



**CONSOLIDATED COMMISSION ON UTILITIES**

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

**GUAM POWER AUTHORITY WORK SESSION**

*CCU Conference Room  
4:30 p.m., Thursday, August 23, 2018*

**AGENDA**

**1. ISSUES FOR DECISION**

- 1.1 [Residual Fuel Oil #6 Contract / Resolution 2018-16](#)
- 1.2 [NET Metering Credit Recommendation / Resolution 2018-17](#)
- 1.3 [Organizational Realignment / Resolution 2018-18](#)
- 1.4 [Unarmed Security Guard Services / Resolution 2018-19](#)

**2. GM REPORT**

- 2.1 [GM Summary](#)

**3. ISSUES FOR DISCUSSION**

**4. DIVISION REPORTS**

- 4.1 [Administration: Customer Service, HR, Procurement, Safety](#)
- 4.2 [Engineering & Technical: Engineering, IT, Planning & Regulatory, SPORD](#)
- 4.3 [Finance Reports](#)
- 4.4 [Operations: Facilities, Generation, PSCC, T&D, Transportation](#)
- 4.5 [Public Information Office](#)

**5. ANNOUNCEMENTS**

- 5.1 [Next Meeting: CCU Meeting – August 28](#)

**6. ADJOURNMENT**



**GUAM POWER AUTHORITY**  
ATURIDÂT ILEKTRESEDÂT GUAHAN  
P.O.BOX 2977 • AGANA, GUAM U.S.A. 96932-2977

## Issues for Decision

### **Resolution No. 2018-16:**

**Relative to:** Authorizing the Management of Guam Power Authority to Award the Contract for the Supply of Residual Fuel Oil No.6 to **Mobil Oil Guam**.

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

The Guam Power Authority's current contract for Supply of Residual Fuel Oil No.6 for the Baseload Plants is expiring in November 30, 2018. The new fuel supply contract is necessary to provide uninterrupted supply of fuel for the Baseload plants.

#### **Where is the location?**

Residual Fuel Oil No.6 will be supplied to the baseload plants

1. Cabras 1&2
2. MEC 8&9

#### **How much will it cost?**

The 2-year contract is estimated to cost approximately \$230M requiring prior approval from the PUC.

#### **When will it be completed?**

The contract is planned for an initial period of two (2) years to commence on or about December 01, 2018 and to expire on November 30, 2020, with the option to extend for three (3) additional one-year terms.

#### **What is its funding source?**

Fuel revenue funds

#### **The RFP/BID responses:**

Five bidders responded to the solicitation under IFB GPA-009-18. **Mobil Oil Guam** was determined to be the lowest responsive and responsible bidder.



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

**RESOLUTION NO. 2018-16**

**AUTHORIZING THE MANAGEMENT OF THE GUAM POWER AUTHORITY TO ENTER INTO A TWO YEAR  
CONTRACT FOR THE SUPPLY OF RESIDUAL FUEL OIL NO.6**

**WHEREAS**, GPA's current contract extension with Hyundai Corporation for the supply of Residual Fuel Oil No.6 (RFO No. 6) is expiring in November 30, 2018; and

**WHEREAS**, in anticipation of this expiration date, GPA was authorized by the CCU under CCU Resolution No. 2017-40 and approved by the PUC under Docket 18-01 to issue bids for the procurement of a new residual fuel oil supply contract; and

**WHEREAS**, the Procurement Officer has provided adequate public announcement for the need for such fuel supply services through Invitation for Re-Bid No. GPA-009-18 describing the type of services required and specifying the type of information and data required of each offeror; and

**WHEREAS**, Hyundai Corporation, Mobil Oil Guam, Hanwa Corporation, Freepoint Commodities (LLC), and Vitol Inc., submitted bids for GPA consideration; and

**WHEREAS**, the results and evaluation of the bids are provided in Exhibits A, B, and C; and

**WHEREAS**, Mobil Oil Guam was determined to be the lowest, most responsive bidder meeting the requirements of the bid solicitation; and

**WHEREAS**, the average Fixed Premium Fee for Mobil Oil Guam of \$54.700/MT (8.614/bbl) is approximately 3% higher than the current contract average Fixed Premium Fee of \$53.090/MT (\$8.361/bbl) as shown in **Exhibit B**. The estimated Fixed Premium Fee cost based on estimated supply quantities has a value of approximately \$15,728,580.00 for the first year and \$18,480,300.00 for the second year for a total of \$34,208,880.00 for the two-year contract base period. The estimated cost increase in Fixed Premium for the 2-year period is approximately \$1,006,879.00; and

31           **WHEREAS**, the Residual Fuel Oil No.6 Supply Contract with Mobil Oil Guam shall be for a period of two  
32 years and is anticipated to commence in December 1, 2018 and expire in November 30, 2020 with three one-  
33 year extension options renewable annually upon mutual agreement of both parties; and  
34

35           **WHEREAS**, the award of the contract to Mobil Oil Guam based on estimated supply quantities has a  
36 value of approximately \$113,345,841.00 for the first year and \$116,097,561.00 for the second year for a total  
37 of \$229,443,402.00 for the two-year contract period (**Exhibit C**).  
38

39           **NOW THEREFORE, BE IT RESOLVED**, by the Consolidated Commission on Utilities, subject to the review  
40 and approval of the Guam Public Utilities Commission, as follows:  
41

- 42           1. The General Manager of the Guam Power Authority is hereby authorized to enter into a two (2)  
43 year contract with Mobil Oil Guam for the supply of Residual Fuel Oil No.6.  
44
- 45           2. The General Manager of the Guam Power Authority is hereby authorized an increase in obligating  
46 authority to the annual value of the contract and execute such agreements and documents  
47 necessary for a contract with **Mobil Oil Guam**.  
48

49           **RESOLVED**, that the Chairman of the Commission certifies and the Secretary of the  
50 Commission attests the adoption of this Resolution.  
51

52           **DULY and REGULARLY ADOPTED this 28<sup>th</sup> day of August 2018.**  
53  
54  
55  
56

**Certified by:**

**Attested by:**

---

**JOSEPH T. DUENAS**  
**CHAIRMAN**

---

**J. GEORGE BAMBA**  
**SECRETARY**



**SECRETARY'S CERTIFICATE**

I, **J. George Bamba**, Board Secretary of the Consolidated Commission on Utilities 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 Consolidated Commission on Utilities, 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: \_\_\_\_\_

# GPA Work Session - August 23, 2018 - ISSUES FOR DECISION

## EXHIBIT A

Basis: API 12.1 bbl/MT 6.396 (Reference: Petroleum Table 13)

LSFO 600,000 6.396 mbl/vr 93.809  
HSFO 1,400,000 6.396 218.887  
Total RFO 2,000,000 312.695

## MS IFB GPA-009-18: RFO Supply Contract STEP 2- BID PRICE ANALYSIS

2 year Base Contract		BASE CONTRACT-1st of 2 YEARS					BASE CONTRACT-2nd of 2 YEARS					TOTAL-2-YEAR BASE CONTRACT PERIOD				
CURRENT Hyundai Corp.		Bidder #1 Hyundai Corp.	Bidder #2 Mobil Oil Guam	Bidder #3 Hanwa	Bidder #4 FreePoint	Bidder #5 Vitol, Inc.	Bidder #1 Hyundai Corp.	Bidder #2 Mobil Oil Guam	Bidder #3 Hanwa	Bidder #4 FreePoint	Bidder #5 Vitol, Inc.	Bidder #1 Hyundai Corp.	Bidder #2 Mobil Oil Guam	Bidder #3 Hanwa	Bidder #4 FreePoint	Bidder #5 Vitol, Inc.
1. LSFO, 1.19% Sulfur max. Quantity (mt/yr)		93,809	93,809	93,809	93,809	93,809	93,809	93,809	93,809	93,809	93,809	187,617	187,617	187,617	187,617	187,617
A. Bid Price (\$/mt)		\$613.180	\$387.680	\$339.380	\$411.980	\$478.880	\$613.180	\$400.680	\$497.040	\$411.980	\$478.880	\$613.180	\$394.180	\$448.215	\$411.980	\$478.880
ESTIMATED CONTRACT COST / YR		\$77,110,694.18	\$57,521,575.98	\$36,367,729.83	\$37,466,228.89	\$38,647,279.55	\$57,521,575.98	\$37,587,242.03	\$46,626,841.65	\$38,647,279.55	\$44,923,076.92	\$115,043,151.97	\$73,954,971.86	\$84,092,870.54	\$77,294,559.10	\$89,846,153.85
B. Bid Reference Price (\$/mt)		\$742.31	\$312.180	\$312.180	\$312.180	\$312.180	\$312.180	\$312.180	\$312.180	\$312.180	\$312.180	\$312.180	\$312.180	\$312.180	\$312.180	\$312.180
C. Premium Fee (\$/mt) : A-B		\$79.690	\$301.000	\$75.500	\$87.210	\$99.800	\$301.000	\$88.500	\$184.860	\$99.800	\$166.700	\$301.000	\$82.000	\$136.035	\$99.800	\$166.700
Variance with Current Premium Fees			(\$221.310)	\$4.190	(\$7.520)	(\$20.110)	(\$221.310)	(\$8.810)	(\$165.110)	(\$20.110)	(\$87.010)	(\$221.310)	(\$2.310)	(\$36.345)	(\$20.110)	(\$87.010)
Premium Fee (\$/mt)		\$12.550	\$47.402	\$11.880	\$13.734	\$15.717	\$47.402	\$13.937	\$28.112	\$15.717	\$26.252	\$47.402	\$12.913	\$21.423	\$15.717	\$26.252
Variance with Current Premium Fees			(\$34.852)	\$0.880	(\$1.144)	(\$3.167)	(\$34.852)	(\$1.387)	(\$16.962)	(\$3.167)	(\$3.702)	(\$34.852)				
% of Reference Price		26%	96%	24%	28%	32%	96%	28%	59%	32%	53%	96%	28%	59%	32%	53%
Premium Fee Cost (\$/yr)		\$7,475.610	\$28,236.398	\$7,082.552	\$8,181.051	\$9,362.101	\$28,236.398	\$8,302.064	\$17,341.463	\$9,362.101	\$15,637.899	\$56,472.795	\$15,384.615	\$25,522.514	\$18,724.203	\$31,275.797
(Premium fee in \$/MT x Quantity in MT/yr)																
Savings (Additional Expense)			(\$20,760,788)	\$393,058	(\$705.441)	(\$1,886.492)	(\$20,760,788)	(\$826.454)	(\$9,865.854)	(\$1,886.492)	(\$8,162,289)	(\$41,521.576)	(\$433.396)	(\$10,571.295)	(\$3,772.983)	(\$16,324.578)
(Current vs. Bidder's Annual Premium Fee)			Expense	Savings	Expense	Expense	Expense	Expense	Expense	Expense	Expense	Expense	Expense	Expense	Expense	Expense
2. HSFO, 2.80% Sulfur max. Quantity (mt/yr)		218,887	218,887	218,887	218,887	218,887	218,887	218,887	218,887	218,887	218,887	437,774	437,774	437,774	437,774	437,774
A. Bid Price (\$/mt)		\$784.000	\$413.180	\$351.680	\$399.640	\$379.960	\$413.180	\$352.680	\$458.540	\$379.960	\$424.880	\$413.180	\$355.180	\$424.590	\$379.960	\$424.880
ESTIMATED CONTRACT COST / YR		\$171,607,254.53	\$90,439,649.78	\$76,978,111.32	\$85,505,941.21	\$83,168,230.14	\$90,439,649.78	\$78,510,318.95	\$100,368,355.22	\$83,168,230.14	\$93,000,625.39	\$180,879,299.56	\$155,488,430.27	\$185,874,296.44	\$166,336,480.29	\$186,001,250.78
B. Bid Reference Price (\$/mt)		\$742.310	\$312.180	\$312.180	\$312.180	\$312.180	\$312.180	\$312.180	\$312.180	\$312.180	\$312.180	\$312.180	\$312.180	\$312.180	\$312.180	\$312.180
C. Premium Fee (\$/mt) : A-B		\$41.690	\$101.000	\$39.500	\$78.460	\$67.780	\$101.000	\$48.500	\$146.360	\$67.780	\$112.700	\$101.000	\$43.000	\$112.410	\$67.780	\$112.700
Variance with Current Premium Fees			(\$59.310)	\$2.190	(\$36.770)	(\$26.080)	(\$59.310)	(\$4.810)	(\$104.670)	(\$26.080)	(\$71.010)	(\$59.310)	(\$1.310)	(\$70.720)	(\$26.080)	(\$71.010)
Premium Fee (\$/mt)		\$6.565	\$15.906	\$6.220	\$12.356	\$10.674	\$15.906	\$7.323	\$23.049	\$10.674	\$17.748	\$15.906	\$6.772	\$17.702	\$10.674	\$17.748
Variance with Current Premium Fees			\$9.340	\$0.345	\$5.791	\$11.183	\$9.340	\$0.757	\$16.483	\$4.109	\$11.183	\$9.340				
% of Reference Price		13%	32%	13%	25%	22%	32%	15%	47%	22%	36%	32%	14%	36%	22%	36%
Premium Fee Cost (\$/yr)		\$9,125.391	\$22,107.567	\$8,646.029	\$17,173.859	\$14,836.148	\$22,107.567	\$10,178.236	\$32,036.273	\$14,836.148	\$24,668.543	\$30,753.596	\$25,819.887	\$32,010.006	\$39,504.690	\$24,668.543
(Premium fee in \$/MT x Quantity in MT/yr)																
Savings (Additional Expense)			(\$12,982.176)	\$479.362	(\$8,048.468)	(\$5,710.757)	(\$12,982.176)	(\$1,852.846)	(\$22,910.882)	(\$5,710.757)	(\$15,543.152)	(\$25,964.353)	(\$573.483)	(\$30,959.350)	(\$11,421.513)	(\$31,086.304)
(Current vs. Bidder's Annual Premium Fee)			Expense	Savings	Expense	Expense	Expense	Expense	Expense	Expense	Expense	Expense	Expense	Expense	Expense	Expense
3. Total RFO (LSFO + HSFO) Quantity (mt/yr)		312,695	312,695	312,695	312,695	312,695	312,695	312,695	312,695	312,695	312,695	625,391	625,391	625,391	625,391	625,391
ESTIMATED CONTRACT COST (\$/YR)		\$248,717,948.72	\$147,961,225.77	\$113,345,841.15	\$122,972,170.11	\$121,815,509.69	\$147,961,225.77	\$116,097,560.98	\$146,994,996.87	\$121,815,509.69	\$137,923,702.31	\$295,922,451.53	\$220,443,402.13	\$269,967,166.98	\$243,631,019.39	\$275,847,404.63
A. LEVELIZED UNIT COST (\$/mt)		\$795.400	\$473.180	\$362.480	\$393.265	\$389.566	\$473.180	\$371.280	\$470.090	\$389.566	\$441.080	\$473.180	\$366.880	\$431.678	\$389.566	\$441.080
B. Bid Reference Price (\$/mt)		\$742.310	\$312.180	\$312.180	\$312.180	\$312.180	\$312.180	\$312.180	\$312.180	\$312.180	\$312.180	\$312.180	\$312.180	\$312.180	\$312.180	\$312.180
C. Average Premium Fee (\$/mt)		\$53.090	\$161.000	\$59.500	\$81.085	\$77.386	\$161.000	\$59.100	\$157.910	\$77.386	\$128.900	\$161.000	\$54.700	\$119.498	\$77.386	\$128.900
Variance with Current Premium Fees			(\$107.910)	\$2.790	(\$27.965)	(\$24.296)	(\$107.910)	(\$6.010)	(\$104.820)	(\$24.296)	(\$75.810)	(\$107.910)	(\$1.010)	(\$86.408)	(\$24.296)	(\$75.810)
Premium Fee (\$/mt)		\$8.361	\$25.354	\$7.921	\$12.789	\$12.187	\$25.354	\$9.307	\$24.888	\$12.187	\$20.299	\$25.354	\$8.614	\$18.818	\$12.187	\$20.299
Premium Fee Cost (\$/yr)		\$16,601,001	\$50,343,965	\$15,728,580	\$25,354,909	\$24,198,249	\$50,343,965	\$18,480,300	\$49,377,736	\$24,198,249	\$40,306,442	\$100,687,929.96	\$34,208,880.55	\$74,732,645.40	\$48,396,497.81	\$80,612,883.05
Savings (Additional Expense)			(\$33,742,964)	\$872,420	(\$8,753,909)	(\$7,597,248)	(\$33,742,964)	(\$1,879,300)	(\$32,776,735)	(\$7,597,248)	(\$23,705,441)	(\$67,485,928.71)	(\$1,006,879.30)	(\$41,530,644.15)	(\$15,194,496.95)	(\$47,410,881.80)
(Current vs. Bidder's Annual Premium Fee)			Expense	Savings	Expense	Expense	Expense	Expense	Expense	Expense	Expense	Expense	Expense	Expense	Expense	Expense

Ranking (1 as the Lowest Bidder)

5

1

4

2

3

**EXHIBIT B****MS IFB GPA-009-18: RFO Supply Contract****PREMIUM FEE ANALYSIS**

Basis: API bbl/MT (Reference: Petroleum Table 13)  
12.1 6.396

	<u>bbls/yr</u>	<u>bbl/MT</u>	<u>mt/yr</u>
LSFO	600,000	6.396	93,809
HSFO	<u>1,400,000</u>	6.396	<u>218,887</u>
Total RFO	2,000,000		312,695

RFO Supply contract	CURRENT CONTRACT Hyundai Corp.	MS IFB GPA-009-18: RFO Supply Contract <b>LOWEST BIDDER (MOBIL OIL GUAM)</b>		
		2-YEAR BASE PERIOD		2-Year TOTAL
		FIRST YEAR	SECOND YEAR	
<b>1. LSFO, 1.19% Sulfur max.</b> Quantity (mt/yr) <b>Premium Fee (\$/mt)</b>  <b>Variance with Current Premium Fees</b>	93,809  <b>\$79.690</b>	93,809  <b>\$75.500</b>	93,809  <b>\$88.500</b>	187,617  <b>\$82.000</b> (AVG)
		<b>\$4.190</b> 5%	<b>(\$8.810)</b> -11%	<b>(\$2.310)</b> -3%
<b>Premium Fee Cost (\$/yr)</b>	<b>\$7,475,610</b>	<b>\$7,082,552</b>	<b>\$8,302,064</b>	<b>\$15,384,615</b>
<b>Savings (Additional Expense)</b> (Current vs. Bidder's Annual Premium Fee Cost)		<b>\$393,058</b> Savings	<b>(\$826,454)</b> Expense	<b>(\$433,396)</b> Expense
<b>2. HSFO, 2.00% Sulfur max.</b> Quantity (mt/yr) <b>Premium Fee (\$/mt)</b> (Bid Price less reference Price) <b>Variance with Current Premium Fees</b>	218,887  <b>\$41.690</b>	218,887  <b>\$39.500</b>	218,887  <b>\$46.500</b>	437,774  <b>\$43.000</b> (AVG)
		<b>\$2.190</b> 5%	<b>(\$4.810)</b> -12%	<b>(\$1.310)</b> -3%
<b>Premium Fee Cost (\$/yr)</b>	<b>\$9,125,391</b>	<b>\$8,646,029</b>	<b>\$10,178,236</b>	<b>\$18,824,265</b>
<b>Savings (Additional Expense)</b> (Current vs. Bidder's Annual Premium Fee Cost)		<b>\$479,362</b> Savings	<b>(\$1,052,846)</b> Expense	<b>(\$573,483)</b> Expense
<b>3. Total RFO (LSFO + HSFO)</b> Quantity (mt/yr) <b>Avg Premium Fee (\$/mt)</b>  <b>Variance with Current Premium Fees</b>	312,695  <b>\$53.090</b>	312,695  <b>\$50.300</b>	312,695  <b>\$59.100</b>	625,391  <b>\$54.700</b> (AVG)
		<b>\$2.790</b> 5%	<b>(\$6.010)</b> -11%	<b>(\$1.610)</b> -3%
<b>Premium Fee Cost (\$/yr)</b>	<b>\$16,601,001</b>	<b>\$15,728,580</b>	<b>\$18,480,300</b>	<b>\$34,208,880.55</b>
<b>Savings (Additional Expense)</b> (Current vs. Bidder's Annual Premium Fee Cost)		<b>\$872,420</b> Savings	<b>(\$1,879,300)</b> Expense	<b>(\$1,006,879.30)</b> Expense

**EXHIBIT C****MS IFB GPA-009-18: RFO Supply Contract****ESTIMATED CONTRACT COST**

Basis:  $\frac{\text{bbl}}{\text{MT}}$  (Reference: Petroleum Table 13)  
6.396

$\frac{\text{bbls}}{\text{yr}}$	$\frac{\text{bbl}}{\text{MT}}$	$\frac{\text{mt}}{\text{yr}}$
600,000	6.396	93,809
<u>1,400,000</u>	6.396	<u>218,887</u>
2,000,000		312,695

RFO Supply contract	MS IFB GPA-009-18: RFO Supply Contract <b>LOWEST BIDDER (MOBIL OIL GUAM)</b>		
	2-YEAR BASE PERIOD		2-Year TOTAL
	FIRST YEAR	SECOND YEAR	
<b>1. LSFO, 1.19% Sulfur max.</b>			
Quantity (mt/yr)	93,809	93,809	187,617
<b>Bid Price (\$/mt)</b>	<b>\$387.680</b>	<b>\$400.680</b>	<b>\$394.180</b>
			(AVG)
<b>ESTIMATED CONTRACT COST / YR</b>	<b>\$36,367,729.83</b>	<b>\$37,587,242.03</b>	<b>\$73,954,971.86</b>
<b>2. HSFO, 2.00% Sulfur max.</b>			
Quantity (mt/yr)	218,887	218,887	437,774
<b>Bid Price (\$/mt)</b>	<b>\$351.680</b>	<b>\$358.680</b>	<b>\$355.180</b>
			(AVG)
<b>ESTIMATED CONTRACT COST / YR</b>	<b>\$76,978,111.32</b>	<b>\$78,510,318.95</b>	<b>\$155,488,430.27</b>
<b>3. Total RFO (LSFO + HSFO)</b>			
Quantity (mt/yr)	312,695	312,695	625,391
<b>ESTIMATED CONTRACT COST (\$/YR)</b>	<b>\$113,345,841.15</b>	<b>\$116,097,560.98</b>	<b>\$229,443,402.13</b>
<b>LEVELIZED UNIT COST (\$/mt)</b>	<b>\$362.480</b>	<b>\$371.280</b>	<b>\$366.880</b>
			(AVG)

# GPA Work Session - August 23, 2018 - ISSUES FOR DECISION

## Exhibit C- Estimated Contract Cost

MS IFB GPA-009-18: RFO Supply Contract

### STEP 2- BID PRICE ANALYSIS

Basis:	API 12.1	bbl/MT 6.396	(Reference: Petroleum Table 13)
LSFO	bbls/yr 600,000	bbl/MT 6.396	mtyr 93,809
HSFO	1,400,000	6.396	218,887
Total RFO	2,000,000		312,695

2 year Base Contract	CURRENT Hyundai Corp.	BASE CONTRACT- 1st of 2 YEARS					BASE CONTRACT- 2nd of 2 YEARS					TOTAL- 2-YEAR BASE CONTRACT PERIOD				
		Bidder #1 Hyundai Corp.	Bidder #2 Mobil Oil Guam	Bidder #3 Hanwa	Bidder #4 FreePoint	Bidder #5 Vitol, Inc.	Bidder #1 Hyundai Corp.	Bidder #2 Mobil Oil Guam	Bidder #3 Hanwa	Bidder #4 FreePoint	Bidder #5 Vitol, Inc.	Bidder #1 Hyundai Corp.	Bidder #2 Mobil Oil Guam	Bidder #3 Hanwa	Bidder #4 FreePoint	Bidder #5 Vitol, Inc.
1. LSFO, 1.19% Sulfur max. Quantity (mtyr)	93,809	93,809	93,809	93,809	93,809	93,809	93,809	93,809	93,809	93,809	93,809	187,617	187,617	187,617	187,617	187,617
Bid Price (\$/mt)	\$822.000	\$613.180	\$387.680	\$399.390	\$411.980	\$478.880	\$613.180	\$400.680	\$497.040	\$411.980	\$478.880	\$613.180	\$394.180	\$448.215	\$411.980	\$478.880
ESTIMATED CONTRACT COST / YR	\$77,110,694.18	\$57,521,575.98	\$36,367,729.83	\$37,466,228.89	\$38,647,279.55	\$44,923,076.92	\$57,521,575.98	\$37,587,242.03	\$46,626,641.65	\$38,647,279.55	\$44,923,076.92	\$115,043,151.97	\$73,954,971.86	\$84,092,870.54	\$77,294,559.10	\$89,846,153.85
2. HSFO, 2.00% Sulfur max. Quantity (mtyr)	218,887	218,887	218,887	218,887	218,887	218,887	218,887	218,887	218,887	218,887	218,887	437,774	437,774	437,774	437,774	437,774
Bid Price (\$/mt)	\$784.000	\$413.180	\$351.680	\$390.640	\$379.960	\$424.880	\$413.180	\$358.680	\$458.540	\$379.960	\$424.880	\$413.180	\$355.180	\$424.590	\$379.960	\$424.880
ESTIMATED CONTRACT COST / YR	\$171,807,254.53	\$90,439,649.78	\$76,978,111.32	\$85,505,941.21	\$83,168,230.14	\$93,000,625.39	\$90,439,649.78	\$78,510,318.95	\$100,368,355.22	\$83,168,230.14	\$93,000,625.39	\$180,879,299.56	\$155,486,430.27	\$185,874,296.44	\$166,336,460.29	\$186,001,250.78
3. Total RFO Quantity (mtyr)	312,695	312,695	312,695	312,695	312,695	312,695	312,695	312,695	312,695	312,695	312,695	625,391	625,391	625,391	625,391	625,391
ESTIMATED CONTRACT COST (\$/YR)	\$248,717,948.72	\$147,961,225.77	\$113,345,841.15	\$122,972,170.11	\$121,815,509.69	\$137,923,702.31	\$147,961,225.77	\$116,097,560.98	\$146,994,996.87	\$121,815,509.69	\$137,923,702.31	\$295,922,451.53	\$229,443,402.13	\$269,967,166.98	\$243,631,019.39	\$275,847,404.63
Ranking (1 as the Lowest Bidder)																
												5	1	4	2	3

## EXHIBIT D- RFO CONTRACT HISTORY

### RESIDUAL FUEL OIL NO. 6 (RFO)

CONTRACT NO.	CONTRACTOR	CONTRACT PERIOD	REMARKS	PREMIUM FEE COST *			
				HSFO		LSFO	
				\$/bbl	\$/MT	\$/bbl	\$/MT
N/A	GORCO	1981 - 1986		N/A		**	
N/A	PETROMAR	1986 - 1991		\$2.230	\$14.718	**	
N/A	PEDCO	1986 - 1991		\$3.570	\$23.562	**	
N/A	PEDCO	1991 - 1994		\$3.070	\$20.262	**	
N/A	VITOL (Singapore)	1995 - 1996		\$2.646	\$17.464	\$3.570	\$23.562
N/A	Daxin (Singapore)	1996 - 1998		\$2.230	\$14.718	\$3.150	\$20.790
GPA-105-98	BP (Singapore)	AUG 01, 1998 - JUL 31, 2001	AUG 01, 2001 - JUL 31, 2003	\$1.970	\$13.002	\$2.990	\$19.734
GPA-007-03	BP (Singapore)	AUG 01, 2003 - JUL 31, 2006	AUG 01, 2006 - JAN 31, 2007	\$2.432	\$16.051	\$3.946	\$26.044
GPA-028-06	BP (Singapore)	Feb 01, 2007- Jan 31, 2010	2 Yrs Extension not exercised	\$5.303	\$35.000	\$8.788	\$58.001
GPA-001-10	Petrobras (Singapore)	3 Yrs (Mar 01, 2010- Feb 28, 2013)	2 Yrs Renewable annually	\$4.499	\$29.828	\$6.501	\$42.452
GPA-001-10	Petrobras (Singapore)	DEC 01, 2012 - DEC 31, 2014	6 Months Extension	\$14.211	\$92.800	\$18.040	\$117.800
GPA-068-12	Hyundai Corporation	Sep 01, 2013-Aug31, 2015	2 Years base period	\$6.691	\$43.690	\$12.816	\$83.690
GPA-068-12	Hyundai Corporation	Sep 01, 2015-Nov 30, 2018	3 Years Extension Option	\$6.555	\$41.690	\$12.530	\$79.690
GPA-009-18	Mobil Oil Guam	Dec 01, 2018 - NOV 30, 2020	2 Years base period	\$6.772	\$43.000	\$12.913	\$82.000

\* Per Contract Premium Fee Schedule (In addition to direct fuel cost based on RFO MOPS average)

\*\* LSFO supplied by the USN/PWC under Customer Service Agreement.

# ISSUE FOR DECISION

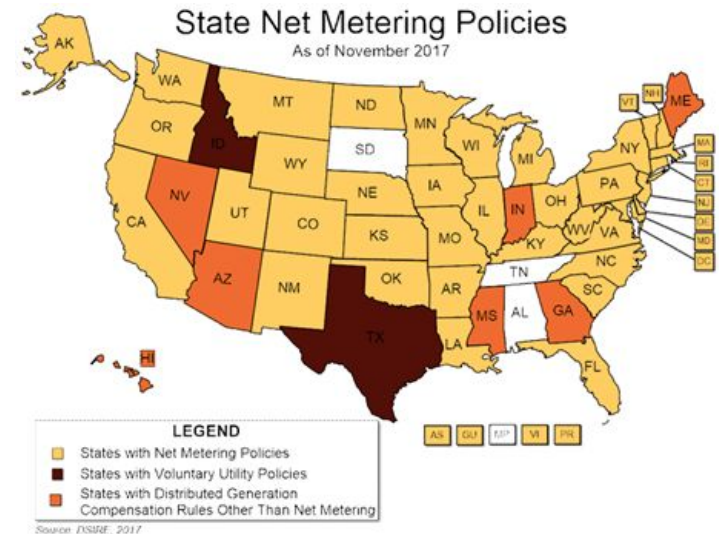
## Net Metering (NEM) Credit Recommendation



## OVERVIEW – NET METERING POLICIES

2

- Thirty Eight (38) States, Washington D.C., and Four (4) Territories Offer Net Metering and utilities in two additional states (Idaho and Texas adopted Net Metering (Full Retail Credit)).
- Arizona, Georgia, Hawaii, Indiana, Maine and Mississippi have compensation other than net metering.
- The Value of Solar (VOS) is an alternative to net metering. Customers buy from the grid at retail rate and sell to the grid at an established VOS rate. Only Minnesota and Austin Energy (Texas) has adopted a VOS rate.



Source: National Council of State Legislatures: 11/20/17





## Guam NEM Program

3

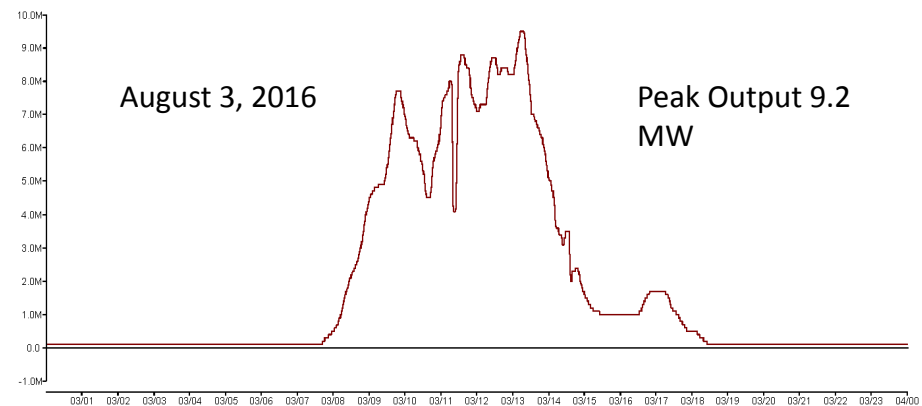
- Program Mandated in 2004. Guam has been crediting NEM customers full retail rate over the past 13 years. Excess credit carried over or paid out annually at full retail rate.
- PUC to evaluate program and credits provided when GPA has 1,000 NEM Customers which occurred in June 2016.
- As of July 2018, GPA has 1,733 NEM Customers (94.7% Residential), with 18,315 KW of capacity. The revenue impact on non-NEM ratepayers is estimated at \$3.4M annually.
- CCU/GPA conducted its first public hearing on NEM in August 2016 to gather input from stakeholders in order to prepare its filing to the PUC for changes in rate credits in order to achieve parity amongst all ratepayers.



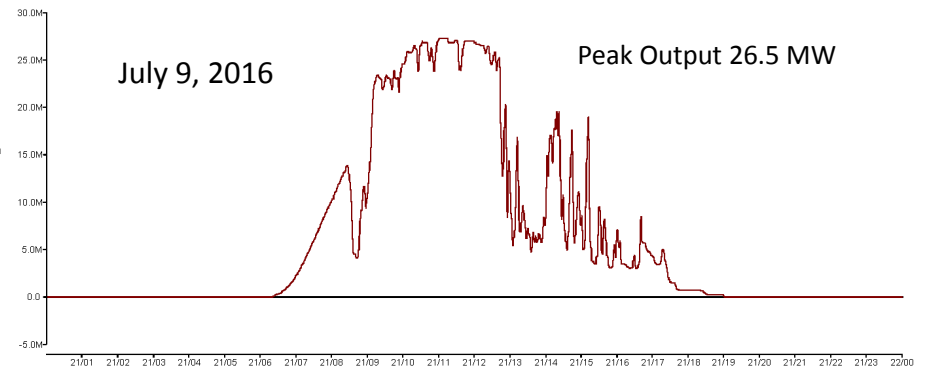
# Solar PV Energy Production Characteristics



# Utility Scale PV Output Look Like This ...



NEM does not eliminate  
need for capacity



PV without adequate storage is not a capacity  
benefit. It is an energy benefit.

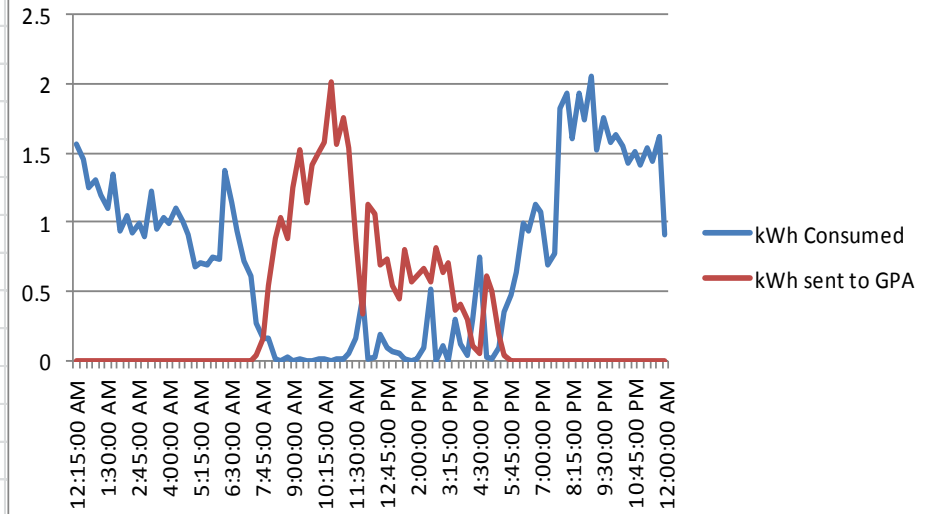
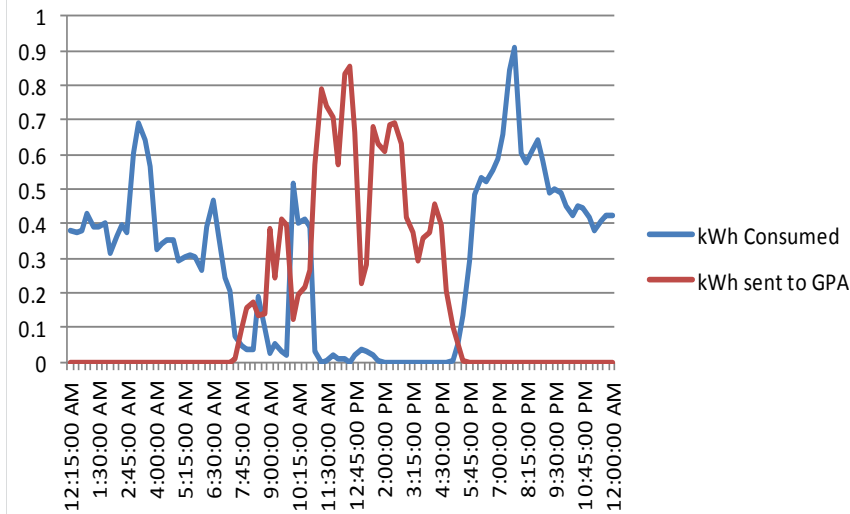


# NEM Customer Profiles

6

Date:	14-Jun-16		
PV System KW Size	5.0		
GPA KWH 12am to 7am	11.05		
GPA KWH 7am to 6pm	3.66		
<b>GPA KWH 6pm to 12am</b>	<b>12.92</b>	<b>Evening Peak</b>	
NEM KWH 7am to 6pm	16.14		
Net GPA KWH	11.49		

Date:	14-Jun-16		
PV System KW Size	12.4		
GPA KWH 12am to 7am	28.9		
GPA KWH 7am to 6pm	6.1		
<b>GPA KWH 6pm to 12am</b>	<b>34.6</b>	<b>Evening Peak</b>	
NEM KWH 7am to 6pm	32.5		
Net GPA KWH	37.1		



## Does NEM Lower Guam Generation Capacity Requirements?

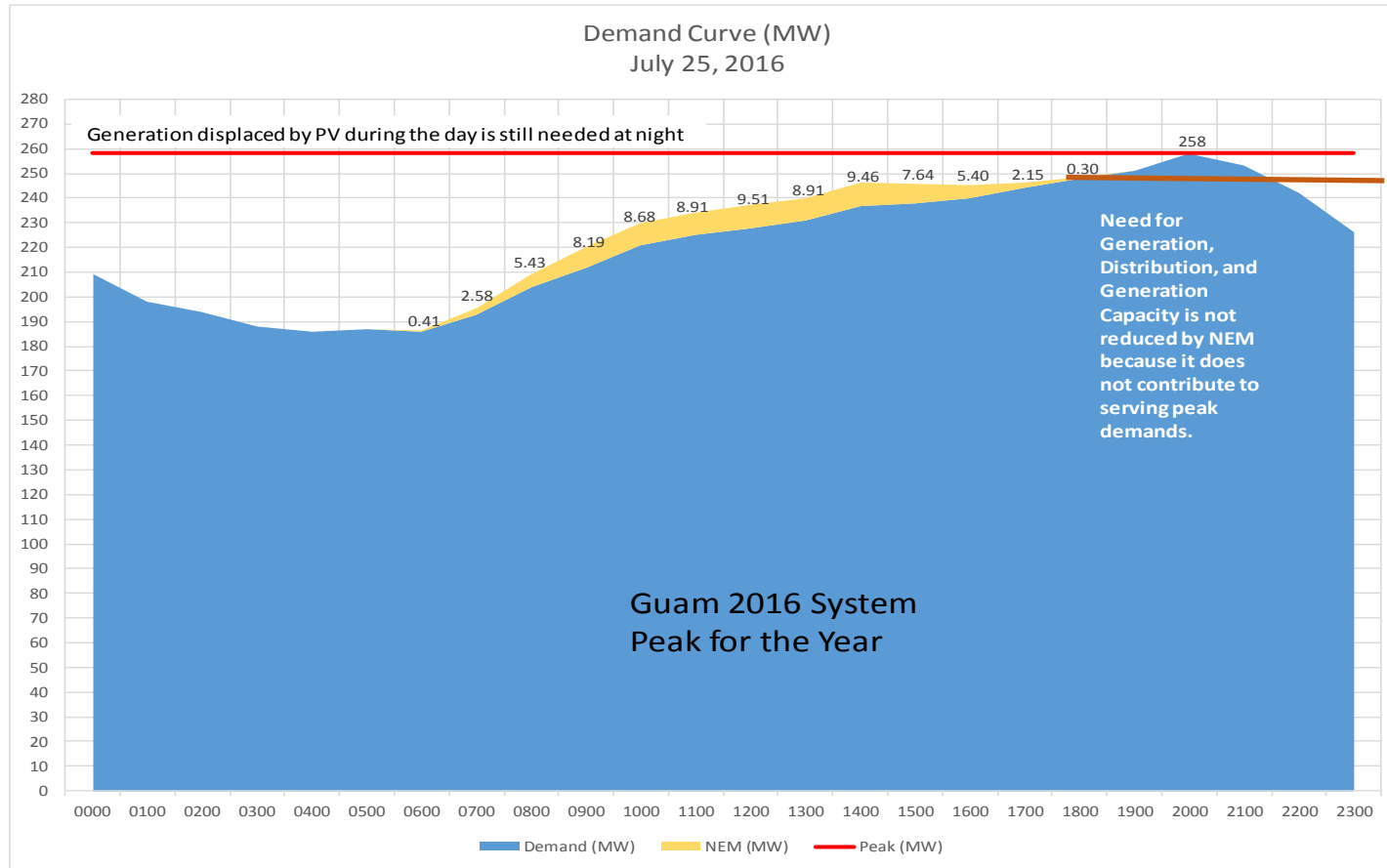
---

*No. NEM Solar PV systems in Guam does not reduce peak demand and therefore does not eliminate conventional capacity needs*



# Transmission, Distribution, or Generation Capacity for Guam Not Reduced by PV

8



8

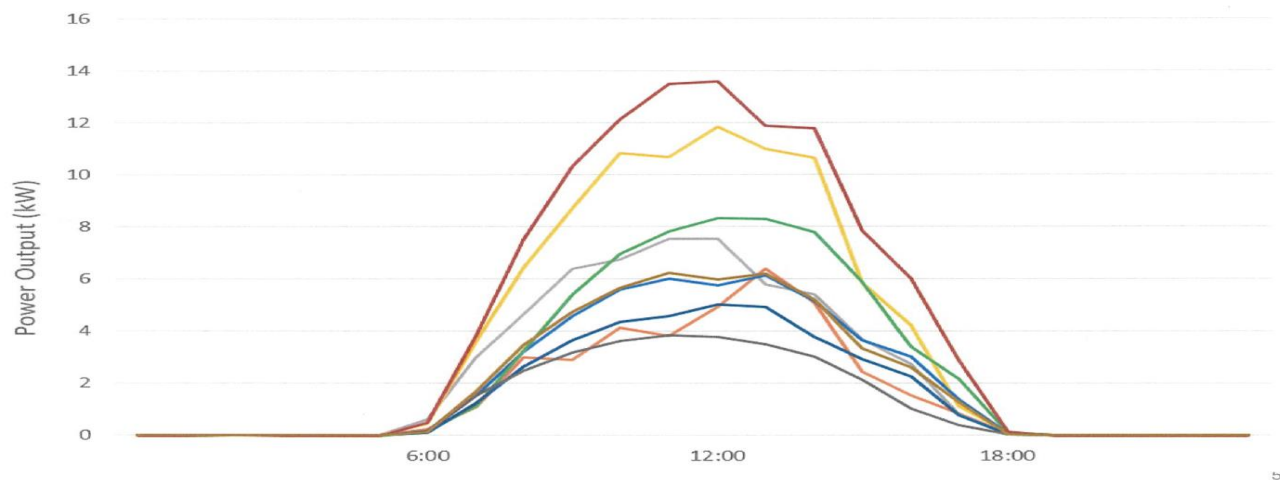
# NEM Peak Production not at GPA Peak Demand Period

