract time to align with the project's forecasted completion date

of December 2022 and includes adding project management and contract management

services for the Rt.1 Phase 2 construction (on-going). The amount of increase is \$141,435.00.

Amendment No. 4 to Task Order No. 4 extends the contract time to align with the project's current construction schedule. Due to permitting delays, the original construction completion date has passed and construction is now scheduled to be completed on December 17, 2021. This amendment to Task Order No. 4 extends BC's services to December 31, 2021 and increases the Task Order budget by \$95,964.00 (excluding tax) on a Time and Materials basis to cover project and contract management effort throughout this extension. Additionally, this

amendment to Task order No. 4 includes additional survey work needed to complete the transfer of easements for the sewer forcemain in the amount of \$8,800.00 (excluding tax).

Task Order No. 3 construction is located along Route 1 from Asan-Adelup to the Hagatna Sewer Pump Station. Task Order No. 4 construction is located at Lemai Drive, Santa Rita in the Hyundai Subdivision.

The cost for Amendment No. 2 to Task Order No. 3 is \$141,435.00 and the cost for Amendment No. 4 to Task Order No. 4 is \$110,002.00 (including tax). Therefore, the total cost of Amendment to Owner-Engineer Agreement No. 4 and change order to the IDIQ Contract is \$251,437.00.

The current authorized IDIQ contract amount is \$2,296,795.00. In total, an additional \$251,437.00 will be added to the IDIQ Contract to cover the proposed amendments for Task Order Nos. 3 and 4 that will increase the IDIQ contract amount to \$2,548,232.00.

Task Orders, and their amendments, issued to date include:

- Task Order No.1 Consulting Engineer's Report
 - Amendment No.1 Clarification relative to the Municipal Advisor Disclosure
 - Amendment No.2 Increase in scope for additional draft reports, updating financial projections, and evaluation of COVID-19 impacts on the financial projections.
 - Amendment No.3 Increase in scope to address continuing development of changes required to the financial plan to adequately address the COVID-19 impacts, additional financial analysis and report modifications.
 - Amendment No.4 Increase in scope to add task for assistance with and attendance at the individual investor meetings.
- Task Order No.2 Project/Contract Management for Rt.4 Sewer Rehabilitation
 - Amendment No.1 Extension of performance time and associated increase in total fee due to construction period extensions.
- Task Order No.3 Project/Contract Management for Rt.1 Sewer Rehabilitation
 - Amendment No.1 Extension of performance time and associated increase in total fee due to construction period extensions; plus increasing the scope to provide PM/CM for construction of the Adelup to Hagatna section.
 - Proposed Amendment No. 2 Extends the contract time to align with the project's current construction schedule which increases the Task Order budget by \$141,435 to cover project and contract management effort.
- Task Order No.4 Project/Construction Management for SSES phase 2 Hyundai Subdivision Lift Station
 - Amendment No.1 Extension of performance time and associated increase in total fee due to construction delays; plus adding archaeological services to the scope of work.

- Amendment No.2 Extension of performance time (no-cost change order).
- Amendment No.3 Extension of performance time (no-cost change order).
- Proposed Amendment No. 4 Extends the contract time to align with the project's current construction schedule which increases the Task Order budget by \$95,964 to cover project and contract management effort. Additional survey work needed to complete the transfer of easements for the sewer forcemain in the amount of \$8,800.
- Task Order No.5 Cost of Service Study (PUC Stipulation)
- Task Order No.6 Water Meter Technical Assistance
- Task Order No.7 Consent Decree and Hydraulic Modeling Assistance
- Task Order No.8 Water Resources Master Plan Interim Update

Task Order No. 3 is anticipated to be completed by December 31, 2022.; Task Order No. 4 is anticipated to be completed by December 31, 2021. The funding source will be from the USEPA Grant Funds.

Comm. Santos motioned to approve Resolution 29-FY2021, second by Comm. Limtiaco. There was no further discussion or objection and the motion passed – 4 ayes, 1 absent.

Comm. Santos asked the GM's the status of GPA and GWA's vaccination policy. GWA GM Bordallo said that GPA has taken action to do testing in-house and GWA will wait to see the outcome but GWA's draft policy is ready and pending GPA. GPA GM said the in-house testing is for both those that vaccinated and unvaccinated. The policy should be finalized next week.

AGMA Tricee Limtiaco reported that 2 types of testing the Abbot Binex will be available the Abbot Rapid Antigen testing and if these come up presumptive positive DPHSS have verbally confirmed that GPA would be trained to run the Abbott ID Machine – a molecular test not PCR. We would be able to confirm presumptive positive on site. The AGMA confirmed that these test will be done in a special room. There are series of steps being undertaken right now to allow GPA to put this all in place. She said this will help us become more efficient in GPA's testing and will lower the amount of time that employees are out waiting to get tested.

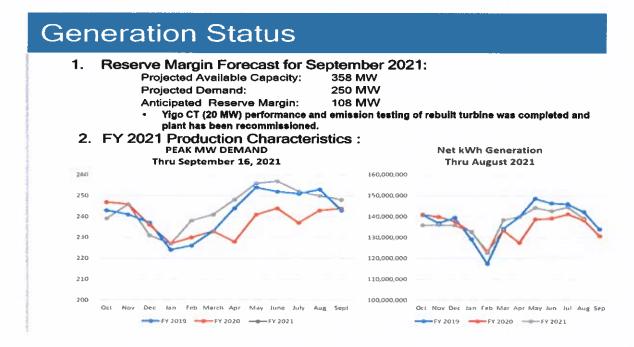
Comm. Limitaco asked if there is a mandatory vaccination policy with the testing alternative and that the unvaccinated will still need to test weekly and those vaccinated are not being tested. He asked the current employee data statistics - how many are testing positive that are unvaccinated vs. those that are vaccinated? AGMA Limitaco said that per the Presidential Order, GPA will arrange testing for those who are unvaccinated however employees who would like to test despite their vaccination status will be accommodated. Relative to the make-up of those who are vaccinated and unvaccinated. The AGMA reported on cased in August and September there were 14 positive cases; of the 8 cases in August, 6 were fully vaccinated, 5 of them had household contact. In Sept. there were 6 cases and 5 were fully vaccinated. Re GWA 30 cases [since the onset of COVID] were reported 40% were vaccinated and 60% were not vaccinated. Comm. Limitaco said based on these figures how does testing only the

unvaccinated solve the problem. GM Benavente said they are moving forward and following the federal mandate. 88% of GPA's employees are fully vaccinated however there are some testimonials that even in families those that were not vaccinated had a more serious illness. At this time GPA is moving towards compliance and beyond this we want the testing to be available.

Comm. Limitaco said testing the unvaccinated only does not make sense because current data shows that more than half were vaccinated. Comm. Duenas said his concern is how many days were the vaccinated ill vs. the unvaccinated. What was the severity of the illness from the vaccinate versus those that are unvaccinated? This would be interesting to know.