Source: Clean Power Resource Report



## Nine Sampled Systems

2015 Peak Load Day: August 31



## Net Metering Policy Issues

10

- Replacement for Net Metering Program
- Grandfathering existing registered NEM customers
  - Allow customers who own system to recover investment
  - Phase in to avoided cost rates over a 5 to 8 year period
- GPA files for PUC approval:
  - Reassessed NEM rates each LEAC for Avoided Fuel Value
  - Reassessed NEM rates for other components
    - Annually
    - Periodically over a set number of years
    - When GPA's generation mix changes



10



## Value of the Grid to NEM Customers

11

- NEM customers receive services from the grid including:
  - Use the grid to sell power (get credit at full retail rate for excess production)
  - Use the grid to energize their homes at night, but credited back from their production (Uses GPA Grid as storage)
  - Using Grid at night results in increased fuel cost to non-NEM Customers because costlier less efficient generation is used to generate their energy needs
  - Frequency regulation absorbed by grid for intermittencies
  - Reactive power supply
  - Voltage regulation
  - Stand-by power on overcast days when the sun does not shine
- Monthly fixed charge of \$15 does not recover cost to serve from grid
  - Most of GPA fixed cost is recovered in the energy use (kWh) rate component which is typically zero for NEM customers

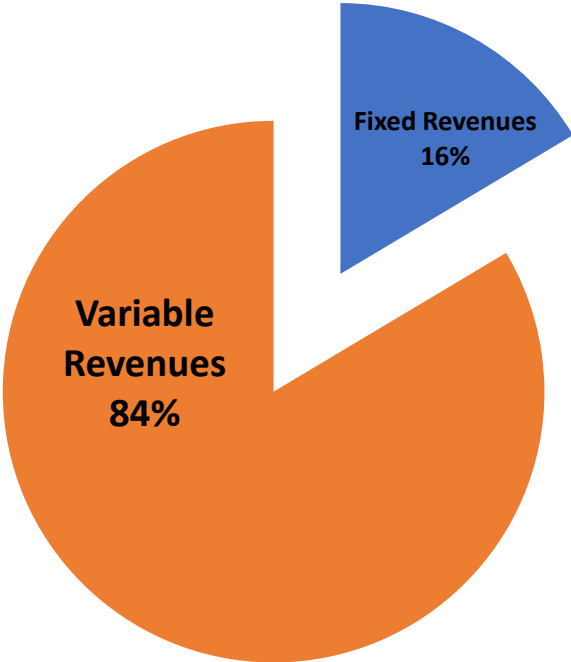


11

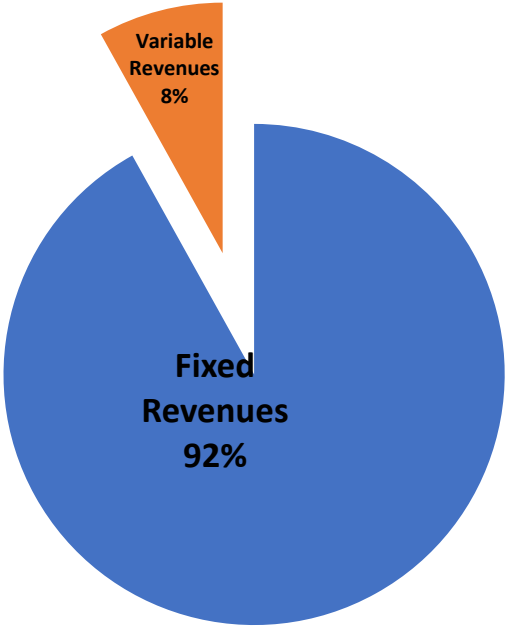
## Rate Structure & Fixed Cost Recovery



Civilian Fixed vs Variable Revenues



Navy Fixed vs Variable Revenues



## GPA Rate Structure Should Move Towards Recovering More Fixed Costs Through Fixed Charges.

- Civilian rate structure
  - Most of GPA fixed costs recovered in the variable rate
- Navy rate structure
  - Most of GPA fixed costs recovered in the fixed rate
- Hawaii has moved to fixed cost recovery predominantly through its fixed rate



## Net Metering Public Meetings Held to Gather Input from Stakeholders



## Key Points from Public Meetings

- Solar PV providers opined the B&V report provides all the gain to GPA and did not represent true value of solar
- NEM Owner wants to recover his investment. Asked for grandfathering until he does so. He said it will take 7 years to recover his \$60K investment
- NEM not meant to be money making business but a fair exchange of trade energy...some customers making money from units sized beyond their needs
- The applicability of NEM program to 3<sup>rd</sup> party providers need to be clarified
- Solar PV provider wants NEM program to continue up to 20% penetration similar to Hawaii
- Solar PV provider wanted more time to provide a report on Value of Solar and bring to GPA for information. Report was completed and presented by Clean Power Research on April 18, 2018



## Key Points from Public Meetings (continued)

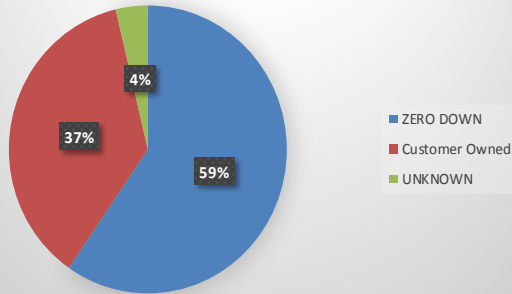
- Solar PV provider commented the NEM energy saves the utility cost on:
  - Maintenance cost for generations, poles, labor, lines, substations, transformers, etc.
  - Reduction of line losses because energy is near customers
  - Costs associated with fuel and fuel shipments
  - Helps GPA achieve energy portfolio reducing need for more renewable projects
  - Savings to environment; lessens carbon foot print
- Solar PV Provider-GPA should consider subsidies for home energy storage systems
- Solar PV Provider-GPA should consider grandfathering NEM customers through a phased approach
- No new points placed forward at the July 18, 2018 public meeting where the GM presented his recommendations which were previously presented to CCU



# NEM – PV Statistics

18

## Customer Count

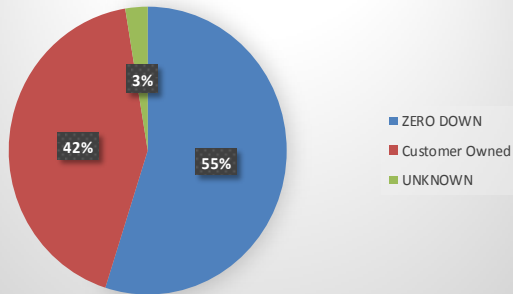


Customer Count	
Description	Number of Customers
ZERO DOWN	979
Customer Owned	602
UNKNOWN	61
<b>Grand Total</b>	<b>1,642</b>

## March 2018

Customer Class	KW	NEM	Customers	Percent of Customer Class
R - Residential	14,119	1,562	43,756	3.6%
J - Small General Service Demand	1,647	32	987	3.2%
K - Small Government Demand	318	9	348	2.6%
L - Large Government Demand	23	1	45	2.2%
P - Large General Demand	241	3	116	2.6%
G - Small General Non Demand	666	33	4,127	0.8%
S - Small Government Non-Demand	79	7	681	1.0%
<b>Total</b>	<b>17,092</b>	<b>1,647</b>	<b>50,060</b>	

## kW Distribution



kW Distribution	
Description	kW
ZERO DOWN	9,326
Customer Owned	7,212
UNKNOWN	440
<b>Grand Total</b>	<b>16,978</b>

## Projected FY 2018 Non-Fuel Revenue Loss

Customer Rate Class	Renewable Energy Capacity (kW)	Annual kWh Generated (@5.092 hours/day)*	Average Non-Fuel Yield \$/kWh	Estimated Annual Revenue Loss
R	13,693	25,447,071	0.09293	\$ 2,364,822
J	1,647	3,059,970	0.13112	401,226
K	318	590,618	0.13932	82,286
L	23	42,373	0.13525	5,731
P	241	447,331	0.11539	51,617
G	636	1,182,853	0.15084	178,417
S	79	146,447	0.15334	22,456
<b>Grand Total</b>	<b>16,636</b>	<b>30,916,662</b>		<b>\$ 3,106,555</b>

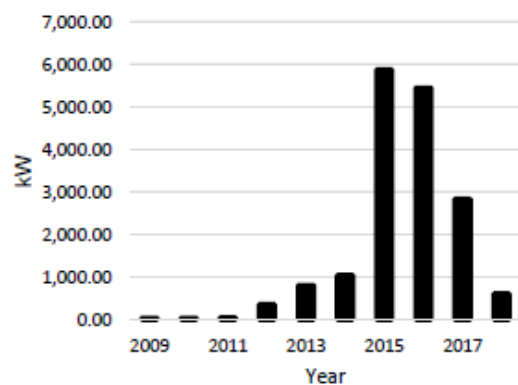
\*Estimated number of hours from NREL for Guam (13.4° North and 144° East).



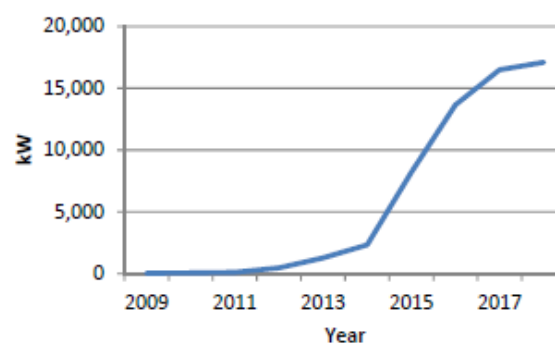
18



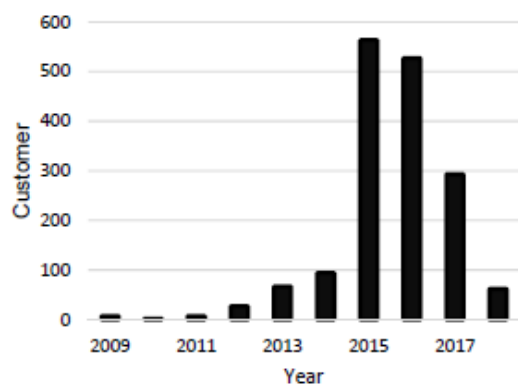
Yearly Installed kW



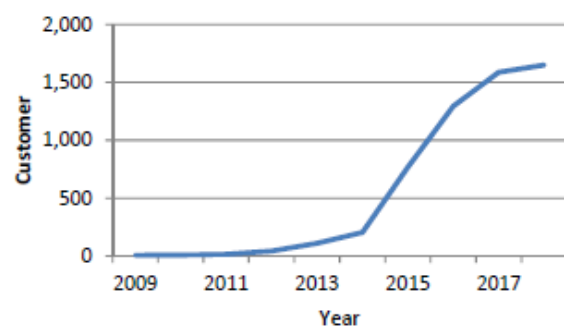
Cumulative Installed kW



Yearly Connected Customer Count

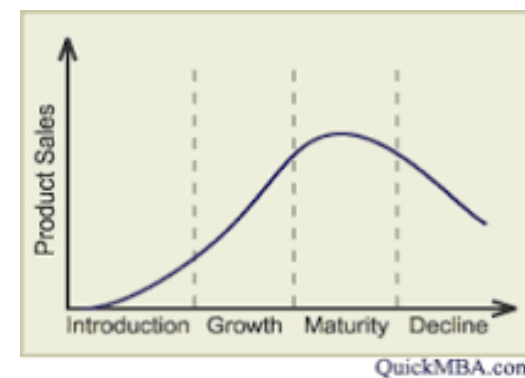


Cumulative Connected Customer Count



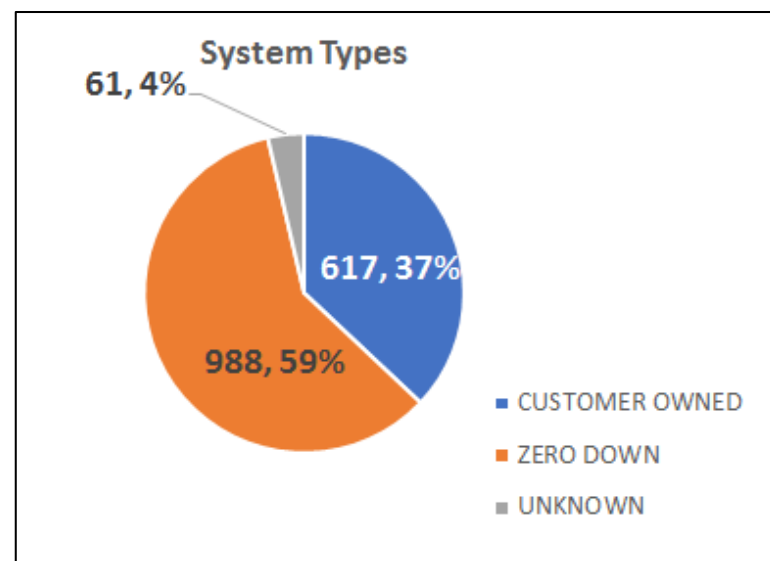
## NEM Market Analysis

- Product Lifecycle Stages
  - 2009 -2011 Introduction
  - 2012 – 2014 Growth
  - 2015 – 2016 Maturity
  - 2017 – Present Decline



## Market Share of Competitors

Firm	Count	Capacity (KW)	% of Installed System
Company A	747	6,882	40.3%
Company B	271	2,337	13.7%
Company C	229	2,426	14.2%
Company D	147	2,410	14.1%
Owner Installed	90	1,088	6.4%
Company E	29	470	2.7%
Company F	26	357	2.1%
Company G	13	100	0.6%
All Other Companies/Self Constructed Combined	35	576	3.4%
Unknown	62	449	2.6%
Totals:	1,649	17,095	100.0%



# GPA Value of Solar from an Avoided Cost Perspective

21

Cost Category	FY 2017	Cost per kWh Sold	GPA Avoided Cost (\$/kWh)
Generation + IPP Costs			
Other Production - Fixed O&M	\$ 17,783,917	\$ 0.0110	
IPP Costs - Fixed O&M	\$ 16,958,770	\$ 0.0105	
IPP Costs - Variable O&M	\$ 2,976,564	\$ 0.0018	\$ 0.0018
Transmission & Distribution	\$ 11,703,969	\$ 0.0073	
Admin and General			
Payroll, benefits, retirement	\$ 12,862,412	\$ 0.0080	
Insurance	\$ 7,252,504	\$ 0.0045	
Contracts	\$ 4,024,943	\$ 0.0025	
Utilities	\$ 1,817,009	\$ 0.0011	
Office supplies & Others	\$ 844,349	\$ 0.0005	
Customer Accounting	\$ 4,756,213	\$ 0.0030	
Debt Service	\$ 56,937,000	\$ 0.0354	
CIPs/Others	\$ 26,731,639	\$ 0.0166	
Total ( Base Rate Revenues)	\$ 164,649,289	\$ 0.1023	
Fuel Costs	\$ 181,683,506	\$ 0.1128	
Fuel Consumption, plus the under recovery of \$15.3 M)	\$ 165,692,714	\$ 0.1029	\$ 0.1029
Fuel Handling	\$ 7,128,512	\$ 0.0044	
Renewables	\$ 8,862,280	\$ 0.0055	
	-	-	
Total	346,332,795	\$ 0.2151	
Energy losses at 3.5%		\$ 0.0054	\$ 0.0054
Environmental cost		\$ 0.000039	\$ 0.000039
Total Avoided Cost			\$ 0.1102
Average cost in 2017 per kWh		\$ 0.2151	\$ 0.2151
Credit Beyond Avoided Cost			\$ 0.1049

## Energy Storage System (ESS) Cost Frequency Control

FY2019	
Total KWH Sales Projected:	1,610,093,011
ESS Annual Debt Service & O&M:	\$ 2,829,348
\$/kWh:	\$0.0018

GPA provides low cost energy storage

New 40 MW Energy Storage System Commissioning December 2018



## Value of Solar Comparison

23

Only Minnesota and Austin Energy (Texas) adopted VOS Model

Cost Category	Minnesota	Austin Energy	Clean Power Research (MRE)	GPA Avoided Cost FY 2017	Comments
Fuel Cost	X	X	\$0.1260	\$0.1029	Close Agreement
Energy Losses	X	X	\$0.0054	\$0.0054	In Agreement
Plant O&M-Fixed	X	X			
Plant O&M-Variable	X	X		\$0.0018	Minor Cost Impact
Generation Capacity Cost	X	X	\$0.0490		No Capacity Avoided
Reserve Capacity Cost	X				
Transmission Capacity Cost	X	X			
Distribution Capacity Cost	X	X			
Environmental Cost	X	X		\$0.0001	Minor Cost Impact
Voltage Control Cost	X				
Solar Integration Cost	X				
Avoided Fuel Hedging Uncertainty Cost			\$0.0590		N/A - GPA Does Not Hedge
Avoided Mandated RPS Cost			\$0.0310		GPA meeting RPS at Savings not Cost
<b>Total:</b>			<b>\$0.2704</b>	<b>\$0.1102</b>	<b>Variance Subsidized by Non-NEM Ratepayers</b>



# Value of Solar Comparison

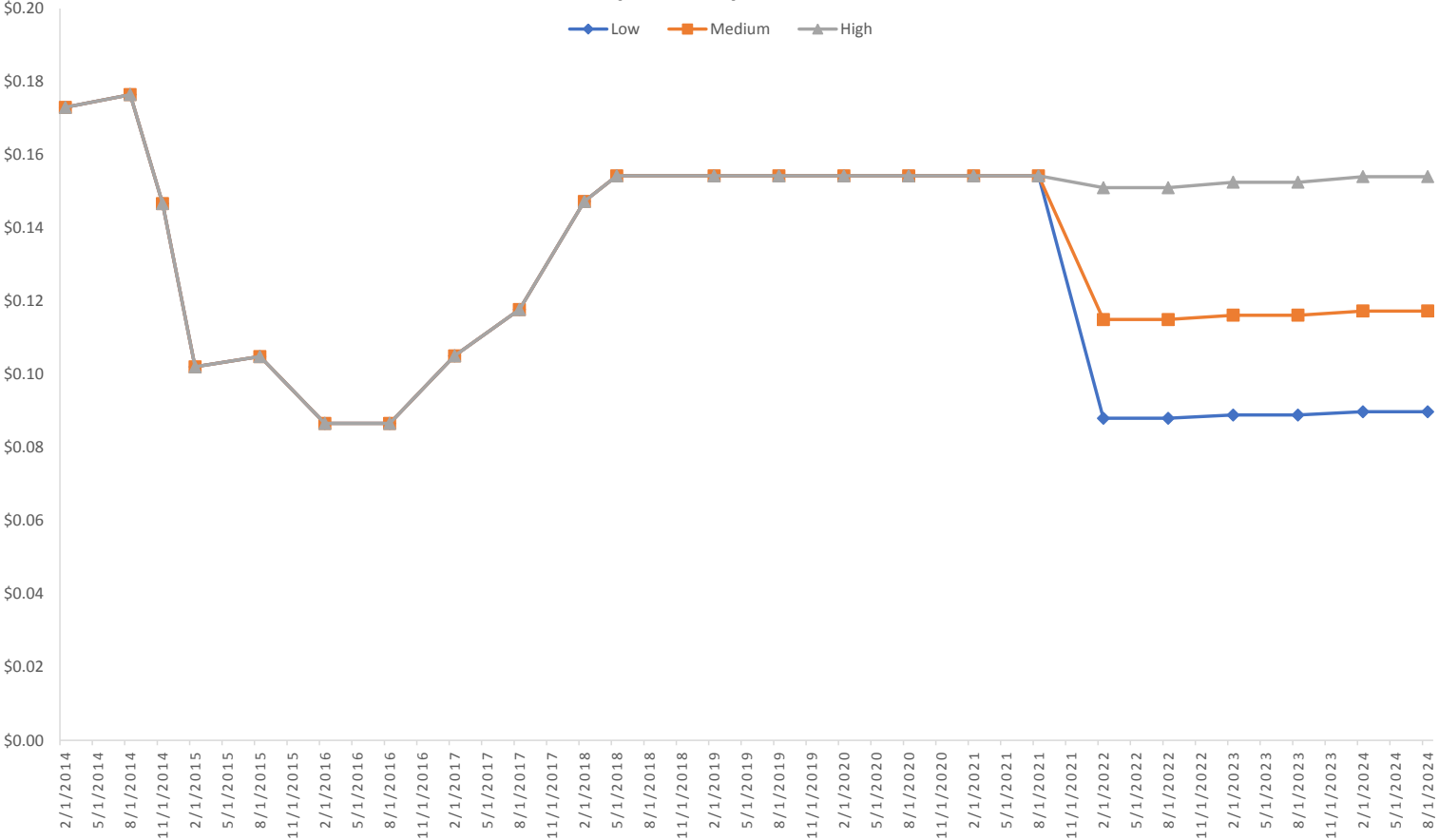
24

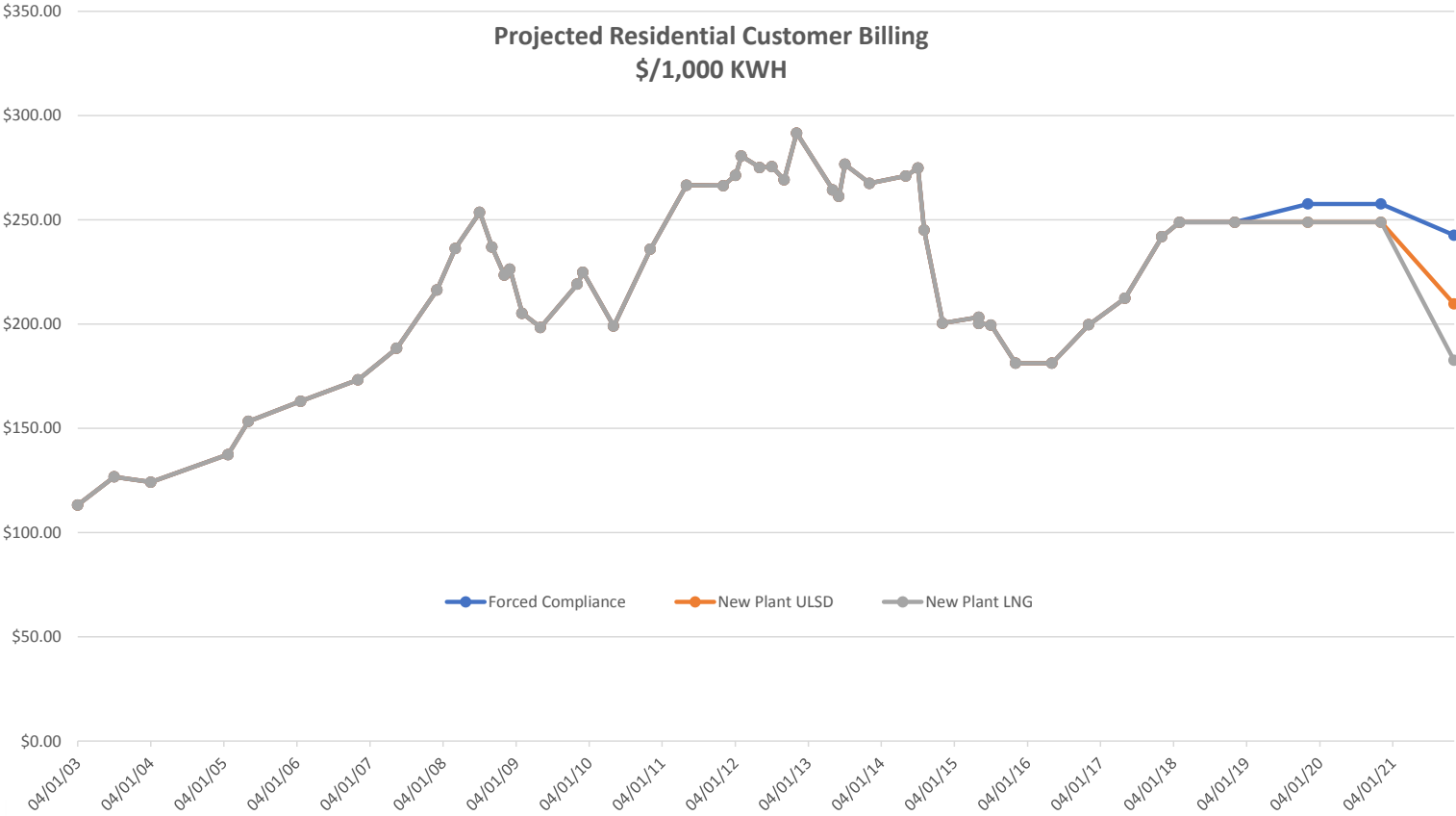
## Adjusted to GPA Actual Cost

Cost Category	Clean Power Research (MRE)	Revised CPR/MRE Based on Comments	GPA Avoided Cost FY 2017	Comments
Fuel Cost	\$0.1260	\$0.1029	\$0.1029	Adjusted based on LEAC for Similar FY 2017 Period
Energy Losses 4.6%	\$0.0054	\$0.0047	\$0.0047	In Agreement
Plant O&M-Variable			\$0.0018	GPA Determined Minor Cost Impact
Generation Capacity Cost	\$0.0490	\$0.0000	\$0.0000	No Capacity Avoided because does not Reduce Peak Demand
Environmental Cost			\$0.0001	GPA Determined Minor Cost Impact
Avoided Fuel Hedging Uncertainty Cost	\$0.0590	\$0.0000	\$0.0000	Not Applicable - GPA Does Not Hedge, Therefore No Cost
Avoided Mandated RPS Cost	\$0.0310	\$0.0000	\$0.0000	GPA meeting RPS at a Savings not a Cost
<b>Total:</b>	<b>\$0.2704</b>	<b>\$0.1076</b>	<b>\$0.1095</b>	



LEAC RATE (\$/KWH) PROJECTION







# Net Metering Economics

27

## When Do Customer-Owned NEM Recover their Investment?

Value of Solar Payment Versus Simple Payback						
\$/Kwh Credit	\$0.10		\$0.12		\$0.27	
ITC Valid	2018-2019		2018-2019		2018-2019	
Solar PV All-In Cost (\$/W)	30.0% ITC		30.0% ITC		30.0% ITC	
	Simple Payback (years)	IRR (%)	Simple Payback (years)	IRR (%)	Simple Payback (years)	IRR (%)
1.00	6	18.8%	5	23.9%	2	53.0%
1.25	7	14.6%	6	18.8%	3	42.2%
1.50	8	11.6%	7	15.3%	3	35.0%
1.75	10	9.5%	8	12.7%	4	29.8%
2.00	11	7.8%	9	10.7%	4	25.9%
2.25	12	6.4%	10	9.1%	5	22.9%
<b>2.50</b>	<b>14</b>	<b>5.2%</b>	<b>11</b>	<b>7.8%</b>	<b>5</b>	<b>20.4%</b>
2.75	15	4.2%	12	6.6%	6	18.4%
3.00	17	3.4%	13	5.7%	6	16.7%
3.25	18	2.6%	14	4.8%	7	15.2%
3.50	20	1.9%	16	4.1%	7	13.9%
3.75	21	1.3%	17	3.4%	8	12.8%
<b>4.00</b>	<b>23</b>	<b>0.8%</b>	<b>18</b>	<b>2.8%</b>	<b>8</b>	<b>11.8%</b>
4.25	25	0.3%	19	2.2%	9	10.9%



# NEM Customer Owned Solar PV

At GPA Retail Rate Credit Recovers Investment in 5 to 8 Years

<b>GPA Residential Retail Rate Credit:</b>			
<b>Average \$/W Installed</b>	<b>\$3.25/Watt</b>	<b>Annual Savings</b>	<b>Simple Payback Years</b>
PV KW Capacity	7.69		
Annual Capacity Factor	20.0%		
Annual Kwh Production	13,473		
Average LEAC	\$0.147		
Average Base Rate	\$0.093		
<b>Total Average rate</b>	<b>\$0.240</b>		
Annual Energy Cost Avoided	\$3,233.49		
Installation Cost - No Tax Credit	\$24,993		<b>7.7</b>
15 Year Loan Annual Payment, 8%, 15 years	\$2,919	\$314.49	
With Tax Credit	\$17,495		<b>5.4</b>
15 Year Loan Annual Payment, 8%, 15 years	\$2,043	\$1,190.49	



# NEM Customer Owned Solar PV

At GPA 2018 LEAC Rate Credit Recovers Investment in 8 to 12 Years

<b>GPA 2018 LEAC Rate Credit:</b>			
<b>Average \$/W Installed</b>	<b>\$3.25/Watt</b>	<b>Annual Savings</b>	<b>Simple Payback Years</b>
PV KW Capacity	7.69		
Annual Capacity Factor	20.0%		
Annual Kwh Production	13,473		
Average LEAC	\$0.154		
Average Base Rate	\$0.000		
<b>Total Average rate</b>	<b>\$0.154</b>		
Annual Energy Cost Avoided	\$2,074.82		
Installation Cost - No Tax Credit	\$24,993		<b>12.0</b>
15 Year Loan Annual Payment, 8%, 15 years	\$2,919	-\$844.18	
With Tax Credit	\$17,495		<b>8.4</b>
15 Year Loan Annual Payment, 8%, 15 years	\$2,043	\$31.82	



## Summary

30

- Net Metering was established 13 years ago in 2004. Substantial Changes has occurred on GPA delivery cost and more changes expected by 2022.
- Customer Owned NEM System recovers its investment within 5 to 8 years from installation at GPA full Retail Rate Credit.
- Customer Owned NEM System recovers its investment within 8 to 12 years from installation at GPA LEAC Avoided Cost Rate Credit.
- It appears Zero Down Customers with 2.9% escalators will incur higher cost over the life of their 25 year contract. A \$0.18/KWH rate in 2018 becomes \$0.357/KWH in 2042.



## Additional Information on Net Metering



<b>Estimated Cost Impact to Non-Net Metering Ratepayers:</b>			
<b>NEM Credit above avoided cost</b>	<b>Estimated Kwh</b>	<b>Estimated Subsidy</b>	<b>\$/Kwh</b>
FY 2009	23,912	\$1,657	\$0.0693
FY 2010	98,830	\$8,483	\$0.0858
FY 2011	170,070	\$18,177	\$0.1069
FY 2012	494,672	\$58,546	\$0.1184
FY 2013	1,556,949	\$178,996	\$0.1150
FY 2014	3,137,212	\$410,559	\$0.1309
FY 2015	7,383,621	\$856,921	\$0.1161
FY 2016	21,867,383	\$2,200,795	\$0.1006
FY 2017	28,242,917	\$2,828,834	\$0.1002
<b>FY 2018</b>	<b>33,921,230</b>	<b>\$3,411,623</b>	<b>\$0.1006</b>
<b>Totals:</b>	<b>96,896,796</b>	<b>\$9,974,591</b>	
Net Metering Customers July 2018	1,733		
Total GPA Customers	51,515		
% NEM Customers	3.36%		
Non-NEM Customers	49,782		
% Non-NEM Customers	96.64%		



Jurisdiction	Years	Notes
Arkansas	20	
Nevada	20	
Utah	18	Until 2035
California	5	Residential, require application
	10	Other, require application
Arizona	20	Require application by June 12, 2018
Florida	20	March 31, 2018 final inspection, JEA
New Hampshire	22	Until 2040
Indiana	29	NEM customers prior to July 1, 2017 have until July 1, 2047
	14	NEM customers signing up prior to July 1, 2022 or their utility reaching a 1.5% peak summer load cap can continue net metering until July 1, 2032
Maine	15	Existing 2017 customers
Michigan	10	Limited to NEM that is already in the system
Hawaii (HECO, MECO, HELCO, Molakai, Lanai)	∞	NEM application was submitted to the utility postmarked 10/12/15 or earlier
Vermont	10	Net metering systems with a complete Certificate of Public Good application filed with the PSB prior to January 1, 2017 (as long as the application was filed at a time when the electric company was accepting net metering systems, based on the state's former aggregate capacity limit) are grandfathered

- Utilities and States Differ on Grandfathering NEM Customers
- Many Jurisdictions are Ending Net Metering

5



## Maine

- In early 2017, Maine became the fourth state to more appropriately compensate net metering. The Public Utilities Commission adopted a ramp-down policy, which gradually harmonizes the transmission and distribution charges for net metering customers, aligned with true avoided costs.
- The rules grandfather existing customers for 15 years.

Source: Tanton, Thomas. (April 2018 ) Net Metering in the States: Moving Toward Equitable and Sustainable Policies for Electric Customers. URL at <http://sglf.org/wp-content/uploads/sites/2/2018/04/SGLF-Net-Metering-In-the-States-by-Thomas-Tanton-April-2018.pdf> (August 17, 2018).

7





## Hawaii

- Marco Mangelsdor, president of installer ProVision Solar.
  - "... Hawaii's net energy metering (NEM) policy has "88% of the utility's ratepayers subsidizing the 12% who have net energy metered systems."
  - He believes utility's concern about that shift of costs for system maintenance is reasonable.
  - "The cost of NEM was \$38 million in 2013 and it is estimated at \$53 million in 2014. These are not trivial dollars."

11



## California

- One of the first studies to quantify the magnitude of the NEM subsidy was conducted by Energy+Environmental Economics (E3) for the California Public Utilities Commission (CPUC) in 2013.
- The E3 study estimated that NEM would result in a cost shift of \$1.1 billion annually by 2020 from NEM to non-NEM customers if current NEM policies were not reformed in California.
- A cost shift of this magnitude—paid for by non-NEM customers—was unacceptable to California regulators.
- As a result, California regulators set to work to reform rates in their state; many other states followed suit and conducted similar investigations of the magnitude of the NEM subsidy.

12



## Nevada

- Recently, Arizona Public Service (APS), the state's largest utility, found that solar customers avoid on average around \$1,000 annually in costs for operating the electric grid, costing the average power user, who must make up the cost, a \$16.80 premium per year.

13



## Louisiana

- Overall, the state found that its net metering structure resulted in an \$89 million negative net benefits to electricity rate payers, meaning the net metering program costs are greater than program benefits, and that over \$2 million of utility costs per year were being subsidized by non-solar consumers.

14



**See attached Article of May 18, 2018 by Institute for Energy Research (IER)**



**Subsidies unchecked will continue to impact Non-Net Metering substantially:  
Guam is at 3.36%; Hawaii is at 12 % NEM;**

<b>Description:</b>	<b>Jul-18</b>	<b>Future</b>	<b>Future</b>	<b>Future</b>
% of All Customers	3.36%	5.00%	10.00%	15.00%
NEM Customers	1,733	2,576	5,152	7,727
Energy Produced	33,921,230	50,416,970	100,833,939	151,250,909
Annual Subsidy	\$3,411,623	\$5,071,652	\$10,143,304	\$15,214,955
Non-Nem Customers	49,782	48,939	46,364	43,788
<b>Cost to each Non-NEM</b>	<b>\$68.53</b>	<b>\$103.63</b>	<b>\$218.78</b>	<b>\$347.47</b>



## Recommendation

41

1. CCU approve GPA filing a petition to the PUC as shown herein to consider changes to the existing net metering credit
2. Recommend an implementation plan for billing NEM customers on net billing: Buy All/Sell All or similar billing models
3. GPA files with GPUC for adjustment of net metering credits from retail to avoided cost
4. It is recommended that for existing NEM Customers, implement a Grandfather phase-in approach over 5 to 8 years to the GPA avoided cost credit. Adjustments for LEAC, line loss and variable cost changes done annually.
5. For future NEM customers, credit set at the GPA avoided cost





**GUAM POWER AUTHORITY**  
ATURIDĀT ILEKTRESEDĀT GUAHAN  
P.O.BOX 2977 • AGANA, GUAM U.S.A. 96932-2977

## Issues for Decision

**Resolution No. 2018-17:**

### **Relative to Approving GPA's Net Metering Recommendation**

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

The necessary and urgent objective of this resolution seeks approval to file and respond to the Guam Public Utilities Commission (PUC) order under Docket No. 08-10 (December 29, 2008), Exhibit A:

“The NM Rider is available to all customers without limitation as to the aggregate capacity of Customer-Generator installations on the GPA System. However, at the time the number of Customer-Generators exceeds one-thousand (1000) customers this issue will be reviewed by the PUC and a determination made as to the continued offering of the NM Rider for new ‘net metering’ customers.”

GPA achieved the milestone of 1000 net metering customers in June 2016. As of July 31, 2018, GPA has 1,733 net metering customers resulting in an approximate \$3,411,623.29 annual subsidy by non-net metering customers. Additionally, GPA has conducted and completed as ordered by the Consolidated Commission on Utilities (CCU) several public meetings to:

- Address net metering stakeholders' concerns and obtain feedback;
- Evaluate stakeholder feedback;
- Perform analysis regarding net metering impacts on the GPA especially on non-net metering customers;
- Propose recommendations on whether or not changing the current net metering program is in the best interests of customers while insofar as practical alleviating net metering customer concerns.

**Where is the location?**

the Territory of Guam

**How much will it cost?**

This recommendation will save non-net metering customers approximately \$3,411,623.29 annually.

**When will it be completed?**

Upon approval of the Guam Public Utilities Commission

**What is its funding source?**

The Levelized Energy Adjustment Clause





**CONSOLIDATED  
COMMISSION ON UTILITIES**

Guam Power Authority • Guam Waterworks Authority  
P.O. BOX 2977 • Agana, Guam 96932

**RESOLUTION NO. 2018-17**

**AUTHORIZING MANAGEMENT OF THE GUAM POWER AUTHORITY (GPA) TO FILE NET METERING  
PROGRAM RECOMMENDATIONS ADDRESSING THE GUAM PUBLIC UTILITIES COMMISSION (PUC)  
ORDER (DOCKET NO. 08-10 (DECEMBER 29, 2008), EXHIBIT A, PARAGRAPH 3**

**WHEREAS**, Guam Public Law 27-132 (2004) created Net Metering for Guam and assigned the  
Guam Public Utilities Commission (PUC) the responsibility for setting the Net Metering Rate for excess  
renewable energy fed into GPA's Distribution System; and

**WHEREAS**, the Guam Public Utilities Commission (PUC) ordered GPA to execute the Interim Net  
Metering (NM) Rider under Docket No. 08-10 (December 29, 2008); and

**WHEREAS**, under Docket 08-10, Exhibit A (paragraph 1), the PUC states: "The NM Rider may be  
amended or modified in the future by GPA, with the approval of the Guam Public Utilities Commission  
(PUC)"; and

**WHEREAS**, under Docket 08-10, Exhibit A (paragraph 3), the PUC orders: "The NM Rider is  
available to all customers without limitation as to the aggregate capacity of Customer-Generator  
installations on the GPA System. However, at the time the number of Customer-Generators exceeds one-  
thousand (1000) customers this issue will be reviewed by the PUC and a determination made as to the  
continued offering of the NM Rider for new 'net metering' customers."; and

**WHEREAS**, GPA achieved the milestone of 1000 net metering (NEM) customers in June 2016; and

**WHEREAS**, NEM customers receive services from the grid subsidized by non-NEM customers  
including but not limited to: 1) Use of the grid to sell power (get credit at full retail rate for excess  
production); 2) Use of the grid to energize their homes at night; 3) Frequency regulation absorbed by grid  
for intermittencies; 4) Reactive power supply; 5) Voltage regulation; and 6) Stand-by power on overcast  
days when the sun does not shine.

32           **WHEREAS**, GPA has 1,733 net metering customers (July 31, 2018) resulting in an approximate  
33     \$3,411,623 annual subsidy going forward and from 2009 to 2017 a total subsidy of approximately  
34     \$6,562,968.64 paid for by non-net metering customers; and  
35

36           **WHEREAS**, as ordered by the Consolidated Commission on Utilities (CCU), GPA has conducted and  
37     completed several public meetings to: 1) Address net metering stakeholders' concerns and obtain  
38     feedback; 2) Evaluate stakeholder feedback; 3) Perform analysis regarding net metering impacts on the  
39     GPA especially on non-net metering customers; and, 4) Propose recommendations on whether or not  
40     changing the current net metering program is in the best interests of customers while insofar as possible  
41     alleviating net metering customer concerns; and  
42

43           **WHEREAS**, the GPA General Manager presented the Authority's Net Metering (NEM) Credit  
44     Recommendation (Exhibit A) at the July 18, 2018 CCU Working Session held publicly; and  
45

46           **WHEREAS**, GPA recommends the following Value of Solar (VOS) Policies as a replacement for the  
47     existing Net Metering Program including: 1) Grandfathering existing registered NEM customers for a  
48     period of 5 to 8 years allowing customers who own NEM systems to recover their investment while  
49     phasing in VOS rates over this extended 5 to 8 year time period; and filing for PUC approval a process to  
50     establish Value of Solar (VOS) rates;  
51

52           **WHEREAS**, the process to establish Value of Solar (VOS) rates would: 1) Reassess VOS rates each  
53     LEAC for Avoided Energy Value; 2) Reassess VOS rates for other VOS components as applies on a) an  
54     annual basis; b) periodic basis over a set number of years; and 3) whenever there are material changes to  
55     GPA's generation mix; and  
56

57           **NOW, THEREFORE, BE IT RESOLVED**, by the CONSOLIDATED COMMISSION ON UTILITIES subject  
58     to the review and approval of the Public Utilities Commission as follows:  
59

- 60           1.     The General Manager is authorized to file a petition of its Value of Solar Policy  
61                 Recommendations to the Guam Public Utilities Commission.  
62           2.     The General Manager is authorized to conduct an information campaign supporting these  
63                 recommendations.

64

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

67

68           **DULY and REGULARY ADOPTED this XX<sup>th</sup> day of March 2018.**

69

**Certified by:**

**Attested by:**

\_\_\_\_\_  
**JOSEPH T. DUENAS**  
**CHAIRMAN**

\_\_\_\_\_  
**J. GEORGE BAMBA**  
**SECRETARY**

70

**SECRETARY'S CERTIFICATE**

71

72           **I, J. George Bamba**, Secretary for the Consolidated Commission on Utilities do hereby certify that  
73 the foregoing is a full, true, and correct copy of the resolution duly adopted at a regular meeting of the  
74 members of Guam's Consolidated Commission on Utilities, duly and legally held at the meeting place  
75 thereof on August XX, 2018, at which meeting of all said members had due notice and at which at least a  
76 majority thereof were present, and

77           At said meeting said resolution was adopted by the following vote:

78

79           Ayes:           \_\_\_\_\_

80

81           Nays:           \_\_\_\_\_

82

83           Absent:        \_\_\_\_\_

84

85           Abstain:        \_\_\_\_\_

86

87

88

89           As of the date of this certification, said original resolution has not been amended, modified, or  
90 rescinded since the date of its adoption, and the same is now in full force and effect.

91

**SO CERTIFIED** this XX<sup>th</sup> day August 2018.

---

**J. GEORGE BAMBA**

Secretary

Consolidated Commission on Utilities

92

## We Told You So: Another Net Metering Solar Subsidy Bites the Dust

[naturalgasnow.org/told-another-net-metering-solar-subsidy-bites-dust/](http://naturalgasnow.org/told-another-net-metering-solar-subsidy-bites-dust/)

By Natural Gas Now Guest Blogger

May 18, 2018

**Institute for  
Energy Research**

**IER**

....