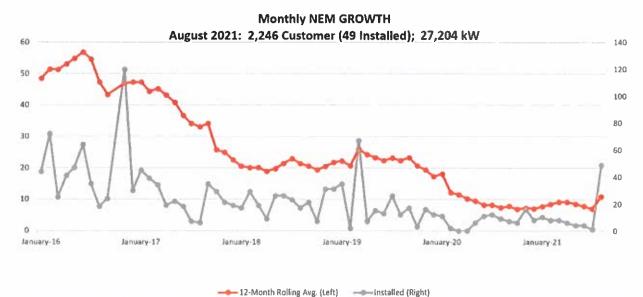
5. GPA

5.1 GM Report



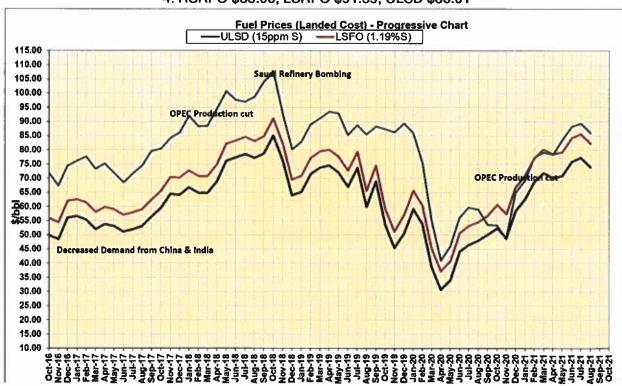
Net Metering

3. Net Metering (NEM) Growth Thru Aug 2021:



GPA Fuel Landed Cost (Per Barrel) Sept 16, 2021

4. HSRFO \$83.06; LSRFO \$91.39; ULSD \$86.01

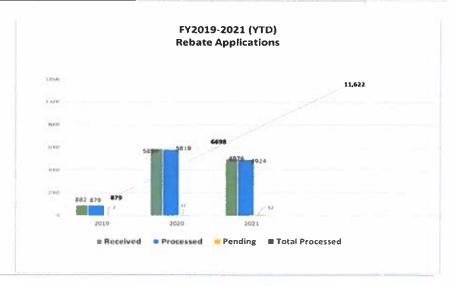


Demand Side Management (DSM)

5. DSM Funding as of Aug 31, 2021:

		FY'21 thru 8/21/21		FY'16-FY21 YTD TOTAL		Paid Rebates
Regular/OT Pay	\$	141,399.12	\$	299,243.12	4.1%	\$2,800.b0 \$2,425.00
Other Contractual	\$	72,650.00	\$	306,481.05	4.2%	\$5,400,00 \$6,200,00 \$5,200,000 \$94,000,000 tel equipm
Ads & Radio Announcements	\$	-	\$	9,000.00	0.1%	\$1,00,000 \$98,093,000 \$98,093,000
Paid Rebates-Split AC	\$	1,454,425.00	\$	6,358,876.00	86.3%	
Paid Rebates- Central AC	\$	2,300.00	\$	27,200.00	0.4%	\$50,000,00
Paid Rebates - Washer/Dryer	5	94,097.00	\$	363,325.00	4.9%	\$198301.00 S1.48883.00
Total Expenses	\$	1,764,871.12	\$	7,364,125.17		\$1.402.400.00 \$1.402.00 \$1.404.00.00
Bank Interest (+)	\$	269.04	\$	6,059.66		
Bank Fees	Ś	425.00	Ś	5,647.32		FY15 FY17 FY18 FY19 FY20 FY21

6. DSM Rebate Application Report 2019 to 2021:





7. PUC Update:

Current GPA Dockets on PUC Agenda (September 30, 2021):

 GPA Docket 21-16, Petition to Approve the Contract with Tristar Terminals Guam, Inc. for the Lease of an Additional Storage Tank for ULSD Diesel Fuel for Piti 8 & 9 supply source.

Disposition of Previous GPA Dockets:

GPA Docket 21-17, Petition to Approve the Amendment to the Contract for Residual Fuel
 Oil No. 6 for the Baseload Power Generating Plants - Approved

8. GPA Budget:

 On August 24, 2021 the CCU approved for the first time a two year budget (FY'2022 & FY'2023) for GPA.

9. Phase III Renewable Project Update:

 GlidePath filed an appeal in the Superior Court of the OPA's decision which favored a GPA award to Engie for 40 MW of solar with full energy shifting ESS. Opposition briefs have been filed in Superior Court.

10. Renewable Energy - Integrated Resource Plan (IRP) & NEM Studies

Distribution Plan:

Study - Completed

Ongoing; L+G to advise

Impact Studies - Completed

✓ Grid Controller - Completed

UFS NEM Rate Study:

Load Flow Studies NEM Growth Impacts

Demand Response

✓ Distribution Models Verification - Completed ✓ Transformer Overloads - Completed
 ✓ Capacity Contribution - Completed

Automated Switching & Fault Circuit Indicator Comm

✓ Solar Irradiance Sensor Network Plan - Completed

Conservation Voltage Reduction

Long Range Transmission Plan Study:

✓ Summaries of Renewal Integration Study & System

Net Metering Rate - Ongoing, Final Draft in Review

Voltage imbalance - Completed System Voltage Analysis - Completed

DSM Update:

- Existing Program Rebate Levels Reset Completed
 DSM Plan Update Sept 24, 2021
- EV Plan (Final Draft in Review) Sept 24, 2021

Generation System Reliability & Adequacy:

- Power Plant and System Capacity State Models -Completed
- ✓ Analysis without ESS Completed
- ✓ Analysis with ESS Completed ✓ RPS to 50% by 2029 Plan Completed

Strategic Plan: 90% Completed

- Environmental Strategic Plan Update Modification being made, Sept 24, 2021
- ✓ IT Strategic Plan Completed
- ✓ IT Consolidation Plan Completed

Capacity Plan:

- Candidate Resources Completed
- ✓ Peak Load and Energy Forecast Completed
- ✓ Generation Hourly Load Forecast Completed
- ✓ Capacity Expansion Runs Completed
- Final Draft Report Ongoing, Sept 30, 2021

Frontier Project:

✓ Project Summary - Completed



10. Renewable Energy - Integrated Resource Plan (IRP)

Schedule Summary

2000		
VOLUME	VOLUME TITLE	STATUS/DATE
Executive Summary	Executive Study	Oct 1, 2021
Volume 1	Generation System Reliability, Adequacy, and Resiliency	Final Draft
Volume II	Generation Expansion Plan	Sept 24, 2021
Volume III	Environmental Strategic Plan	Sept 24, 2021
Volume IV	Demand Side Management Plan	Final Draft
Volume V	Medium Range Distribution Plan	TBD
Volume VI	Information/Operational Technology Plan	Final Draft
Volume VII	Strategic Plan	Oct 1, 2021
Volume VIII	Electric Vehicle Roadmap	Final Draft
Volume IX	Net Metering Plan	Final Draft
contract to	0.09 272	

October 21, 2021

November 23, 2021



CCU Work Session Presentation

 CCU Resolution for Approval

GPA GRID TRANSFORMATION SOLUTIONS TOWARD A HIGHLY RESILIENT, RELIABLE, AFFORDABLE AND HIGH RENEWABLE ENERGY PRODUCTION GRID





















11. New Power Plant Update: GPA Activities

Completed:

- ECA Amendment: Signed on March 17, 2021.
- Archaeological & Cultural Requirements:
 - ✓ Revised Research Design for pipeline and transmission line routes submitted to GHPO
 - ✓ Revised Archaeological Inventory Survey
 - ✓ Resolution on Section 106 process between Navy/SHPO/GPA
 - ✓ Cultural Survey for boring scope fuel/water/power project areas outside the plant site boundary
- Environmental Requirements:
 - ✓ Baseline noise study for Piti 41 MW diesel generator plant site.

Ongoing / Pending:

- · Archaeological & Cultural Requirements:
 - Section 106 process for cultural survey on Navy properties (bull cart trails along pipeline route and Harmon Substation)
 - Cultural Survey for construction area. (Evaluation of <u>Pedonlisong</u> Springs near San Miguel School in <u>Mongmong</u>-Toto area for non-cultural site boundaries)
 - Cultural survey and boring for proposed site in Piti for diesel generator relocation
- Water & Wastewater Requirements:
 - ✓ Water Supply and Discharge Agreement Review
 - Coordinate with GWA on Change of Law issues due to update NPDES permit affecting discharge of wastewater from cooling system
 - Follow up with KEPCO-EWP/Doosan on phosphate treatment proposal to address change in law issue.

• Other

Buffer Zone Exemption for Piti 41 MW diesel generator plant site (GPA).

Critical Path & Risk Items

Cultural Survey

(SHPO Approvals Required)

- Approx. 17 miles of pipeline requires approval for boring and construction excavation.
- Pipeline construction research design development and GHPO approval
- Section 106 process required for Navy properties

Delays on permit approvais

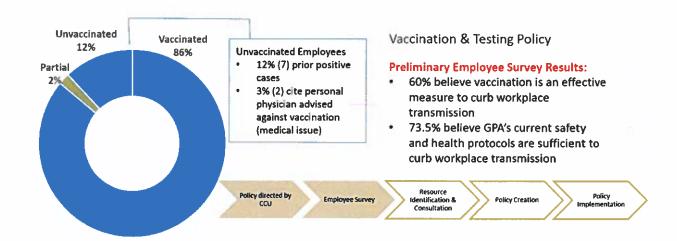
- · Construction Permits
- Air Permits
- NPDES Permit

Construction Mitigation

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



12. COVID-19 Vaccination:



13. Streetlights:

- Basically, all streetlights have been converted to LED
- Significantly reduced cost to DPW from conversion
- DPW authorized the installation of additional LED streetlights for FY22.
- DPW FY22 budget increased to about \$5.4M
- Additional streetlight materials are being procured.
- Additional lights will improve public safety for the community.