....

***Net metering solar subsidies in Michigan are being ended because they're unaffordable and unfair, something that should have been apparent to all long ago.***

Michigan has joined other states in realizing that net metering rules as originally designed are biased against consumers without rooftop solar, raising their electricity rates. Michigan will now charge rooftop solar customers at the retail price of electricity for electricity that they consume and pay them a lower price for the electricity that the utility purchases from them thereby charging them for the use of the electrical wires (i.e., transmission and distribution) that non-solar consumers hitherto have had to subsidize. Customers already in the net metering program will be grandfathered for 10 years. By changing the rules on net metering, Michigan will join several other states that have recognized the bias.



Michigan rooftop solar system that has had a hidden subsidy with net metering

Beginning June 1, Michigan customers who provide solar power to utility companies will be paid an avoided-cost tariff based on how much their utility pays to produce electricity, ensuring solar rooftop customers are "assessed for their fair and equitable use of the

electrical grid.”

Under the current rules, solar panel customers are often able to avoid much of the cost of maintaining the electric grid, which they continue to use, resulting in the non-net metering customers paying more than their share to maintain the grid. This is because utilities were required to buy electricity from solar rooftops at retail prices, even though it was a wholesale product, and other ratepayers would end up subsidizing their neighbors' solar systems by paying the utility more than the product was worth.

**States That Have Changed Net Metering Rules**

At least five states have implemented alternative compensation methods for solar rooftop customers, including Arizona, Hawaii, Indiana, Maine, and Nevada. While these states have implemented widely-varying alternative compensation methods, all five states have grandfathered existing customers, allowing them to continue under the previous net metering rules for a set number of years.

In December 2016, the Arizona Corporation Commission lowered the credit residential solar customers receive for excess energy sent back to the grid and limited how long customers can keep their rates. The new rate is based on the cost of energy from large solar farms, which is much lower than the retail rate.

In October 2015, Hawaii closed its net metering program to new solar owners, and provided two options: self-supply and grid-supply. Under the self-supply option, solar customers with energy storage in areas of high solar penetration are limited in the amount of electricity they can send back to the grid and do not receive any compensation for it. Under the grid-supply option, solar customers are compensated at the wholesale rate for electricity supplied to the grid. In Hawaii, wholesale prices range from roughly 15 cents per kilowatt-hour to 28 cents per kilowatt-hour, which is about half of the state's average retail electricity rates. To help cover fixed costs, residential solar customers connected to the grid will pay a minimum monthly bill of \$25.

In May 2017, Indiana Governor Eric Holcomb signed into law a measure that lowers the rate of compensation for customers who install solar or wind power, phasing out retail net metering. Systems installed by the end of 2017 were to get the retail rate for 30 years, but the rate will be lowered over a series of years for other customers after 2022. After 2022, solar and wind customers will be compensated at their utility's marginal cost, plus 25 percent.

Last year, Maine approved new solar rules that would gradually decrease the compensation to customers with solar panels on their homes, grandfathering an existing customer's rate for 15 years. Regulators agreed to delay implementation until April 30, as technical aspects of the new rules were sorted out.

On December 23, 2015, the Public Utility Commission of Nevada established an alternate compensation method for rooftop solar customers that creates new classes of net metering customers and a structured process for transitioning to the new rules and rates. Over five years, the basic service charge will increase in gradual increments accompanied by a related decrease in the energy charge that net metering customers pay for each unit of

energy delivered by the utility and a decrease in the credit that the utility provides for energy delivered by rooftop solar customers to the grid. The rates and credits are to be reset periodically by the Public Utility Commission.

Other states have discovered that their net metering programs have overcompensated solar panel owners at the expense of their other energy consumers. Montana's largest utility company found that it was overpaying net metering customers by about three times the market value. The value of the rooftop solar energy that was being delivered back to the grid was about four cents per kilowatt hour, but the net metering customers were getting paid about 12 cents per kilowatt hour for that power. In New Hampshire, Governor Chris Sununu shunned renewable energy subsidies that have artificially supported failing solar energy companies.

### **Conclusion**

Net metering is a boondoggle for residential homeowners who can afford to put solar panel systems on their homes. It also hurts non-solar customers by forcing them to subsidize solar panel homeowners through the purchase of a wholesale product at a retail price and the allowing grid freeriding. States are realizing the bias and are implementing alternate compensation methods. But current net metering beneficiaries tend to be grandfathered for at least a period of time and are still absorbing their new wealth.

**Editor's Note:** *This article gets at two points we've been making here for a very long time; (1) renewables depend upon unaffordable subsidies that are often hidden, and (2) net metering is incredibly unfair to other ratepayers. State after state is backing away from net metering because it effectively pays producers of solar energy two subsidies that raise the costs for everyone else.*

*First, the energy the produced under net metering goes into the system without picking up any of the costs of the grid to deliver it to others, meaning the others have to carry the whole load.*

*Secondly, the value of energy is based on the need or demand for it. A solar system that produces energy when it's not needed at the same price as when it is needed only raises the price of electricity. Think of it as buying water to sprinkle your lawn. Would you want to pay the water company to sprinkle your lawn when it's already raining? Of course not, and that's what net metering does; it forces others to buy your product when they don't want or need it.*

*Moreover, by forcing others to buy your product you also make dispatchable energy providers such as natural gas power plants, who are crucial for providing electricity when you can't, that much less economical. You steal the cream of the business and leave others to produce and sell what you can't, which necessarily makes them more expensive. This is why the German Energiewende is such a flop and why New York electricity prices can be expected to increase as far as the eye can see. Michigan knows better.*

**PUBLIC HEARING OF NET METERING 7/18/18 MINUTES OF MEETING**

GBNPSB, Mangilao

At onset of NEM's work session GM said that the course of this matter will be

1. GM – OVERVIEW OF STATUS OF PUBLIC HEARINGS TO DATE
2. MANAGEMENT'S RECOMMENDATION TO CCU
3. CCU POLICY ON NET METERING CREDITS

MANAGEMENT'S RECOMMENDATION TO CCU

GM Benavente proceeded with his presentation.

**COMMENTS**

After the presentation, comments were recorded for the record. Synopsis below:

**JOE ROSARIO / MRE**

Testified in opposition of proposed changes to NEM program

8/11/16 – 1<sup>st</sup> meeting w/ Black & Veatch recommendation; thought it was very aggressive approach that would have negatively impacted an industry that was just starting to gain momentum. At that time 1200 NEM customers made up less than 2.5% of overall GPA customers. Now 2018 customer count 1647 with GPA ratepayer base of 60,010 represents 3.3% of total GPA customer base – less than 1% increase of NEM customers on the grid. Why is such an aggressive change being proposed. Can't be because of loss of revenue – NEM is not "wrecking GPA finances". If there is to be a change why not a negotiated rate that all benefits from – not only the utility but the industry and the consumer. Proposed changes will have serious negative (approved as written) impact to the solar industry and growth of distributed generation – solar DG is good for Guam. It provides good & long term sustainable paying jobs. Changes will discourage homeowners to go solar. Initial intent of Net Metering Law – it enhances power gen system, encourages private investment in renewable resources and stimulation of economic growth. Changes are 100% against the true spirit of the law. All private solar companies encourages use distributed generated solar every day. With 1647 NEM customers \$ amount is upwards of \$50M of direct investment and trickles down and benefits the economy not to mention savings. PPA saves customers money 7 cents per kWh hour – translates to annually \$1000 x 979 PPA customers is \$1M savings per year. Recommends that CCU do not approve the recommended changes – its way too soon and too much at stake. Asks PUC to vote it down if CCU moves forward. Second – work with solar industry to benefit utility and the industry – coming together can only result in good.

**Chairman** – what triggered CCU to look at NEMS is mandate of PUC to review program after reaching 1,000 customers. Just want people to understand that GPA did not take this on – PUC was the one who mandated GPA to look into this program after hitting the 1,000 threshold. Decision is not rushed have been having meetings since 2016 and been very accommodating to give everyone a chance to give input. Input is very important.

**Rosario** – talked again about grid penetration; only less that 1% and why change now

**Chairman** – that is where the PUC comes in – they are the ones who are asking for this study. All we are doing is to give PUC GPA's input and it's up to them what to do. We are taking every opportunity to look at the other side and not kill the program. Wants to make sure that there is a balance. Wants to give those who invested in their system to recover their cost. CCU may make changes to what the GM recommends too. We want our records accurate, we haven't put anybody off



GM – why is the benchmark 1% such an important base. If you look at the total MW in system solar represents 20% during the daytime. Response – 10% is the average. In the US the penetration to the system is varied but they have thousands of generation that are absorbing the intermittency allowing for more penetration. It was said that Guam could have 15% penetration and the system would still be stable. NRG was put on and system fell apart. Those that said 15% have since backed off. Benchmarks from other places cannot be used on Guam. 120MW of renewable will be coming online with batteries to stabilize the system ; Phase III navy renewables is going to take all the energy of the daytime and store it and shave the peak because GPA cannot take anymore in the daytime. GPA is moving forward a step at a time to understand the system. GPA is not saying there's no opportunity for Net Metering. Just want to make it known that understanding the GPA system is a better way because it is a real world scenario.

#### **Jeff Voacolo / MRE**

Submitted written testimony from solar energy customers; Chairman would like to have submittal electronically; give to GPA and they will do the CCU distribution. Premature for GPA to make any change to net metering program. DG is changing quickly and independent study conducted by 3<sup>rd</sup> party says that Value of Solar (VOS) study contemplated multiple scenarios and utilization of solar to Guam's grid that most important consideration so to couple solar production with battery storage. NEM customers do not benefit the need for capacity. This year, MRE will be offering solar energy systems with battery storage. In 2019 existing customers will be retrofitted with storage systems. Now NEM customers will help GPA's grid more resilient and will assist GPA with peak loads at night when any excess energy can be deployed. With penetration so low there is no need to change the program now. To say that fixed cost should be recovered via fixed charges – he disagrees. To stay competitive, rates cannot be changes to stay competitive. According to CCU/GPA operations are in fine shape financially – they did not have to reduce work hours or to cut costs that other govguam agency have to do because of their efficient management of resources. With very low NEM penetration right now, there is no need to make any changes at this time. Slide 21 is very concerning to industry and have asked for calculations and data supporting the report. Cannot understand why GPA had segregated difference classes of finance structure while calculating NEM customers. NEM is a policy issue not a finance structure issue. GPA states that with 16636 kWh it will receive 30M kwh hours – 1,858 kwh hours per kwh installed this is impossible on Guam. They ran this report through PBWatts and PBSysReports and it comes closer to 23M 700 kWh hours roughly and actually matches MRE's systems. An average MRE system produces 1425kwh hours per kwh installed. Per report solar energy DG is declining. If so why is there a need to change NEM at this time especially with GPA's forecasted decline of LEAC rates by 2021. Slide 23/34 there's an intent to discredit PPA program or zero down structure by GPA. Does not see relevance – NEM is policy issue and not finance issue. On PPA's MRE can provide rate adjustment – they offer an energy production guarantee over a 20-25 year term. On Slide 35, bullet point #4 - “zero down customers with 2.9 escalators will occur higher costs over the life of their 25 year contract” – MRE believes this is an incorrect statement by the utility and should be taken out of the report. There's been a fallacy among all utilities of a cost shift from solar energy customers to non solar energy customers. Voacolo provided from Lawrence Berkeley National Laboratory disputing this fact – when solar energy is below 10% in any market there is no load shift. MRE suggests to CCU should extend any changes to the NEM program for 3 years and collect data to present their findings at that time. Slide 36 re sunseting customers at a phased in approach. There was never mention of any sunseting approach. This would hurt the industry at large. MRE wholehearted disagrees to change NEM at this time.

**Chairman**

Next CCU meeting is 7/24 and not sure if CCU will take this matter up. Anyone can send further comments to GPA via the Communication Office. This will be posted on the website.

**Q&A**

A couple of other questions were asked but the speakers were not at the conference table and their questions were inaudible.

X X X X X



## GUAM POWER AUTHORITY

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

GPA NET Metering - 18 July 2018/CCU 3<sup>rd</sup> Floor Board Conference Room/5:30p.m.

GPA GM

GPA Management Team

Public

Media

CCU Chairman – joins the meeting

John M. Benavente, P.E., GPA General Manager opened meeting at 5:30p.m.

GM provides information via a PowerPoint Presentation

21¢ - the avoided cost was 11.02¢

Approximately .10¢ kWh

ESS projects coming online will take care of intermittency issues currently impacting the system.

- \$0.0018 cost

- signing of contracts 2<sup>nd</sup> week of August 2018

- approximately 8.25¢/kwh

- this is of a 'utility scale' [meets RPS public law]

120 megawatt New plant

40 megawatt on Navy property

... the addition of renewable and the new power plant will help mitigate LEAC rates:

- There will be a drop in the LEAC
- New plant will burn efficient fuel: ULSD and LNG
- This will hedge against future rising fuel prices

Solar production with battery storage

Public:

"Penetration" – use real world scenario according to GPA's existing system.

Slide 21 – NEM is a policy issue, not a financial structure issue

MRE + 14.25¢ kWh

Slides 23 and 24 – are to 'discredit' the solar industry today

JB: explains

25¢

.9¢ - Base rate

15.4¢ - LEAC

9.4¢ kWh - Base rate pays debt, IPP

All GPA customers pay a portion of this  
In short, other customers have to pay more

1500

-1000

500 = GPA credits them the full 500 x .25¢

GPA, non-solar PV customers pay for/subsidize the full credit

All solar PV generated x .9¢ is approximately \$3.1M per year

3.1M x X years = goes to NM customers over the years and it will add up

GPA's role is to provide the CCU with all information on the issue

Policy call? – it could be

“avoided cost” is for GPA to present on behalf of all GPA customers

DSM helps everyone

---

“Balance” – GPA is looking to find a balance

Part of finding the “balance” is being open to the numbers and analyses

GPA to ‘phase in’ over 5-8 years to recoup the avoided cost



Discussion:

An example: in the late 1980s everyone was promoting for GPA to change all wooden poles to concrete poles. Concrete poles were costing 3x as much and to put all underground it would cost 10x as much

-People still said, “Just put it all underground!”

However, then GPA would have to raise its Base rate.

GPA continued with changing out wooden poles to concrete and adding secondary lines w/hybrid system

Approximately 90% of the system is hardened

25% of homes are on/in the hybrid system – key areas with load demand/higher density

Depends on cash flow, but also for GPA to not increase its debt

GPA's business planning is to not impact the rates, if possible.

\*Hard copy binder reports provided to GPA.

GPA Communications will receive emails or other public comments or testimony.

/pld



## GUAM POWER AUTHORITY

ATURIDAT ILEKTRESEDAT GUAHAN  
P.O.BOX 2977 • AGANA, GUAM U.S.A. 96932-2977

30 March 2018

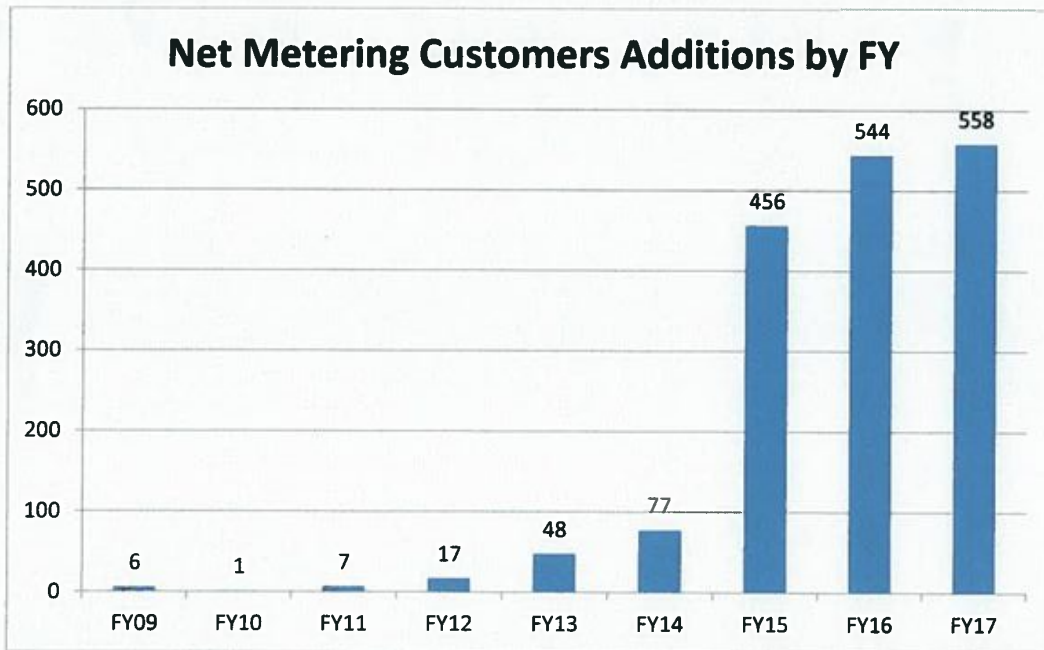
Mr. Frederick J. Horecky  
Administrative Law Judge  
Public Utilities Commission  
643 Chalan San Antonio, Suite 102B  
Tamuning, Guam 96913

**Subject: Docket 08-10 – Filing of Net Metering Data**

Dear Judge Horecky:

Attached herewith is a copy of the Guam Power Authority Net Metering report for the period ending September 30, 2017 as stipulated in the Interim Net Metering Rider.

The total amount of estimated negative impact on revenue from Net Metering for FY17 was \$3.29 million annualized representing about 2% of GPA's base rate revenues for the year. The graph below depicts the growth in the number of Net Metering customers in the last nine (9) fiscal years.



Net Metering – Docket 08-10  
30 March 2018  
Page 2

There were 558 additional customers added in Fiscal Year 2017 for a total of 1,714 customers to-date. The cumulative negative total base rate revenue impact is already at \$6.5 million from the inception of Net Metering.

Although, the Authority intended to file a new structure for NM last year, GPA took time to conduct a series of public hearings in order to receive concerns and issues from Net Metering customers and Solar PV providers. We plan to pursue this matter in the coming months and to file a petition relative to the rate design, customer equity and revenue impact.

Please do not hesitate to contact our office should you require further information regarding this filing. Thank you.

  
JK JOHN M. BENAVENTE, P.E.  
GENERAL MANAGER

cc: CFO 084 18  
Mr. John J.E. Kim, CFO

**Net Metering Customers  
As of September 30 2017**

Year	Count	Accumulated
FY09	6	
FY10	1	7
FY11	7	14
FY12	17	31
FY13	48	79
FY14	77	156
FY15	456	612
FY16	544	1156
FY17	558	1714
<b>Total</b>	<b>1,714</b>	

**ESTIMATED REVENUE LOSS  
As of September 30, 2017**

Year	ESTIMATED REVENUE LOSS	Accumulated
FY09	\$ 1,656.87	\$ 1,656.87
FY10	\$ 8,483.27	\$ 10,140.14
FY11	\$ 18,177.13	\$ 28,317.27
FY12	\$ 58,545.89	\$ 86,863.16
FY13	\$ 178,996.09	\$ 265,859.25
FY14	\$ 410,558.94	\$ 676,418.20
FY15	\$ 856,921.27	\$ 1,533,339.46
FY16	\$ 1,831,315.25	\$ 3,364,654.71
FY17	\$ 3,167,570.13	\$ 6,532,224.84
<b>Total</b>	<b>\$ 6,532,224.84</b>	

Rate Class	Customer Number	Service Agreement Number	Sum of Size (KW)	Sum of Days to FY 17	Estimated Annual Revenue Loss \$	FY 17 Estimated Revenue Loss \$	Net Credit to Grid (kWh)
ESGS-S (Rate Schedule S)	9157510000	9157510206	29.4	364	\$ 7,425.07	\$ 7,404.73	-
	9157510000	9157510208	20	364	\$ 5,051.07	\$ 5,037.23	-
	9157510000	9157510207	20	364	\$ 5,051.07	\$ 5,037.23	-
	9157510000	9157510209	20	364	\$ 5,051.07	\$ 5,037.23	-
	9503154359	9503154228	60	219	\$ 15,153.20	\$ 9,091.92	-
ESGS-S (Rate Schedule S)	5357510000	5357510480	2	364	\$ 555.97	\$ 554.45	-
	5357510000	5357510475	2	364	\$ 555.97	\$ 554.45	-
	5357510000	5357510474	6	364	\$ 1,667.91	\$ 1,663.34	(401.71)
	6995000000	6995000430	16	364	\$ 4,447.75	\$ 4,435.57	-
<b>Grand Totals</b>	<b>1714</b>				<b>\$ 3,287,729.07</b>	<b>\$ 3,167,570.13</b>	<b>(971,870.01)</b>

**Total Accumulated Revenue Loss From Inception****\$ 6,532,224.84**

164,649,406.00

2.00%



**GPA NET METERING CUSTOMERS (NMC)**  
**AS OF SEPTEMBER 30, 2017**

Rate Class	Customer Number	Service Agreement Number	Sum of Size (KW)	Sum of Days to FY 17	Estimated Annual Revenue Loss \$	FY 17 Estimated Revenue Loss \$	Net Credit to Grid (kWh)
<b>EGEND-J</b> (Rate Schedule J)	6103010000	6103010930	19.56	364	\$ 4,376.28	\$ 4,364.29	-
	5808510000	5808510737	45	364	\$ 10,068.12	\$ 10,040.54	-
	4270010000	4270010010	84	364	\$ 18,793.83	\$ 18,742.34	-
	433210000	0433210663	22	364	\$ 4,922.19	\$ 4,908.71	-
	8720000000	8720000575	58.5	364	\$ 13,088.56	\$ 13,052.70	(17,322.88)
	1321300000	1321300640	75	364	\$ 16,780.21	\$ 16,734.23	(15,421.20)
	6624100000	6624100235	48	364	\$ 10,739.33	\$ 10,709.91	(4,367.82)
	2004600000	2004600112	55.5	364	\$ 12,417.35	\$ 12,383.33	(816.16)
	4105000000	4105000098	34.4	364	\$ 7,696.52	\$ 7,675.43	(204.56)
	8180000000	8180000874	100	364	\$ 22,373.61	\$ 22,312.31	(74.04)
	4717100000	4717100850	3	364	\$ 671.21	\$ 669.37	-
	7909500000	7909500964	5.75	364	\$ 1,286.48	\$ 1,282.96	-
	9900510000	9900510974	10	364	\$ 2,237.36	\$ 2,231.23	-
	7650410000	7650410444	18	364	\$ 4,027.25	\$ 4,016.22	-
	6008510000	6008510549	19	364	\$ 4,250.99	\$ 4,239.34	-
	4187410000	4187410649	77	364	\$ 17,227.68	\$ 17,180.48	-
	4031400000	4031400472	20	364	\$ 4,474.72	\$ 4,462.46	-
	4960000000	4960000731	21	364	\$ 4,698.46	\$ 4,685.59	-
	2117200000	2117200519	25.15	364	\$ 5,626.96	\$ 5,611.55	-
	4190000000	4190000986	50	364	\$ 11,186.80	\$ 11,156.16	-
	4526000000	0452600785	53.55	364	\$ 11,981.07	\$ 11,948.24	-
	6982500000	6982500001	60	364	\$ 13,424.16	\$ 13,387.39	-
	2347110000	2347110964	75	364	\$ 16,780.21	\$ 16,734.23	-
	5238100000	5238100291	100	364	\$ 22,373.61	\$ 22,312.31	-
	1853000000	1853000134	100	364	\$ 22,373.61	\$ 22,312.31	-
	5961000000	5961000288	20	364	\$ 4,474.72	\$ 4,462.46	-
	9717210000	9717210719	25	364	\$ 5,593.40	\$ 5,578.08	-
	9920400000	9920400369	100	364	\$ 22,373.61	\$ 22,312.31	-
	3423500000	3423500788	100	364	\$ 22,373.61	\$ 22,312.31	-
	5353310000	5353310193	100	364	\$ 22,373.61	\$ 22,312.31	-
	9903000000	9903000135	11.4	364	\$ 2,550.59	\$ 2,543.60	-
	3137100000	3137100200	30	364	\$ 6,712.08	\$ 6,693.69	-
	2315200000	2315200806	49.7	364	\$ 11,119.68	\$ 11,089.22	-
	2560310000	2560310529	20	364	\$ 4,474.72	\$ 4,462.46	-
	3560310000	3560310530	10	364	\$ 2,237.36	\$ 2,231.23	-
	354997358	0354997362	60	364	\$ 13,424.16	\$ 13,387.39	-
	8901870472	8901870860	27	303	\$ 6,040.87	\$ 5,014.75	-
	9925218337	9925218882	23	287	\$ 5,145.93	\$ 4,046.25	-
<b>EGEN-G</b> (Rate Schedule G)	9860210000	9860210280	14.62	364	\$ 3,704.37	\$ 3,694.22	-
	7103010000	7103010931	4.73	364	\$ 1,198.47	\$ 1,195.19	(325.84)
	8103010000	8103010932	6.02	368	\$ 1,525.33	\$ 1,537.86	(77.17)
	7750300000	7750300210	50	364	\$ 12,668.83	\$ 12,634.12	(12,513.42)
	30400000	0030400096	14	364	\$ 3,547.27	\$ 3,537.55	(11,438.79)
	4685200000	4685200387	15	364	\$ 3,800.65	\$ 3,790.24	(5,699.28)
	2585100000	2585100074	21	364	\$ 5,320.91	\$ 5,306.33	(5,469.41)
	3458700000	3458700138	25	364	\$ 6,334.42	\$ 6,317.06	(4,615.08)
	906210000	0906210853	20	364	\$ 5,067.53	\$ 5,053.65	(2,256.25)
	5554300000	5554300263	8.3	364	\$ 2,103.03	\$ 2,097.26	(1,837.44)
	1975100000	1975100116	8.75	364	\$ 2,217.05	\$ 2,210.97	(1,102.39)
	4812110000	4812110018	12	364	\$ 3,040.52	\$ 3,032.19	(520.75)
	9319210000	9319210024	6	364	\$ 1,520.26	\$ 1,516.09	(402.58)
	6766100000	6766100668	25	364	\$ 6,334.42	\$ 6,317.06	(271.58)
	2462010000	2462010963	1	364	\$ 253.38	\$ 252.68	(69.25)
	1676100000	1676100964	5	364	\$ 1,266.88	\$ 1,263.41	(59.09)

Rate Class	Customer Number	Service Agreement Number	Sum of Size (KW)	Sum of Days to FY 17	Estimated Annual Revenue Loss \$	FY 17 Estimated Revenue Loss \$	Net Credit to Grid (kWh)
	3694000000	3694000776	11.4	364	\$ 2,888.49	\$ 2,880.58	(7.42)
	4697600000	4697600097	1	364	\$ 253.38	\$ 252.68	-
	3997600000	3997600131	1	364	\$ 253.38	\$ 252.68	-
	7701000000	7701000173	2.5	364	\$ 633.44	\$ 631.71	-
	6385310000	6385310862	5	364	\$ 1,266.88	\$ 1,263.41	-
	1808300000	1808300995	8.92	364	\$ 2,260.12	\$ 2,253.93	-
	9354300000	9354300245	9	364	\$ 2,280.39	\$ 2,274.14	-
	4692300000	4692300191	10	364	\$ 2,533.77	\$ 2,526.82	-
	7386310000	7386310943	10.75	364	\$ 2,723.80	\$ 2,716.34	-
	7694000000	7694000177	11.45	364	\$ 2,901.16	\$ 2,893.21	-
	5400500000	5400500773	14.4	364	\$ 3,648.62	\$ 3,638.63	-
	4494200000	4494200409	14.57	364	\$ 3,691.70	\$ 3,681.58	-
	8520010000	8520010114	15	364	\$ 3,800.65	\$ 3,790.24	-
	7763400000	7763400676	19	364	\$ 4,814.16	\$ 4,800.97	-
	9060410000	9060410497	23.6	364	\$ 5,979.69	\$ 5,963.31	-
	7932500000	7932500839	25	364	\$ 6,334.42	\$ 6,317.06	-
	6391000000	6391000553	36	364	\$ 9,121.56	\$ 9,096.57	-
	2384410000	2384410889	80	364	\$ 20,270.13	\$ 20,214.60	-
	2513800000	2513800423	1	364	\$ 253.38	\$ 252.68	-
	1240210000	1240210793	42.5	363	\$ 10,768.51	\$ 10,709.50	-
	6251100000	6251100079	3.6	335	\$ 912.16	\$ 837.18	-
ELGS-L (Rate Schedule L)	5357510000	5357510478	22.8	364	\$ 5,349.23	\$ 5,334.58	-
ELPS-P (Rate Schedule P)	7727100000	7727100163	82	364	\$ 15,965.67	\$ 15,921.92	-
	3327100000	3327100913	98.7	364	\$ 19,217.21	\$ 19,164.56	-
	7942200000	7942200411	60	364	\$ 11,682.19	\$ 11,650.19	-
ERES-R (Rate Schedule R)	9544000000	9544000197	4.3	364	\$ 771.02	\$ 768.90	(199.14)
	1724500000	1724500979	12.9	364	\$ 2,313.05	\$ 2,306.71	-
	2188321640	2188321528	23	364	\$ 4,124.04	\$ 4,112.74	(32.61)
	4120200000	4120200177	9.46	364	\$ 1,696.23	\$ 1,691.59	-
	4584210000	4584210090	11	364	\$ 1,972.37	\$ 1,966.96	(2,390.28)
	4959000000	4959000554	6	364	\$ 1,075.84	\$ 1,072.89	-
	8440100000	8440100480	6.23	364	\$ 1,117.08	\$ 1,114.02	(89.10)
	9176600000	9176600788	11.39	364	\$ 2,042.29	\$ 2,036.70	(1.53)
	6063000000	6063000163	10.75	364	\$ 1,927.54	\$ 1,922.26	(6,808.03)
	7308300000	7308300941	9.89	364	\$ 1,773.34	\$ 1,768.48	-
	8054500000	8054500451	10	364	\$ 1,793.06	\$ 1,788.15	-
	3941100000	3941100041	4.08	364	\$ 731.57	\$ 729.56	-
	1874100000	1874100830	14.62	364	\$ 2,621.45	\$ 2,614.27	-
	6260100000	6260100291	8.2	364	\$ 1,470.31	\$ 1,466.28	(12,309.46)
	7335410000	7335410266	4.515	364	\$ 809.57	\$ 807.35	(299.28)
	5392700000	5392700381	6.4	364	\$ 1,147.56	\$ 1,144.41	-
	9820100000	9820100291	6.45	364	\$ 1,156.52	\$ 1,153.35	-
	7870410000	7870410935	7	364	\$ 1,255.14	\$ 1,251.70	-
	1847522894	1847522226	13.11	364	\$ 2,350.70	\$ 2,344.26	(13,435.00)
	4938100000	4938100368	14.62	364	\$ 2,621.45	\$ 2,614.27	(221.81)
	3216010000	3216010036	5.25	364	\$ 941.36	\$ 938.78	(54.99)
	6372100000	6372100031	10.53	364	\$ 1,888.09	\$ 1,882.92	-
	5550000000	5550000911	11.18	364	\$ 2,004.64	\$ 1,999.15	(2,454.85)
	5040000000	5040000735	9.32	364	\$ 1,671.13	\$ 1,666.55	(2,314.71)
	6887500000	6887500277	17.2	364	\$ 3,084.06	\$ 3,075.61	(1,930.17)
	5539100000	5539100498	7.74	364	\$ 1,387.83	\$ 1,384.03	(1,203.88)
	6360000000	6360000668	8.6	364	\$ 1,542.03	\$ 1,537.81	(688.00)
	7756210000	7756210434	10	364	\$ 1,793.06	\$ 1,788.15	(396.18)
	6660000000	6660000699	7.31	364	\$ 1,310.73	\$ 1,307.14	(109.64)
	9335410000	9335410269	4.94	364	\$ 885.77	\$ 883.34	(61.12)
	3350000000	3350000886	3	364	\$ 537.92	\$ 536.44	-
	3828300000	3828300868	4.73	364	\$ 848.12	\$ 845.79	-

Rate Class	Customer Number	Service Agreement Number	Sum of Size (KW)	Sum of Days to FY 17	Estimated Annual Revenue Loss \$	FY 17 Estimated Revenue Loss \$	Net Credit to Grid (kWh)
	7023210000	7023210323	6.45	364	\$ 1,156.52	\$ 1,153.35	-
	8140000000	8140000751	7.74	364	\$ 1,387.83	\$ 1,384.03	-
	5856410000	5856410347	8.6	364	\$ 1,542.03	\$ 1,537.81	-
	5560000000	5560000621	8.81	364	\$ 1,579.69	\$ 1,575.36	-
	7010500000	7010500849	9.89	364	\$ 1,773.34	\$ 1,768.48	-
	8813900000	8813900735	10	364	\$ 1,793.06	\$ 1,788.15	-
	3140000000	3140000744	8.81	364	\$ 1,579.69	\$ 1,575.36	-
	3021000000	3021000725	10.75	364	\$ 1,927.54	\$ 1,922.26	-
	4602400000	4602400310	11.61	364	\$ 2,081.74	\$ 2,076.04	-
	7842700000	7842700512	8.5	364	\$ 1,524.10	\$ 1,519.92	-
	6116500000	6116500801	8.81	364	\$ 1,579.69	\$ 1,575.36	-
	7474000000	0747400554	10.32	364	\$ 1,850.44	\$ 1,845.37	-
	3335410000	3335410260	5.37	364	\$ 962.87	\$ 960.23	-
	5899200000	5899200765	13.76	364	\$ 2,467.25	\$ 2,460.49	(9,323.91)
	9001200000	9001200128	6.25	364	\$ 1,120.66	\$ 1,117.59	(971.45)
	9894310000	9894310841	7.31	364	\$ 1,310.73	\$ 1,307.14	-
	4466400000	4466400829	8.3	364	\$ 1,488.24	\$ 1,484.16	-
	7504900000	7504900717	14	364	\$ 2,510.28	\$ 2,503.41	-
	2831000000	0283100721	10.85	364	\$ 1,945.47	\$ 1,940.14	-
	2335310000	2335310649	15.69	364	\$ 2,813.31	\$ 2,805.60	-
	1823010000	1823010417	15	364	\$ 2,689.59	\$ 2,682.22	-
	2067200000	2067200656	6	364	\$ 1,075.84	\$ 1,072.89	-
	7103000000	7103000043	11.68	364	\$ 2,094.29	\$ 2,088.56	-
	5283300000	5283300121	7.74	364	\$ 1,387.83	\$ 1,384.03	-
	4362224516	4362224257	6.45	364	\$ 1,156.52	\$ 1,153.35	(65,620.39)
	7793510000	7793510314	8.6	364	\$ 1,542.03	\$ 1,537.81	(1,156.78)
	7097400000	7097400623	2	364	\$ 358.61	\$ 357.63	-
	6252500000	6252500179	8.17	364	\$ 1,464.93	\$ 1,460.92	-
	4966444129	4966444733	10.1	364	\$ 1,810.99	\$ 1,806.03	-
	8312500000	8312500362	14.62	364	\$ 2,621.45	\$ 2,614.27	-
	2920800000	2920800911	5	364	\$ 896.53	\$ 894.07	-
	8713000000	8713000226	9.46	364	\$ 1,696.23	\$ 1,691.59	(7,710.15)
	7723000000	7723000350	6.67	364	\$ 1,195.97	\$ 1,192.69	(1,784.39)
	7882000000	7882000582	6.66	364	\$ 1,194.18	\$ 1,190.91	(1,145.26)
	4582100000	0458210732	8.6	364	\$ 1,542.03	\$ 1,537.81	(919.16)
	5182100000	0518210547	7.95	364	\$ 1,425.48	\$ 1,421.58	(467.78)
	5562945100	5562945031	7.95	364	\$ 1,425.48	\$ 1,421.58	-
	2386200000	2386200582	7.31	364	\$ 1,310.73	\$ 1,307.14	-
	5113000000	5113000152	6.23	364	\$ 1,117.08	\$ 1,114.02	-
	4523000000	4523000320	10.53	364	\$ 1,888.09	\$ 1,882.92	-
	1574000000	1574000540	10.96	364	\$ 1,965.19	\$ 1,959.81	-
	7841410000	7841410675	14.62	364	\$ 2,621.45	\$ 2,614.27	(5,467.30)
	4424000000	4424000947	8.6	364	\$ 1,542.03	\$ 1,537.81	(2,517.47)
	2721200000	2721200626	12.04	364	\$ 2,158.84	\$ 2,152.93	(2,098.91)
	4447110000	4447110977	6.02	364	\$ 1,079.42	\$ 1,076.46	(1,976.72)
	4632010000	4632010477	10.1	364	\$ 1,810.99	\$ 1,806.03	(1,810.11)
	3925200000	3925200174	5.37	364	\$ 962.87	\$ 960.23	(1,675.69)
	7024000000	7024000900	7.52	364	\$ 1,348.38	\$ 1,344.69	(1,661.84)
	2854000000	2854000339	5.8	364	\$ 1,039.97	\$ 1,037.13	(1,506.78)
	8243000000	0824300765	8.17	364	\$ 1,464.93	\$ 1,460.92	(1,489.36)
	3744000000	3744000213	10.97	364	\$ 1,966.99	\$ 1,961.60	(1,078.92)
	4040600000	4040600741	9.67	364	\$ 1,733.89	\$ 1,729.14	(1,013.67)
	9593000000	9593000595	7	364	\$ 1,255.14	\$ 1,251.70	(864.89)
	3661200000	3661200522	8.17	364	\$ 1,464.93	\$ 1,460.92	(833.31)
	3263000000	3263000182	7.31	364	\$ 1,310.73	\$ 1,307.14	(800.25)
	1154000000	1154000257	14.62	364	\$ 2,621.45	\$ 2,614.27	(499.13)
	2474000000	2474000530	7.09	364	\$ 1,271.28	\$ 1,267.80	(484.68)
	1105000000	1105000840	6.02	364	\$ 1,079.42	\$ 1,076.46	(422.95)

Rate Class	Customer Number	Service Agreement Number	Sum of Size (KW)	Sum of Days to FY 17	Estimated Annual Revenue Loss \$	FY 17 Estimated Revenue Loss \$	Net Credit to Grid (kWh)
	2524000000	2524000956	11.82	364	\$ 2,119.40	\$ 2,113.59	(403.47)
	6791510000	6791510200	4.94	364	\$ 885.77	\$ 883.34	(383.36)
	4844000000	4844000226	11.4	364	\$ 2,044.09	\$ 2,038.49	(218.19)
	6060500000	6060500005	10	364	\$ 1,793.06	\$ 1,788.15	(160.33)
	7235300000	7235300081	3.65	364	\$ 654.47	\$ 652.67	(111.51)
	3644000000	3644000202	9.46	364	\$ 1,696.23	\$ 1,691.59	(45.62)
	5984000000	5984000698	3.44	364	\$ 616.81	\$ 615.12	-
	4985310000	4985310129	4.51	364	\$ 808.67	\$ 806.45	-
	6043000000	6043000059	4.94	364	\$ 885.77	\$ 883.34	-
	8945900000	8945900065	5.16	364	\$ 925.22	\$ 922.68	-
	7634251318	7634251492	6.23	364	\$ 1,117.08	\$ 1,114.02	-
	3236310000	3236310061	6.45	364	\$ 1,156.52	\$ 1,153.35	-
	2715000000	2715000994	11	364	\$ 1,972.37	\$ 1,966.96	-
	9973410000	9973410524	7.31	364	\$ 1,310.73	\$ 1,307.14	-
	5484000000	5484000642	7.52	364	\$ 1,348.38	\$ 1,344.69	-
	3915000000	3915000021	7.52	364	\$ 1,348.38	\$ 1,344.69	-
	3874210000	3874210819	8.6	364	\$ 1,542.03	\$ 1,537.81	-
	7074200000	7074200944	9.67	364	\$ 1,733.89	\$ 1,729.14	-
	7271500000	7271500303	11.18	364	\$ 2,004.64	\$ 1,999.15	-
	7837310000	7837310219	12.04	364	\$ 2,158.84	\$ 2,152.93	-
	6845900000	6845900053	12.25	364	\$ 2,196.50	\$ 2,190.48	-
	9823110000	9823110369	12.68	364	\$ 2,273.60	\$ 2,267.37	-
	6051100000	0605110535	6.45	364	\$ 1,156.52	\$ 1,153.35	-
	3763000000	3763000239	11	364	\$ 1,972.37	\$ 1,966.96	-
	3022500000	3022500433	12.68	364	\$ 2,273.60	\$ 2,267.37	-
	498984712	0498984286	9.03	364	\$ 1,619.13	\$ 1,614.70	-
	6540000000	0654000312	9.89	364	\$ 1,773.34	\$ 1,768.48	-
	2481310000	2481310162	14.19	364	\$ 2,544.35	\$ 2,537.38	-
	9730000000	0973000382	9.67	364	\$ 1,733.89	\$ 1,729.14	(226.25)
	2433000000	0243300285	12.47	364	\$ 2,235.94	\$ 2,229.82	-
	7470020072	7470020807	11.82	364	\$ 2,119.40	\$ 2,113.59	(824.52)
	9854000000	9854000347	12.47	364	\$ 2,235.94	\$ 2,229.82	-
	7800200000	7800200042	17.63	364	\$ 3,161.16	\$ 3,152.50	(2,912.99)
	8883000000	0888300328	10.1	364	\$ 1,810.99	\$ 1,806.03	(2,180.97)
	7856200000	7856200398	5.8	364	\$ 1,039.97	\$ 1,037.13	(102.60)
	6455000000	6455000428	6.23	364	\$ 1,117.08	\$ 1,114.02	-
	3610800000	3610800579	7.09	364	\$ 1,271.28	\$ 1,267.80	-
	3634350304	3634350638	7.95	364	\$ 1,425.48	\$ 1,421.58	-
	8625000000	8625000109	8.6	364	\$ 1,542.03	\$ 1,537.81	-
	8505800000	8505800685	10.1	364	\$ 1,810.99	\$ 1,806.03	-
	2206600000	2206600265	7.52	364	\$ 1,348.38	\$ 1,344.69	-
	1335841942	1335841337	8.17	364	\$ 1,464.93	\$ 1,460.92	-
	2347700000	2347700077	10.75	364	\$ 1,927.54	\$ 1,922.26	-
	9243010000	9243010774	6.88	364	\$ 1,233.62	\$ 1,230.24	(638.01)
	4131310177	4131310359	12.68	364	\$ 2,273.60	\$ 2,267.37	(1,026.85)
	7536000000	7536000314	13.76	364	\$ 2,467.25	\$ 2,460.49	(780.10)
	8625510000	8625510809	5.37	364	\$ 962.87	\$ 960.23	(344.99)
	9027600000	9027600919	9.89	364	\$ 1,773.34	\$ 1,768.48	(64.24)
	5403410000	5403410504	9.67	364	\$ 1,733.89	\$ 1,729.14	(20.15)
	1795628960	1795628071	1.75	364	\$ 313.79	\$ 312.93	-
	3536000000	3536000310	6.45	364	\$ 1,156.52	\$ 1,153.35	-
	6206000000	6206000462	10.1	364	\$ 1,810.99	\$ 1,806.03	-
	8595000000	8595000387	12.9	364	\$ 2,313.05	\$ 2,306.71	-
	5813000000	0581300922	4.3	364	\$ 771.02	\$ 768.90	-
	1357410000	1357410817	5.16	364	\$ 925.22	\$ 922.68	-
	2198200000	2198200404	7.74	364	\$ 1,387.83	\$ 1,384.03	-
	7154662758	7154662706	5.37	364	\$ 962.87	\$ 960.23	(691.85)
	7157000000	7157000775	15.69	364	\$ 2,813.31	\$ 2,805.60	(8,360.93)