14. Emergency Rental Assistance (ERA) Program:

- As of 9/16/2021: \$695,566.96 paid toward qualified customer past-due balances.
- \$587,547.68 (16 batches) received; \$108,019.28 pending receipt (2 batches).

Five Federal Grants Awarded to GPA in FY 2021

Diesel Emissions Reduction Act (DERA) - USEPA

- \$250,000.00 awarded for Diesel Engine Replacement & Powerhouse Upgrade for the Diesel Bucket Truck Replacement Project
- Grant Writers:

 William Mafnas, Engineer II (primary writer)
 Jessica Lazatin, Engineer II (former writer)
 Victor A, Torres, Engineer II (former writer)
 John J. Cruz, Jr., P.E., AGMET

D Technical Assistance Program (TAP) - DOI/OIA

- \$208,750.00 awarded for Guam's Critical Energy Infrastructure & GPA's Energy **Engineering Training & Certification Program**
- Grant Writers:
 - Jessica Lazatin, Engineer II (primary writer) John J. Cruz, Jr., P.E., AGMET Sandra Perez, HR Manager

Energizing Insular Communities (EIC) program - DOI/OIA

- \$1,446,464.00 awarded for UOG's LED lighting upgrades, HVAC controls and solar PV generation & Tamuning Elementary school's LED lighting upgrades.

 Grant Writers:

 Victor A. Torres, Engineer II (primary writer)
 Jennifer Sablan, P.E., SPORD Manager
 John J. Cruz, Jr., P.E., AGMET





\$1,905,214.00 Total Federal Grants Awarded to GPA



2021 Diesel Emissions Reduction Act (DERA) - #EPA-OAR-OTAQ-21-04

- \$250,000 in federal assistance to support the Diesel Engine Replacement and Powerhouse Upgrade for the Diesel Bucket Truck Vehicle Replacement project received full United States Environmental Protection Agency (EPA) funding.
- GPA is taking the lead for Guam with completing a comprehensive assessment of the impact of electric vehicles upon Guam's power grid, to ensure that GPA meets Guam's future energy needs, including providing energy at the lowest possible cost(s) to directly benefit all our customers. We are advancing to upgrade our current vehicle fleet, from one that mostly runs on gasoline and diesel fuel, to an all-electric vehicle fleet. As the nation faces one of the most important air quality, challenges of reducing emissions, GPA is committed to doing its part to comply with the Diesel Emission Reduction Act

Department of Interior (DOI) under the Office of Insular Affairs (OIA)

Technical Assistance Program (TAP)

- \$159,200 awarded to GPA for the Comprehensive Security Plan for Guam's Critical Energy Infrastructure. The development of the plan will help strengthen GPA's physical and cybersecurity posture to meet and exceed industry standards.
- \$49,550 awarded to GPA for the Energy Engineering Training & Certification Program

Energizing Insular Communities (EIC) Program

- \$1,291,938 for energy upgrades at the University of Guam, including LED lighting upgrades, energy-efficient HVAC controls, and solar PV generation (BEST Schools Program).
- \$154,526 towards LED lighting upgrades at Tamuning Elementary School (BEST Schools Program).