Rate Class	Customer Number	Service Agreement Number	Sum of Size (KW)	Sum of Days to FY 17	Estimated Annual Revenue Loss \$	FY 17 Estimated Revenue Loss \$	Net Credit to Grid (kWh)
	2212400000	2212400376	15.05	364	\$ 2,698.55	\$ 2,691.16	(1,774.07)
	3945510000	3945510808	3.66	364	\$ 656.26	\$ 654.46	(633.41)
	4008500000	4008500593	4.73	364	\$ 848.12	\$ 845.79	-
	7007000000	7007000110	5.35	364	\$ 959.29	\$ 956.66	-
	3997100000	3997100512	5.37	364	\$ 962.87	\$ 960.23	-
	5830310000	5830310010	6.88	364	\$ 1,233.62	\$ 1,230.24	-
	7698100000	7698100659	7.09	364	\$ 1,271.28	\$ 1,267.80	-
	4728100000	4728100035	7.31	364	\$ 1,310.73	\$ 1,307.14	-
	9599900000	9599900415	7.5	364	\$ 1,344.79	\$ 1,341.11	-
	7196000000	7196000993	9.89	364	\$ 1,773.34	\$ 1,768.48	-
	3090100000	0309010803	6.88	364	\$ 1,233.62	\$ 1,230.24	-
	2126400000	2126400773	7.09	364	\$ 1,271.28	\$ 1,267.80	-
	5356000000	5356000526	13.3	364	\$ 2,384.77	\$ 2,378.24	-
	3025500000	3025500843	16.4	364	\$ 2,940.62	\$ 2,932.56	-
	9565800000	9565800891	8.6	364	\$ 1,542.03	\$ 1,537.81	-
	8244310000	8244310567	5.37	364	\$ 962.87	\$ 960.23	-
	8176000000	0817600886	8.6	364	\$ 1,542.03	\$ 1,537.81	(1,289.16)
	1758000000	1758000317	5.59	364	\$ 1,002.32	\$ 999.57	(976.41)
	8293010000	8293010048	17.84	364	\$ 3,198.82	\$ 3,190.05	(953.64)
	5321110000	5321110076	28.38	364	\$ 5,088.70	\$ 5,074.76	(922.37)
	5100110000	5100110802	4.73	364	\$ 848.12	\$ 845.79	(571.79)
	2077000000	2077000726	6.02	364	\$ 1,079.42	\$ 1,076.46	(378.29)
	2726200000	2726200405	10	364	\$ 1,793.06	\$ 1,788.15	(94.37)
	9931010000	9931010288	4.73	364	\$ 848.12	\$ 845.79	-
	2557300000	2557300816	4.73	364	\$ 848.12	\$ 845.79	-
	6380770473	6380770629	5.8	364	\$ 1,039.97	\$ 1,037.13	-
	6876110000	6876110553	6.67	364	\$ 1,195.97	\$ 1,192.69	-
	7367000000	7367000647	6.88	364	\$ 1,233.62	\$ 1,230.24	-
	3516400000	3516400708	7.09	364	\$ 1,271.28	\$ 1,267.80	-
	7967000000	7967000721	7.31	364	\$ 1,310.73	\$ 1,307.14	-
	3529100000	3529100381	8.6	364	\$ 1,542.03	\$ 1,537.81	-
	7638000000	7638000048	9.03	364	\$ 1,619.13	\$ 1,614.70	-
	4090200000	4090200806	9.89	364	\$ 1,773.34	\$ 1,768.48	-
	8649100000	8649100824	10.53	364	\$ 1,888.09	\$ 1,882.92	-
	5888100000	5888100565	10.75	364	\$ 1,927.54	\$ 1,922.26	-
	7178000000	7178000493	14	364	\$ 2,510.28	\$ 2,503.41	-
	3183900000	3183900964	10.53	364	\$ 1,888.09	\$ 1,882.92	-
	1997000000	1997000116	11	364	\$ 1,972.37	\$ 1,966.96	-
	6687000000	6687000947	16.77	364	\$ 3,006.96	\$ 2,998.72	-
	6239210000	6239210623	9.67	364	\$ 1,733.89	\$ 1,729.14	-
	6063200000	6063200394	7.74	364	\$ 1,387.83	\$ 1,384.03	-
	6296300000	6296300607	9	364	\$ 1,613.75	\$ 1,609.33	-
	5476224825	5476224138	7.74	364	\$ 1,387.83	\$ 1,384.03	-
	5421010000	5421010940	19.89	364	\$ 3,566.39	\$ 3,556.62	-
	1149400000	1149400281	8.81	364	\$ 1,579.69	\$ 1,575.36	-
	2491200000	2491200219	8.17	364	\$ 1,464.93	\$ 1,460.92	-
	2907000000	0290700626	9.25	364	\$ 1,658.58	\$ 1,654.04	-
	1589100000	1589100659	11.18	364	\$ 2,004.64	\$ 1,999.15	-
	4993000000	0499300576	6.45	364	\$ 1,156.52	\$ 1,153.35	(2,216.12)
	6461100000	6461100658	9.89	364	\$ 1,773.34	\$ 1,768.48	(1,243.29)
	1874110000	1874110842	49.7	364	\$ 8,911.50	\$ 8,887.09	(1,010.46)
	1744200000	1744200301	6.88	364	\$ 1,233.62	\$ 1,230.24	(563.05)
	7136600000	7136600980	7.31	364	\$ 1,310.73	\$ 1,307.14	(534.81)
	4610100000	4610100153	11.39	364	\$ 2,042.29	\$ 2,036.70	(526.31)
	6132500000	6132500754	7.6	364	\$ 1,362.72	\$ 1,358.99	(174.14)
	7605100000	0760510735	9.24	364	\$ 1,656.79	\$ 1,652.25	(170.88)
	7483200000	7483200040	9.24	364	\$ 1,656.79	\$ 1,652.25	(158.31)
	8295200000	8295200656	8.6	364	\$ 1,542.03	\$ 1,537.81	(99.77)

Rate Class	Customer Number	Service Agreement Number	Sum of Size (KW)	Sum of Days to FY 17	Estimated Annual Revenue Loss \$	FY 17 Estimated Revenue Loss \$	Net Credit to Grid (kWh)
	4000100000	4000100948	1.2	364	\$ 215.17	\$ 214.58	-
	5989000000	5989000921	4.08	364	\$ 731.57	\$ 729.56	-
	8379000000	8379000728	4.3	364	\$ 771.02	\$ 768.90	-
	2159706313	2159706626	5.16	364	\$ 925.22	\$ 922.68	-
	4994500000	4994500405	5.8	364	\$ 1,039.97	\$ 1,037.13	-
	6210100000	6210100104	6.45	364	\$ 1,156.52	\$ 1,153.35	-
	7094600000	7094600084	6.88	364	\$ 1,233.62	\$ 1,230.24	-
	6182510000	6182510174	7	364	\$ 1,255.14	\$ 1,251.70	-
	2947100000	2947100303	7.09	364	\$ 1,271.28	\$ 1,267.80	-
	8401100000	8401100453	7.52	364	\$ 1,348.38	\$ 1,344.69	-
	6902900000	6902900129	8.17	364	\$ 1,464.93	\$ 1,460.92	-
	9431100000	9431100850	8.17	364	\$ 1,464.93	\$ 1,460.92	-
	8930100000	8930100419	11.82	364	\$ 2,119.40	\$ 2,113.59	-
	9109000000	9109000868	12	364	\$ 2,151.67	\$ 2,145.78	-
	8101000000	0810100171	6	364	\$ 1,075.84	\$ 1,072.89	-
	8764600000	8764600650	6.88	364	\$ 1,233.62	\$ 1,230.24	-
	6663000000	0666300922	10.75	364	\$ 1,927.54	\$ 1,922.26	-
	82510000	0082510151	5.59	364	\$ 1,002.32	\$ 999.57	(622.56)
	2886000000	0288600012	4.51	364	\$ 808.67	\$ 806.45	(131.69)
	9494200000	9494200414	5.37	364	\$ 962.87	\$ 960.23	-
	7251700000	7251700871	10.75	364	\$ 1,927.54	\$ 1,922.26	(1,116.83)
	1980600000	1980600214	6.23	364	\$ 1,117.08	\$ 1,114.02	(566.81)
	3061411209	3061411721	12	364	\$ 2,151.67	\$ 2,145.78	(361.50)
	3000400000	3000400651	4.08	364	\$ 731.57	\$ 729.56	(21.30)
	1508600000	1508600381	1.5	364	\$ 268.96	\$ 268.22	-
	9384200000	9384200093	4.08	364	\$ 731.57	\$ 729.56	-
	3668400000	3668400155	4.73	364	\$ 848.12	\$ 845.79	-
	9123110000	9123110292	4.73	364	\$ 848.12	\$ 845.79	-
	1950100000	1950100451	4.94	364	\$ 885.77	\$ 883.34	-
	3370200000	3370200405	7.52	364	\$ 1,348.38	\$ 1,344.69	-
	3751510000	3751510179	9.24	364	\$ 1,656.79	\$ 1,652.25	-
	9160100000	9160100487	10.75	364	\$ 1,927.54	\$ 1,922.26	-
	9770100000	9770100702	10.75	364	\$ 1,927.54	\$ 1,922.26	-
	7255400000	7255400215	11.39	364	\$ 2,042.29	\$ 2,036.70	-
	7611100000	7611100609	11.39	364	\$ 2,042.29	\$ 2,036.70	-
	6281400000	6281400662	12	364	\$ 2,151.67	\$ 2,145.78	-
	1511000000	0151100062	5.16	364	\$ 925.22	\$ 922.68	-
	2092510000	2092510520	7.5	364	\$ 1,344.79	\$ 1,341.11	-
	3192600000	3192600750	9.24	364	\$ 1,656.79	\$ 1,652.25	-
	3900200000	3900200048	12.47	364	\$ 2,235.94	\$ 2,229.82	-
	5675700000	5675700570	14.62	364	\$ 2,621.45	\$ 2,614.27	-
	6469414557	6469414014	7	364	\$ 1,255.14	\$ 1,251.70	-
	5032100000	5032100497	11.18	364	\$ 2,004.64	\$ 1,999.15	(10,504.53)
	5792100000	5792100331	9.03	364	\$ 1,619.13	\$ 1,614.70	(1,626.92)
	6881116550	6881116100	6.66	364	\$ 1,194.18	\$ 1,190.91	(1,309.24)
	8764400000	8764400896	11.18	364	\$ 2,004.64	\$ 1,999.15	(1,113.91)
	6582100000	6582100183	16.4	364	\$ 2,940.62	\$ 2,932.56	(883.32)
	2953900000	2953900544	6.88	364	\$ 1,233.62	\$ 1,230.24	(44.51)
	2015510000	2015510349	3	364	\$ 537.92	\$ 536.44	-
	5991100000	5991100100	4.73	364	\$ 848.12	\$ 845.79	-
	7378010000	7378010879	6.02	364	\$ 1,079.42	\$ 1,076.46	-
	5006900000	5006900995	6.45	364	\$ 1,156.52	\$ 1,153.35	-
	5942100000	5942100732	6.45	364	\$ 1,156.52	\$ 1,153.35	-
	9062100000	9062100878	8	364	\$ 1,434.45	\$ 1,430.52	-
	5352100000	5352100782	8	364	\$ 1,434.45	\$ 1,430.52	-
	9905510000	9905510345	8	364	\$ 1,434.45	\$ 1,430.52	-
	6092100000	6092100248	9.03	364	\$ 1,619.13	\$ 1,614.70	-
	8888210000	8888210862	9.24	364	\$ 1,656.79	\$ 1,652.25	-



Rate Class	Customer Number	Service Agreement Number	Sum of Size (KW)	Sum of Days to FY 17	Estimated Annual Revenue Loss \$	FY 17 Estimated Revenue Loss \$	Net Credit to Grid (kWh)
	6788110000	6788110259	11.39	364	\$ 2,042.29	\$ 2,036.70	-
	5594400000	5594400492	11.39	364	\$ 2,042.29	\$ 2,036.70	-
	6742100000	6742100709	13.97	364	\$ 2,504.90	\$ 2,498.04	-
	8062100000	8062100877	20	364	\$ 3,586.12	\$ 3,576.29	-
	9548288262	9548288455	24.5	364	\$ 4,393.00	\$ 4,380.96	-
	1112100000	1112100248	9.24	364	\$ 1,656.79	\$ 1,652.25	-
	1710200000	1710200132	8.6	364	\$ 1,542.03	\$ 1,537.81	-
	2941900000	2941900901	10	364	\$ 1,793.06	\$ 1,788.15	-
	3417200000	3417200557	11.82	364	\$ 2,119.40	\$ 2,113.59	-
	6100073303	6100073932	13.54	364	\$ 2,427.80	\$ 2,421.15	-
	5036310000	5036310016	12.9	364	\$ 2,313.05	\$ 2,306.71	-
	7559800000	7559800007	5.16	364	\$ 925.22	\$ 922.68	-
	5500000	0005500412	6.45	364	\$ 1,156.52	\$ 1,153.35	-
	5244000000	0524400919	8.81	364	\$ 1,579.69	\$ 1,575.36	-
	1892100000	1892100339	13.51	364	\$ 2,422.42	\$ 2,415.79	-
	3621000000	0362100902	12.68	364	\$ 2,273.60	\$ 2,267.37	(1,327.86)
	3662200000	3662200305	13.76	364	\$ 2,467.25	\$ 2,460.49	(4,961.49)
	5514200000	5514200759	11.18	364	\$ 2,004.64	\$ 1,999.15	(2,665.36)
	9853100000	9853100441	13.76	364	\$ 2,467.25	\$ 2,460.49	(515.31)
	4051510000	4051510079	8.81	364	\$ 1,579.69	\$ 1,575.36	(242.75)
	7055300000	7055300482	10.53	364	\$ 1,888.09	\$ 1,882.92	(147.01)
	4632310000	4632310390	6.66	364	\$ 1,194.18	\$ 1,190.91	-
	3159100000	3159100873	7.31	364	\$ 1,310.73	\$ 1,307.14	-
	8563100000	8563100528	7.31	364	\$ 1,310.73	\$ 1,307.14	-
	9439100000	9439100492	7.74	364	\$ 1,387.83	\$ 1,384.03	-
	7123100000	7123100418	8.17	364	\$ 1,464.93	\$ 1,460.92	-
	6621110000	6621110304	9.67	364	\$ 1,733.89	\$ 1,729.14	-
	9933100000	9933100225	9.89	364	\$ 1,773.34	\$ 1,768.48	-
	6777300000	6777300461	13.11	364	\$ 2,350.70	\$ 2,344.26	-
	2608900000	2608900531	17	364	\$ 3,048.20	\$ 3,039.85	-
	3249300000	3249300528	13.33	364	\$ 2,390.15	\$ 2,383.60	-
	4328100000	4328100991	4.08	364	\$ 731.57	\$ 729.56	-
	5455100000	0545510675	12.9	364	\$ 2,313.05	\$ 2,306.71	-
	7388110000	7388110213	7.74	364	\$ 1,387.83	\$ 1,384.03	(1,208.30)
	5124100000	5124100176	11.82	364	\$ 2,119.40	\$ 2,113.59	(2,916.77)
	2711510000	2711510140	8.6	364	\$ 1,542.03	\$ 1,537.81	(1,886.82)
	1648800000	1648800683	15.69	364	\$ 2,813.31	\$ 2,805.60	(1,236.67)
	3139300000	3139300205	7.09	364	\$ 1,271.28	\$ 1,267.80	(996.53)
	8183100000	8183100719	4.51	364	\$ 808.67	\$ 806.45	(972.39)
	9000300000	9000300986	11.61	364	\$ 2,081.74	\$ 2,076.04	(384.04)
	2798300000	2798300428	15.48	364	\$ 2,775.66	\$ 2,768.05	(323.69)
	9254100000	9254100536	16.34	364	\$ 2,929.86	\$ 2,921.83	(228.80)
	3354100000	3354100537	10.32	364	\$ 1,850.44	\$ 1,845.37	(218.16)
	7544100000	7544100451	8.81	364	\$ 1,579.69	\$ 1,575.36	(213.69)
	7762400000	7762400470	8.38	364	\$ 1,502.58	\$ 1,498.47	(122.98)
	8064100000	0806410070	9.03	364	\$ 1,619.13	\$ 1,614.70	(111.98)
	5714100000	5714100128	11.39	364	\$ 2,042.29	\$ 2,036.70	(67.81)
	1044100000	1044100387	8.6	364	\$ 1,542.03	\$ 1,537.81	(36.72)
	4096700000	4096700123	10.75	364	\$ 1,927.54	\$ 1,922.26	(14.33)
	5260310000	5260310499	4.08	364	\$ 731.57	\$ 729.56	(12.21)
	1977310000	1977310202	4.3	364	\$ 771.02	\$ 768.90	(9.24)
	5624100000	5624100234	2.58	364	\$ 462.61	\$ 461.34	-
	8548500000	8548500490	4.3	364	\$ 771.02	\$ 768.90	-
	3154100000	3154100514	4.6	364	\$ 824.81	\$ 822.55	-
	8827925567	8827925557	4.73	364	\$ 848.12	\$ 845.79	-
	3367700000	3367700486	5.2	364	\$ 932.39	\$ 929.84	-
	8601900000	8601900057	7.6	364	\$ 1,362.72	\$ 1,358.99	-
	8150210000	8150210901	7.74	364	\$ 1,387.83	\$ 1,384.03	-

Rate Class	Customer Number	Service Agreement Number	Sum of Size (KW)	Sum of Days to FY 17	Estimated Annual Revenue Loss \$	FY 17 Estimated Revenue Loss \$	Net Credit to Grid (kWh)
	5034100000	5034100277	7.74	364	\$ 1,387.83	\$ 1,384.03	-
	4154100000	4154100516	8.38	364	\$ 1,502.58	\$ 1,498.47	-
	9483500000	9483500924	10	364	\$ 1,793.06	\$ 1,788.15	-
	4483300000	4483300142	10.32	364	\$ 1,850.44	\$ 1,845.37	-
	7748049687	7748049352	11.82	364	\$ 2,119.40	\$ 2,113.59	-
	2563310000	2563310816	8.38	364	\$ 1,502.58	\$ 1,498.47	-
	4434010000	4434010881	11	364	\$ 1,972.37	\$ 1,966.96	-
	4975010000	4975010295	11.39	364	\$ 2,042.29	\$ 2,036.70	-
	7044100000	7044100396	6.02	364	\$ 1,079.42	\$ 1,076.46	-
	34100000	0034100270	7.09	364	\$ 1,271.28	\$ 1,267.80	-
	1194700000	1194700692	11.39	364	\$ 2,042.29	\$ 2,036.70	-
	25600000	0025600190	8.81	364	\$ 1,579.69	\$ 1,575.36	-
	743600000	0743600939	7.75	364	\$ 1,389.62	\$ 1,385.81	-
	1302757980	1302757771	5	364	\$ 896.53	\$ 894.07	-
	5286105267	5286105282	4.73	364	\$ 848.12	\$ 845.79	-
	4165010000	4165010909	10.32	364	\$ 1,850.44	\$ 1,845.37	(5,989.80)
	9139800000	9139800565	8.17	364	\$ 1,464.93	\$ 1,460.92	(2,576.61)
	6759700000	6759700384	7.31	364	\$ 1,310.73	\$ 1,307.14	(2,097.28)
	3702800000	3702800833	11.18	364	\$ 2,004.64	\$ 1,999.15	(1,265.72)
	7305100000	7305100147	3.87	364	\$ 693.91	\$ 692.01	(416.18)
	8206304948	8206304912	6.23	364	\$ 1,117.08	\$ 1,114.02	-
	8169010000	8169010993	6.88	364	\$ 1,233.62	\$ 1,230.24	-
	9574100000	9574100804	7.31	364	\$ 1,310.73	\$ 1,307.14	-
	7494100000	7494100035	7.31	364	\$ 1,310.73	\$ 1,307.14	-
	8920882833	8920882754	10.32	364	\$ 1,850.44	\$ 1,845.37	-
	5305100000	5305100144	11.39	364	\$ 2,042.29	\$ 2,036.70	-
	7899410000	7899410817	12.9	364	\$ 2,313.05	\$ 2,306.71	-
	4155200000	4155200614	13.11	364	\$ 2,350.70	\$ 2,344.26	-
	6528400000	6528400304	15.05	364	\$ 2,698.55	\$ 2,691.16	-
	4645100000	4645100737	7.74	364	\$ 1,387.83	\$ 1,384.03	-
	5741000000	0574100792	9.6	364	\$ 1,721.34	\$ 1,716.62	-
	133382533	0133382479	9.24	364	\$ 1,656.79	\$ 1,652.25	-
	1554100000	0155410702	10.97	364	\$ 1,966.99	\$ 1,961.60	-
	2830900000	2830900574	9.03	364	\$ 1,619.13	\$ 1,614.70	(1,820.48)
	3204200000	3204200419	8.17	364	\$ 1,464.93	\$ 1,460.92	(221.28)
	6095100000	6095100979	7.09	364	\$ 1,271.28	\$ 1,267.80	(72.14)
	6783410000	6783410622	1.5	364	\$ 268.96	\$ 268.22	-
	2485600000	2485600040	4.3	364	\$ 771.02	\$ 768.90	-
	6776200000	6776200333	6.66	364	\$ 1,194.18	\$ 1,190.91	-
	7945100000	7945100775	6.67	364	\$ 1,195.97	\$ 1,192.69	-
	3575100000	3575100071	7.75	364	\$ 1,389.62	\$ 1,385.81	-
	5875100000	5875100109	8.4	364	\$ 1,506.17	\$ 1,502.04	-
	3859900000	3859900645	12.5	364	\$ 2,241.32	\$ 2,235.18	-
	5970000000	5970000844	11.25	364	\$ 2,017.19	\$ 2,011.67	-
	7659400000	7659400648	10	364	\$ 1,793.06	\$ 1,788.15	-
	7889861523	7889861140	12.5	364	\$ 2,241.32	\$ 2,235.18	-
	5895600000	5895600219	11.18	364	\$ 2,004.64	\$ 1,999.15	-
	1839110000	1839110380	10.75	364	\$ 1,927.54	\$ 1,922.26	-
	3927000000	0392700376	7	364	\$ 1,255.14	\$ 1,251.70	-
	5791000000	0579100540	8	364	\$ 1,434.45	\$ 1,430.52	-
	4621500000	4621500390	14	364	\$ 2,510.28	\$ 2,503.41	(25,626.36)
	9343000000	9343000540	15.91	364	\$ 2,852.76	\$ 2,844.94	(14,959.58)
	5402762192	5402762421	23.45	364	\$ 4,204.72	\$ 4,193.20	(14,752.37)
	8768000000	8768000450	4.73	364	\$ 848.12	\$ 845.79	(11,908.66)
	7580410000	7580410239	14	364	\$ 2,510.28	\$ 2,503.41	(10,101.06)
	8933100000	8933100223	9.46	364	\$ 1,696.23	\$ 1,691.59	(9,555.20)
	6084000000	6084000600	13.5	364	\$ 2,420.63	\$ 2,414.00	(9,527.65)
	8502600000	8502600070	18.92	364	\$ 3,392.47	\$ 3,383.17	(9,099.47)



Rate Class	Customer Number	Service Agreement Number	Sum of Size (KW)	Sum of Days to FY 17	Estimated Annual Revenue Loss \$	FY 17 Estimated Revenue Loss \$	Net Credit to Grid (kWh)
	8571410000	8571410811	7.74	364	\$ 1,387.83	\$ 1,384.03	(8,090.48)
	1593000000	1593000584	15.3	364	\$ 2,743.38	\$ 2,735.86	(8,013.73)
	3774200000	3774200018	8.17	364	\$ 1,464.93	\$ 1,460.92	(7,786.64)
	3470200000	3470200415	14.62	364	\$ 2,621.45	\$ 2,614.27	(7,501.36)
	1834100000	1834100365	10.32	364	\$ 1,850.44	\$ 1,845.37	(7,276.49)
	7593100000	7593100875	6	364	\$ 1,075.84	\$ 1,072.89	(7,128.35)
	3503300000	3503300479	5	364	\$ 896.53	\$ 894.07	(7,042.73)
	2862100000	2862100965	10	364	\$ 1,793.06	\$ 1,788.15	(6,898.14)
	5043310000	5043310845	11.61	364	\$ 2,081.74	\$ 2,076.04	(6,457.27)
	5407100000	5407100479	8.6	364	\$ 1,542.03	\$ 1,537.81	(6,418.81)
	3820100000	3820100260	12	364	\$ 2,151.67	\$ 2,145.78	(6,391.32)
	9339900000	9339900314	14	364	\$ 2,510.28	\$ 2,503.41	(6,289.58)
	6036000000	6036000259	21.5	364	\$ 3,855.08	\$ 3,844.52	(6,068.53)
	3696210000	3696210255	8.6	364	\$ 1,542.03	\$ 1,537.81	(6,032.48)
	5847300000	5847300748	10.97	364	\$ 1,966.99	\$ 1,961.60	(5,979.35)
	4067600000	4067600752	7	364	\$ 1,255.14	\$ 1,251.70	(5,714.88)
	7880000000	7880000957	9.67	364	\$ 1,733.89	\$ 1,729.14	(5,641.07)
	5515110000	5515110648	8.6	364	\$ 1,542.03	\$ 1,537.81	(5,488.42)
	2956110000	2956110154	13.33	364	\$ 2,390.15	\$ 2,383.60	(5,173.54)
	4862100000	4862100967	16.77	364	\$ 3,006.96	\$ 2,998.72	(5,027.28)
	7394100000	7394100022	14	364	\$ 2,510.28	\$ 2,503.41	(4,894.98)
	8097100000	8097100212	20	364	\$ 3,586.12	\$ 3,576.29	(4,826.86)
	5625410000	5625410914	4.3	364	\$ 771.02	\$ 768.90	(4,650.15)
	6640800000	6640800295	12.04	364	\$ 2,158.84	\$ 2,152.93	(4,633.60)
	3081000000	3081000406	9.24	364	\$ 1,656.79	\$ 1,652.25	(4,510.18)
	1967400000	1967400188	9.67	364	\$ 1,733.89	\$ 1,729.14	(4,501.81)
	8466700000	8466700477	6.02	364	\$ 1,079.42	\$ 1,076.46	(4,475.42)
	7115900000	7115900014	8.6	364	\$ 1,542.03	\$ 1,537.81	(4,443.18)
	6181900000	6181900174	11.18	364	\$ 2,004.64	\$ 1,999.15	(4,442.16)
	5464100000	5464100671	15.48	364	\$ 2,775.66	\$ 2,768.05	(4,379.48)
	4789000000	0478900083	7.74	364	\$ 1,387.83	\$ 1,384.03	(4,298.99)
	5029000000	5029000093	9.89	364	\$ 1,773.34	\$ 1,768.48	(4,187.12)
	9493000000	9493000582	11.18	364	\$ 2,004.64	\$ 1,999.15	(4,092.79)
	7400100000	7400100003	4.3	364	\$ 771.02	\$ 768.90	(4,017.96)
	9351600000	9351600703	6.02	364	\$ 1,079.42	\$ 1,076.46	(3,977.14)
	1823000000	1823000355	6.45	364	\$ 1,156.52	\$ 1,153.35	(3,973.00)
	7458310000	7458310003	12.3	364	\$ 2,205.46	\$ 2,199.42	(3,940.96)
	9189310000	9189310661	12.47	364	\$ 2,235.94	\$ 2,229.82	(3,866.47)
	6256000000	6256000515	11.2	364	\$ 2,008.23	\$ 2,002.72	(3,815.18)
	8432210000	8432210757	9.03	364	\$ 1,619.13	\$ 1,614.70	(3,609.82)
	7408000000	7408000618	14.6	364	\$ 2,617.87	\$ 2,610.69	(3,497.50)
	1625100000	1625100410	14.5	364	\$ 2,599.94	\$ 2,592.81	(3,474.34)
	4815000000	4815000008	14	364	\$ 2,510.28	\$ 2,503.41	(3,367.74)
	4526100000	4526100786	18	364	\$ 3,227.51	\$ 3,218.66	(3,284.05)
	1318000000	1318000289	13.11	364	\$ 2,350.70	\$ 2,344.26	(3,179.52)
	6513110000	6513110217	6.45	364	\$ 1,156.52	\$ 1,153.35	(3,162.60)
	2829410000	2829410278	7	364	\$ 1,255.14	\$ 1,251.70	(3,033.98)
	7907600000	7907600596	8.6	364	\$ 1,542.03	\$ 1,537.81	(2,955.26)
	4976410000	4976410832	14	364	\$ 2,510.28	\$ 2,503.41	(2,909.12)
	687604242	0687604589	9.67	364	\$ 1,733.89	\$ 1,729.14	(2,852.22)
	4677400000	4677400269	11.18	364	\$ 2,004.64	\$ 1,999.15	(2,818.61)
	6723000000	6723000349	8	364	\$ 1,434.45	\$ 1,430.52	(2,811.89)
	4768600000	4768600654	3.5	364	\$ 627.57	\$ 625.85	(2,802.83)
	8051400000	8051400108	18.5	364	\$ 3,317.16	\$ 3,308.07	(2,759.78)
	2075100000	2075100016	10.53	364	\$ 1,888.09	\$ 1,882.92	(2,709.02)
	9670110000	9670110185	24.7	364	\$ 4,428.86	\$ 4,416.72	(2,704.16)
	7065200000	7065200264	9.89	364	\$ 1,773.34	\$ 1,768.48	(2,626.48)
	2803100000	2803100250	16	364	\$ 2,868.89	\$ 2,861.03	(2,536.26)

Rate Class	Customer Number	Service Agreement Number	Sum of Size (KW)	Sum of Days to FY 17	Estimated Annual Revenue Loss \$	FY 17 Estimated Revenue Loss \$	Net Credit to Grid (kWh)
	983800000	0983800956	9.03	364	\$ 1,619.13	\$ 1,614.70	(2,520.84)
	7060300000	7060300241	9.5	364	\$ 1,703.41	\$ 1,698.74	(2,467.51)
	6294310000	6294310768	9	364	\$ 1,613.75	\$ 1,609.33	(2,438.54)
	7174400000	7174400031	4	364	\$ 717.22	\$ 715.26	(2,367.15)
	2907600000	2907600591	12.9	364	\$ 2,313.05	\$ 2,306.71	(2,330.84)
	5484110000	5484110920	9.8	364	\$ 1,757.20	\$ 1,752.38	(2,329.84)
	2967000000	2967000714	7.74	364	\$ 1,387.83	\$ 1,384.03	(2,298.03)
	5600807786	5600807355	12.47	364	\$ 2,235.94	\$ 2,229.82	(2,273.63)
	2865100000	2865100994	15.65	364	\$ 2,806.14	\$ 2,798.45	(2,250.74)
	3275600000	3275600727	15.05	364	\$ 2,698.55	\$ 2,691.16	(2,241.87)
	6341000000	0634100337	12.25	364	\$ 2,196.50	\$ 2,190.48	(2,201.85)
	7672100000	7672100070	7.31	364	\$ 1,310.73	\$ 1,307.14	(2,193.69)
	3960000000	3960000056	7	364	\$ 1,255.14	\$ 1,251.70	(2,150.05)
	8644000000	8644000207	12	364	\$ 2,151.67	\$ 2,145.78	(2,148.75)
	5128600000	5128600570	8.17	364	\$ 1,464.93	\$ 1,460.92	(2,057.51)
	9475000000	9475000158	22.89	364	\$ 4,104.31	\$ 4,093.07	(2,005.31)
	3261200000	3261200477	10.97	364	\$ 1,966.99	\$ 1,961.60	(2,002.24)
	9667310000	9667310738	10.32	364	\$ 1,850.44	\$ 1,845.37	(1,988.52)
	3445000000	0344500358	6.23	364	\$ 1,117.08	\$ 1,114.02	(1,984.33)
	9760000000	0976000851	6.62	364	\$ 1,187.01	\$ 1,183.75	(1,977.90)
	9356400000	9356400516	7.95	364	\$ 1,425.48	\$ 1,421.58	(1,931.10)
	6323210000	6323210058	7.14	364	\$ 1,280.24	\$ 1,276.74	(1,923.00)
	2284210000	2284210227	7.3	364	\$ 1,308.93	\$ 1,305.35	(1,917.08)
	7011310000	7011310517	7.52	364	\$ 1,348.38	\$ 1,344.69	(1,880.11)
	7955000000	7955000484	14.62	364	\$ 2,621.45	\$ 2,614.27	(1,806.55)
	8233510000	8233510596	12.9	364	\$ 2,313.05	\$ 2,306.71	(1,789.00)
	8477010000	8477010691	8.97	364	\$ 1,608.37	\$ 1,603.97	(1,753.48)
	7721200000	7721200099	12	364	\$ 2,151.67	\$ 2,145.78	(1,739.54)
	5893600000	5893600092	7.74	364	\$ 1,387.83	\$ 1,384.03	(1,729.32)
	4083000000	0408300945	7.3	364	\$ 1,308.93	\$ 1,305.35	(1,691.64)
	2265510000	2265510137	5.75	364	\$ 1,031.01	\$ 1,028.18	(1,677.73)
	7309025228	7309025022	7	364	\$ 1,255.14	\$ 1,251.70	(1,674.70)
	4608500000	4608500662	14.22	364	\$ 2,549.73	\$ 2,542.74	(1,642.53)
	7109110000	7109110604	7.31	364	\$ 1,310.73	\$ 1,307.14	(1,641.12)
	6332621597	6332621090	9.5	364	\$ 1,703.41	\$ 1,698.74	(1,640.32)
	4016010000	4016010016	7.09	364	\$ 1,271.28	\$ 1,267.80	(1,638.01)
	4854210000	4854210399	12.5	364	\$ 2,241.32	\$ 2,235.18	(1,630.41)
	977110862	0977110417	8.8	364	\$ 1,577.89	\$ 1,573.57	(1,595.38)
	6565100000	6565100966	11.4	364	\$ 2,044.09	\$ 2,038.49	(1,591.86)
	7297200000	7297200411	7.68	364	\$ 1,377.07	\$ 1,373.30	(1,590.73)
	5904000000	5904000765	9	364	\$ 1,613.75	\$ 1,609.33	(1,577.94)
	6898400000	6898400906	6.02	364	\$ 1,079.42	\$ 1,076.46	(1,563.80)
	3402100000	3402100158	7	364	\$ 1,255.14	\$ 1,251.70	(1,536.67)
	2777300000	2777300259	12.47	364	\$ 2,235.94	\$ 2,229.82	(1,531.85)
	4551500000	4551500910	5.59	364	\$ 1,002.32	\$ 999.57	(1,523.28)
	3033100000	3033100519	6.02	364	\$ 1,079.42	\$ 1,076.46	(1,511.18)
	2768164967	2768164176	5	364	\$ 896.53	\$ 894.07	(1,499.29)
	4881700000	4881700013	5.8	364	\$ 1,039.97	\$ 1,037.13	(1,446.15)
	4194100000	4194100993	6.45	364	\$ 1,156.52	\$ 1,153.35	(1,444.90)
	6443100000	6443100276	6.3	364	\$ 1,129.63	\$ 1,126.53	(1,432.34)
	6461200000	6461200502	14.62	364	\$ 2,621.45	\$ 2,614.27	(1,400.55)
	8805100000	8805100209	4.08	364	\$ 731.57	\$ 729.56	(1,397.42)
	4514300000	4514300864	7.31	364	\$ 1,310.73	\$ 1,307.14	(1,397.16)
	5251300000	5251300165	0.81	364	\$ 145.24	\$ 144.84	(1,391.83)
	3190200000	3190200817	9.89	364	\$ 1,773.34	\$ 1,768.48	(1,344.42)
	4325100000	4325100376	7.09	364	\$ 1,271.28	\$ 1,267.80	(1,335.44)
	3058100000	3058100700	12	364	\$ 2,151.67	\$ 2,145.78	(1,326.41)
	6349010000	6349010618	7.72	364	\$ 1,384.24	\$ 1,380.45	(1,254.84)

Rate Class	Customer Number	Service Agreement Number	Sum of Size (KW)	Sum of Days to FY 17	Estimated Annual Revenue Loss \$	FY 17 Estimated Revenue Loss \$	Net Credit to Grid (kWh)
	7624210000	7624210657	14.6	364	\$ 2,617.87	\$ 2,610.69	(1,246.31)
	9915100000	9915100333	16.34	364	\$ 2,929.86	\$ 2,921.83	(1,240.37)
	7140000000	7140000561	9	364	\$ 1,613.75	\$ 1,609.33	(1,231.70)
	7968400000	7968400193	8.38	364	\$ 1,502.58	\$ 1,498.47	(1,220.38)
	6857200000	6857200270	14.62	364	\$ 2,621.45	\$ 2,614.27	(1,209.85)
	3263700000	3263700292	8	364	\$ 1,434.45	\$ 1,430.52	(1,182.54)
	7149900000	7149900281	6.02	364	\$ 1,079.42	\$ 1,076.46	(1,157.02)
	7463010000	7463010197	6	364	\$ 1,075.84	\$ 1,072.89	(1,156.69)
	9326310000	9326310943	17.63	364	\$ 3,161.16	\$ 3,152.50	(1,138.00)
	3380510000	3380510209	14.62	364	\$ 2,621.45	\$ 2,614.27	(1,105.43)
	6583600000	6583600759	12.9	364	\$ 2,313.05	\$ 2,306.71	(1,098.35)
	2984100000	2984100967	7.31	364	\$ 1,310.73	\$ 1,307.14	(1,093.54)
	8325100000	8325100237	10.75	364	\$ 1,927.54	\$ 1,922.26	(1,048.92)
	6372500000	6372500611	14.4	364	\$ 2,582.01	\$ 2,574.93	(1,036.55)
	9636000000	9636000327	11	364	\$ 1,972.37	\$ 1,966.96	(1,027.23)
	5452410000	5452410628	10.97	364	\$ 1,966.99	\$ 1,961.60	(1,026.02)
	8328728087	8328728350	8.81	364	\$ 1,579.69	\$ 1,575.36	(1,007.96)
	4371510000	4371510629	9.5	364	\$ 1,703.41	\$ 1,698.74	(998.13)
	4477300000	4477300226	4.73	364	\$ 848.12	\$ 845.79	(943.77)
	8754513193	8754513441	10.32	364	\$ 1,850.44	\$ 1,845.37	(913.52)
	6577700000	6577700617	8.38	364	\$ 1,502.58	\$ 1,498.47	(911.89)
	4307800000	4307800248	6.45	364	\$ 1,156.52	\$ 1,153.35	(892.93)
	7431110000	7431110396	12	364	\$ 2,151.67	\$ 2,145.78	(869.14)
	8703210000	8703210993	7	364	\$ 1,255.14	\$ 1,251.70	(843.33)
	1773300000	1773300065	5.16	364	\$ 925.22	\$ 922.68	(822.12)
	3724500000	3724500981	14.6	364	\$ 2,617.87	\$ 2,610.69	(821.73)
	8837800000	8837800526	3	364	\$ 537.92	\$ 536.44	(811.36)
	6914300000	6914300212	7	364	\$ 1,255.14	\$ 1,251.70	(795.09)
	5782700000	5782700314	11.3	364	\$ 2,026.16	\$ 2,020.61	(771.50)
	8484800000	8484800030	8.6	364	\$ 1,542.03	\$ 1,537.81	(742.73)
	5831100000	5831100282	3.01	364	\$ 539.71	\$ 538.23	(723.80)
	2878921530	2878921037	3.44	364	\$ 616.81	\$ 615.12	(721.17)
	8658310000	8658310030	7.31	364	\$ 1,310.73	\$ 1,307.14	(705.05)
	8109800000	8109800134	9.46	364	\$ 1,696.23	\$ 1,691.59	(582.36)
	5405110000	5405110140	3.5	364	\$ 627.57	\$ 625.85	(569.31)
	7829295916	7829295620	8	364	\$ 1,434.45	\$ 1,430.52	(554.07)
	3111900000	3111900106	16.98	364	\$ 3,044.61	\$ 3,036.27	(550.08)
	6621500000	6621500391	16	364	\$ 2,868.89	\$ 2,861.03	(543.63)
	4441410000	4441410252	7.5	364	\$ 1,344.79	\$ 1,341.11	(528.81)
	5837210000	5837210146	7	364	\$ 1,255.14	\$ 1,251.70	(527.49)
	2924000000	2924000006	6.88	364	\$ 1,233.62	\$ 1,230.24	(505.77)
	3619000000	3619000049	7.31	364	\$ 1,310.73	\$ 1,307.14	(502.22)
	6373945036	6373945108	9.5	364	\$ 1,703.41	\$ 1,698.74	(479.45)
	2086078275	2086078277	14.62	364	\$ 2,621.45	\$ 2,614.27	(448.85)
	9272000000	9272000402	10.97	364	\$ 1,966.99	\$ 1,961.60	(440.30)
	9225428484	9225428734	7	364	\$ 1,255.14	\$ 1,251.70	(423.25)
	3493000000	3493000574	9.67	364	\$ 1,733.89	\$ 1,729.14	(402.93)
	4336200000	4336200473	10.3	364	\$ 1,846.85	\$ 1,841.79	(400.15)
	2631310000	2631310020	10.53	364	\$ 1,888.09	\$ 1,882.92	(398.66)
	5839400000	5839400239	8	364	\$ 1,434.45	\$ 1,430.52	(390.72)
	5970200000	5970200686	10.97	364	\$ 1,966.99	\$ 1,961.60	(370.37)
	2154300000	2154300215	5.2	364	\$ 932.39	\$ 929.84	(358.25)
	2957100000	2957100418	11.18	364	\$ 2,004.64	\$ 1,999.15	(340.99)
	1354010000	1354010271	5.5	364	\$ 986.18	\$ 983.48	(315.26)
	5630110000	5630110173	13.11	364	\$ 2,350.70	\$ 2,344.26	(312.23)
	6921510000	6921510316	7.31	364	\$ 1,310.73	\$ 1,307.14	(303.63)
	3571395388	3571395518	7	364	\$ 1,255.14	\$ 1,251.70	(303.59)
	5457010000	5457010284	6.7	364	\$ 1,201.35	\$ 1,198.06	(295.74)

Rate Class	Customer Number	Service Agreement Number	Sum of Size (KW)	Sum of Days to FY 17	Estimated Annual Revenue Loss \$	FY 17 Estimated Revenue Loss \$	Net Credit to Grid (kWh)
	2825000000	2825000125	9.89	364	\$ 1,773.34	\$ 1,768.48	(287.61)
	6358100000	6358100740	11	364	\$ 1,972.37	\$ 1,966.96	(274.87)
	9140000000	0914000879	9.46	364	\$ 1,696.23	\$ 1,691.59	(274.06)
	6904210000	6904210276	9.2	364	\$ 1,649.61	\$ 1,645.09	(262.93)
	3784300000	3784300992	7.5	364	\$ 1,344.79	\$ 1,341.11	(249.72)
	3593100000	3593100868	10.97	364	\$ 1,966.99	\$ 1,961.60	(246.63)
	3960400000	3960400203	5.37	364	\$ 962.87	\$ 960.23	(234.76)
	3524510000	3524510882	8.5	364	\$ 1,524.10	\$ 1,519.92	(234.34)
	5558400000	5558400847	7.52	364	\$ 1,348.38	\$ 1,344.69	(226.19)
	7783100000	7783100782	15.05	364	\$ 2,698.55	\$ 2,691.16	(223.09)
	1819200000	1819200101	3.87	364	\$ 693.91	\$ 692.01	(212.42)
	8866000000	8866000731	7.31	364	\$ 1,310.73	\$ 1,307.14	(200.28)
	4813900000	4813900731	10.9	364	\$ 1,954.43	\$ 1,949.08	(199.37)
	9013600000	9013600166	4.51	364	\$ 808.67	\$ 806.45	(154.85)
	9916410000	9916410415	10.97	364	\$ 1,966.99	\$ 1,961.60	(150.24)
	9840100000	9840100526	10.1	364	\$ 1,810.99	\$ 1,806.03	(139.53)
	9911000000	0991100093	7.31	364	\$ 1,310.73	\$ 1,307.14	(129.96)
	5201500000	5201500741	9.4	364	\$ 1,685.48	\$ 1,680.86	(126.79)
	7198100000	7198100601	12	364	\$ 2,151.67	\$ 2,145.78	(126.30)
	5673300000	5673300059	5.16	364	\$ 925.22	\$ 922.68	(125.72)
	6764000000	6764000454	14.62	364	\$ 2,621.45	\$ 2,614.27	(125.45)
	2154100000	2154100513	7.5	364	\$ 1,344.79	\$ 1,341.11	(122.31)
	1959500000	1959500104	12.9	364	\$ 2,313.05	\$ 2,306.71	(98.08)
	3987510000	3987510245	13.33	364	\$ 2,390.15	\$ 2,383.60	(97.01)
	8133000000	8133000399	7	364	\$ 1,255.14	\$ 1,251.70	(94.79)
	3356771381	3356771615	10.9	364	\$ 1,954.43	\$ 1,949.08	(93.35)
	3906900000	3906900287	12.68	364	\$ 2,273.60	\$ 2,267.37	(92.18)
	4914300000	4914300903	12	364	\$ 2,151.67	\$ 2,145.78	(91.94)
	2756210000	2756210428	6.88	364	\$ 1,233.62	\$ 1,230.24	(85.87)
	7333000000	0733300109	14.62	364	\$ 2,621.45	\$ 2,614.27	(84.48)
	1725600000	1725600871	18.27	364	\$ 3,275.92	\$ 3,266.94	(82.85)
	7725310000	7725310581	7.5	364	\$ 1,344.79	\$ 1,341.11	(76.02)
	2183000000	2183000414	7.31	364	\$ 1,310.73	\$ 1,307.14	(67.78)
	5481000000	0548100434	11	364	\$ 1,972.37	\$ 1,966.96	(66.76)
	1910310000	1910310593	6.67	364	\$ 1,195.97	\$ 1,192.69	(57.95)
	9442300000	9442300163	14.69	364	\$ 2,634.00	\$ 2,626.79	(48.00)
	1452000000	1452000244	6.02	364	\$ 1,079.42	\$ 1,076.46	(47.12)
	8569100000	8569100240	7.31	364	\$ 1,310.73	\$ 1,307.14	(44.52)
	3965110000	3965110788	14.62	364	\$ 2,621.45	\$ 2,614.27	(33.79)
	2314000000	2314000543	7.1	364	\$ 1,273.07	\$ 1,269.58	(16.09)
	4356110000	4356110894	7.1	364	\$ 1,273.07	\$ 1,269.58	(14.73)
	5386100000	5386100047	4.08	364	\$ 731.57	\$ 729.56	(10.16)
	8150100000	8150100356	8.6	364	\$ 1,542.03	\$ 1,537.81	(9.38)
	1683100000	1683100765	12.25	364	\$ 2,196.50	\$ 2,190.48	(8.72)
	2061410000	2061410393	9.46	364	\$ 1,696.23	\$ 1,691.59	(8.28)
	4212100000	0421210353	9	364	\$ 1,613.75	\$ 1,609.33	(0.15)
	6942400000	6942400084	7.31	364	\$ 1,310.73	\$ 1,307.14	(0.00)
	5715014873	5715014495	0.75	364	\$ 134.48	\$ 134.11	-
	2108200000	2108200506	0.86	364	\$ 154.20	\$ 153.78	-
	9712690460	9712690845	1	364	\$ 179.31	\$ 178.81	-
	3733600000	3733600639	1	364	\$ 179.31	\$ 178.81	-
	8006010000	8006010711	1.2	364	\$ 215.17	\$ 214.58	-
	8182400000	8182400821	1.25	364	\$ 224.13	\$ 223.52	-
	1203100000	1203100178	1.3	364	\$ 233.10	\$ 232.46	-
	2633400000	2633400020	1.36	364	\$ 243.86	\$ 243.19	-
	7543000000	7543000566	1.5	364	\$ 268.96	\$ 268.22	-
	2574010000	2574010895	1.53	364	\$ 274.34	\$ 273.59	-
	7729200000	7729200212	1.6	364	\$ 286.89	\$ 286.10	-

Rate Class	Customer Number	Service Agreement Number	Sum of Size (KW)	Sum of Days to FY 17	Estimated Annual Revenue Loss \$	FY 17 Estimated Revenue Loss \$	Net Credit to Grid (kWh)
	2326600000	2326600691	1.7	364	\$ 304.82	\$ 303.98	-
	9064900000	9064900091	1.8	364	\$ 322.75	\$ 321.87	-
	1533800000	1533800822	1.8	364	\$ 322.75	\$ 321.87	-
	3262100000	3262100892	1.8	364	\$ 322.75	\$ 321.87	-
	7666010000	7666010413	2	364	\$ 358.61	\$ 357.63	-
	9014100000	9014100053	2	364	\$ 358.61	\$ 357.63	-
	8076410000	8076410723	2	364	\$ 358.61	\$ 357.63	-
	3396110000	3396110906	2	364	\$ 358.61	\$ 357.63	-
	6162600000	6162600061	2.5	364	\$ 448.26	\$ 447.04	-
	5628000000	5628000913	2.58	364	\$ 462.61	\$ 461.34	-
	9514600000	9514600472	2.7	364	\$ 484.13	\$ 482.80	-
	9458410000	9458410082	2.75	364	\$ 493.09	\$ 491.74	-
	8172100000	8172100008	3	364	\$ 537.92	\$ 536.44	-
	5645510000	5645510770	3	364	\$ 537.92	\$ 536.44	-
	8571800000	8571800118	3	364	\$ 537.92	\$ 536.44	-
	9216000000	9216000579	3	364	\$ 537.92	\$ 536.44	-
	1900458726	1900458192	3	364	\$ 537.92	\$ 536.44	-
	4966410000	4966410492	3.01	364	\$ 539.71	\$ 538.23	-
	1265700000	1265700218	3.44	364	\$ 616.81	\$ 615.12	-
	9438000000	9438000021	3.6	364	\$ 645.50	\$ 643.73	-
	3061200000	3061200456	3.6	364	\$ 645.50	\$ 643.73	-
	1808000000	1808000676	3.65	364	\$ 654.47	\$ 652.67	-
	8841300000	8841300122	3.65	364	\$ 654.47	\$ 652.67	-
	2366200000	2366200175	3.65	364	\$ 654.47	\$ 652.67	-
	6551500000	6551500913	3.65	364	\$ 654.47	\$ 652.67	-
	2490410000	2490410349	3.66	364	\$ 656.26	\$ 654.46	-
	8640100000	8640100504	3.66	364	\$ 656.26	\$ 654.46	-
	2439000000	2439000257	3.66	364	\$ 656.26	\$ 654.46	-
	3486410000	3486410889	3.75	364	\$ 672.40	\$ 670.56	-
	2147400000	2147400488	4	364	\$ 717.22	\$ 715.26	-
	2796376557	2796376265	4	364	\$ 717.22	\$ 715.26	-
	7305010000	7305010475	4	364	\$ 717.22	\$ 715.26	-
	6796210000	6796210270	4	364	\$ 717.22	\$ 715.26	-
	4024500000	4024500713	4.08	364	\$ 731.57	\$ 729.56	-
	2034410000	2034410849	4.1	364	\$ 735.15	\$ 733.14	-
	4213800000	4213800394	4.1	364	\$ 735.15	\$ 733.14	-
	1172800000	1172800086	4.25	364	\$ 762.05	\$ 759.96	-
	4324000000	4324000431	4.3	364	\$ 771.02	\$ 768.90	-
	5036410000	5036410549	4.3	364	\$ 771.02	\$ 768.90	-
	8532110000	8532110400	4.3	364	\$ 771.02	\$ 768.90	-
	1615310000	1615310249	4.3	364	\$ 771.02	\$ 768.90	-
	5198310000	5198310899	4.3	364	\$ 771.02	\$ 768.90	-
	2296400000	2296400341	4.3	364	\$ 771.02	\$ 768.90	-
	1304410000	1304410037	4.32	364	\$ 774.60	\$ 772.48	-
	5911800000	5911800831	4.5	364	\$ 806.88	\$ 804.67	-
	6538000000	6538000030	4.5	364	\$ 806.88	\$ 804.67	-
	8946310000	8946310134	4.5	364	\$ 806.88	\$ 804.67	-
	2170000000	2170000751	4.5	364	\$ 806.88	\$ 804.67	-
	8295510000	8295510458	4.51	364	\$ 808.67	\$ 806.45	-
	7173400000	7173400722	4.51	364	\$ 808.67	\$ 806.45	-
	5950400000	5950400896	4.52	364	\$ 810.46	\$ 808.24	-
	5739000000	5739000301	4.7	364	\$ 842.74	\$ 840.43	-
	8090300000	8090300966	4.73	364	\$ 848.12	\$ 845.79	-
	8769200000	8769200231	4.73	364	\$ 848.12	\$ 845.79	-
	9305600000	9305600413	4.73	364	\$ 848.12	\$ 845.79	-
	4282100000	4282100141	9.67	364	\$ 1,733.89	\$ 1,729.14	-
	4174110000	4174110765	4.75	364	\$ 851.70	\$ 849.37	-
	5101400000	5101400289	4.9	364	\$ 878.60	\$ 876.19	-

Rate Class	Customer Number	Service Agreement Number	Sum of Size (KW)	Sum of Days to FY 17	Estimated Annual Revenue Loss \$	FY 17 Estimated Revenue Loss \$	Net Credit to Grid (kWh)
	4094800000	4094800275	4.92	364	\$ 882.19	\$ 879.77	-
	3647100000	3647100269	4.94	364	\$ 885.77	\$ 883.34	-
	1617000000	1617000326	4.94	364	\$ 885.77	\$ 883.34	-
	6890400000	6890400693	4.94	364	\$ 885.77	\$ 883.34	-
	7984210000	7984210139	4.94	364	\$ 885.77	\$ 883.34	-
	1412105427	1412105579	4.94	364	\$ 885.77	\$ 883.34	-
	7175600000	7175600720	4.95	364	\$ 887.56	\$ 885.13	-
	6347800000	6347800764	5	364	\$ 896.53	\$ 894.07	-
	2565306713	2565306506	5	364	\$ 896.53	\$ 894.07	-
	4365410000	4365410852	5	364	\$ 896.53	\$ 894.07	-
	9497200000	9497200436	5	364	\$ 896.53	\$ 894.07	-
	8599300000	8599300600	5	364	\$ 896.53	\$ 894.07	-
	7751200000	7751200428	5	364	\$ 896.53	\$ 894.07	-
	1971411832	1971411031	5	364	\$ 896.53	\$ 894.07	-
	4545100000	4545100723	5	364	\$ 896.53	\$ 894.07	-
	3470800000	3470800783	5	364	\$ 896.53	\$ 894.07	-
	4265510000	4265510998	5	364	\$ 896.53	\$ 894.07	-
	8015500000	8015500528	5	364	\$ 896.53	\$ 894.07	-
	2886110000	2886110656	5	364	\$ 896.53	\$ 894.07	-
	4035000000	4035000150	5.1	364	\$ 914.46	\$ 911.95	-
	5414800000	5414800407	5.16	364	\$ 925.22	\$ 922.68	-
	5925110000	5925110981	5.16	364	\$ 925.22	\$ 922.68	-
	5001300000	5001300077	5.16	364	\$ 925.22	\$ 922.68	-
	7446300000	7446300498	5.16	364	\$ 925.22	\$ 922.68	-
	6444900000	6444900712	5.16	364	\$ 925.22	\$ 922.68	-
	1838110000	1838110149	5.16	364	\$ 925.22	\$ 922.68	-
	1840410000	1840410132	5.16	364	\$ 925.22	\$ 922.68	-
	8434400000	8434400232	5.2	364	\$ 932.39	\$ 929.84	-
	6955300000	6955300581	5.37	364	\$ 962.87	\$ 960.23	-
	6749000000	6749000102	5.37	364	\$ 962.87	\$ 960.23	-
	3376600000	3376600804	5.37	364	\$ 962.87	\$ 960.23	-
	3590010000	3590010632	5.37	364	\$ 962.87	\$ 960.23	-
	6506300000	6506300664	5.375	364	\$ 963.77	\$ 961.13	-
	4773100000	4773100665	8.31	364	\$ 1,490.03	\$ 1,485.95	-
	8491100000	8491100037	5.59	364	\$ 1,002.32	\$ 999.57	-
	9065410000	9065410819	5.6	364	\$ 1,004.11	\$ 1,001.36	-
	8224000000	8224000927	5.6	364	\$ 1,004.11	\$ 1,001.36	-
	7083500000	7083500608	5.75	364	\$ 1,031.01	\$ 1,028.18	-
	6457500000	6457500520	5.8	364	\$ 1,039.97	\$ 1,037.13	-
	3654410000	3654410078	5.8	364	\$ 1,039.97	\$ 1,037.13	-
	3743500000	3743500237	5.8	364	\$ 1,039.97	\$ 1,037.13	-
	4700300000	4700300063	5.8	364	\$ 1,039.97	\$ 1,037.13	-
	8579110000	8579110173	5.8	364	\$ 1,039.97	\$ 1,037.13	-
	2426510000	2426510913	5.8	364	\$ 1,039.97	\$ 1,037.13	-
	6082300000	6082300821	5.8	364	\$ 1,039.97	\$ 1,037.13	-
	3218400000	3218400056	6	364	\$ 1,075.84	\$ 1,072.89	-
	6540261870	6540261014	6	364	\$ 1,075.84	\$ 1,072.89	-
	4303500000	4303500352	6	364	\$ 1,075.84	\$ 1,072.89	-
	6384100000	6384100806	6	364	\$ 1,075.84	\$ 1,072.89	-
	5517000000	5517000320	6	364	\$ 1,075.84	\$ 1,072.89	-
	5497310000	5497310599	6	364	\$ 1,075.84	\$ 1,072.89	-
	4417600000	4417600653	6	364	\$ 1,075.84	\$ 1,072.89	-
	4454310000	4454310907	6	364	\$ 1,075.84	\$ 1,072.89	-
	6446510000	6446510203	6	364	\$ 1,075.84	\$ 1,072.89	-
	7614410000	7614410435	6	364	\$ 1,075.84	\$ 1,072.89	-
	6129200000	6129200142	6	364	\$ 1,075.84	\$ 1,072.89	-
	7754700000	7754700860	6.02	364	\$ 1,079.42	\$ 1,076.46	-
	6646600000	6646600330	6.02	364	\$ 1,079.42	\$ 1,076.46	-



Rate Class	Customer Number	Service Agreement Number	Sum of Size (KW)	Sum of Days to FY 17	Estimated Annual Revenue Loss \$	FY 17 Estimated Revenue Loss \$	Net Credit to Grid (kWh)
	8557600000	8557600699	6.02	364	\$ 1,079.42	\$ 1,076.46	-
	4720100000	4720100278	6.02	364	\$ 1,079.42	\$ 1,076.46	-
	5613310000	5613310356	6.02	364	\$ 1,079.42	\$ 1,076.46	-
	9125511488	9125511812	6.02	364	\$ 1,079.42	\$ 1,076.46	-
	8145100000	8145100681	6.02	364	\$ 1,079.42	\$ 1,076.46	-
	3926510000	3926510983	6.02	364	\$ 1,079.42	\$ 1,076.46	-
	3928000000	3928000950	6.2	364	\$ 1,111.70	\$ 1,108.65	-
	9071100000	9071100733	6.23	364	\$ 1,117.08	\$ 1,114.02	-
	8699300000	8699300610	6.23	364	\$ 1,117.08	\$ 1,114.02	-
	3222400000	3222400692	6.23	364	\$ 1,117.08	\$ 1,114.02	-
	3559800000	3559800001	6.23	364	\$ 1,117.08	\$ 1,114.02	-
	8724100000	8724100247	6.23	364	\$ 1,117.08	\$ 1,114.02	-
	2729900000	2729900243	6.23	364	\$ 1,117.08	\$ 1,114.02	-
	7819100000	7819100109	6.25	364	\$ 1,120.66	\$ 1,117.59	-
	8243510000	8243510979	6.4	364	\$ 1,147.56	\$ 1,144.41	-
	7060100000	7060100473	6.45	364	\$ 1,156.52	\$ 1,153.35	-
	4130100000	4130100322	6.45	364	\$ 1,156.52	\$ 1,153.35	-
	5170800000	5170800752	6.45	364	\$ 1,156.52	\$ 1,153.35	-
	9404000000	9404000699	6.45	364	\$ 1,156.52	\$ 1,153.35	-
	3596600000	3596600234	6.45	364	\$ 1,156.52	\$ 1,153.35	-
	3326410000	3326410458	6.45	364	\$ 1,156.52	\$ 1,153.35	-
	3565010000	3565010950	6.45	364	\$ 1,156.52	\$ 1,153.35	-
	3424100000	3424100207	6.5	364	\$ 1,165.49	\$ 1,162.30	-
	2964883136	2964883475	6.5	364	\$ 1,165.49	\$ 1,162.30	-
	4794200000	4794200442	6.66	364	\$ 1,194.18	\$ 1,190.91	-
	7248000000	7248000127	6.66	364	\$ 1,194.18	\$ 1,190.91	-
	8454010000	8454010478	6.66	364	\$ 1,194.18	\$ 1,190.91	-
	7952210000	7952210216	6.715	364	\$ 1,204.04	\$ 1,200.74	-
	3652210000	3652210178	6.75	364	\$ 1,210.31	\$ 1,207.00	-
	7110010000	7110010770	6.88	364	\$ 1,233.62	\$ 1,230.24	-
	7182000000	7182000498	6.88	364	\$ 1,233.62	\$ 1,230.24	-
	8390010000	8390010616	6.88	364	\$ 1,233.62	\$ 1,230.24	-
	7540000000	7540000801	6.88	364	\$ 1,233.62	\$ 1,230.24	-
	6133310000	6133310741	6.88	364	\$ 1,233.62	\$ 1,230.24	-
	5414000000	5414000825	6.89	364	\$ 1,235.42	\$ 1,232.03	-
	2885600000	2885600091	6.9	364	\$ 1,237.21	\$ 1,233.82	-
	5231200000	5231200806	6.92	364	\$ 1,240.80	\$ 1,237.40	-
	5549110000	5549110459	7	364	\$ 1,255.14	\$ 1,251.70	-
	8568700000	8568700161	7	364	\$ 1,255.14	\$ 1,251.70	-
	3016800000	3016800925	7	364	\$ 1,255.14	\$ 1,251.70	-
	6698799551	6698799675	7	364	\$ 1,255.14	\$ 1,251.70	-
	9490800000	9490800198	7.09	364	\$ 1,271.28	\$ 1,267.80	-
	6683400000	6683400090	7.1	364	\$ 1,273.07	\$ 1,269.58	-
	6002100000	6002100114	7.3	364	\$ 1,308.93	\$ 1,305.35	-
	7607900000	7607900300	7.3	364	\$ 1,308.93	\$ 1,305.35	-
	6605210000	6605210522	7.3	364	\$ 1,308.93	\$ 1,305.35	-
	7013310000	7013310291	7.3	364	\$ 1,308.93	\$ 1,305.35	-
	6588410000	6588410979	7.31	364	\$ 1,310.73	\$ 1,307.14	-
	9830010000	9830010261	7.31	364	\$ 1,310.73	\$ 1,307.14	-
	6163600000	6163600291	7.31	364	\$ 1,310.73	\$ 1,307.14	-
	8183510000	8183510459	7.31	364	\$ 1,310.73	\$ 1,307.14	-
	9592200000	9592200500	7.31	364	\$ 1,310.73	\$ 1,307.14	-
	8925300000	8925300051	7.31	364	\$ 1,310.73	\$ 1,307.14	-
	5803310000	5803310065	7.31	364	\$ 1,310.73	\$ 1,307.14	-
	3453410000	3453410745	7.31	364	\$ 1,310.73	\$ 1,307.14	-
	3971900000	3971900611	7.31	364	\$ 1,310.73	\$ 1,307.14	-
	5068800000	5068800035	7.31	364	\$ 1,310.73	\$ 1,307.14	-
	3780300000	3780300930	7.31	364	\$ 1,310.73	\$ 1,307.14	-

Rate Class	Customer Number	Service Agreement Number	Sum of Size (KW)	Sum of Days to FY 17	Estimated Annual Revenue Loss \$	FY 17 Estimated Revenue Loss \$	Net Credit to Grid (kWh)
	8561900000	8561900275	7.31	364	\$ 1,310.73	\$ 1,307.14	-
	6300100000	6300100988	7.31	364	\$ 1,310.73	\$ 1,307.14	-
	7379000000	7379000726	7.31	364	\$ 1,310.73	\$ 1,307.14	-
	7510510000	7510510297	7.31	364	\$ 1,310.73	\$ 1,307.14	-
	8708000000	8708000671	7.31	364	\$ 1,310.73	\$ 1,307.14	-
	6880010000	6880010375	7.31	364	\$ 1,310.73	\$ 1,307.14	-
	7368800000	7368800071	7.31	364	\$ 1,310.73	\$ 1,307.14	-
	8847510000	8847510167	7.31	364	\$ 1,310.73	\$ 1,307.14	-
	9041400000	9041400193	7.31	364	\$ 1,310.73	\$ 1,307.14	-
	9934400000	9934400287	7.31	364	\$ 1,310.73	\$ 1,307.14	-
	9498410000	9498410350	7.31	364	\$ 1,310.73	\$ 1,307.14	-
	2770100000	2770100693	7.31	364	\$ 1,310.73	\$ 1,307.14	-
	3466200000	3466200186	7.31	364	\$ 1,310.73	\$ 1,307.14	-
	4321100000	4321100689	7.31	364	\$ 1,310.73	\$ 1,307.14	-
	2823900000	2823900839	7.31	364	\$ 1,310.73	\$ 1,307.14	-
	3206510000	3206510600	7.31	364	\$ 1,310.73	\$ 1,307.14	-
	3445500000	3445500295	7.31	364	\$ 1,310.73	\$ 1,307.14	-
	6891400000	6891400037	7.31	364	\$ 1,310.73	\$ 1,307.14	-
	3774510000	3774510666	7.31	364	\$ 1,310.73	\$ 1,307.14	-
	5423300000	5423300890	7.31	364	\$ 1,310.73	\$ 1,307.14	-
	6993100000	6993100921	7.31	364	\$ 1,310.73	\$ 1,307.14	-
	4594505222	4594505303	7.31	364	\$ 1,310.73	\$ 1,307.14	-
	5599600000	5599600421	7.5	364	\$ 1,344.79	\$ 1,341.11	-
	6233310000	6233310753	7.5	364	\$ 1,344.79	\$ 1,341.11	-
	9320900000	9320900241	7.52	364	\$ 1,348.38	\$ 1,344.69	-
	3062500000	3062500266	7.52	364	\$ 1,348.38	\$ 1,344.69	-
	8228600000	8228600777	7.52	364	\$ 1,348.38	\$ 1,344.69	-
	2892300000	2892300211	7.52	364	\$ 1,348.38	\$ 1,344.69	-
	7547100000	7547100262	7.7	364	\$ 1,380.66	\$ 1,376.87	-
	9499010000	9499010729	7.7	364	\$ 1,380.66	\$ 1,376.87	-
	3116600000	3116600558	7.7	364	\$ 1,380.66	\$ 1,376.87	-
	8285300000	8285300225	7.74	364	\$ 1,387.83	\$ 1,384.03	-
	7902300000	7902300394	7.74	364	\$ 1,387.83	\$ 1,384.03	-
	3756300000	3756300827	7.74	364	\$ 1,387.83	\$ 1,384.03	-
	3718210000	3718210469	7.74	364	\$ 1,387.83	\$ 1,384.03	-
	6045100000	6045100666	7.74	364	\$ 1,387.83	\$ 1,384.03	-
	8663310000	8663310833	7.75	364	\$ 1,389.62	\$ 1,385.81	-
	6353100000	6353100382	7.95	364	\$ 1,425.48	\$ 1,421.58	-
	4690700000	4690700675	7.95	364	\$ 1,425.48	\$ 1,421.58	-
	4749000000	4749000412	7.95	364	\$ 1,425.48	\$ 1,421.58	-
	7512210000	7512210342	7.95	364	\$ 1,425.48	\$ 1,421.58	-
	9303200000	9303200587	7.95	364	\$ 1,425.48	\$ 1,421.58	-
	5622200000	5622200960	7.95	364	\$ 1,425.48	\$ 1,421.58	-
	8780210000	8780210679	8	364	\$ 1,434.45	\$ 1,430.52	-
	5340110000	5340110445	8	364	\$ 1,434.45	\$ 1,430.52	-
	8632100000	8632100572	8	364	\$ 1,434.45	\$ 1,430.52	-
	4835400000	4835400358	8	364	\$ 1,434.45	\$ 1,430.52	-
	8618000000	8618000791	8	364	\$ 1,434.45	\$ 1,430.52	-
	9253000000	9253000077	8	364	\$ 1,434.45	\$ 1,430.52	-
	8658210000	8658210762	8	364	\$ 1,434.45	\$ 1,430.52	-
	4454000000	4454000296	8	364	\$ 1,434.45	\$ 1,430.52	-
	3905407308	3905407338	8	364	\$ 1,434.45	\$ 1,430.52	-
	7860400000	7860400196	8	364	\$ 1,434.45	\$ 1,430.52	-
	3756200000	3756200925	8.01	364	\$ 1,436.24	\$ 1,432.31	-
	8027000000	8027000389	8.17	364	\$ 1,464.93	\$ 1,460.92	-
	8600410000	8600410198	8.17	364	\$ 1,464.93	\$ 1,460.92	-
	7437310000	7437310172	8.17	364	\$ 1,464.93	\$ 1,460.92	-
	8148200000	8148200547	8.17	364	\$ 1,464.93	\$ 1,460.92	-



Rate Class	Customer Number	Service Agreement Number	Sum of Size (KW)	Sum of Days to FY 17	Estimated Annual Revenue Loss \$	FY 17 Estimated Revenue Loss \$	Net Credit to Grid (kWh)
	8774000000	8774000570	8.25	364	\$ 1,479.27	\$ 1,475.22	-
	8356500000	8356500489	8.38	364	\$ 1,502.58	\$ 1,498.47	-
	6518000000	6518000774	8.38	364	\$ 1,502.58	\$ 1,498.47	-
	8010100000	8010100083	8.38	364	\$ 1,502.58	\$ 1,498.47	-
	9346200000	9346200590	8.38	364	\$ 1,502.58	\$ 1,498.47	-
	4658652336	4658652176	8.38	364	\$ 1,502.58	\$ 1,498.47	-
	9875100000	9875100114	8.4	364	\$ 1,506.17	\$ 1,502.04	-
	5423110000	5423110323	8.6	364	\$ 1,542.03	\$ 1,537.81	-
	4706310000	4706310542	8.6	364	\$ 1,542.03	\$ 1,537.81	-
	5043100000	5043100233	8.6	364	\$ 1,542.03	\$ 1,537.81	-
	6156500000	6156500627	8.6	364	\$ 1,542.03	\$ 1,537.81	-
	7334510000	7334510366	8.6	364	\$ 1,542.03	\$ 1,537.81	-
	7887510000	7887510397	8.6	364	\$ 1,542.03	\$ 1,537.81	-
	3387900000	3387900084	12.9	364	\$ 2,313.05	\$ 2,306.71	-
	4708100000	4708100606	8.6	364	\$ 1,542.03	\$ 1,537.81	-
	4357400000	4357400812	8.6	364	\$ 1,542.03	\$ 1,537.81	-
	5192100000	5192100258	8.6	364	\$ 1,542.03	\$ 1,537.81	-
	9881100000	9881100963	8.8	364	\$ 1,577.89	\$ 1,573.57	-
	7441310000	7441310320	8.8	364	\$ 1,577.89	\$ 1,573.57	-
	8908100000	8908100638	8.81	364	\$ 1,579.69	\$ 1,575.36	-
	7484400000	7484400173	8.81	364	\$ 1,579.69	\$ 1,575.36	-
	9176200000	9176200271	8.82	364	\$ 1,581.48	\$ 1,577.15	-
	4600510000	4600510924	9	364	\$ 1,613.75	\$ 1,609.33	-
	7907000000	7907000235	9	364	\$ 1,613.75	\$ 1,609.33	-
	9882310000	9882310627	11.36	364	\$ 2,036.92	\$ 2,031.33	-
	7208900000	7208900494	9	364	\$ 1,613.75	\$ 1,609.33	-
	3850400000	3850400882	9.03	364	\$ 1,619.13	\$ 1,614.70	-
	6505400000	6505400802	9.03	364	\$ 1,619.13	\$ 1,614.70	-
	5085302137	5085302224	9.24	364	\$ 1,656.79	\$ 1,652.25	-
	4803500000	4803500407	9.25	364	\$ 1,658.58	\$ 1,654.04	-
	9342900000	9342900872	9.36	364	\$ 1,678.30	\$ 1,673.71	-
	5191000000	5191000531	9.46	364	\$ 1,696.23	\$ 1,691.59	-
	7281400000	7281400663	9.5	364	\$ 1,703.41	\$ 1,698.74	-
	8333100000	8333100560	9.5	364	\$ 1,703.41	\$ 1,698.74	-
	9424010000	9424010775	9.5	364	\$ 1,703.41	\$ 1,698.74	-
	8411700000	8411700067	9.5	364	\$ 1,703.41	\$ 1,698.74	-
	6978200000	6978200278	9.5	364	\$ 1,703.41	\$ 1,698.74	-
	8983100000	8983100804	9.54	364	\$ 1,710.58	\$ 1,705.89	-
	5684500000	5684500067	9.6	364	\$ 1,721.34	\$ 1,716.62	-
	7259000000	7259000468	9.67	364	\$ 1,733.89	\$ 1,729.14	-
	9989500000	9989500811	9.67	364	\$ 1,733.89	\$ 1,729.14	-
	9279800000	9279800377	9.67	364	\$ 1,733.89	\$ 1,729.14	-
	4206110000	4206110770	9.67	364	\$ 1,733.89	\$ 1,729.14	-
	5183010000	5183010566	9.67	364	\$ 1,733.89	\$ 1,729.14	-
	4467300000	4467300121	9.67	364	\$ 1,733.89	\$ 1,729.14	-
	9664100000	9664100699	9.7	364	\$ 1,739.27	\$ 1,734.50	-
	4000000000	4000000270	9.7	364	\$ 1,739.27	\$ 1,734.50	-
	7511700000	7511700077	9.75	364	\$ 1,748.23	\$ 1,743.44	-
	8973310000	8973310198	9.89	364	\$ 1,773.34	\$ 1,768.48	-
	5528000000	5528000899	9.89	364	\$ 1,773.34	\$ 1,768.48	-
	6275110000	6275110823	9.89	364	\$ 1,773.34	\$ 1,768.48	-
	8523200000	8523200636	9.89	364	\$ 1,773.34	\$ 1,768.48	-
	5280000000	5280000884	9.89	364	\$ 1,773.34	\$ 1,768.48	-
	6194100000	6194100997	9.89	364	\$ 1,773.34	\$ 1,768.48	-
	9690000000	9690000049	10	364	\$ 1,793.06	\$ 1,788.15	-
	9272008664	9272008190	10	364	\$ 1,793.06	\$ 1,788.15	-
	6452010000	6452010858	10	364	\$ 1,793.06	\$ 1,788.15	-
	7275310000	7275310729	10.1	364	\$ 1,810.99	\$ 1,806.03	-

Rate Class	Customer Number	Service Agreement Number	Sum of Size (KW)	Sum of Days to FY 17	Estimated Annual Revenue Loss \$	FY 17 Estimated Revenue Loss \$	Net Credit to Grid (kWh)
	8520400000	8520400324	10.1	364	\$ 1,810.99	\$ 1,806.03	-
	5665200000	5665200975	10.1	364	\$ 1,810.99	\$ 1,806.03	-
	6673100000	6673100653	10.1	364	\$ 1,810.99	\$ 1,806.03	-
	9530000000	9530000680	10.3	364	\$ 1,846.85	\$ 1,841.79	-
	6560100000	6560100537	10.3	364	\$ 1,846.85	\$ 1,841.79	-
	9758210000	9758210679	10.31	364	\$ 1,848.64	\$ 1,843.58	-
	5006400000	5006400341	10.32	364	\$ 1,850.44	\$ 1,845.37	-
	9589800000	9589800711	10.32	364	\$ 1,850.44	\$ 1,845.37	-
	7949900000	7949900368	10.32	364	\$ 1,850.44	\$ 1,845.37	-
	9633100000	9633100187	10.32	364	\$ 1,850.44	\$ 1,845.37	-
	7532100000	7532100557	10.5	364	\$ 1,882.71	\$ 1,877.55	-
	8209110000	8209110595	10.5	364	\$ 1,882.71	\$ 1,877.55	-
	9825700000	9825700477	10.5	364	\$ 1,882.71	\$ 1,877.55	-
	6643200000	6643200247	10.535	364	\$ 1,888.99	\$ 1,883.81	-
	7419410000	7419410849	10.7	364	\$ 1,918.57	\$ 1,913.32	-
	8858500000	8858500829	10.75	364	\$ 1,927.54	\$ 1,922.26	-
	4814000000	4814000871	10.75	364	\$ 1,927.54	\$ 1,922.26	-
	9605210000	9605210526	10.75	364	\$ 1,927.54	\$ 1,922.26	-
	8869110000	8869110096	10.75	364	\$ 1,927.54	\$ 1,922.26	-
	4494000000	4494000755	10.75	364	\$ 1,927.54	\$ 1,922.26	-
	7339010000	7339010326	10.75	364	\$ 1,927.54	\$ 1,922.26	-
	6165600000	6165600612	10.75	364	\$ 1,927.54	\$ 1,922.26	-
	7271584720	7271584909	10.96	364	\$ 1,965.19	\$ 1,959.81	-
	5778200000	5778200256	10.96	364	\$ 1,965.19	\$ 1,959.81	-
	9736300000	9736300425	10.97	364	\$ 1,966.99	\$ 1,961.60	-
	7602100000	7602100188	10.97	364	\$ 1,966.99	\$ 1,961.60	-
	5388700000	5388700898	10.97	364	\$ 1,966.99	\$ 1,961.60	-
	9978210000	9978210242	10.97	364	\$ 1,966.99	\$ 1,961.60	-
	7413100000	7413100334	10.97	364	\$ 1,966.99	\$ 1,961.60	-
	7382670673	7382670345	10.97	364	\$ 1,966.99	\$ 1,961.60	-
	8557500000	8557500532	10.97	364	\$ 1,966.99	\$ 1,961.60	-
	5663778877	5663778066	10.97	364	\$ 1,966.99	\$ 1,961.60	-
	7474100000	7474100787	10.97	364	\$ 1,966.99	\$ 1,961.60	-
	5721500000	5721500404	10.97	364	\$ 1,966.99	\$ 1,961.60	-
	8116500000	8116500803	10.97	364	\$ 1,966.99	\$ 1,961.60	-
	8560010000	8560010940	10.97	364	\$ 1,966.99	\$ 1,961.60	-
	9320686594	9320686965	10.97	364	\$ 1,966.99	\$ 1,961.60	-
	9714700000	9714700043	10.97	364	\$ 1,966.99	\$ 1,961.60	-
	9522010000	9522010175	10.97	364	\$ 1,966.99	\$ 1,961.60	-
	6489400000	6489400349	10.97	364	\$ 1,966.99	\$ 1,961.60	-
	9790300000	9790300048	10.97	364	\$ 1,966.99	\$ 1,961.60	-
	7803400000	7803400519	10.97	364	\$ 1,966.99	\$ 1,961.60	-
	5210200000	5210200081	10.97	364	\$ 1,966.99	\$ 1,961.60	-
	9581100000	9581100926	11	364	\$ 1,972.37	\$ 1,966.96	-
	8976000000	8976000862	11	364	\$ 1,972.37	\$ 1,966.96	-
	8433000000	8433000436	11	364	\$ 1,972.37	\$ 1,966.96	-
	8584100000	8584100927	11	364	\$ 1,972.37	\$ 1,966.96	-
	6208510000	6208510574	11	364	\$ 1,972.37	\$ 1,966.96	-
	6578500000	6578500212	11.18	364	\$ 2,004.64	\$ 1,999.15	-
	8571200000	8571200816	11.18	364	\$ 2,004.64	\$ 1,999.15	-
	6390500000	6390500641	11.2	364	\$ 2,008.23	\$ 2,002.72	-
	6744000000	6744000216	11.6	364	\$ 2,079.95	\$ 2,074.25	-
	9037800000	9037800440	11.8	364	\$ 2,115.81	\$ 2,110.01	-
	8908200000	8908200803	11.83	364	\$ 2,121.19	\$ 2,115.38	-
	6888000000	6888000694	11.83	364	\$ 2,121.19	\$ 2,115.38	-
	9819400000	9819400316	12	364	\$ 2,151.67	\$ 2,145.78	-
	5791900000	5791900999	12	364	\$ 2,151.67	\$ 2,145.78	-
	6744100000	6744100472	12.04	364	\$ 2,158.84	\$ 2,152.93	-

Rate Class	Customer Number	Service Agreement Number	Sum of Size (KW)	Sum of Days to FY 17	Estimated Annual Revenue Loss \$	FY 17 Estimated Revenue Loss \$	Net Credit to Grid (kWh)
	5945600000	5945600298	12.04	364	\$ 2,158.84	\$ 2,152.93	-
	8907600000	8907600597	12.04	364	\$ 2,158.84	\$ 2,152.93	-
	6151110000	6151110761	12.15	364	\$ 2,178.57	\$ 2,172.60	-
	6996000000	6996000091	12.47	364	\$ 2,235.94	\$ 2,229.82	-
	9714000000	9714000865	12.9	364	\$ 2,313.05	\$ 2,306.71	-
	9429200000	9429200180	17	364	\$ 3,048.20	\$ 3,039.85	-
	6795100000	6795100056	13.11	364	\$ 2,350.70	\$ 2,344.26	-
	6596000000	6596000039	13.11	364	\$ 2,350.70	\$ 2,344.26	-
	9814210000	9814210573	13.25	364	\$ 2,375.80	\$ 2,369.29	-
	8893100000	8893100911	13.3	364	\$ 2,384.77	\$ 2,378.24	-
	9264000000	9264000394	13.32	364	\$ 2,388.35	\$ 2,381.81	-
	9861300000	9861300537	13.97	364	\$ 2,504.90	\$ 2,498.04	-
	7772000000	7772000453	14	364	\$ 2,510.28	\$ 2,503.41	-
	9647310000	9647310389	14.6	364	\$ 2,617.87	\$ 2,610.69	-
	8125800000	8125800049	14.62	364	\$ 2,621.45	\$ 2,614.27	-
	7848000000	7848000208	14.62	364	\$ 2,621.45	\$ 2,614.27	-
	8598200000	8598200652	14.62	364	\$ 2,621.45	\$ 2,614.27	-
	8011400000	8011400063	14.62	364	\$ 2,621.45	\$ 2,614.27	-
	9925100000	9925100538	14.62	364	\$ 2,621.45	\$ 2,614.27	-
	9701000000	9701000176	14.62	364	\$ 2,621.45	\$ 2,614.27	-
	7800410000	7800410222	14.62	364	\$ 2,621.45	\$ 2,614.27	-
	8492110000	8492110611	14.62	364	\$ 2,621.45	\$ 2,614.27	-
	9115900000	9115900019	14.62	364	\$ 2,621.45	\$ 2,614.27	-
	9079900000	9079900777	14.62	364	\$ 2,621.45	\$ 2,614.27	-
	9208410000	9208410187	14.62	364	\$ 2,621.45	\$ 2,614.27	-
	7952510000	7952510618	14.62	364	\$ 2,621.45	\$ 2,614.27	-
	7043187679	7043187684	14.62	364	\$ 2,621.45	\$ 2,614.27	-
	6994410000	6994410341	14.62	364	\$ 2,621.45	\$ 2,614.27	-
	8508400000	8508400987	14.62	364	\$ 2,621.45	\$ 2,614.27	-
	8674900000	8674900451	15.05	364	\$ 2,698.55	\$ 2,691.16	-
	8410900000	8410900949	15.7	364	\$ 2,815.10	\$ 2,807.39	-
	8401200000	8401200170	16.34	364	\$ 2,929.86	\$ 2,921.83	-
	8092100000	8092100251	17	364	\$ 3,048.20	\$ 3,039.85	-
	9165010000	9165010915	18	364	\$ 3,227.51	\$ 3,218.66	-
	8858200000	8858200853	1.5	364	\$ 268.96	\$ 268.22	-
	9846600000	9846600351	7	364	\$ 1,255.14	\$ 1,251.70	-
	8839200000	8839200534	4.5	364	\$ 806.88	\$ 804.67	-
	9310200000	9310200095	3.82	364	\$ 684.95	\$ 683.07	-
	9720600000	9720600603	7	364	\$ 1,255.14	\$ 1,251.70	-
	8624486606	8624486670	12.5	364	\$ 2,241.32	\$ 2,235.18	-
	8768900000	8768900017	5.4	364	\$ 968.25	\$ 965.60	-
	9274110000	9274110783	4.3	364	\$ 771.02	\$ 768.90	-
	9883700000	9883700554	2	364	\$ 358.61	\$ 357.63	-
	9291600000	9291600504	3	364	\$ 537.92	\$ 536.44	-
	9768800000	9768800115	14.62	364	\$ 2,621.45	\$ 2,614.27	-
	9128100000	9128100974	7.5	364	\$ 1,344.79	\$ 1,341.11	-
	9247200000	9247200265	6	364	\$ 1,075.84	\$ 1,072.89	-
	9059110000	9059110519	9.4	364	\$ 1,685.48	\$ 1,680.86	-
	9724000000	9724000992	3.86	364	\$ 692.12	\$ 690.22	-
	9778110000	9778110960	8.81	364	\$ 1,579.69	\$ 1,575.36	-
	8978110000	8978110982	7	364	\$ 1,255.14	\$ 1,251.70	-
	9366300000	9366300900	8.6	364	\$ 1,542.03	\$ 1,537.81	-
	9364000000	9364000148	7.31	364	\$ 1,310.73	\$ 1,307.14	-
	9273940367	9273940327	7.31	364	\$ 1,310.73	\$ 1,307.14	-
	9646100000	9646100235	17.84	364	\$ 3,198.82	\$ 3,190.05	-
	6531000000	0653100411	1.62	364	\$ 290.48	\$ 289.68	-
	370939757	0370939838	2.79	364	\$ 500.26	\$ 498.89	-
	389302610	0389302972	3	364	\$ 537.92	\$ 536.44	-