5.2 <u>Financials</u>

August 2021 Monthly Financial Highlights

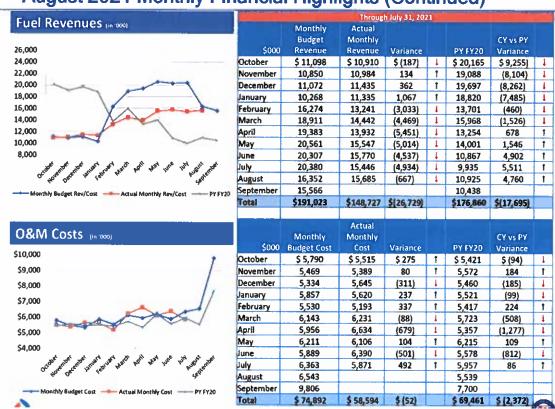


(in '000)	Monthly Budget Revenues	Actual Monthly Revenues	Variance		PY FY20	CY vs PY Variance	
October	\$ 13,064	\$ 13,053	\$ (11)	L	\$ 13,440	\$ (386)	ı
November	12,857	12,869	12	1	13,358	(489)	1
December	13,106	13,254	148	T	13,216	38	1
January	12,174	12,712	538	T	12,888	(176)	1
February	11,078	11,954	876	1	12,357	(403)	1
March	12,780	13,357	577	T	13,039	318	1
April	13,085	13,444	359	1	12,385	1,059	t
May	13,712	13,574	(139)	1	13,550	24	Ŧ
June	13,682	13,121	(561)	1	13,176	(55)	Ł
July	13,708	13,534	(174)	4	13,514	20	Ť
August	13,180	14,729	1,550	1	13,220	1,510	Ť
September	12,574				12,567		
Total	\$ 155,000	\$ 145,602	\$3,176		\$ 156,709	\$ 1,460	



in with)	Monthly Budget Sales	Actual Monthly Sales	Variance		PY FY20	CY vs PY Variance	
October	127,852	127,515	(337)	1	131,953	(4,438)	1
November	125,004	128,440	3,437	t	129,421	(981)	1
December	127,563	128,053	489	1	128,958	(905)	1
January	118,299	129,208	10,909	1	126,130	3,078	1
February	107,268	115,199	7,930	T	115,346	(147)	1
March	124,649	129,958	5,309	1	125,185	4,773	1
April	127,762	125,268	(2,494)	1	120,688	4,580	1
May	135,527	137,960	2,433	1	130,531	7,430	1
June	133,849	137,774	3,925	1	130,987	6,787	1
July	134,332	136,012	1,680	1	133,116	2,896	T
August	128,752	130,812	2,060	1	129,337	1,475	1
September	122,569		17-17	11/1	121,927		
Total	1,513,426	1,426,199	35,342		1,523,579	24,547	-

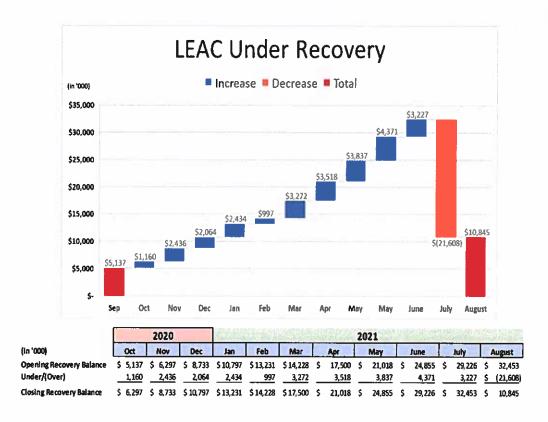
August 2021 Monthly Financial Highlights (Continued)



August 2021 Monthly Financial Highlights (Continued)

	Th											
	Through July 31, 2021											
	1Q2019	2Q2019	3Q2019	4Q2019	1Q2020	2Q2020	3Q2020	4Q2020	1Q2021	2Q2021	3Q2021	4Q2021
Residential	43,920	44,144	44,329	44,479	44,203	44,509	45,069	44,191	44,503	44,575	45,247	45,317
Commercial	5,273	5,291	5,303	5,289	5,154	5,352	5,309	5,366	5,301	5,307	5,330	5,338
Government	1,090	1,074	1,075	1,070	1,072	1,059	1,061	1,081	1,063	1,060	1,049	1,058
Streetlights	1,151	1,152	1,138	1,138	1,135	1,128	1,139	1,132	1,133	1,132	1,132	1,134
Navy	1	1	1	1	1	1	1	1	1	1	1	1
Total	51,435	51,662	51,846	51,977	51,565	52,049	52,579	51,771	52,001	52,075	52,759	52,848

Debt service coverage (DSC) calculation-indenture	2018	2019	2020	2021
Senior lien coverage	2.53	1.78	1.42	1.69
Debt service coverage (DSC) calculation-IPP as O&M				
Senior lien coverage	1.65	1.46	1.23	1.63



5.3 Resolution 2021-25 Piti T-7 Power Transformer Purchase

If approved, this project will provide the replacement of the Piti Substation T-7 Power Transformer that failed in January 3, 2021. Transformer placed in service since the 1960s and is over 50 years old.

The new power transformer costs \$1,034,968.00 and will be delivered 8 months from receipt of purchase order. It will be funded with revenue funds.

Niagara Power Transformer Corp., Benson Guam Enterprises, Inc., R&D Marketing and EMB submitted bids for GPA's consideration under Bid Invitation No. GPA-042-21. Benson Guam Enterprises, Inc. was determined to be the lowest responsive bidder.

The GM said that his approving authority is \$1M and he is asking the CCU to approve this purchase. The PUC's threshold for approval is \$1.5M so this procurement will not need to go before the PUC. He will move forward with the procurement with the CCU approval only. He mentioned that it would take 32 weeks in lead time.

Comm. Santos motioned to approve Resolution 2021-25, second by Comm. Martinez.

In discussion Comm. Limitaco said that Benson Guam was not necessarily the lowest responsive bidder there were two other bids lower than them. He asked the GM to explain. The GM said the 2 other bidders did not meet the qualification relative to specifications. One bidder did not include the technical training portion of the bid.

On the motion there were 4 ayes, 1 absent and the motion passed.

The GM reported that DPW lifted the stop order on the KEPCO project. Preliminary discussion said March-April 2022 will be new completion date. The power plant will only have 4-month impact on the next LEAC – Feb-July. The GM said this will help with the LEAC recovery – the KEPCO 8.55 cents vs. 17.2 cents.

Comm. Limtiaco asked how many days did the stop work order cause KEPCO, the GM said 37 days. Comm. Limtiaco pointed out that the delay was only a month and KEPCO's new commissioning deadline is extended from December 2021 to March 2022 – 3 months. The GM explained that KEPCO lost their financing for their short term construction. They met with the GM to manage expectations and the GM said that he would come back to the Commission with an update.

There was discussion on the work that GPA needs to do in advance relative to transmission lines and the GM said that this project is 90% completed the poles and lines are up already.

6. OTHER DISCUSSION

6.1 CCU Rules Update - This matter was not discussed.

6.2 * Public Notices

Legal Counsel Rojas mentioned that the Commission wanted to ensure that this board remained compliant with open government notices. This came about due to recent passage of P.L. 36-34 in July – it created 3 amendments – 1 – live streaming. Relative to this matter she found that the CCU has been in compliant even before the law was passed. She reported that the CCU's website is user friendly and the live-streaming of Commission meetings which the website does provide. This board is compliant and is in the meeting notices and on the website. 2 – the legislature voided actions that are non-compliant. The legislation requires the agenda contains specific detail to put the public on notice. She said our agendas are very clear as to actions to be taken. The law requires that non action items like General Manager Report, Financial Report – these are fine the way it is written.

Comm. Limitaco recommended that the GM Report be more detailed to speak of the various divisions i.e. Operations, Financials, Engineering etc.

Comm. Santos asked about "paid for by government funds" and are we in compliance. Counsel Rojas said this is a good question and they will research this further and report back to the Commission.

7. ANNOUNCEMENTS

7.1 Next CCU Meetings

The Chairman announced that the next CCU meeting would be a work session for GWA on October 19; a work session for GPA on Oct. 21 and the regular monthly CCU meeting on October 26.

8. ADJOURNMENT

There being no other business to bring before the Commission the meeting adjourned at 7:06 p.m.

\\s\\ Bls

Attested

JOSEPH T. DUENAS, Chairman

MICHAEL T. LIMTIACO, Secretary