Rate Class	Customer Number	Service Agreement Number	Sum of Size (KW)	Sum of Days to FY 17	Estimated Annual Revenue Loss \$	FY 17 Estimated Revenue Loss \$	Net Credit to Grid (kWh)
	859500000	0859500093	3.6	364	\$ 645.50	\$ 643.73	-
	772000000	0077200961	4.08	364	\$ 731.57	\$ 729.56	-
	944900000	0944900764	4.3	364	\$ 771.02	\$ 768.90	-
	447800000	0447800769	5	364	\$ 896.53	\$ 894.07	-
	1234010000	1234010856	5	364	\$ 896.53	\$ 894.07	-
	1055510000	1055510818	5	364	\$ 896.53	\$ 894.07	-
	1066700000	1066700425	5	364	\$ 896.53	\$ 894.07	-
	5021000000	0502100167	5.16	364	\$ 925.22	\$ 922.68	-
	1486000000	1486000914	5.16	364	\$ 925.22	\$ 922.68	-
	794966648	0794966458	5.38	364	\$ 964.67	\$ 962.02	-
	1738310000	1738310571	6	364	\$ 1,075.84	\$ 1,072.89	-
	735513300	0735513917	6	364	\$ 1,075.84	\$ 1,072.89	-
	1805200000	1805200746	6	364	\$ 1,075.84	\$ 1,072.89	-
	6030000000	0603000090	6	364	\$ 1,075.84	\$ 1,072.89	-
	5940000000	0594000761	6	364	\$ 1,075.84	\$ 1,072.89	-
	4211000000	0421100695	6.02	364	\$ 1,079.42	\$ 1,076.46	-
	1914100000	1914100148	6.23	364	\$ 1,117.08	\$ 1,114.02	-
	1767410000	1767410245	6.23	364	\$ 1,117.08	\$ 1,114.02	-
	1647100000	1647100267	6.4	364	\$ 1,147.56	\$ 1,144.41	-
	4113100000	0411310552	6.45	364	\$ 1,156.52	\$ 1,153.35	-
	9962000000	0996200384	6.45	364	\$ 1,156.52	\$ 1,153.35	-
	1964510000	1964510350	6.45	364	\$ 1,156.52	\$ 1,153.35	-
	1066310000	1066310460	6.45	364	\$ 1,156.52	\$ 1,153.35	-
	1330410000	1330410950	6.45	364	\$ 1,156.52	\$ 1,153.35	-
	6762100000	0676210830	6.7	364	\$ 1,201.35	\$ 1,198.06	-
	2134200000	2134200938	7	364	\$ 1,255.14	\$ 1,251.70	-
	1891210000	1891210953	7	364	\$ 1,255.14	\$ 1,251.70	-
	9272000000	0927200914	7	364	\$ 1,255.14	\$ 1,251.70	-
	2053210000	2053210036	7.05	364	\$ 1,264.11	\$ 1,260.64	-
	1888010000	1888010228	7.09	364	\$ 1,271.28	\$ 1,267.80	-
	1836010000	1836010500	7.3	364	\$ 1,308.93	\$ 1,305.35	-
	1714010000	1714010495	7.31	364	\$ 1,310.73	\$ 1,307.14	-
	1572300000	1572300761	7.31	364	\$ 1,310.73	\$ 1,307.14	-
	2558816867	2558816283	7.31	364	\$ 1,310.73	\$ 1,307.14	-
	1597000000	1597000061	7.31	364	\$ 1,310.73	\$ 1,307.14	-
	1759000000	1759000529	7.31	364	\$ 1,310.73	\$ 1,307.14	-
	1374800000	1374800901	7.31	364	\$ 1,310.73	\$ 1,307.14	-
	2189100000	2189100615	7.31	364	\$ 1,310.73	\$ 1,307.14	-
	2009584529	2009584743	7.31	364	\$ 1,310.73	\$ 1,307.14	-
	1678010000	1678010907	7.31	364	\$ 1,310.73	\$ 1,307.14	-
	2019000000	2019000970	7.31	364	\$ 1,310.73	\$ 1,307.14	-
	1723473604	1723473111	7.31	364	\$ 1,310.73	\$ 1,307.14	-
	1656310000	1656310412	7.31	364	\$ 1,310.73	\$ 1,307.14	-
	2325010000	2325010944	7.5	364	\$ 1,344.79	\$ 1,341.11	-
	2762100000	2762100953	7.52	364	\$ 1,348.38	\$ 1,344.69	-
	1598000000	1598000774	7.52	364	\$ 1,348.38	\$ 1,344.69	-
	1803510000	1803510003	7.7	364	\$ 1,380.66	\$ 1,376.87	-
	2911873768	2911873056	7.7	364	\$ 1,380.66	\$ 1,376.87	-
	2061900000	2061900210	7.74	364	\$ 1,387.83	\$ 1,384.03	-
	2376210000	2376210609	7.74	364	\$ 1,387.83	\$ 1,384.03	-
	2549310000	2549310581	7.74	364	\$ 1,387.83	\$ 1,384.03	-
	2811010000	2811010874	8	364	\$ 1,434.45	\$ 1,430.52	-
	2066700000	2066700426	8	364	\$ 1,434.45	\$ 1,430.52	-
	2096200000	2096200664	8	364	\$ 1,434.45	\$ 1,430.52	-
	2326510000	2326510899	8	364	\$ 1,434.45	\$ 1,430.52	-
	2535410000	2535410287	8.17	364	\$ 1,464.93	\$ 1,460.92	-
	3111100000	3111100535	8.17	364	\$ 1,464.93	\$ 1,460.92	-
	2353310000	2353310190	8.17	364	\$ 1,464.93	\$ 1,460.92	-

Rate Class	Customer Number	Service Agreement Number	Sum of Size (KW)	Sum of Days to FY 17	Estimated Annual Revenue Loss \$	FY 17 Estimated Revenue Loss \$	Net Credit to Grid (kWh)
	2392310000	2392310885	8.17	364	\$ 1,464.93	\$ 1,460.92	-
	3085100000	3085100129	8.2	364	\$ 1,470.31	\$ 1,466.28	-
	3158210000	3158210701	8.5	364	\$ 1,524.10	\$ 1,519.92	-
	2911800000	2911800827	8.6	364	\$ 1,542.03	\$ 1,537.81	-
	2823010000	2823010418	8.8	364	\$ 1,577.89	\$ 1,573.57	-
	3034410000	3034410850	9	364	\$ 1,613.75	\$ 1,609.33	-
	3018410000	3018410496	9	364	\$ 1,613.75	\$ 1,609.33	-
	3394700000	3394700715	9	364	\$ 1,613.75	\$ 1,609.33	-
	3248000000	3248000123	9.3	364	\$ 1,667.55	\$ 1,662.98	-
	3552800000	3552800259	9.89	364	\$ 1,773.34	\$ 1,768.48	-
	9681100000	0968110859	7.31	364	\$ 1,310.73	\$ 1,307.14	-
	9832100000	0983210868	7.31	364	\$ 1,310.73	\$ 1,307.14	-
	1142100000	1142100630	7.31	364	\$ 1,310.73	\$ 1,307.14	-
	9873000000	0987300592	7.31	364	\$ 1,310.73	\$ 1,307.14	-
	1119000000	1119000985	10	364	\$ 1,793.06	\$ 1,788.15	-
	1217410000	1217410703	7.74	364	\$ 1,387.83	\$ 1,384.03	-
	1017510000	1017510135	8	364	\$ 1,434.45	\$ 1,430.52	-
	1688200000	1688200347	8.17	364	\$ 1,464.93	\$ 1,460.92	-
	1847100000	1847100290	8.38	364	\$ 1,502.58	\$ 1,498.47	-
	2434800000	2434800106	8.4	364	\$ 1,506.17	\$ 1,502.04	-
	1734510000	1734510418	8.6	364	\$ 1,542.03	\$ 1,537.81	-
	2603410000	2603410523	8.6	364	\$ 1,542.03	\$ 1,537.81	-
	2336000000	2336000288	9.46	364	\$ 1,696.23	\$ 1,691.59	-
	2442336083	2442336432	9.5	364	\$ 1,703.41	\$ 1,698.74	-
	2988600000	2988600103	9.89	364	\$ 1,773.34	\$ 1,768.48	-
	2462310000	2462310126	10	364	\$ 1,793.06	\$ 1,788.15	-
	3559410000	3559410900	10.1	364	\$ 1,810.99	\$ 1,806.03	-
	3250100000	3250100364	10.3	364	\$ 1,846.85	\$ 1,841.79	-
	2605010000	2605010575	10.32	364	\$ 1,850.44	\$ 1,845.37	-
	3911300000	3911300486	10.75	364	\$ 1,927.54	\$ 1,922.26	-
	3024900000	3024900071	10.75	364	\$ 1,927.54	\$ 1,922.26	-
	3958210000	3958210792	10.9	364	\$ 1,954.43	\$ 1,949.08	-
	3899010000	3899010767	10.97	364	\$ 1,966.99	\$ 1,961.60	-
	3985100000	3985100962	10.97	364	\$ 1,966.99	\$ 1,961.60	-
	3304100000	3304100961	10.97	364	\$ 1,966.99	\$ 1,961.60	-
	3027684156	3027684986	10.97	364	\$ 1,966.99	\$ 1,961.60	-
	3959000000	3959000553	10.97	364	\$ 1,966.99	\$ 1,961.60	-
	2174100000	2174100743	10.97	364	\$ 1,966.99	\$ 1,961.60	-
	3481400000	3481400680	10.97	364	\$ 1,966.99	\$ 1,961.60	-
	2688210000	2688210514	10.97	364	\$ 1,966.99	\$ 1,961.60	-
	2713200000	2713200545	10.97	364	\$ 1,966.99	\$ 1,961.60	-
	2690500000	2690500671	10.97	364	\$ 1,966.99	\$ 1,961.60	-
	4253400085	4253400203	10.97	364	\$ 1,966.99	\$ 1,961.60	-
	4549300000	4549300569	10.97	364	\$ 1,966.99	\$ 1,961.60	-
	2720200000	2720200447	10.97	364	\$ 1,966.99	\$ 1,961.60	-
	4353000000	4353000083	10.97	364	\$ 1,966.99	\$ 1,961.60	-
	3120200000	3120200176	10.97	364	\$ 1,966.99	\$ 1,961.60	-
	2207800000	2207800945	10.97	364	\$ 1,966.99	\$ 1,961.60	-
	1894400000	1894400521	10.97	364	\$ 1,966.99	\$ 1,961.60	-
	2914100000	2914100149	10.97	364	\$ 1,966.99	\$ 1,961.60	-
	3163500000	3163500455	11	364	\$ 1,972.37	\$ 1,966.96	-
	3167900000	3167900646	11	364	\$ 1,972.37	\$ 1,966.96	-
	2557100000	2557100370	11	364	\$ 1,972.37	\$ 1,966.96	-
	3663985122	3663985351	11	364	\$ 1,972.37	\$ 1,966.96	-
	4398000000	4398000748	11	364	\$ 1,972.37	\$ 1,966.96	-
	3006310000	3006310255	11	364	\$ 1,972.37	\$ 1,966.96	-
	2833900000	2833900136	11.59	364	\$ 2,078.16	\$ 2,072.46	-
	4195410000	4195410653	11.6	364	\$ 2,079.95	\$ 2,074.25	-

Rate Class	Customer Number	Service Agreement Number	Sum of Size (KW)	Sum of Days to FY 17	Estimated Annual Revenue Loss \$	FY 17 Estimated Revenue Loss \$	Net Credit to Grid (kWh)
	3801100000	3801100495	11.61	364	\$ 2,081.74	\$ 2,076.04	-
	2540200000	2540200878	11.61	364	\$ 2,081.74	\$ 2,076.04	-
	5124200000	5124200828	11.8	364	\$ 2,115.81	\$ 2,110.01	-
	5290210000	5290210923	12	364	\$ 2,151.67	\$ 2,145.78	-
	2517010000	2517010486	12	364	\$ 2,151.67	\$ 2,145.78	-
	4578100000	4578100198	12.02	364	\$ 2,155.26	\$ 2,149.35	-
	4466000000	4466000671	12.04	364	\$ 2,158.84	\$ 2,152.93	-
	3727200000	3727200896	12.25	364	\$ 2,196.50	\$ 2,190.48	-
	2512200000	2512200644	12.47	364	\$ 2,235.94	\$ 2,229.82	-
	4553100000	4553100403	12.47	364	\$ 2,235.94	\$ 2,229.82	-
	4204100000	4204100950	12.47	364	\$ 2,235.94	\$ 2,229.82	-
	2839000000	2839000311	12.5	364	\$ 2,241.32	\$ 2,235.18	-
	5070100000	5070100597	13	364	\$ 2,330.98	\$ 2,324.59	-
	4260100000	4260100496	13.3	364	\$ 2,384.77	\$ 2,378.24	-
	2772271223	2772271712	13.76	364	\$ 2,467.25	\$ 2,460.49	-
	5466000000	5466000673	13.97	364	\$ 2,504.90	\$ 2,498.04	-
	3767000000	3767000689	14	364	\$ 2,510.28	\$ 2,503.41	-
	3500400000	3500400704	14.62	364	\$ 2,621.45	\$ 2,614.27	-
	2843210000	2843210015	14.62	364	\$ 2,621.45	\$ 2,614.27	-
	4369800000	4369800094	14.62	364	\$ 2,621.45	\$ 2,614.27	-
	3194100000	3194100992	14.62	364	\$ 2,621.45	\$ 2,614.27	-
	4567100000	4567100685	14.62	364	\$ 2,621.45	\$ 2,614.27	-
	6228400000	6228400267	14.62	364	\$ 2,621.45	\$ 2,614.27	-
	6440510000	6440510932	14.62	364	\$ 2,621.45	\$ 2,614.27	-
	4634900000	4634900436	14.62	364	\$ 2,621.45	\$ 2,614.27	-
	3715100000	3715100307	14.62	364	\$ 2,621.45	\$ 2,614.27	-
	4696600000	4696600247	14.62	364	\$ 2,621.45	\$ 2,614.27	-
	4479300000	4479300166	14.62	364	\$ 2,621.45	\$ 2,614.27	-
	3475000000	3475000152	14.62	364	\$ 2,621.45	\$ 2,614.27	-
	6253100000	6253100370	14.62	364	\$ 2,621.45	\$ 2,614.27	-
	6347600000	6347600372	14.62	364	\$ 2,621.45	\$ 2,614.27	-
	3224400000	3224400890	14.62	364	\$ 2,621.45	\$ 2,614.27	-
	4656210000	4656210418	14.62	364	\$ 2,621.45	\$ 2,614.27	-
	2946600000	2946600357	14.62	364	\$ 2,621.45	\$ 2,614.27	-
	5278223506	5278223856	15.7	364	\$ 2,815.10	\$ 2,807.39	-
	4435000000	4435000194	16	364	\$ 2,868.89	\$ 2,861.03	-
	4519100000	4519100072	16.77	364	\$ 3,006.96	\$ 2,998.72	-
	4876310000	4876310886	16.98	364	\$ 3,044.61	\$ 3,036.27	-
	7083000000	7083000408	17	364	\$ 3,048.20	\$ 3,039.85	-
	3379210000	3379210482	17.2	364	\$ 3,084.06	\$ 3,075.61	-
	5143023232	5143023157	18.5	364	\$ 3,317.16	\$ 3,308.07	-
	3836000000	3836000341	18.9	364	\$ 3,388.88	\$ 3,379.60	-
	3490600000	3490600271	18.92	364	\$ 3,392.47	\$ 3,383.17	-
	4675310000	4675310774	19.35	364	\$ 3,469.57	\$ 3,460.06	-
	7032100000	7032100499	8.4	364	\$ 1,506.17	\$ 1,502.04	-
	7642500000	7642500116	1	364	\$ 179.31	\$ 178.81	-
	4137800000	4137800446	6	364	\$ 1,075.84	\$ 1,072.89	-
	8003900000	8003900360	13	364	\$ 2,330.98	\$ 2,324.59	-
	7504100000	7504100989	5	364	\$ 896.53	\$ 894.07	-
	6923000000	6923000371	9.5	364	\$ 1,703.41	\$ 1,698.74	-
	7795200000	7795200709	10.97	364	\$ 1,966.99	\$ 1,961.60	-
	7626500000	7626500154	21.5	364	\$ 3,855.08	\$ 3,844.52	-
	6206600000	6206600269	7	364	\$ 1,255.14	\$ 1,251.70	-
	4401010000	4401010728	9	364	\$ 1,613.75	\$ 1,609.33	-
	7860900000	7860900092	5	364	\$ 896.53	\$ 894.07	-
	6327400000	6327400093	5.25	364	\$ 941.36	\$ 938.78	-
	7008100000	7008100530	9.25	364	\$ 1,658.58	\$ 1,654.04	-
	5813200000	5813200560	9.24	364	\$ 1,656.79	\$ 1,652.25	-



Rate Class	Customer Number	Service Agreement Number	Sum of Size (KW)	Sum of Days to FY 17	Estimated Annual Revenue Loss \$	FY 17 Estimated Revenue Loss \$	Net Credit to Grid (kWh)
	7078210000	7078210131	10.1	364	\$ 1,810.99	\$ 1,806.03	-
	7732100000	7732100582	5	364	\$ 896.53	\$ 894.07	-
	6810900000	6810900183	6	364	\$ 1,075.84	\$ 1,072.89	-
	6333000000	6333000420	5	364	\$ 896.53	\$ 894.07	-
	8061000000	8061000183	10	364	\$ 1,793.06	\$ 1,788.15	-
	6413000000	6413000189	3	364	\$ 537.92	\$ 536.44	-
	8424840332	8424840483	14	364	\$ 2,510.28	\$ 2,503.41	-
	8313110000	8313110004	7	364	\$ 1,255.14	\$ 1,251.70	-
	7499300000	7499300586	4.94	364	\$ 885.77	\$ 883.34	-
	7844000000	7844000229	10.75	364	\$ 1,927.54	\$ 1,922.26	-
	8666000000	8666000525	11	364	\$ 1,972.37	\$ 1,966.96	-
	3943300000	3943300368	4.73	364	\$ 848.12	\$ 845.79	-
	3999128980	3999128436	9.5	364	\$ 1,703.41	\$ 1,698.74	-
	5077510000	5077510921	18.72	364	\$ 3,356.61	\$ 3,347.41	-
	4375310000	4375310738	10.97	364	\$ 1,966.99	\$ 1,961.60	-
	4522300000	4522300762	5	364	\$ 896.53	\$ 894.07	-
	5765000000	5765000077	5.6	364	\$ 1,004.11	\$ 1,001.36	-
	4033500000	4033500859	8	364	\$ 1,434.45	\$ 1,430.52	-
	4842210000	4842210093	6.75	364	\$ 1,210.31	\$ 1,207.00	-
	4145300000	4145300186	8.81	364	\$ 1,579.69	\$ 1,575.36	-
	3960100000	3960100582	11	364	\$ 1,972.37	\$ 1,966.96	-
	4991900000	4991900020	7.31	364	\$ 1,310.73	\$ 1,307.14	-
	6028100000	6028100959	5	364	\$ 896.53	\$ 894.07	-
	7518000000	7518000776	8.17	364	\$ 1,464.93	\$ 1,460.92	-
	4193100000	4193100823	10.97	364	\$ 1,966.99	\$ 1,961.60	-
	6952110000	6952110854	6.5	364	\$ 1,165.49	\$ 1,162.30	-
	5108110000	5108110365	10.5	364	\$ 1,882.71	\$ 1,877.55	-
	5171100000	5171100740	8.38	364	\$ 1,502.58	\$ 1,498.47	-
	7088900000	7088900161	2	364	\$ 358.61	\$ 357.63	-
	7279800000	7279800373	9.89	364	\$ 1,773.34	\$ 1,768.48	-
	6787000000	6787000960	10.97	364	\$ 1,966.99	\$ 1,961.60	-
	7385700000	7385700855	7.74	364	\$ 1,387.83	\$ 1,384.03	-
	8715200000	8715200857	5.3	364	\$ 950.32	\$ 947.72	-
	6285010000	6285010329	6	364	\$ 1,075.84	\$ 1,072.89	-
	8189815898	8189815608	5	364	\$ 896.53	\$ 894.07	-
	4179200000	4179200267	10.97	364	\$ 1,966.99	\$ 1,961.60	-
	6635310000	6635310888	8.4	364	\$ 1,506.17	\$ 1,502.04	-
	8902400000	8902400348	4	364	\$ 717.22	\$ 715.26	-
	8225100000	8225100368	10.75	364	\$ 1,927.54	\$ 1,922.26	-
	5839000000	5839000314	10.97	364	\$ 1,966.99	\$ 1,961.60	-
	5492410000	5492410373	8.6	364	\$ 1,542.03	\$ 1,537.81	-
	4941500000	4941500055	7.31	364	\$ 1,310.73	\$ 1,307.14	-
	4851310000	4851310300	7	364	\$ 1,255.14	\$ 1,251.70	-
	7318600000	7318600477	5.16	364	\$ 925.22	\$ 922.68	-
	5260300000	5260300262	6	364	\$ 1,075.84	\$ 1,072.89	-
	8494900000	8494900835	10.97	364	\$ 1,966.99	\$ 1,961.60	-
	4360100000	4360100510	10.97	364	\$ 1,966.99	\$ 1,961.60	-
	8126310000	8126310688	6.7	364	\$ 1,201.35	\$ 1,198.06	-
	5009000000	5009000850	10.4	364	\$ 1,864.78	\$ 1,859.67	-
	6440010000	6440010514	8.81	364	\$ 1,579.69	\$ 1,575.36	-
	4550600000	4550600464	2.2	364	\$ 394.47	\$ 393.39	-
	7332000000	7332000017	14.62	364	\$ 2,621.45	\$ 2,614.27	-
	5717000000	5717000345	10.97	364	\$ 1,966.99	\$ 1,961.60	-
	8742100000	8742100711	7.31	364	\$ 1,310.73	\$ 1,307.14	-
	8441110000	8441110686	10.97	364	\$ 1,966.99	\$ 1,961.60	-
	7558310000	7558310017	12.6	364	\$ 2,259.25	\$ 2,253.06	-
	5093800000	5093800971	6	364	\$ 1,075.84	\$ 1,072.89	-
	25010000	0025010912	5.8	364	\$ 1,039.97	\$ 1,037.13	-

Rate Class	Customer Number	Service Agreement Number	Sum of Size (KW)	Sum of Days to FY 17	Estimated Annual Revenue Loss \$	FY 17 Estimated Revenue Loss \$	Net Credit to Grid (kWh)
	129212737	0129212980	7.1	364	\$ 1,273.07	\$ 1,269.58	-
	842310000	0842310734	7.31	364	\$ 1,310.73	\$ 1,307.14	-
	79410000	0079410335	7.31	364	\$ 1,310.73	\$ 1,307.14	-
	338000000	0338000175	7.5	364	\$ 1,344.79	\$ 1,341.11	-
	124100000	0124100171	7.7	364	\$ 1,380.66	\$ 1,376.87	-
	971100000	0971100828	7.74	364	\$ 1,387.83	\$ 1,384.03	-
	667800000	0667800194	8	364	\$ 1,434.45	\$ 1,430.52	-
	337600000	0337600062	8.4	364	\$ 1,506.17	\$ 1,502.04	-
	1002200000	1002200286	8.6	364	\$ 1,542.03	\$ 1,537.81	-
	928400000	0928400341	9	364	\$ 1,613.75	\$ 1,609.33	-
	1249000000	1249000357	9	364	\$ 1,613.75	\$ 1,609.33	-
	212210000	0212210320	9	364	\$ 1,613.75	\$ 1,609.33	-
	994510000	0994510188	10	364	\$ 1,793.06	\$ 1,788.15	-
	1045100000	1045100658	10.1	364	\$ 1,810.99	\$ 1,806.03	-
	714400000	0714400832	10.32	364	\$ 1,850.44	\$ 1,845.37	-
	1343100000	1343100261	10.53	364	\$ 1,888.09	\$ 1,882.92	-
	559010000	0559010920	10.9	364	\$ 1,954.43	\$ 1,949.08	-
	818000000	0818000808	10.97	364	\$ 1,966.99	\$ 1,961.60	-
	1604110000	1604110157	10.97	364	\$ 1,966.99	\$ 1,961.60	-
	1400100000	1400100995	10.97	364	\$ 1,966.99	\$ 1,961.60	-
	479000000	0479000730	10.97	364	\$ 1,966.99	\$ 1,961.60	-
	1154400000	1154400609	10.97	364	\$ 1,966.99	\$ 1,961.60	-
	921510000	0921510308	11	364	\$ 1,972.37	\$ 1,966.96	-
	1028400000	1028400142	11	364	\$ 1,972.37	\$ 1,966.96	-
	454100000	0454100548	11.18	364	\$ 2,004.64	\$ 1,999.15	-
	1553100000	1553100398	11.18	364	\$ 2,004.64	\$ 1,999.15	-
	783100000	0783100774	11.4	364	\$ 2,044.09	\$ 2,038.49	-
	1713310000	1713310365	11.54	364	\$ 2,069.19	\$ 2,063.52	-
	2048300000	2048300208	11.61	364	\$ 2,081.74	\$ 2,076.04	-
	1667100000	1667100695	11.78	364	\$ 2,112.22	\$ 2,106.44	-
	1777000000	1777000821	12	364	\$ 2,151.67	\$ 2,145.78	-
	1994000000	1994000813	12	364	\$ 2,151.67	\$ 2,145.78	-
	2049000000	2049000332	12	364	\$ 2,151.67	\$ 2,145.78	-
	1385510000	1385510314	12.04	364	\$ 2,158.84	\$ 2,152.93	-
	921600000	0921600049	12.25	364	\$ 2,196.50	\$ 2,190.48	-
	1373600000	1373600431	12.4	364	\$ 2,223.39	\$ 2,217.30	-
	2056200000	2056200844	12.47	364	\$ 2,235.94	\$ 2,229.82	-
	1668800000	1668800095	12.68	364	\$ 2,273.60	\$ 2,267.37	-
	2363100000	2363100494	13.11	364	\$ 2,350.70	\$ 2,344.26	-
	884110000	0884110145	13.54	364	\$ 2,427.80	\$ 2,421.15	-
	671300000	0671300822	13.86	364	\$ 2,485.18	\$ 2,478.37	-
	2048110000	2048110173	14.2	364	\$ 2,546.14	\$ 2,539.17	-
	771100000	0771100806	14.62	364	\$ 2,621.45	\$ 2,614.27	-
	655210000	0655210697	14.62	364	\$ 2,621.45	\$ 2,614.27	-
	2038210000	2038210252	14.62	364	\$ 2,621.45	\$ 2,614.27	-
	1524410000	1524410544	14.62	364	\$ 2,621.45	\$ 2,614.27	-
	1458000000	1458000276	14.62	364	\$ 2,621.45	\$ 2,614.27	-
	1590100000	1590100908	14.62	364	\$ 2,621.45	\$ 2,614.27	-
	2119000000	2119000987	14.62	364	\$ 2,621.45	\$ 2,614.27	-
	1123000000	1123000264	14.62	364	\$ 2,621.45	\$ 2,614.27	-
	1352410000	1352410612	14.62	364	\$ 2,621.45	\$ 2,614.27	-
	1624000000	1624000968	14.62	364	\$ 2,621.45	\$ 2,614.27	-
	804749807	0804749894	15	364	\$ 2,689.59	\$ 2,682.22	-
	1865200000	1865200993	15.05	364	\$ 2,698.55	\$ 2,691.16	-
	1408800000	1408800039	17.3	364	\$ 3,101.99	\$ 3,093.49	-
	925510000	0925510442	21	364	\$ 3,765.42	\$ 3,755.11	-
	2086600000	2086600064	24	364	\$ 4,303.34	\$ 4,291.55	-
	2895200000	2895200715	7	364	\$ 1,255.14	\$ 1,251.70	-



Rate Class	Customer Number	Service Agreement Number	Sum of Size (KW)	Sum of Days to FY 17	Estimated Annual Revenue Loss \$	FY 17 Estimated Revenue Loss \$	Net Credit to Grid (kWh)
	1504400000	1504400497	7	364	\$ 1,255.14	\$ 1,251.70	-
	2036600000	2036600964	7.31	364	\$ 1,310.73	\$ 1,307.14	-
	2887010000	2887010020	3	364	\$ 537.92	\$ 536.44	-
	2233310000	2233310748	10.97	364	\$ 1,966.99	\$ 1,961.60	-
	3795400000	3795400306	9	364	\$ 1,613.75	\$ 1,609.33	-
	3986210000	3986210976	7.3	364	\$ 1,308.93	\$ 1,305.35	-
	3968300000	3968300925	8.6	364	\$ 1,542.03	\$ 1,537.81	-
	1853700000	1853700857	6.5	364	\$ 1,165.49	\$ 1,162.30	-
	2617210000	2617210702	13	364	\$ 2,330.98	\$ 2,324.59	-
	1389100000	1389100637	2.5	364	\$ 448.26	\$ 447.04	-
	1583510000	1583510898	14.6	364	\$ 2,617.87	\$ 2,610.69	-
	2599400000	2599400466	7.8	364	\$ 1,398.59	\$ 1,394.75	-
	1875110000	1875110311	6.5	364	\$ 1,165.49	\$ 1,162.30	-
	3418100000	3418100882	5	364	\$ 896.53	\$ 894.07	-
	3548900000	3548900388	8.6	364	\$ 1,542.03	\$ 1,537.81	-
	2616110000	2616110110	6.45	364	\$ 1,156.52	\$ 1,153.35	-
	3555800000	3555800593	3.6	364	\$ 645.50	\$ 643.73	-
	1873100000	1873100675	8.61	364	\$ 1,543.82	\$ 1,539.59	-
	3980410000	3980410283	3	364	\$ 537.92	\$ 536.44	-
	3250000000	3250000873	11.61	364	\$ 2,081.74	\$ 2,076.04	-
	1864100000	1864100504	7.09	364	\$ 1,271.28	\$ 1,267.80	-
	3027100000	3027100883	5	364	\$ 896.53	\$ 894.07	-
	2277310000	2277310912	2	364	\$ 358.61	\$ 357.63	-
	2205310000	2205310083	8.77	364	\$ 1,572.51	\$ 1,568.20	-
	3191600000	3191600485	9.67	364	\$ 1,733.89	\$ 1,729.14	-
	2715210000	2715210646	7.5	364	\$ 1,344.79	\$ 1,341.11	-
	2905100000	2905100213	25	364	\$ 4,482.65	\$ 4,470.37	-
	4573300000	4573300047	20	364	\$ 3,586.12	\$ 3,576.29	-
	28900000	0028900864	7.31	364	\$ 1,310.73	\$ 1,307.14	-
	697400000	0697400680	8	364	\$ 1,434.45	\$ 1,430.52	(10,401.49)
	822500000	0822500091	6	364	\$ 1,075.84	\$ 1,072.89	(6,673.46)
	148400000	0148400682	9.46	364	\$ 1,696.23	\$ 1,691.59	(2,502.88)
	263000000	0263000179	20.4	364	\$ 3,657.84	\$ 3,647.82	(1,720.64)
	301000000	0030100025	10	364	\$ 1,793.06	\$ 1,788.15	(1,412.87)
	1116200000	1116200047	1	364	\$ 179.31	\$ 178.81	(1,364.20)
	363200000	0363200614	14.62	364	\$ 2,621.45	\$ 2,614.27	(1,239.72)
	535800000	0535800185	5.6	364	\$ 1,004.11	\$ 1,001.36	(427.39)
	943010000	0943010841	5	364	\$ 896.53	\$ 894.07	(103.17)
	357010000	0357010269	6	364	\$ 1,075.84	\$ 1,072.89	(26.14)
	434100000	0043410360	7.74	364	\$ 1,387.83	\$ 1,384.03	-
	481100000	0048110170	8.6	364	\$ 1,542.03	\$ 1,537.81	-
	961100000	0096110676	9	364	\$ 1,613.75	\$ 1,609.33	-
	284100000	0284100881	10.97	364	\$ 1,966.99	\$ 1,961.60	-
	130500000	0130500274	10.97	364	\$ 1,966.99	\$ 1,961.60	-
	361200000	0361200486	10.97	364	\$ 1,966.99	\$ 1,961.60	-
	105310000	0105310070	10.97	364	\$ 1,966.99	\$ 1,961.60	-
	116800000	0116800932	11	364	\$ 1,972.37	\$ 1,966.96	-
	217410000	0217410702	12.2	364	\$ 2,187.53	\$ 2,181.54	-
	301000000	0301000113	13.33	364	\$ 2,390.15	\$ 2,383.60	-
	632110000	0632110402	14.6	364	\$ 2,617.87	\$ 2,610.69	-
	458100000	0458100745	14.62	364	\$ 2,621.45	\$ 2,614.27	-
	408310000	0408310716	18.27	364	\$ 3,275.92	\$ 3,266.94	-
	274100000	0274100753	18.3	364	\$ 3,281.30	\$ 3,272.31	-
	139300000	0139300202	25	364	\$ 4,482.65	\$ 4,470.37	-
	692400000	0692400174	6.5	364	\$ 1,165.49	\$ 1,162.30	-
	499000000	0499000971	8.7	364	\$ 1,559.96	\$ 1,555.69	-
	742400000	0742400050	8.6	364	\$ 1,542.03	\$ 1,537.81	-
	960100000	0960100579	9	364	\$ 1,613.75	\$ 1,609.33	-

Rate Class	Customer Number	Service Agreement Number	Sum of Size (KW)	Sum of Days to FY 17	Estimated Annual Revenue Loss \$	FY 17 Estimated Revenue Loss \$	Net Credit to Grid (kWh)
	1347510000	1347510100	3	364	\$ 537.92	\$ 536.44	-
	8536000000	0853600060	10.1	364	\$ 1,810.99	\$ 1,806.03	-
	3922100000	0392210639	11	364	\$ 1,972.37	\$ 1,966.96	-
	5740000000	0574000539	5	364	\$ 896.53	\$ 894.07	-
	6436000000	0643600926	7.31	364	\$ 1,310.73	\$ 1,307.14	-
	4253100000	0425310537	14.58	364	\$ 2,614.28	\$ 2,607.12	-
	4295000000	0429500314	5	364	\$ 896.53	\$ 894.07	-
	2510000000	0002510232	7.31	364	\$ 1,310.73	\$ 1,307.14	-
	1931000000	0019310713	12	364	\$ 2,151.67	\$ 2,145.78	(912.53)
	4620000000	0046200545	14.2	364	\$ 2,546.14	\$ 2,539.17	(415.07)
	4410000000	0044100386	14.62	364	\$ 2,621.45	\$ 2,614.27	-
	8900000000	0089000810	14.62	364	\$ 2,621.45	\$ 2,614.27	-
	2411000000	0024110506	16	364	\$ 2,868.89	\$ 2,861.03	-
	1454000000	0145400082	15.48	364	\$ 2,775.66	\$ 2,768.05	-
	1280000000	0012800864	3.6	364	\$ 645.50	\$ 643.73	-
	3015000000	0301500162	14	364	\$ 2,510.28	\$ 2,503.41	(954.97)
	5743100000	5743100310	10.75	364	\$ 1,927.54	\$ 1,922.26	(6,766.01)
	3269310000	3269310000	6.4	364	\$ 1,147.56	\$ 1,144.41	(6,706.68)
	1939000000	1939000320	10.75	364	\$ 1,927.54	\$ 1,922.26	(5,746.29)
	2860100000	2860100569	10.97	364	\$ 1,966.99	\$ 1,961.60	(4,762.72)
	6256300000	6256300585	9.67	364	\$ 1,733.89	\$ 1,729.14	(3,521.29)
	3595210000	3595210508	9.46	364	\$ 1,696.23	\$ 1,691.59	(3,454.54)
	9035700000	9035700686	7.1	364	\$ 1,273.07	\$ 1,269.58	(2,957.59)
	6484100000	6484100912	8.4	364	\$ 1,506.17	\$ 1,502.04	(1,600.16)
	1465700000	1465700238	11.825	364	\$ 2,120.29	\$ 2,114.48	(892.12)
	9399000000	0939900251	4	364	\$ 717.22	\$ 715.26	(703.34)
	4082000000	4082000483	13.5	364	\$ 2,420.63	\$ 2,414.00	(291.53)
	4553300000	4553300627	4	364	\$ 717.22	\$ 715.26	-
	8642100000	8642100700	5	364	\$ 896.53	\$ 894.07	-
	9083400000	9083400024	5	364	\$ 896.53	\$ 894.07	-
	8916410000	8916410414	7.31	364	\$ 1,310.73	\$ 1,307.14	-
	6423100000	6423100454	7.31	364	\$ 1,310.73	\$ 1,307.14	-
	3182000000	3182000492	7.31	364	\$ 1,310.73	\$ 1,307.14	-
	3249200000	3249200570	8	364	\$ 1,434.45	\$ 1,430.52	-
	7660400000	7660400174	10.97	364	\$ 1,966.99	\$ 1,961.60	-
	7580600000	7580600175	14.62	364	\$ 2,621.45	\$ 2,614.27	-
	3070210000	3070210295	14.62	364	\$ 2,621.45	\$ 2,614.27	-
	6268110000	6268110602	14.62	364	\$ 2,621.45	\$ 2,614.27	-
	1310100000	1310100111	10.5	364	\$ 1,882.71	\$ 1,877.55	(152.83)
	9031000000	0090310067	5	364	\$ 896.53	\$ 894.07	-
	8465400000	8465400559	10.75	363	\$ 1,927.54	\$ 1,916.98	-
	8268200000	8268200896	11.18	363	\$ 2,004.64	\$ 1,993.66	-
	8518700000	8518700612	6.6	363	\$ 1,183.42	\$ 1,176.93	-
	8408300000	8408300955	3	363	\$ 537.92	\$ 534.97	-
	9869410000	9869410322	7.75	363	\$ 1,389.62	\$ 1,382.01	-
	9716300000	9716300802	9.25	363	\$ 1,658.58	\$ 1,649.49	-
	6600468720	6600468147	4.94	363	\$ 885.77	\$ 880.92	-
	5056510000	5056510521	4.51	363	\$ 808.67	\$ 804.24	-
	4302100000	4302100148	4.15	363	\$ 744.12	\$ 740.04	-
	7327010000	7327010582	7	363	\$ 1,255.14	\$ 1,248.26	-
	6694210000	6694210217	9.45	363	\$ 1,694.44	\$ 1,685.16	-
	7100110000	7100110804	4.08	363	\$ 731.57	\$ 727.56	-
	3728000000	3728000922	9.24	363	\$ 1,656.79	\$ 1,647.71	-
	6557700000	6557700209	7.25	363	\$ 1,299.97	\$ 1,292.84	-
	7234410000	7234410881	6.6	363	\$ 1,183.42	\$ 1,176.93	-
	6366600000	6366600692	18.72	363	\$ 3,356.61	\$ 3,338.21	-
	8149100000	8149100769	11.82	363	\$ 2,119.40	\$ 2,107.78	-
	7459017427	7459017987	6	363	\$ 1,075.84	\$ 1,069.94	-

Rate Class	Customer Number	Service Agreement Number	Sum of Size (KW)	Sum of Days to FY 17	Estimated Annual Revenue Loss \$	FY 17 Estimated Revenue Loss \$	Net Credit to Grid (kWh)
	4431600000	4431600304	12.75	363	\$ 2,286.15	\$ 2,273.62	-
	5423210000	5423210365	8.75	363	\$ 1,568.93	\$ 1,560.33	-
	6423210000	6423210366	5.25	363	\$ 941.36	\$ 936.20	-
	5347500000	5347500399	11.75	363	\$ 2,106.84	\$ 2,095.30	-
	6124000000	6124000911	9	363	\$ 1,613.75	\$ 1,604.91	-
	3947740032	3947740528	10.53	363	\$ 1,888.09	\$ 1,877.75	-
	7090010000	7090010396	9	363	\$ 1,613.75	\$ 1,604.91	-
	2466410000	2466410420	6.45	363	\$ 1,156.52	\$ 1,150.19	-
	1505300000	1505300386	8.81	363	\$ 1,579.69	\$ 1,571.03	-
	2663110000	2663110151	11.4	363	\$ 2,044.09	\$ 2,032.89	-
	2432900000	2432900765	7.5	363	\$ 1,344.79	\$ 1,337.43	-
	1075200000	1075200016	4.5	363	\$ 806.88	\$ 802.46	-
	1620900000	1620900264	5.37	363	\$ 962.87	\$ 957.60	-
	1615200000	1615200840	4.94	363	\$ 885.77	\$ 880.92	-
	2635000000	2635000215	9	363	\$ 1,613.75	\$ 1,604.91	-
	2768110000	2768110839	10.75	363	\$ 1,927.54	\$ 1,916.98	-
	1503510000	1503510729	5.59	363	\$ 1,002.32	\$ 996.83	-
	1521900000	1521900447	13.33	363	\$ 2,390.15	\$ 2,377.05	-
	3502567229	3502567317	11	363	\$ 1,972.37	\$ 1,961.56	-
	606941728	606941569	5.37	363	\$ 962.87	\$ 957.60	-
	371110000	0371110171	12.9	363	\$ 2,313.05	\$ 2,300.37	-
	42510000	0042510099	5.5	363	\$ 986.18	\$ 980.78	-
	35163515	0035163111	4.73	363	\$ 848.12	\$ 843.47	-
	9016100000	9016100420	10.32	362	\$ 1,850.44	\$ 1,835.23	-
	8960400000	8960400209	10.5	362	\$ 1,882.71	\$ 1,867.24	-
	9345100000	9345100705	11.75	362	\$ 2,106.84	\$ 2,089.53	-
	7891914768	7891914699	6.5	362	\$ 1,165.49	\$ 1,155.91	-
	3494100000	3494100030	14	362	\$ 2,510.28	\$ 2,489.65	-
	3539800000	3539800603	12.5	362	\$ 2,241.32	\$ 2,222.90	-
	7360200000	7360200296	7.75	362	\$ 1,389.62	\$ 1,378.20	-
	5440600000	5440600346	4.5	362	\$ 806.88	\$ 800.24	-
	5475449001	5475449791	13	362	\$ 2,330.98	\$ 2,311.82	-
	5098757190	5098757958	11.61	362	\$ 2,081.74	\$ 2,064.63	-
	4764100000	4764100704	9.89	362	\$ 1,773.34	\$ 1,758.76	-
	6755100000	6755100870	7	362	\$ 1,255.14	\$ 1,244.83	-
	3444410000	3444410540	9.03	362	\$ 1,619.13	\$ 1,605.82	-
	2844700000	2844700756	7	362	\$ 1,255.14	\$ 1,244.83	-
	3326010000	3326010154	6.66	362	\$ 1,194.18	\$ 1,184.36	-
	1905100000	1905100212	6.25	362	\$ 1,120.66	\$ 1,111.45	-
	450136389	0450136893	4.5	362	\$ 806.88	\$ 800.24	-
	390004380	0390004820	6.25	362	\$ 1,120.66	\$ 1,111.45	-
	40510000	0040510869	7	362	\$ 1,255.14	\$ 1,244.83	-
	8298000000	8298000740	14	361	\$ 2,510.28	\$ 2,482.77	-
	4619100000	4619100084	7	361	\$ 1,255.14	\$ 1,241.39	-
	4837100000	4837100407	10.53	361	\$ 1,888.09	\$ 1,867.40	-
	5448110000	5448110217	9.46	361	\$ 1,696.23	\$ 1,677.65	-
	6024100000	6024100166	10	361	\$ 1,793.06	\$ 1,773.41	-
	6479000000	6479000740	4.75	361	\$ 851.70	\$ 842.37	-
	7734688864	7734688414	18.92	361	\$ 3,392.47	\$ 3,355.29	-
	7156310000	7156310157	12	361	\$ 2,151.67	\$ 2,128.09	-
	3496180063	3496180196	16.5	361	\$ 2,958.55	\$ 2,926.13	-
	7163200000	7163200600	7	361	\$ 1,255.14	\$ 1,241.39	-
	3809000000	3809000945	13.5	361	\$ 2,420.63	\$ 2,394.10	-
	2583100000	2583100756	8.81	361	\$ 1,579.69	\$ 1,562.37	-
	1617600000	1617600864	6.45	361	\$ 1,156.52	\$ 1,143.85	-
	1711500000	1711500098	7.25	361	\$ 1,299.97	\$ 1,285.72	-
	1239310000	1239310423	5.75	361	\$ 1,031.01	\$ 1,019.71	-
	960210000	0960210281	15.91	361	\$ 2,852.76	\$ 2,821.49	-

Rate Class	Customer Number	Service Agreement Number	Sum of Size (kW)	Sum of Days to FY 17	Estimated Annual Revenue Loss \$	FY 17 Estimated Revenue Loss \$	Net Credit to Grid (kWh)
	554300000	0554300258	11.61	360	\$ 2,081.74	\$ 2,053.22	-
	1072000000	1072000370	1.93	359	\$ 346.06	\$ 340.37	(361.47)
	1562000000	1562000313	7.09	359	\$ 1,271.28	\$ 1,250.38	-
	7946510000	7946510437	8.17	357	\$ 1,464.93	\$ 1,432.82	(486.87)
	1295891814	1295891274	10	357	\$ 1,793.06	\$ 1,753.76	-
	8750100000	8750100432	15	353	\$ 2,689.59	\$ 2,601.16	-
	6402417383	6402417072	9.9	352	\$ 1,775.13	\$ 1,711.90	(2,539.65)
	8990967853	8990967232	9.25	350	\$ 1,658.58	\$ 1,590.42	-
	9833986408	9833986836	5.37	343	\$ 962.87	\$ 904.84	(1,699.34)
	759210000	0759210083	14.19	342	\$ 2,544.35	\$ 2,384.02	-
	7174266813	7174266259	5	340	\$ 896.53	\$ 835.12	-
	798516764	0798516681	7.74	340	\$ 1,387.83	\$ 1,292.77	-
	4864110000	4864110391	7.52	339	\$ 1,348.38	\$ 1,252.33	-
	4361076952	4361076039	7.05	339	\$ 1,264.11	\$ 1,174.06	-
	3442415635	3442415468	3.87	336	\$ 693.91	\$ 638.78	-
	431607753	0431607447	7.75	336	\$ 1,389.62	\$ 1,279.21	-
	7874144222	7874144695	12.47	328	\$ 2,235.94	\$ 2,009.29	-
	2674899857	2674899986	10.53	325	\$ 1,888.09	\$ 1,681.18	-
	8594313520	8594313930	6.45	324	\$ 1,156.52	\$ 1,026.61	-
	9238015492	9238015080	13.5	315	\$ 2,420.63	\$ 2,089.04	-
	8560400000	8560400164	7	315	\$ 1,255.14	\$ 1,083.20	-
	1076097383	1076097165	12.9	315	\$ 2,313.05	\$ 1,996.19	-
	2466016702	2466016531	8	312	\$ 1,434.45	\$ 1,226.16	(1,985.49)
	3196700000	3196700133	8.17	308	\$ 1,464.93	\$ 1,236.16	-
	7087230861	7087230836	5.8	307	\$ 1,039.97	\$ 874.72	-
	6095356509	6095356744	5.5	294	\$ 986.18	\$ 794.35	-
	4429010000	4429010226	14.62	291	\$ 2,621.45	\$ 2,089.98	-
	7578527440	7578527545	2.4	291	\$ 430.33	\$ 343.09	-
	3056132162	3056132803	15.2	286	\$ 2,725.45	\$ 2,135.56	-
	2571174725	2571174318	7.52	284	\$ 1,348.38	\$ 1,049.15	(4,553.88)
	8812110000	8812110023	4.3	284	\$ 771.02	\$ 599.91	-
	9448400000	9448400723	9.46	283	\$ 1,696.23	\$ 1,315.16	-
	262025635	0262025419	7	280	\$ 1,255.14	\$ 962.85	-
	2636579859	2636579806	5.59	274	\$ 1,002.32	\$ 752.43	(715.04)
	8319745544	8319745246	3	274	\$ 537.92	\$ 403.81	-
	5645410000	5645410415	7	274	\$ 1,255.14	\$ 942.22	-
	1021903131	1021903765	5.8	273	\$ 1,039.97	\$ 777.84	-
	2771210000	2771210522	5.16	273	\$ 925.22	\$ 692.01	-
	1738829185	1738829523	3.01	267	\$ 539.71	\$ 394.80	-
	7378151482	7378151605	10.5	265	\$ 1,882.71	\$ 1,366.90	-
	7877900000	7877900034	19	265	\$ 3,406.81	\$ 2,473.44	-
	3702228367	3702228548	6.66	261	\$ 1,194.18	\$ 853.92	-
	6272926871	6272926419	8.17	259	\$ 1,464.93	\$ 1,039.50	-
	3174080907	3174080235	11.39	255	\$ 2,042.29	\$ 1,426.81	(546.09)
	4629310000	4629310137	11	248	\$ 1,972.37	\$ 1,340.13	-
	9536675819	9536675009	4.08	247	\$ 731.57	\$ 495.06	-
	5351798570	5351798562	13.5	232	\$ 2,420.63	\$ 1,538.59	-
	3824510000	3824510197	4.3	231	\$ 771.02	\$ 487.96	-
	6111000000	6111000630	9.46	231	\$ 1,696.23	\$ 1,073.51	-
	4975936639	4975936657	12.75	231	\$ 2,286.15	\$ 1,446.85	-
	5690327705	5690327556	2.5	225	\$ 448.26	\$ 276.33	-
	2508037332	2508037743	7.31	225	\$ 1,310.73	\$ 807.98	-
	3165560614	3165560744	4.51	225	\$ 808.67	\$ 498.50	-
	9273300000	9273300016	4.25	220	\$ 762.05	\$ 459.32	-
	1406791632	1406791808	5.75	220	\$ 1,031.01	\$ 621.43	-
	6750292283	6750292667	9.03	218	\$ 1,619.13	\$ 967.04	-
	9597295066	9597295461	9.25	217	\$ 1,658.58	\$ 986.06	-
	9411300000	9411300431	10.75	217	\$ 1,927.54	\$ 1,145.96	-

Rate Class	Customer Number	Service Agreement Number	Sum of Size (KW)	Sum of Days to FY 17	Estimated Annual Revenue Loss \$	FY 17 Estimated Revenue Loss \$	Net Credit to Grid (kWh)
	9891452004	9891452832	8	214	\$ 1,434.45	\$ 841.02	-
	8389410000	8389410367	7.7	203	\$ 1,380.66	\$ 767.87	-
	13000000	0013000136	7	201	\$ 1,255.14	\$ 691.19	-
	5682110000	5682110520	11	193	\$ 1,972.37	\$ 1,042.92	-
	4850110000	4850110789	4	192	\$ 717.22	\$ 377.28	-
	275086999	0275086758	8.17	191	\$ 1,464.93	\$ 766.58	-
	2658118736	2658118128	4.73	186	\$ 848.12	\$ 432.19	-
	522100000	0522100432	9.67	180	\$ 1,733.89	\$ 855.07	-
	7189000000	7189000831	4.73	178	\$ 848.12	\$ 413.60	-
	6724112436	6724112118	4	172	\$ 717.22	\$ 337.98	-
	458833930	0458833326	6	172	\$ 1,075.84	\$ 506.97	-
	6537662741	6537662525	11	171	\$ 1,972.37	\$ 924.04	-
	8026300000	8026300181	5	168	\$ 896.53	\$ 412.65	(196.37)
	6487054355	6487054849	3.65	166	\$ 654.47	\$ 297.65	-
	2883781434	2883781075	11.8	158	\$ 2,115.81	\$ 915.88	(3,127.24)
	6103488146	6103488887	6.45	154	\$ 1,156.52	\$ 487.96	-
	3643290457	3643290179	8	153	\$ 1,434.45	\$ 601.29	-
	197856062	0197856033	6.02	152	\$ 1,079.42	\$ 449.51	-
	9235100000	9235100573	12.9	146	\$ 2,313.05	\$ 925.22	-
	4046210000	4046210596	5.75	144	\$ 1,031.01	\$ 406.75	-
	805398081	0805398349	7.7	144	\$ 1,380.66	\$ 544.70	-
	5193309294	5193309848	7	141	\$ 1,255.14	\$ 484.86	-
	2218057940	2218057794	4.25	141	\$ 762.05	\$ 294.38	-
	8236622848	8236622507	6	140	\$ 1,075.84	\$ 412.65	-
	9439151337	9439151027	9.03	139	\$ 1,619.13	\$ 616.60	-
	8611300000	8611300321	11.8	139	\$ 2,115.81	\$ 805.75	-
	7770410000	7770410921	7.31	138	\$ 1,310.73	\$ 495.56	-
	2419900000	2419900900	12.75	130	\$ 2,286.15	\$ 814.25	-
	8236059370	8236059336	2.5	124	\$ 448.26	\$ 152.29	-
	6667310000	6667310843	11.39	120	\$ 2,042.29	\$ 671.44	-
	9755510000	9755510417	9.25	119	\$ 1,658.58	\$ 540.74	-
	6526000000	6526000204	6.66	119	\$ 1,194.18	\$ 389.33	-
	6671112680	6671112273	10.75	118	\$ 1,927.54	\$ 623.15	-
	4197130658	4197130318	11	116	\$ 1,972.37	\$ 626.83	(684.94)
	6846800000	6846800705	4.08	110	\$ 731.57	\$ 220.47	-
	7439156294	7439156280	4.51	109	\$ 808.67	\$ 241.49	-
	3389872131	3389872664	7.31	102	\$ 1,310.73	\$ 366.29	-
	5220328668	5220328999	3.01	96	\$ 539.71	\$ 141.95	-
	1203510000	1203510687	2.4	94	\$ 430.33	\$ 110.83	-
	7094068337	7094068094	19	89	\$ 3,406.81	\$ 830.70	-
	3920178961	3920178390	9.46	81	\$ 1,696.23	\$ 376.42	-
	1228783075	1228783836	7.31	81	\$ 1,310.73	\$ 290.87	-
	325518254	0325518071	4.3	80	\$ 771.02	\$ 168.99	(45.46)
	38300000	0038300887	5.59	75	\$ 1,002.32	\$ 205.96	-
	7454038485	7454038709	9.46	73	\$ 1,696.23	\$ 339.25	(11,153.46)
	1528300000	1528300117	14.62	73	\$ 2,621.45	\$ 524.29	(1,063.08)
	5795510000	5795510523	7.52	72	\$ 1,348.38	\$ 265.98	-
	5918540489	5918540442	5.5	70	\$ 986.18	\$ 189.13	-
	8510416576	8510416788	7.05	64	\$ 1,264.11	\$ 221.65	-
	1047844428	1047844006	4.94	61	\$ 885.77	\$ 148.03	-
	5366982566	5366982243	5.16	59	\$ 925.22	\$ 149.56	-
	2996215620	2996215500	8.17	56	\$ 1,464.93	\$ 224.76	(11,920.20)
	1501016306	1501016921	7	53	\$ 1,255.14	\$ 182.25	-
	6328210000	6328210966	8	52	\$ 1,434.45	\$ 204.36	-
	8992410000	8992410447	5.8	52	\$ 1,039.97	\$ 148.16	-
	1359541688	1359541372	6	52	\$ 1,075.84	\$ 153.27	-
	9564795680	9564795857	7.31	51	\$ 1,310.73	\$ 183.14	(3,514.44)
	5574636599	5574636570	10.53	49	\$ 1,888.09	\$ 253.47	-



Rate Class	Customer Number	Service Agreement Number	Sum of Size (KW)	Sum of Days to FY 17	Estimated Annual Revenue Loss \$	FY 17 Estimated Revenue Loss \$	Net Credit to Grid (kWh)
	7513100000	7513100345	6.45	48	\$ 1,156.52	\$ 152.09	-
	1251287099	1251287263	5.8	46	\$ 1,039.97	\$ 131.07	-
	6388704085	6388704412	3.65	43	\$ 654.47	\$ 77.10	-
	9491410000	9491410270	3.87	32	\$ 693.91	\$ 60.84	-
	4490018683	4490018110	6.02	29	\$ 1,079.42	\$ 85.76	-
	3814700000	3814700048	10	29	\$ 1,793.06	\$ 142.46	-
	63800000	0063800272	4.51	29	\$ 808.67	\$ 64.25	-
	605512195	0605512892	9.25	28	\$ 1,658.58	\$ 127.23	-
	6133022308	6133022507	3	25	\$ 537.92	\$ 36.84	-
	8333700000	8333700216	5	24	\$ 896.53	\$ 58.95	-
	2331600000	2331600290	12.47	23	\$ 2,235.94	\$ 140.90	-
	9346837510	9346837837	2.5	15	\$ 448.26	\$ 18.42	-
	8964917713	8964917192	4.94	14	\$ 885.77	\$ 33.97	-
	2451600000	2451600707	10.5	14	\$ 1,882.71	\$ 72.21	-
	9565989799	9565989069	4.3	12	\$ 771.02	\$ 25.35	-
	9451410000	9451410318	9.9	12	\$ 1,775.13	\$ 58.36	-
	8354609772	8354609057	12.47	11	\$ 2,235.94	\$ 67.38	-
	6387081397	6387081586	7.74	10	\$ 1,387.83	\$ 38.02	-
	5942326985	5942326913	10	7	\$ 1,793.06	\$ 34.39	-
	5319390428	5319390035	6.45	6	\$ 1,156.52	\$ 19.01	-
ESGSD-K (Rate Schedule K)	337100000	0337100814	60	169	\$ 15,153.20	\$ 7,016.14	-
	3209463043	3209463715	10	220	\$ 2,525.53	\$ 1,522.24	-
	5357510000	5357510479	22.8	364	\$ 5,758.22	\$ 5,742.44	-
	5357510000	5357510477	22.8	364	\$ 5,758.22	\$ 5,742.44	-
	5357510000	5357510476	22.8	364	\$ 5,758.22	\$ 5,742.44	-
	5537100000	5537100556	10	220	\$ 2,525.53	\$ 1,522.24	-
	5537100000	5537100267	100	364	\$ 25,255.33	\$ 25,186.14	-
	9157510000	9157510210	20	364	\$ 5,051.07	\$ 5,037.23	-
	9157510000	9157510206	29.4	364	\$ 7,425.07	\$ 7,404.73	-
	9157510000	9157510208	20	364	\$ 5,051.07	\$ 5,037.23	-
	9157510000	9157510207	20	364	\$ 5,051.07	\$ 5,037.23	-
	9157510000	9157510209	20	364	\$ 5,051.07	\$ 5,037.23	-
	9503154359	9503154228	60	219	\$ 15,153.20	\$ 9,091.92	-
ESGS-S (Rate Schedule S)	5357510000	5357510480	2	364	\$ 555.97	\$ 554.45	-
	5357510000	5357510475	2	364	\$ 555.97	\$ 554.45	-
	5357510000	5357510474	6	364	\$ 1,667.91	\$ 1,663.34	(401.71)
	6995000000	6995000430	16	364	\$ 4,447.75	\$ 4,435.57	-
<b>Grand Totals</b>	<b>1714</b>				<b>\$ 3,287,729.07</b>	<b>\$ 3,167,570.13</b>	<b>(971,870.01)</b>
<b>Total Accumulated Revenue Loss From Inception</b>						<b>\$ 6,532,224.84</b>	

## **GPA Resolution No. 2018-18**

### **RELATIVE TO THE APPROVAL OF THE CREATION OF THE ADVANCED METER INFRASTRUCTURE (AMI) TECHNICIAN SERIES OF POSITIONS**

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

The installation and utilization of GPA's advanced meter infrastructure (AMI) beginning in 2011, including smart meters, significantly changed the Authority's processes and structure. Current employees holding Meter Reader and Customer Service Electrician series positions are performing AMI or other work generally unrelated to their position titles. The Authority seeks to create new positions, abolish unnecessary positions, and eliminate overlap of similar functions in order to gain efficiencies and reflect its current processes and structure.

#### **Where is it at?**

The AMI Technician series will be initially utilized by Customer Service, PSCC, and Meter Shop but may be used by other divisions. The Meter Reader and Customer Service Electrician series recommended for abolishment are under the Customer Service division organizational structure.

#### **How much will it cost?**

The reorganization is not expected to exceed the current budget.

#### **When will it be completed?**

No later than October 28, 2018

#### **What is its funding source?**

Revenue funds.

#### **The RFP/BID responses:**

Not applicable.





**GUAM POWER AUTHORITY**

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

## **Issues for Decision**

### **Resolution No. 2018-18:**

#### **RELATIVE TO THE APPROVAL OF THE CREATION OF THE ADVANCED METER INFRASTRUCTURE (AMI) TECHNICIAN SERIES OF POSITIONS**

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

The installation and utilization of GPA's advanced meter infrastructure (AMI) beginning in 2011, including smart meters, significantly changed the Authority's processes and structure. Current employees holding Meter Reader and Customer Service Electrician series positions are performing AMI or other work generally unrelated to their position titles. The Authority seeks to create new positions, abolish unnecessary positions, and eliminate overlap of similar functions in order to gain efficiencies and reflect its current processes and structure.

##### **Where is it at?**

The AMI Technician series will be initially utilized by Customer Service, PSCC, and Meter Shop but may be used by other divisions. The Meter Reader and Customer Service Electrician series recommended for abolishment are under the Customer Service division organizational structure.

##### **How much will it cost?**

The reorganization is not expected to exceed the current budget.

##### **When will it be completed?**

No later than October 28, 2018

##### **What is its funding source?**

Revenue funds.

##### **The RFP/BID responses:**

Not applicable.





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

**Resolution No. 2018-18**

**RELATIVE TO THE APPROVAL OF THE CREATION OF THE ADVANCED METER  
INFRASTRUCTURE (AMI) TECHNICIAN SERIES OF POSITIONS**

**WHEREAS**, under 12 G.C.A. § 8104, the Consolidated Commission on Utilities (“CCU”) has plenary authority over financial, contractual and policy matters relative to the Guam Power Authority; and

**WHEREAS**, the Guam Power Authority (“GPA”) is a Public Corporation established and existing under the laws of Guam; and

**WHEREAS**, the GPA General Manager requests the CCU to approve the creation of the Advanced Meter Infrastructure (“AMI”) Technician series positions (Exhibit A); and

**WHEREAS**, the GPA General Manager requests the CCU to approve the classification standards of the AMI Technician series positions in the classified status; and

**WHEREAS**, the GPA General Manager requests the CCU to abolish the Meter Reader and Customer Service Electrician series of positions; and

**WHEREAS**, Public Law 28-112 and 4 G.C.A. § 6303(d) authorizes the creation of positions in Autonomous Agencies and Public Corporations; and

**WHEREAS**, GPA Personnel Rules & Regulations as amended by Public Law 28-159 authorizes the CCU to amend, modify or add a position to the list of certified, technical and professional positions; and

**WHEREAS**, regulatory notification requirements have been satisfied and GPA continues to conduct outreach with potentially affected employees.

1           **NOW, THEREFORE, BE IT RESOLVED**, the Consolidated Commission on Utilities, as the  
2   Governing Body of the Guam Power Authority, does hereby approve and authorize the  
3   following:

- 4           1. The recitals set forth above hereby constitute the findings of the CCU.
- 5           2. The creation and the job classification standards for the AMI Technician series of  
6           positions in the classified status are hereby approved and attached herein as Exhibit A.
- 7           3. The AMI Technician series of positions are hereby added to the Certified, Technical  
8           and Professional list of positions at GPA.
- 9           4. The Meter Reader and Customer Service Electrician series are hereby abolished and  
10          removed from the Certified, Technical and Professional list of positions at GPA  
11          effective October 28, 2018.
- 12          5. The authorization of the AMI Technician series of positions shall become effective  
13          September 29, 2018.

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

16  
17           **DULY AND REGULARLY ADOPTED AND APPROVED THIS 28<sup>th</sup> DAY OF AUGUST 2018.**

18  
19           Certified by:

Attested by:

20  
21  
22           \_\_\_\_\_  
23   **JOSEPH T. DUENAS**  
24   Chairperson  
25   Consolidated Commission on Utilities

\_\_\_\_\_  
26   **J. GEORGE BAMBA**  
27   Secretary  
28   Consolidated Commission on Utilities

**SECRETARY'S CERTIFICATE**

**I, J. George Bamba**, Secretary for the Consolidated Commission on Utilities (CCU), as evidenced by my signature above do certify as follows:

The foregoing is a full, true, and accurate copy of the resolution duly adopted at a regular meeting of the members of Guam Consolidated Commission on Utilities, 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: \_\_\_\_\_

Absent: \_\_\_\_\_

Abstain: \_\_\_\_\_



# GUAM POWER AUTHORITY

ATURIDĀT ILEKTRESEDĀT GUAHAN  
P.O.BOX 2977 • HAGĀTŊA, GUAM U.S.A. 96932-2977

## STAFF REPORT

### REQUEST:

The General Manager of the Guam Power Authority petitions the Consolidated Commission on Utilities (CCU) to create the following positions in the classified service pursuant to Public Law 28-112:

- AMI Technician (Proposed Creation)
- AMI Technician Leader (Proposed Creation)

### AUTHORITY:

*Public Law 28-159, Section 3(c) Amendment of Certified, Technical, and Professional Positions.  
Section 9, 4 GCA §6303 (d) states:*

*"Creation of positions in the Autonomous Agencies and Public Corporations.*

*(1) The petition of the head of an agency, department or public corporation listed in the first paragraph of 4 GCA §4105(a) of this Title to create a position shall include:*

*A. the justification for the new and amended positions;*

*Creation of the AMI Technician positions and amendment to the existing Meter Electrician series of positions are critical towards the Authority's vision of efficiency and system reliability in the transformation of Smart Grid initiatives that has modernize our Island Wide Power System. Although, Smart Grid is a cornerstone of GPA's transformation, GPA replaced many of its old analog meters with digital smart meters for both residential and commercial customers. GPA is now able fulfill remote service connection and disconnection orders in a matter of hours instead of days.*

*B. the essential details concerning the creation of the position; (see classification review below)*

*C. an analysis of the similarities and differences between the position to be created and positions listed pursuant to Title 4 GCA §4101.1.(d);*

*The Smart Grid is a digitally-enhanced network that uses computer-based remote control and automation to increase the efficiency of the Authority's Island-Wide Power System (IWPS). Smart meters employ two-way radio communication technology and computer processing. This allows GPA to read meters remotely, start and stop meters remotely, receive outage alert notifications and monitor power quality. The duties and responsibilities associated with the AMI Technician positions is to ensure accurate day-to-day monitoring, analysis and control of the Command Center, which is the head end of the AMI network. The major function of the AMI Command Center Supervisor is to oversee the monitoring the AMI Command Center and determine appropriate courses of action; coordinates with the Internal Audit's Revenue Protection Section, Power System Control Center (PSCC), and other divisions regarding network issues, meter investigation, metering failure and tampering issues. These positions are much needed towards the strategic goals of the Authority and fulfillment of its mission towards modernizing our Island Wide Power System.*

Page 2 of 4 – Staff Report – Creation of Positions – AMI Positions

D. *the position description; (see attached)*

E. *the proposed pay ranges and demonstration of compliance with §6301 of this Title;*

*The GPA's compensation plan was authorized by P.L. 28-159 and approved by the CCU in October 2007. The proposed compensation is in accordance with the Strategic Pay Plan Methodology.*

F. *a fiscal note as that term is described in 2 GCA §9101 et seq.; and any other pertinent information.*

*The Guam Power Authority is responsible for the funding availability for these positions and is in compliance with all applicable laws, rules and regulations regarding the creation, filling and retention of positions in certified, technical and professional positions. The funding of these positions has no financial impact to the General Fund.*

(2) *The petition shall be posted on the agency, department or public corporation's website for ten (10) days (Saturdays, Sundays and government of Guam holidays excepted). After the posting, the head shall forward the petition along with evidence of his compliance with 5 GCA §6303.1(a), to the governing board or commission who, if they approve the same, shall approve the petition by resolution and file the petition and resolution for records with the Director of Administration and the Legislative Secretary.*

(3) *No new position may be filled until after compliance with the provision of this section and thirty (30) days has elapsed from the date of filing with the Legislative Secretary."*

#### **METHODOLOGY:**

Information was gathered from various public utilities associated with the American Public Power Association (APPA) and other utilities with comparable positions within the U.S. mainland. The information collected were used to analyze and develop the proposed job standards as they apply to the work performed at GPA. The staff reviewed the duties associated with the proposed creations as indicated in the position description forms. In evaluating these positions, the Strategic Pay Job Evaluation Methodology was utilized to determine the job evaluation points based on a total of twelve (12) measurement factors; Education, Experience, Complexity, Scope of Work, Problem Solving, Freedom to Act/Supervision Received, Work Environment, Physical Demands, Impact of Discretionary Decisions, Human Relations Skills/Contact, Authority Exercised, and Supervisory/Managerial Responsibility.

#### **CLASSIFICATION REVIEW:**

In 2011, GPA embarked in a Smart Grid project towards modernizing our IWPS. GPA replaced most of its old analog meters with digital smart meters for both residential and commercial customers. Thus, resulting in the installation and utilization of advanced meter infrastructure (AMI), which includes smart meters. As a result, this significantly changed the Authority's processes and structure. GPA personnel can now communicate with meters remotely, start and stop power remotely, receive outage alert notifications and to monitor power quality. The AMI network reads and processes real time power consumption in homes and businesses on Guam and transmit data back to GPA. It's a tremendous technological change in GPA to constantly monitor electricity flow and adjust its distribution for maximum efficiency.

The AMI Command Center integrated system is currently located within the Customer Services Division and is currently supervised by a Customer Service Supervisor. The proposed AMI Technician positions will be assigned within the Customer Services Division and will be responsible for:



## Page 3 of 4 – Staff Report – Creation of Positions – AMI Positions

- Monitoring radio frequency network for all collectors, routers and meters for status with regards to network health and productivity on Command Center system.
- ~~Monitoring Advanced Metering Infrastructure (AMI) Command Center head end system and dashboard.~~
- Monitoring meter and endpoint alerts on AMI dashboard (i.e. lost, not logging, tamper reverse, stuck switch, power outages).
- Performing all remote reconnects and disconnects on AMI meters for new and existing customers as well as non-payment/delinquent accounts on field activity reports and validation.
- Monitoring Meter Data Management System (MDMS).
- Performing AMI send and receive command prompts as needed.
- Processing work order requests & input data into the Customer Information System (CIS) of the Customer Care & Billing (CC&B) System.
- Monitoring outage tracking reporting and coordinates with PSCC and/or other divisions.

The impact to the implementation of Smart Grid initiatives and the replacement of analog electric meters with AMI smart meters eliminated and replaced functions in various positions within the Customer Services Division, specifically, Electric Meter Readers series and Customer Service Electrician series. This type of automation of meter reading and real-time day metering inclusive of installation, disconnection and reconnection has caused the Authority to eliminate these positions. Out of the 51,000 customers, there are only less than 30 “opt out” customers requiring manual reading of the analog meters. However, this task is very minimal and does not justify a full-time Electric Meter Reader to perform this task. Manual meter reading, meter installation, removal and troubleshooting tasks have been absorbed into duties of Meter Electrician series with the Authority’s Meter Shop section.

Based on the proposed job standards for the AMI Technician and Leader positions, the nature of work and minimum experience and training consist of:

**AMI Technician:**

This positions are responsible for assisting with and supporting the day-to-day monitoring, analysis and control of the Command Center for the Advanced Metering Infrastructure (AMI) operations and Radio Frequency (RF) networking for the Guam Power Authority. The proposed position requires:

- 1) One (1) year experience in Advanced Metering Infrastructure (AMI) dashboard alerts and endpoint status monitoring and graduation from high school or GED equivalency; or
- 2) Any equivalent combination of experience and training which provides the minimum knowledge, abilities and skills.

**AMI Technician Leader:**

This position leads and supports the day-to-day monitoring, analysis and control of the Command Center for the Advanced Metering Infrastructure (AMI) operations and Radio Frequency (RF) networking for the Guam Power Authority. The proposed position requires:

- 1) Four (4) years of experience in Advanced Metering Infrastructure (AMI) dashboard alerts and endpoint status monitoring and graduation from high school or GED equivalency; or
- 2) Any equivalent combination of experience and training which provides the minimum knowledge, abilities and skills.

## Page 4 of 4 – Staff Report – Creation of Positions – AMI Positions

**RECOMMENDATION:**

- 1) To approve the creation of the following positions in the classified service and add these positions to list of the certified, technical and professionals (CTP) category of positions:

- AMI Technician
- AMI Technician Leader

The proposed minimum and maximum range of compensation will be in accordance with the Strategic Pay Methodology, as follows:

2017 MARKET DATA (15th Market Percentile)	JE Points	Structural Adjustment - MIN				Structural Adjustment - MAX			
		Base Salary	Grade	Step	Sub Step	Base Salary	Grade	Step	Sub Step
AMI Technician	414	32,706	F	4	C	34,034	F	5	C
AMI Technician Leader	640	46,933	J	4	B	48,839	J	5	B

- 2) To abolish and remove the following positions from GPA's list of positions:

- Electric Meter Reader I
- Electric Meter Reader II
- Electric Meter Reader Leader
- Electric Meter Reader Supervisor
- Customer Service Electrician I
- Customer Service Electrician II
- Customer Service Electrician Leader
- Customer Service Electrician Supervisor

Prepared by:

  
**SANDRA D. PEREZ**  
 Personnel Services Administrator (A)

Concurred by:

  
**BEATRICE P. LIMTIACO**  
 Assistant General Manager, Administration

Approved by:

  
**JOHN M. BENAVENTE, P.E.**  
 General Manager

00.000

**AMI Technician (Proposed)****NATURE OF WORK IN THIS CLASS:**

This position is responsible for assisting with and supporting the day-to-day monitoring, analysis and control of the Command Center for the Advanced Metering Infrastructure (AMI) operations and Radio Frequency (RF) networking for the Guam Power Authority.

**ILLUSTRATIVE EXAMPLES OF WORK:** *(Any one position may not include all the duties listed, nor do the examples cover all the duties which may be performed.)*

Monitors the dashboard system for status of AMI meters, radio frequency (RF) connectivity and outage tracking.

Performs remote connections/disconnections for 2s and 12s smart meters for move-in/move-out customers as well as delinquent accounts.

Sends and receives various commands, e.g. On Demand Reads (ODR) as needed to AMI meters and RF network for operations and troubleshooting.

Enters latitude/longitude, service location ID, date and time of installation, customer information file (customer ID, billing cycle, book number) on spreadsheet and provide to IT for import to update records in Command Center.

Validates and reviews field activity work order for successful completion on Command Center and Customer Information System (CIS).

Coordinates customer inquiries for meter troubleshooting.

Assists in conducting AMI meter investigations for non-responding meters and makes proper repairs using meter software application programs.

Prepares documents for field investigations, energy surveys, and meter testing (i.e. interval data, consumption load break down, snap shots, and readings).

Monitor unscheduled power outages and report locations to the Power System Control Center (PSCC) and/or other departments.

Performs other related duties as required.

**MINIMUM KNOWLEDGE, ABILITIES AND SKILLS:**

Knowledge of Landis+Gyr Command Center applications.

Knowledge of 132Comm, End Point Test Manager (ETM) and radio shop software applications.

Knowledge of optical probes utilized to obtain data directly from smart meters.

Knowledge of the customer information system.

Knowledge of the different AMI meter types and forms including GPA legacy meter types and forms.

EXHIBIT A



Knowledge of AMI Network operations and Radio Frequency (RF) Networking.

Ability to make arithmetic computations.

Ability to work effectively with the public and employees.

Ability to follow oral and written instructions.

Ability to maintain records and prepare reports.

Ability to interpret and apply pertinent laws, rules, regulations and other program guidelines.

Ability to learn and apply computer system application utilized by the utility, to include but not limited to Landis+Gyr Command Center; MeterSense MDMS; Customer Care & Billing (CC&B); and JD Edwards.

Skill in the safe operation of a motor vehicle.

**MINIMUM EXPERIENCE AND TRAINING:**

- 1) One (1) year experience in Advanced Metering Infrastructure (AMI) dashboard alerts and endpoint status monitoring and graduation from high school or GED equivalency; or
- 2) Any equivalent combination of experience and training which provides the minimum knowledge, abilities and skills.

**NECESSARY SPECIAL QUALIFICATION:**

Possession of a valid driver's license may be required.

Established:

---

**JOSEPH T. DUENAS, Chairman**  
**Consolidated Commission on Utilities**

00.000

**AMI Technician Leader (Proposed)****NATURE OF WORK IN THIS CLASS:**

This position leads and supports the day-to-day monitoring, analysis and control of the Command Center for the Advanced Metering Infrastructure (AMI) operations and Radio Frequency (RF) networking for the Guam Power Authority.

**ILLUSTRATIVE EXAMPLES OF WORK:** *(Any one position may not include all the duties listed, nor do the examples cover all the duties which may be performed.)*

Leads in the monitoring of the dashboard system for status of AMI meters, radio frequency (RF) connectivity and outage tracking.

Leads in remote connections/disconnections for 2s and 12s smart meters for move-in/move-out customers as well as delinquent accounts.

Leads in sending and receiving of various commands, e.g. On Demand Reads (ODR) as needed to AMI meters and RF network for operations and troubleshooting.

Enters latitude/longitude, service location ID, date and time of installation, customer information file (customer ID, billing cycle, book number) on spreadsheet and provide to IT for import to update records in Command Center.

Leads in validating and reviewing field activity work orders for successful completion on Command Center and Customer Information System (CIS).

Coordinates customer inquiries for meter troubleshooting.

Leads in the preparation of documents for field investigations, energy surveys, and meter testing (i.e. interval data, consumption load break down, snap shots, and readings).

Leads in monitoring of unscheduled power outages and report locations to the Power System Control Center (PSCC) and/or other departments.

Performs other related duties as required.

**MINIMUM KNOWLEDGE, ABILITIES AND SKILLS:**

Knowledge of Landis+Gyr Command Center applications.

Knowledge of 132Comm, End Point Test Manager (ETM) and radio shop software applications.

Knowledge of optical probes utilized to obtain data directly from smart meters.

Knowledge of the customer information system.

Knowledge of different AMI meter types and forms including GPA legacy meter types and forms.

Knowledge of AMI Network operations and Radio Frequency (RF) Networking.

**EXHIBIT A**

Ability to lead the work of others.

Ability to make arithmetic computations.

Ability to work effectively with the public and employees.

Ability to follow oral and written instructions.

Ability to maintain records and prepare reports.

Ability to interpret and apply pertinent laws, rules, regulations and other program guidelines.

Ability to learn and apply computer system application utilized by the utility, to include but not limited to Landis+Gyr Command Center; MeterSense MDMS; Customer Care & Billing (CC&B); and JD Edwards.

Skill in the safe operation of a motor vehicle.

**MINIMUM EXPERIENCE AND TRAINING:**

- 1) Four (4) years of experience in Advanced Metering Infrastructure (AMI) dashboard alerts and endpoint status monitoring, and graduation from high school or GED equivalency; or
- 2) Any equivalent combination of experience and training which provides the minimum knowledge, abilities and skills.

**NECESSARY SPECIAL QUALIFICATION:**

Possession of a valid driver's license may be required.

Established:

---

**JOSEPH T. DUENAS, Chairman**  
**Consolidated Commission on Utilities**

## POSITION DESCRIPTION QUESTIONNAIRE INSTRUCTIONS

### WHO SHOULD COMPLETE THE QUESTIONNAIRE?

- (1) The employee occupying the position (jobholder) completes the first six (I-VI) sections of the questionnaire.
- (2) The employee completes Section VII if he/she chooses to do so. If the employee decides not to complete Section VII, mark the box provided. The direct supervisor will then complete Section VII for the employee.
- (3) The direct supervisor completes Section VIII. It is to add or clarify any of the information provided by the employee/jobholder or to provide different information.
- (4) The direct supervisor completes the questionnaire for vacant positions.
- (5) Section IX is completed by the Human Resources Office.
- (6) The completed questionnaire is subject to post-audit by the Civil Service Commission.

### I. JOB IDENTIFICATION:

- Position Title: Show the official (payroll) title only.
- Official Position No.: Show the official number provided in the staffing pattern for the job. Although the employee/jobholder may change from time to time, the position number does not change. It is a position management tool.
- Job Location: Show the exact location of the position within the organization.
- Direct Supervisor: Show the official position title and name of supervisor or manager to whom the jobholder must report.

### II. JOB DESCRIPTION:

**ESSENTIAL FUNCTIONS:** These are the required job duties of the position that a qualified person must perform. Under the Americans with Disability Act, the duties are performed either with or without a "reasonable accommodation." Without one of the essential functions, the need for the job is changed.

The description of functions performed must be short, clear and correct. It should tell what is done and its purpose or why. It should not tell how it is done. The duties are specific. Do not use unclear, general statements. Do not use additional papers.

Organize and list the job functions in one of the formats selected below. Mark the format selected. The format selected is only for the purpose of organizing the description of the job. It will not determine the job's classification and pay.

- (1) Daily work assignments – proper for job functions that are repetitive and have specific work operations and procedures. List the functions beginning with the first daily work assignment and ending with the last work assignment.
- (2) Percentage of time – proper for jobs that have varied functions and responsibilities. List the functions by percentage of time spent, beginning with the highest percentage. The total % should equal 100%.
- (3) Order of importance – proper for job functions that provide levels of importance. List the functions beginning with the most important function and ending with the least important. All functions are performed, however.

**NONESSENTIAL FUNCTIONS:** Nonessential functions are tasks that are minor, or not required to the completion of the essential functions. In addition, nonessential functions are those that could be performed by other workers. The phrase, "performs related duties as assigned" is normally listed here.

### III. MINIMUM QUALIFICATION REQUIREMENTS:

These are the minimum requirements needed to qualify for the job. They are necessary for satisfactory performance of the job's essential functions. It is not to show the employee's (jobholder's) qualifications. They are used further in the job analysis necessary for the creation of position classification standards.

**Experience** – Show the type and length (months or years) of experience needed by a qualified applicant to perform the essential functions of the job.

**Education** – Show the formal schooling or training required for a qualified applicant to perform the essential functions of the job.

EXHIBIT A

Revised: 05/97

Class Code

**POSITION DESCRIPTION QUESTIONNAIRE****I. IDENTIFICATION**

Official Position Title: <b>AMI TECHNICIAN LEADER</b>		Official Position No.:	
Job			
Location:	<u>Guam Power Authority</u>	<u>Customer Services</u>	
	(Department/Agency)	(Division)	(Section/Unit)
Name:			
	<u>                    </u>	<u>                    </u>	<u>                    </u>
	Last	First	Middle Initial
Pay Grade:	<input checked="" type="checkbox"/> Classified	<input type="checkbox"/> Unclassified	<input type="checkbox"/> Position Vacant
Supervisor:			
(Name of Direct Supervisor)		Title of Supervisor	

**II. DESCRIPTION OF DUTIES**

Duty NO. or % of Time	<p><b>ESSENTIAL FUNCTIONS:</b> Organize and list duties and responsibilities that <b>MUST</b> be performed. List duties in one of the formats below.</p> <p>(1) The daily work assignments, beginning with the first duty and ending with the last duty for the day.</p> <p>(2) Percentage of time and show % for each (total % equals 100%).</p> <p>(3) Order of importance, beginning with the most important.</p> <p>Mark (✓ or X) one format only: <input type="checkbox"/> (1), <input type="checkbox"/> (2), <input checked="" type="checkbox"/> (3)</p>
	<p><b>AMI OPERATIONS/RF NETWORKING:</b> Leads and assist personnel in day to day operations related to collector status. Perform Collector connectivity tests/ping. Prepare for remote disconnection and reconnection on command center. Send command via command center and record. Respond to client safety alerts for reconnection of customers properly. Validate field activity work order for successful completion on Command Center and CIS.; Monitor meter and endpoint alerts on AMI dashboard (i.e. lost, not logging, tamper reverse, stuck switch, power outages); Prepare documents for field investigations, energy audits, and meter testing (i.e. interval data, consumption load break down, snap shots, and readings); Monitor all reporting associated with network connectivity and meter data. Review and analyze daily midnight reads, interval data, meter history, event logs for irregularities and voltage quality; Assist with meter inquiries from all divisions; Monitor and update meter group types and user defined group; Edit and update smart meter information on command center (i.e. service address, latitude/longitude location, billing cycles, and book numbers); Monitor for unscheduled power outages and report locations to PSCC and/or other departments.</p>
	<p><b>CUSTOMER SERVICE DUTIES:</b> Interacting and assisting customers on a daily basis regarding their power bill inquiries, while in the office or out on the field. Whether in person or by phone. Perform various task with CIS system. Assist business office personnel with manpower augmentation when needed. Complete and lock all daily customer work order requests for commercial, residential, and government accounts to include same day services. Process and lock AMI meter exchange, AMI meter investigations and Emergency work clearance work orders. Create work orders on CIS system when necessary and submit to proper departments. Provide excellent customer service when dealing with customers directly or by phone. Provide good customer relations by providing customers the knowledge to understand the operations, advantages, and benefits of the smart meter program.</p>
	<p><b>ADMINISTRATIVE:</b> Performs as auxiliary payroll time entry clerk for personnel. Performs vehicle time entry and monitors vehicle preventive maintenance schedules. Prepares weekly rotational work schedule for approval. Performs account billing adjustments related to error reads and work order completions.</p>
	<p><b>NON-ESSENTIAL OR ADDITIONAL FUNCTIONS:</b> List duties and responsibilities not listed above that <b>may be</b> performed, as assigned.</p>
	Assist other divisions on providing information on customer accounts, locations, readings etc.

May 12, 1997

2

EXHIBIT A

	Assist various sections throughout in the monitoring of the AML real time outage tracker during pre-and post-storm restorations.
	Conduct preventive maintenance on all assigned vehicles.
	Follow all departmental rules and policies.
	Perform good housekeeping.

**III. CONTACTS:** Departments, agencies and individuals you deal with during the course of your daily activities.

A. Within your department / agency. Mark (X or √) one box:

- ☐ None      ☐ Up to 15% of total working hours  
☐ 15 – 50% of total working hours      ☒ Over 50%

B. Outside your department / agency. Mark (X or √)

- ☐ None      ☐ Up to 15% of total working hours  
☐ 15 – 50% of total working hours      ☒ Over 50%

**IV. SUPERVISION RECEIVED:** How closely is the employee's/jobholder's work reviewed by the direct supervisor?  
Mark (X or √) one correct response.

<input type="checkbox"/>	Detailed and specific instructions / procedures received or followed for each assignment.
<input type="checkbox"/>	General Supervision – Routine duties are performed with minimal supervision. Standard practices or procedures allow employee to function alone at routine work. Supervisor makes occasional check of work while in progress. Work is reviewed upon completion.
<input checked="" type="checkbox"/>	Direction – Receives guidance about general objectives in most of the tasks and projects assigned; determines methods, work sequence, scheduling and how to achieve objectives of assignments; operates within policy guidelines. (Generally applicable to skilled professionals, supervisors and managers.)
<input type="checkbox"/>	General Direction – Receives very general guidance about overall objectives; work is usually quite independent of others; operates within division or department policy guidelines, using independent judgment in achieving assigned objectives. (Generally applicable to managers / administrators in large and complex organizations and to department / agency heads and their first assistants.)

**V. SUPERVISION EXERCISED:** The employee/jobholder supervises other employees. List the number of employees supervised, their position titles, and a brief description of their responsibilities.

Number Supervised	Position Title	Description of Responsibilities

**VI. EQUIPMENT:** List the equipment (pickup truck, welder, crane, etc.), office machines (word processor, calculator, copying machine, etc.), or any other machines, tools or devices that are used on a regular and continuing basis. Show what percentage of the regular workday is spent using each.

TOOLS / EQUIPMENT	PERCENT (%) OF TIME FOR EACH
Desk Top Computer	35
Lap Top Computer	15
Printer/ Copier Machine	2
Calculator	2
Shoretel Telephone	1
Push To Talk Radio	1
Optical Probe	10
Thermal Tester	1
Integrated Wan Radio (IWR)	5
Volt Meter	5
Various Personal Protective Equipment (PPE)	5
Government Official Vehicle	15

**VII. JOB REQUIREMENTS**

☐ Mark (✓ or X) here if jobholder is unable to complete this section. The direct supervisor will then complete this section for the jobholder.

**A. MINIMUM QUALIFICATION REQUIREMENTS:** List the minimum experience and training a qualified applicant must have before employment.

<b>1. WORK EXPERIENCE:</b> List the general, specialized and/or supervisory / management work experience needed and how much (in months and/or years). If none, mark (✓ or X) "No work experience required."	
<input type="checkbox"/> No work experience is required.	
Computer Knowledge: Demonstrated ability with regard to computer skills, including excellent word processing capabilities, proficiency with e-mail and internet applications and data base applications and experience using programs such as (for example: MS Word, Access and Excel).	
Analytical Thinking Skills: Proven ability to work in complex frameworks, analyze and prioritize elevated levels of information and convert ideas and objectives into actions. Problem Solving Skills: Ability to appropriately prioritize problems, gather and analyze the right information to identify symptoms and causes and identify the right people to involve reaching better conclusions.	
Specialized: Advanced Metering Infrastructure and Radio Frequency network/meter/router/collector; Radio Shop, Command Center, and Endpoint Test Management (ETM) advance operations training by Landis & Gyr.	
Semi-skilled in the electrical trade or equivalent.	
Four (4) years of experience in Advanced Metering Infrastructure (AMI) dashboard alerts and endpoint status monitoring and graduation from high school or GED equivalency; or Any equivalent combination of experience and training which provides the minimum knowledge, abilities and skills.	
Supervisor / Management:	
If no work experience is required, list the knowledge, abilities and skills a qualified applicant needs before employment to perform the essential job functions.	
<b>2. FORMAL EDUCATION OR TRAINING:</b>	
Mark (✓ or X) the <b>most</b> applicable education level required.	
a. <input type="checkbox"/> Below High School – Show Number of Years	
b. <input checked="" type="checkbox"/> High School Graduation / GED	

c.	[ ]	Vocational / Technical School  Show specific training that is required by this position. Advanced Metering Infrastructure and Radio Frequency Networking. Knowledge and training of Customer information systems related <hr/> <hr/>
d.	[ ]	Some College  Show number of [ ] Semester Hours _____ or [ ] Quarter Hours _____. Show specific courses required by the essential functions of this job.  <hr/> <hr/> <hr/> <hr/>
e.	College Degree (Show major area of study required.)  [ ] Associate's : _____ [ ] Bachelor's: _____ [ ] Master's: _____ [ ] Beyond Masters: _____	
<b>3. CRITICAL SKILLS / EXPERTISE:</b> List specialized skills or specialization needed to perform essential functions.		
Advanced Metering Infrastructure Operations and Radio Frequency networking. <hr/> <hr/> <hr/>		
<b>4. LICENSE, REGISTRATION OR CERTIFICATION:</b> List possession of required license, professional registration/certification needed to perform essential functions.		
<hr/>		

**B. MENTAL / VISUAL, PHYSICAL, AND ENVIRONMENTAL JOB REQUIREMENTS:**

<b>1. Mark (✓ or X) the most appropriate physical requirement(s) for the job.</b>		
[ X ]	Sitting	The job requires the employee to sit in a comfortable position most of the time. The employee can move about.
[X ]	Sitting	Employee is required to sit for extended periods or time without being able to leave the work area.
[ X ]	Sitting/Standing/Walking	The employee is required to sit, stand, and walk most of the time.
[ X ]	Climbing	Employee is required to climb ladders or scaffolding or to climb and work in overhead areas.
[X ]	Lifting	Employee is required to raise or lower objects from one level to another regularly.
[ X ]	Pulling and/or Pushing	The job requires exerting force up to _____ pounds on a regular basis to move



		the object to or away from the employee.
<input checked="" type="checkbox"/>	Carrying	The employee is required, on a regular basis, to carry objects in his or her arms or on the shoulder(s).
<input checked="" type="checkbox"/>	Reaching	The employee is regularly required to use the hands and arms to reach for objects.
<input checked="" type="checkbox"/>	Stooping and Crouching	The employee is regularly required to bend forward by bending at the waist or by bending legs and spine.
<input checked="" type="checkbox"/>	Crawling	Employee is required to work in a confined space and/or to crawl and move about on his or her hands and knees.
<input checked="" type="checkbox"/>	Speaking	The job requires expressing ideas by the spoken word.
<input checked="" type="checkbox"/>	Listening	The job requires the perception of speech or the nature of sounds in the air.
<input type="checkbox"/>	Other	Describe the requirement. _____ _____ _____

<b>2. Mark (✓ or X) the most appropriate mental / visual requirement for the job.</b>		
<input checked="" type="checkbox"/>	General Intelligence (typical requirement for machine operators, office staff, etc.)	
<input type="checkbox"/>	Motor Coordination Skills (typical for automotive mechanic, painter, etc.)	
<input checked="" type="checkbox"/>	Coordination of Eyes, Hands, and Feet (typical for tractor trailer driver, fire fighter, line electrician, etc.)	
<input checked="" type="checkbox"/>	Verbal Intelligence (typical for counselors, customer service representatives, etc.)	
<input type="checkbox"/>	Numerical Intelligence (typical for an accounting clerk, cargo checker, etc.)	
<input type="checkbox"/>	Other:	_____ _____ _____

<b>3. The job's most appropriate work environment and the weather exposure.</b>		
Show what percent of a typical workday is spent. (Select one response only)		
__60__%	Indoors in a comfortable temperature-controlled environment (for instance, in an office).	
__5__%	Indoors in a non-temperature-controlled environment (such as an open garage, storerooms and warehouses, etc.)	
__10__%	Outdoors exposed to changing weather conditions (for instance, rain, sun, wind, etc.)	
__25__%	Outdoors but in an enclosed vehicle protected from extreme weather conditions.	

<b>4. Other physical working conditions</b>		
<input type="checkbox"/> Mark (X or ✓) if none of the following is applicable.		
Show what percent of a typical workday this position is exposed to:		
_5_%	Air contamination (i.e., dust, fumes, smoke, toxic conditions, disagreeable odors).	
____%	Vibration (i.e., operating jackhammer, impact wrench).	

__5_%	Noise (Exposure at a level enough to cause bearing loss or fatigue).		
_____%	An improperly illuminated or awkward and confining work space.		
_ 5_%	Working above ground level where the chance of falling exists (i.e., on ladders, rooftops, bucket trucks, scaffolding).		
__10_%	Lifting or carrying items or objects. Describe item/object and weight:		
	_____		
	_____		
__25_%	Heat. Describe source and degree of high temperature.		
	Outdoors Temperatures		
	_____		
	_____		
__25_%	Cold. Describe source and degree of cold temperature: Indoor Office Temperatures		
	_____		
	_____		
_ 25_%	Other hazards. Describe:		
	Electrical, Extreme Weather, and Vicious Animals		
	_____		
	_____		
<b>5. Describe the working conditions that are irregular or unusual for the job and show frequency of exposure.</b> <input type="checkbox"/> Mark (X or √) if not applicable.			
	<table border="0"> <tr> <td style="text-align: center;"><b>CONDITION</b></td> <td style="text-align: center;"><b>FREQUENCY OF EXPOSURE</b></td> </tr> </table>	<b>CONDITION</b>	<b>FREQUENCY OF EXPOSURE</b>
<b>CONDITION</b>	<b>FREQUENCY OF EXPOSURE</b>		

**C. Work Schedule/Hours** – Mark (√ or X) the most appropriate work schedule/hours for the job.

<input type="checkbox"/>	Regular – Standard Eight (8) hours daily, Monday – Friday
<input type="checkbox"/>	Irregular – Shift work – A 24-hour work operation.
<input checked="" type="checkbox"/>	Regular / Irregular – Overtime hours with overtime pay entitlement
State Purpose and Total Hours required per pay period:	
40 hours a week and overtime if required in an event of non-communication issues or other issues pertaining to a smart meter and or command center and emergency situations.	

The information given on this position is complete and correct.

_____ Signature of Employee	_____ Date
--------------------------------	---------------

**VIII. SUPERVISOR'S REVIEW****IMPORTANT: This Block to Be Filled Out Only By The Direct Supervisor**

a.	(1)	Has the employee correctly stated his or her official payroll position title? [ ] Yes [ ] No
	(2)	If not, what is the correct title? _____
b.	(1)	Are the employee's statements about the duties of his/her position and the supplementary information complete and accurate? [ ] Yes [ ] No
	(2)	If not, what additions, deletions or corrections should be made? (Refer to block and page) _____ _____ _____
c.	What positions under your supervision perform the same essential functions Give name and title:	
	Name	Title
	_____	_____
	_____	_____
d.	Does this position require (mark one) [ ] Immediate supervision on a regular basis, [ ] Immediate supervision only for new/complex tasks, or [ ] Little immediate supervision.	
e.	Does the employee participate in (mark those appropriate) the [ ] Formulation, [ ] Interpretation, and/or [ ] Application of Agency/Department policy. Give examples: _____ _____ _____	
f.	The employee (mark one) [ ] Performs routine, well-defined tasks, [ ] Performs moderately complex tasks requiring moderate knowledge of Agency's/Department's work; or [ ] Performs complex tasks requiring extensive knowledge of Agency's/Department's work.	

I certify to the accuracy of the description of duties, responsibilities and organizational relationships provided herein; further, that the position is necessary to carry out government functions for which I am responsible. This certification is made with the knowledge that this information is to be used for statutory purposes on the use of public funds. The false or misleading statement may constitute violations of such statutes or their implementing regulations.

**X**

---

Beatrice P. Limtiaco  
Assistant General Manager, Administration

**IX.**

**Human Resources Office Review:**

Date: \_\_\_\_\_

Reviewed by: \_\_\_\_\_  
Position Title Name

Classification Correct: ☐ Yes ☐ No

If not, corrective action taken: (Attach copy of review made)

---

---

Approved by: \_\_\_\_\_  
Personnel Services Administrator Date

---

**Civil Service Commission Post-Audit:**

Date: \_\_\_\_\_

Reviewed by: \_\_\_\_\_  
Position Title Name

Classification Correct: ☐ Yes ☐ No

If not, corrective action taken: (Attach copy of review made)

---

---

## POSITION DESCRIPTION QUESTIONNAIRE INSTRUCTIONS

### WHO SHOULD COMPLETE THE QUESTIONNAIRE?

- (1) The employee occupying the position (jobholder) completes the first six (I-VI) sections of the questionnaire.
- (2) The employee completes Section VII if he/she chooses to do so. If the employee decides not to complete Section VII, mark the box provided. The direct supervisor will then complete Section VII for the employee.
- (3) The direct supervisor completes Section VIII. It is to add or clarify any of the information provided by the employee/jobholder or to provide different information.
- (4) The direct supervisor completes the questionnaire for vacant positions.
- (5) Section IX is completed by the Human Resources Office.
- (6) The completed questionnaire is subject to post-audit by the Civil Service Commission.

### I. JOB IDENTIFICATION:

- Position Title: Show the official (payroll) title only.
- Official Position No.: Show the official number provided in the staffing pattern for the job. Although the employee/jobholder may change from time to time, the position number does not change. It is a position management tool.
- Job Location: Show the exact location of the position within the organization.
- Direct Supervisor: Show the official position title and name of supervisor or manager to whom the jobholder must report.

### II. JOB DESCRIPTION:

**ESSENTIAL FUNCTIONS:** These are the required job duties of the position that a qualified person must perform. Under the Americans with Disability Act, the duties are performed either with or without a "reasonable accommodation." Without one of the essential functions, the need for the job is changed.

The description of functions performed must be short, clear and correct. It should tell what is done and its purpose or why. It should not tell how it is done. The duties are specific. Do not use unclear, general statements. Do not use additional papers.

Organize and list the job functions in one of the formats selected below. Mark the format selected. The format selected is only for the purpose of organizing the description of the job. It will not determine the job's classification and pay.

- (1) Daily work assignments – proper for job functions that are repetitive and have specific work operations and procedures. List the functions beginning with the first daily work assignment and ending with the last work assignment.
- (2) Percentage of time – proper for jobs that have varied functions and responsibilities. List the functions by percentage of time spent, beginning with the highest percentage. The total % should equal 100%.
- (3) Order of importance – proper for job functions that provide levels of importance. List the functions beginning with the most important function and ending with the least important. All functions are performed, however.

**NONESSENTIAL FUNCTIONS:** Nonessential functions are tasks that are minor, or not required to the completion of the essential functions. In addition, nonessential functions are those that could be performed by other workers. The phrase, "performs related duties as assigned" is normally listed here.

### III. MINIMUM QUALIFICATION REQUIREMENTS:

These are the minimum requirements needed to qualify for the job. They are necessary for satisfactory performance of the job's essential functions. It is not to show the employee's (jobholder's) qualifications. They are used further in the job analysis necessary for the creation of position classification standards.

**Experience** – Show the type and length (months or years) of experience needed by a qualified applicant to perform the essential functions of the job.

**Education** – Show the formal schooling or training required for a qualified applicant to perform the essential functions of the job.

## EXHIBIT A

Revised: 05/97

Class Code

**POSITION DESCRIPTION QUESTIONNAIRE****I. IDENTIFICATION**

Official Position Title: <b>AMI TECHNICIAN</b>		Official Position No.:	
Job			
Location:	<u>Guam Power Authority</u>	<u>Customer Services</u>	
	(Department/Agency)	(Division)	(Section/Unit)
Name:			
	Last	First	Middle Initial
Pay Grade:	<input checked="" type="checkbox"/> Classified	<input type="checkbox"/> Unclassified	<input type="checkbox"/> Position Vacant
Supervisor:			
(Name of Direct Supervisor)		Title of Supervisor	

**II. DESCRIPTION OF DUTIES**

Duty NO. or % of Time	<p><b>ESSENTIAL FUNCTIONS:</b> Organize and list duties and responsibilities that <b>MUST</b> be performed. List duties in one of the formats below.</p> <p>(1) The daily work assignments, beginning with the first duty and ending with the last duty for the day.</p> <p>(2) Percentage of time and show % for each (total % equals 100%).</p> <p>(3) Order of importance, beginning with the most important.</p> <p>Mark (✓ or X) one format only: <input type="checkbox"/> (1), <input type="checkbox"/> (2), <input checked="" type="checkbox"/> (3)</p>
	<p><b>AMI OPERATIONS/RF NETWORKING:</b> Check collector status and ping each collector for status confirmation. Monitor the AMI dashboard real time outage tracker. Prepare for remote disconnection and reconnection on command center. Send command via command center and record. Respond to client safety alerts for reconnection of customers properly. Validate field activity work order for successful completion on Command Center and CIS.; Monitor meter and endpoint alerts on AMI dashboard (i.e. lost, not logging, tamper reverse, stuck switch, power outages); Prepare documents for field investigations, energy audits, and meter testing (i.e. interval data, consumption load break down, snap shots, and readings); Monitor all reporting associated with network connectivity and meter data. Review and analyze daily midnight reads, interval data, meter history, event logs for irregularities and voltage quality. Assist with meter inquiries from all divisions. Monitor and update meter group types and user defined group. Edit and update AMI meter information on command center (i.e. service address, latitude/longitude location, billing cycles, and book numbers); Monitor for unscheduled power outages and report locations to PSCC and/or other departments.</p>
	<p><b>CUSTOMER SERVICE DUTIES:</b> Interacting and assisting customers on a daily basis regarding their power bill inquiries, while in the office or out on the field. Whether in person or by phone. Perform various task with CIS system. Assist business office personnel with manpower augmentation when needed. Complete and lock all daily customer work order requests for commercial, residential, and government accounts to include same day services. Process and lock AMI meter exchange, AMI meter investigations and Emergency work clearance work orders. Create work orders on CIS system when necessary and submit to proper departments. Provide excellent customer service when dealing with customers directly or by phone. Provide good customer relations by providing customers the knowledge to understand the operations, advantages, and benefits of the smart meter program.</p>
	<p><b>NON-ESSENTIAL OR ADDITIONAL FUNCTIONS:</b> List duties and responsibilities not listed above that <b>may be</b> performed, as assigned.</p>
	Assist other divisions on providing information on customer accounts, locations, readings etc.
	Assist various sections throughout in the monitoring of the AMI real time outage tracker during pre-and post-storm restorations.
	Conduct preventive maintenance on all assigned vehicles.

May 12, 1997

	Follow all departmental rules and policies.
	Perform good housekeeping.

**III. CONTACTS:** Departments, agencies and individuals you deal with during the course of your daily activities.

A. Within your department / agency. Mark (X or √) one box:			
<input type="checkbox"/> None	<input type="checkbox"/> Up to 15% of total working hours	<input type="checkbox"/> 15 – 50% of total working hours	<input checked="" type="checkbox"/> Over 50%
B. Outside your department / agency. Mark (X or √)			
<input type="checkbox"/> None	<input type="checkbox"/> Up to 15% of total working hours	<input type="checkbox"/> 15 – 50% of total working hours	<input checked="" type="checkbox"/> Over 50%

**IV. SUPERVISION RECEIVED:** How closely is the employee's/jobholder's work reviewed by the direct supervisor?  
Mark (X or √) one correct response.

<input type="checkbox"/> Detailed and specific instructions / procedures received or followed for each assignment.
<input type="checkbox"/> General Supervision – Routine duties are performed with minimal supervision. Standard practices or procedures allow employee to function alone at routine work. Supervisor makes occasional check of work while in progress. Work is reviewed upon completion.
<input checked="" type="checkbox"/> Direction – Receives guidance about general objectives in most of the tasks and projects assigned; determines methods, work sequence, scheduling and how to achieve objectives of assignments; operates within policy guidelines. (Generally applicable to skilled professionals, supervisors and managers.)
<input type="checkbox"/> General Direction – Receives very general guidance about overall objectives; work is usually quite independent of others; operates within division or department policy guidelines, using independent judgment in achieving assigned objectives. (Generally applicable to managers / administrators in large and complex organizations and to department / agency heads and their first assistants.)

**V. SUPERVISION EXERCISED:** The employee/jobholder supervises other employees. List the number of employees supervised, their position titles, and a brief description of their responsibilities.

Number Supervised	Position Title	Description of Responsibilities

**VI. EQUIPMENT:** List the equipment (pickup truck, welder, crane, etc.), office machines (word processor, calculator, copying machine, etc.), or any other machines, tools or devices that are used on a regular and continuing basis. Show what percentage of the regular workday is spent using each.

TOOLS / EQUIPMENT	PERCENT (%) OF TIME FOR EACH
Desk Top Computer	35
Lap Top Computer	15
Printer/ Copier Machine	5
Calculator	2
Shoretel Telephone	1
Push To Talk Radio	1
Optical Probe	10
Thermal Tester	1
Integrated Wan Radio (IWR)	5
Volt Meter	5
Various Personal Protective Equipment (PPE)	5
Government Official Vehicle	15

## VII. JOB REQUIREMENTS

**[ ]** Mark (✓ or X) here if jobholder is unable to complete this section. The direct supervisor will then complete this section for the jobholder.

**A. MINIMUM QUALIFICATION REQUIREMENTS:** List the minimum experience and training a qualified applicant must have before employment.

<p><b>1. WORK EXPERIENCE:</b> List the general, specialized and/or supervisory / management work experience needed and how much (in months and/or years). If none, mark (✓ or X) "No work experience required."</p>	
<p><input type="checkbox"/> No work experience is required.</p>	
<p>General: . One (1) year experience in Advanced Metering Infrastructure (AMI) dashboard alerts and endpoint status monitoring and graduation from high school or GED equivalency; or Any equivalent combination of experience and training which provides the minimum knowledge, abilities and skills.</p>	
<p>Supervisor / Management:</p>	
<p>If no work experience is required, list the knowledge, abilities and skills a qualified applicant needs before employment to perform the essential job functions.</p>	
<ul style="list-style-type: none"> <li>• Computer Knowledge: Demonstrated ability with regard to computer skills, including excellent word processing capabilities, proficiency with e-mail and internet applications and data base applications and experience using programs such as (for example: MS Word, Access and Excel).</li> <li>• Analytical Thinking Skills: Proven ability to work in complex frameworks, analyze and prioritize elevated levels of information and convert ideas and objectives into actions.</li> <li>• Problem Solving: Ability to appropriately prioritize problems, gather and analyze the right information to identify symptoms and causes and identify the right people to involve reaching better conclusions.</li> <li>• Knowledge of Basic Electricity</li> </ul>	
<p><b>2. FORMAL EDUCATION OR TRAINING:</b> Mark (✓ or X) the <b>most</b> applicable education level required.</p>	
<p>a. <input type="checkbox"/> Below High School – Show Number of Years</p>	
<p>b. <input checked="" type="checkbox"/> High School Graduation / GED</p>	



c.	[ ]	Vocational / Technical School  Show specific training that is required by this position. Basic knowledge of AMI meters and Radio Frequency Networking or equivalent. <hr/> Semi-skilled in the electrical trade or equivalent. <hr/> 2 years' experience in the installation and removal of electrical power meters or equivalent. <hr/>
d.	[ ]	Some College  Show number of [ ] Semester Hours _____ or [ ] Quarter Hours _____. Show specific courses required by the essential functions of this job.  <hr/> <hr/> <hr/> <hr/>
e.	College Degree (Show major area of study required.)  [ ] Associate's : _____ [ ] Bachelor's: _____ [ ] Master's: _____ [ ] Beyond Masters: _____	
<b>3. CRITICAL SKILLS / EXPERTISE:</b> List specialized skills or specialization needed to perform essential functions. <hr/> <hr/> <hr/> <hr/>		
<b>4. LICENSE, REGISTRATION OR CERTIFICATION:</b> List possession of required license, professional registration/certification needed to perform essential functions. <hr/> <hr/>		

**B. MENTAL / VISUAL, PHYSICAL, AND ENVIRONMENTAL JOB REQUIREMENTS:**

<b>1. Mark (✓ or X) the most appropriate physical requirement(s) for the job.</b>	
[ X ]	Sitting The job requires the employee to sit in a comfortable position most of the time. The employee can move about.
[ X ]	Sitting Employee is required to sit for extended periods or time without being able to leave the work area.
[ X ]	Sitting/Standing/Walking The employee is required to sit, stand, and walk most of the time.
[ X ]	Climbing Employee is required to climb ladders or scaffolding or to climb and work in overhead areas.
[ X ]	Lifting Employee is required to raise or lower objects from one level to another regularly.
[ X ]	Pulling and/or Pushing The job requires exerting force up to _____ pounds on a regular basis to move the object to or away from the employee.

<input checked="" type="checkbox"/> [ X ]	Carrying	The employee is required, on a regular basis, to carry objects in his or her arms or on the shoulder(s).
<input checked="" type="checkbox"/> [ X ]	Reaching	The employee is regularly required to use the hands and arms to reach for objects.
<input checked="" type="checkbox"/> [ X ]	Stooping and Crouching	The employee is regularly required to bend forward by bending at the waist or by bending legs and spine.
<input checked="" type="checkbox"/> [ X ]	Crawling	Employee is required to work in a confined space and/or to crawl and move about on his or her hands and knees.
<input checked="" type="checkbox"/> [ X ]	Speaking	The job requires expressing ideas by the spoken word.
<input checked="" type="checkbox"/> [ X ]	Listening	The job requires the perception of speech or the nature of sounds in the air.
<input type="checkbox"/> [ ]	Other	Describe the requirement. _____ _____ _____

**2. Mark (✓ or X) the most appropriate mental / visual requirement for the job.**

- ☒ [ X ] General Intelligence (typical requirement for machine operators, office staff, etc.)
- ☐ [ ] Motor Coordination Skills (typical for automotive mechanic, painter, etc.)
- ☒ [ X ] Coordination of Eyes, Hands, and Feet (typical for tractor trailer driver, fire fighter, line electrician, etc.)
- ☒ [ X ] Verbal Intelligence (typical for counselors, customer service representatives, etc.)
- ☒ [ X ] Numerical Intelligence (typical for an accounting clerk, cargo checker, etc.)
- ☐ [ ] Other:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**3. The job's most appropriate work environment and the weather exposure.**

Show what percent of a typical workday is spent.  
(Select one response only)

- ☐ \_\_60\_\_% Indoors in a comfortable temperature-controlled environment (for instance, in an office).
- ☐ \_\_5\_\_% Indoors in a non-temperature-controlled environment (such as an open garage, storerooms and warehouses, etc.)
- ☐ \_\_10\_\_% Outdoors exposed to changing weather conditions (for instance, rain, sun, wind, etc.)
- ☐ \_\_25\_\_% Outdoors but in an enclosed vehicle protected from extreme weather conditions.

**4. Other physical working conditions**

☐ [ ] Mark (X or ✓) if none of the following is applicable.

Show what percent of a typical workday this position is exposed to:

- ☐ \_\_5\_\_% Air contamination (i.e., dust, fumes, smoke, toxic conditions, disagreeable odors).
- ☐ \_\_\_\_\_% Vibration (i.e., operating jackhammer, impact wrench).
- ☐ \_\_5\_\_% Noise (Exposure at a level enough to cause hearing loss or fatigue).

_____ %	An improperly illuminated or awkward and confining work space.
_ 5_ %	Working above ground level where the chance of falling exists (i.e., on ladders, rooftops, bucket trucks, scaffolding).
_ 10_ %	Lifting or carrying items or objects. Describe item/object and weight: _____ _____
_ 25_ %	Heat. Describe source and degree of high temperature. Outdoors Temperatures _____ _____
_ 25_ %	Cold. Describe source and degree of cold temperature: Indoor Office Temperatures _____ _____
_ 25_ %	Other hazards. Describe: Electrical, Extreme Weather, and Vicious Animals _____ _____
<b>5. Describe the working conditions that are irregular or unusual for the job and show frequency of exposure.</b> <input type="checkbox"/> Mark (X or √) if not applicable.	
<b>CONDITION</b>	<b>FREQUENCY OF EXPOSURE</b>

**C. Work Schedule/Hours** – Mark (√ or X) the most appropriate work schedule/hours for the job.

<input type="checkbox"/> Regular – Standard Eight (8) hours daily, Monday – Friday
<input type="checkbox"/> Irregular – Shift work – A 24-hour work operation.
<input checked="" type="checkbox"/> Regular / Irregular – Overtime hours with overtime pay entitlement
State Purpose and Total Hours required per pay period:
40 hours a week and overtime if required in an event of non-communication issues or other issues pertaining to a smart meter and or command center and emergency situations.

The information given on this position is complete and correct.

N/A

_____ Signature of Employee	_____ Date
--------------------------------	---------------

**VIII. SUPERVISOR'S REVIEW****IMPORTANT: This Block to Be Filled Out Only By The Direct Supervisor**

a.	(1) Has the employee correctly stated his or her official payroll position title? [ X ] Yes                      ] No								
	(2) If not, what is the correct title? _____								
b.	(1) Are the employee's statements about the duties of his/her position and the supplementary information complete and accurate? [ X ] Yes                      [ ] No								
	(2) If not, what additions, deletions or corrections should be made? (Refer to block and page) _____ _____ _____								
c.	What positions under your supervision perform the same essential functions Give name and title: <table border="0" style="width: 100%;"> <tr> <td style="width: 50%; text-align: center;">Name</td> <td style="width: 50%; text-align: center;">Title</td> </tr> <tr> <td>_____</td> <td>_____</td> </tr> <tr> <td>_____</td> <td>_____</td> </tr> <tr> <td>_____</td> <td>_____</td> </tr> </table>	Name	Title	_____	_____	_____	_____	_____	_____
Name	Title								
_____	_____								
_____	_____								
_____	_____								
d.	Does this position require (mark one) [ ] Immediate supervision on a regular basis, [ ] Immediate supervision only for new/complex tasks, or [ X ] Little immediate supervision.								
e.	Does the employee participate in (mark those appropriate) the [ ] Formulation, [ X ] Interpretation, and/or [ X ] Application of Agency/Department policy. Give examples: _____ _____ _____								
f.	The employee (mark one) [ ] Performs routine, well-defined tasks, [ ] Performs moderately complex tasks requiring moderate knowledge of Agency's/Department's work; or [ ] Performs complex tasks requiring extensive knowledge of Agency's/Department's work.								

I certify to the accuracy of the description of duties, responsibilities and organizational relationships provided herein; further, that the position is necessary to carry out government functions for which I am responsible. This certification is made with the knowledge that this information is to be used for statutory purposes on the use of public funds. The false or misleading statement may constitute violations of such statutes or their implementing regulations.

**X**

Beatrice P. Lintiacio  
Assistant General Manager, Administration

**IX. Human Resources Office Review:**

Date: \_\_\_\_\_

Reviewed by: \_\_\_\_\_  
Position Title Name

Classification Correct: [ ] Yes [ ] No

If not, corrective action taken: (Attach copy of review made)

---

---

Approved by: \_\_\_\_\_  
Personnel Services Administrator Date

---

**Civil Service Commission Post-Audit:**

Date: \_\_\_\_\_

Reviewed by: \_\_\_\_\_  
Position Title Name

Classification Correct: [ ] Yes [ ] No

If not, corrective action taken: (Attach copy of review made)

---

---

# GPA WORK SESSION

Presentation To:  
Consolidated Commission on Utilities  
August 23, 2018



# ISSUES FOR DECISION RESOLUTIONS



## **GPA Resolution No. 2018-016**

### **Authorizing Management to award a Two Year Contract for the Supply of Residual Fuel Oil No. 6 to Mobil Oil Guam**

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

The Guam Power Authority's current contract for Supply of Residual Fuel Oil No.6 for the Baseload Plants is expiring in November 30, 2018. The new fuel supply contract is necessary to provide uninterrupted supply of fuel for the Baseload plants.

**Where is the location?**

Residual Fuel Oil No.6 will be supplied to the baseload plants:

Cabras 1&2

MEC 8&9

**How much will it cost?**

The 2-year contract is estimated to cost approximately \$230M requiring prior approval from the PUC.

**When will it be completed?**

The contract is planned for an initial period of two (2) years to commence on or about December 01, 2018 and to expire on November 30, 2020, with the option to extend for three (3) additional one-year terms.

**What is its funding source?**

Fuel revenue funds

**The RFP/BID responses:**

Five bidders responded to the solicitation under IFB GPA-009-18. **Mobil Oil Guam** was determined to the lowest responsive and responsible bidder.





## GPA Resolution No. 2018-017

### Relative to Approving GPA's NET Metering Credit Recommendation

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

The necessary and urgent objective of this resolution seeks approval to file and respond to the Guam Public Utilities Commission (PUC) order under Docket No. 08-10 (December 29, 2008), Exhibit A:

“The NM Rider is available to all customers without limitation as to the aggregate capacity of Customer-Generator installations on the GPA System. However, at the time the number of Customer-Generators exceeds one-thousand (1000) customers this issue will be reviewed by the PUC and a determination made as to the continued offering of the NM Rider for new ‘net metering’ customers.”

GPA achieved the milestone of 1000 net metering customers in June 2016. As of July 31, 2018, GPA has 1,733 net metering customers resulting in an approximate \$3,411,623.29 annual subsidy by non-net metering customers. Additionally, GPA has conducted and completed as ordered by the Consolidated Commission on Utilities (CCU) several public meetings to:

- Address net metering stakeholders' concerns and obtain feedback;
- Evaluate stakeholder feedback;
- Perform analysis regarding net metering impacts on the GPA especially on non-net metering customers;
- Propose recommendations on whether or not changing the current net metering program is in the best interests of customers while insofar as practical alleviating net metering customer concerns.

**Where is the location?**

The Territory of Guam

**How much will it cost?**

This recommendation will save non-net metering customers approximately \$3,411,623.29 annually.

**When will it be completed?**

Upon approval of the Guam Public Utilities Commission

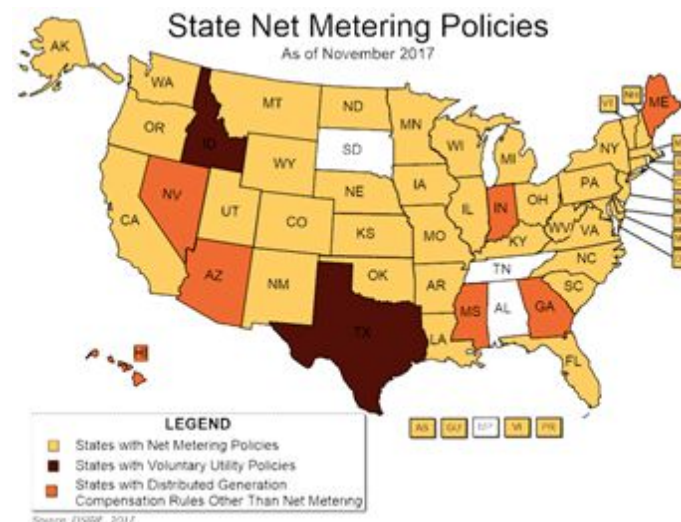
**What is its funding source?**

The Levelized Energy Adjustment Clause



# OVERVIEW – NET METERING POLICIES

- Thirty Eight (38) States, Washington D.C., and Four (4) Territories Offer Net Metering and utilities in two additional states (Idaho and Texas adopted Net Metering (Full Retail Credit)).
- Arizona, Georgia, Hawaii, Indiana, Maine and Mississippi have compensation other than net metering.
- The Value of Solar (VOS) is an alternative to net metering. Customers buy from the grid at retail rate and sell to the grid at an established VOS rate. Only Minnesota and Austin Energy (Texas) has adopted a VOS rate.



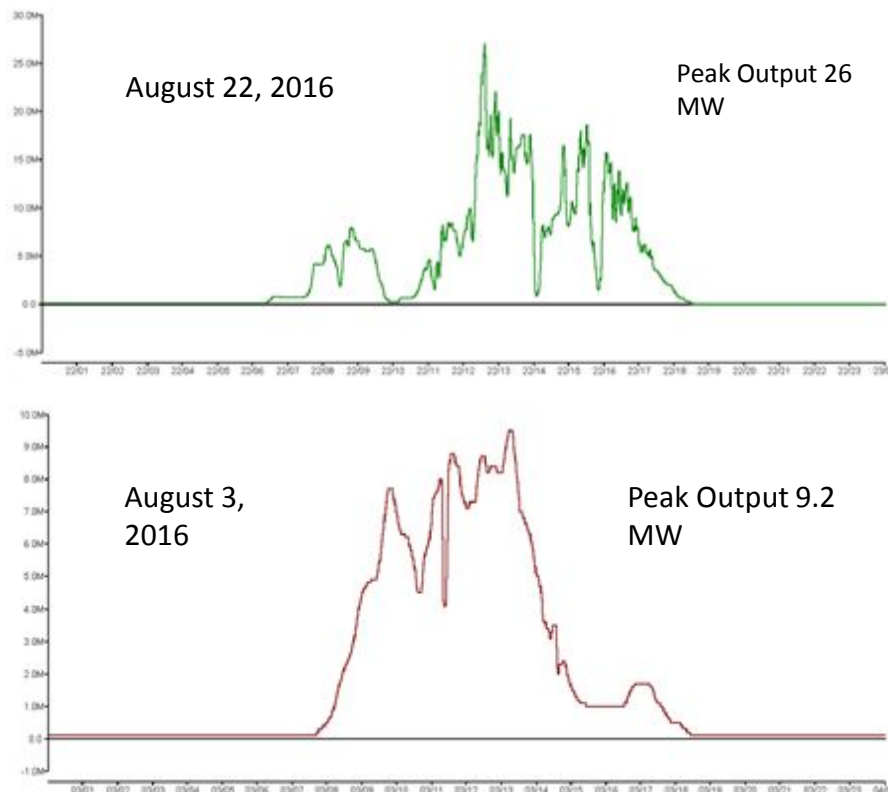
Source: National Council of State Legislatures: 11/20/17

# Guam NEM Program

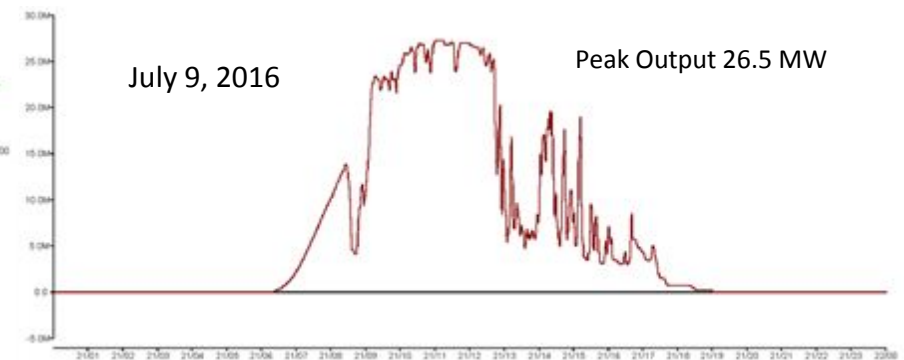
- Program Mandated in 2004. Guam has been crediting NEM customers full retail rate over the past 13 years. Excess credit carried over or paid out annually at full retail rate.
- PUC to evaluate program and credits provided when GPA has 1,000 NEM Customers which occurred in June 2016.
- As of July 2018, GPA has 1,733 NEM Customers (94.7% Residential), with 18,315 KW of capacity. The revenue impact on non-NEM ratepayers is estimated at \$3.4M annually.
- CCU/GPA conducted its first public hearing on NEM in August 2016 to gather input from stakeholders in order to prepare its filing to the PUC for changes in rate credits in order to achieve parity amongst all ratepayers.

# Solar PV Energy Production Characteristics

## Utility Scale PV Output Look Like This ...



NEM does not eliminate  
need for capacity

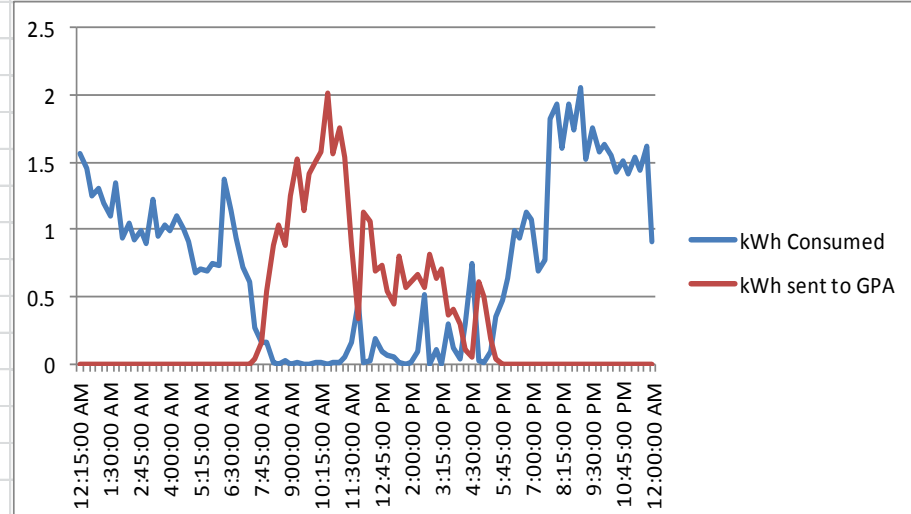
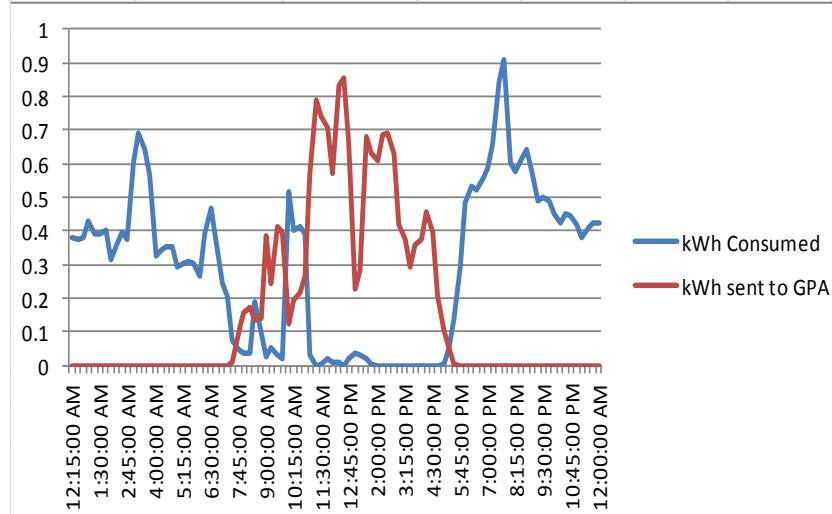


PV without adequate storage is not a capacity  
benefit. It is an energy benefit.

## NEM Customer Profiles

Date:		14-Jun-16		
PV System KW Size		5.0		
GPA KWH 12am to 7am		11.05		
GPA KWH 7am to 6pm		3.66		
<b>GPA KWH 6pm to 12am</b>		<b>12.92</b>	<b>Evening Peak</b>	
NEM KWH 7am to 6pm		16.14		
Net GPA KWH		11.49		

Date:		14-Jun-16		
PV System KW Size		12.4		
GPA KWH 12am to 7am		28.9		
GPA KWH 7am to 6pm		6.1		
<b>GPA KWH 6pm to 12am</b>		<b>34.6</b>	<b>Evening Peak</b>	
NEM KWH 7am to 6pm		32.5		
Net GPA KWH		37.1		



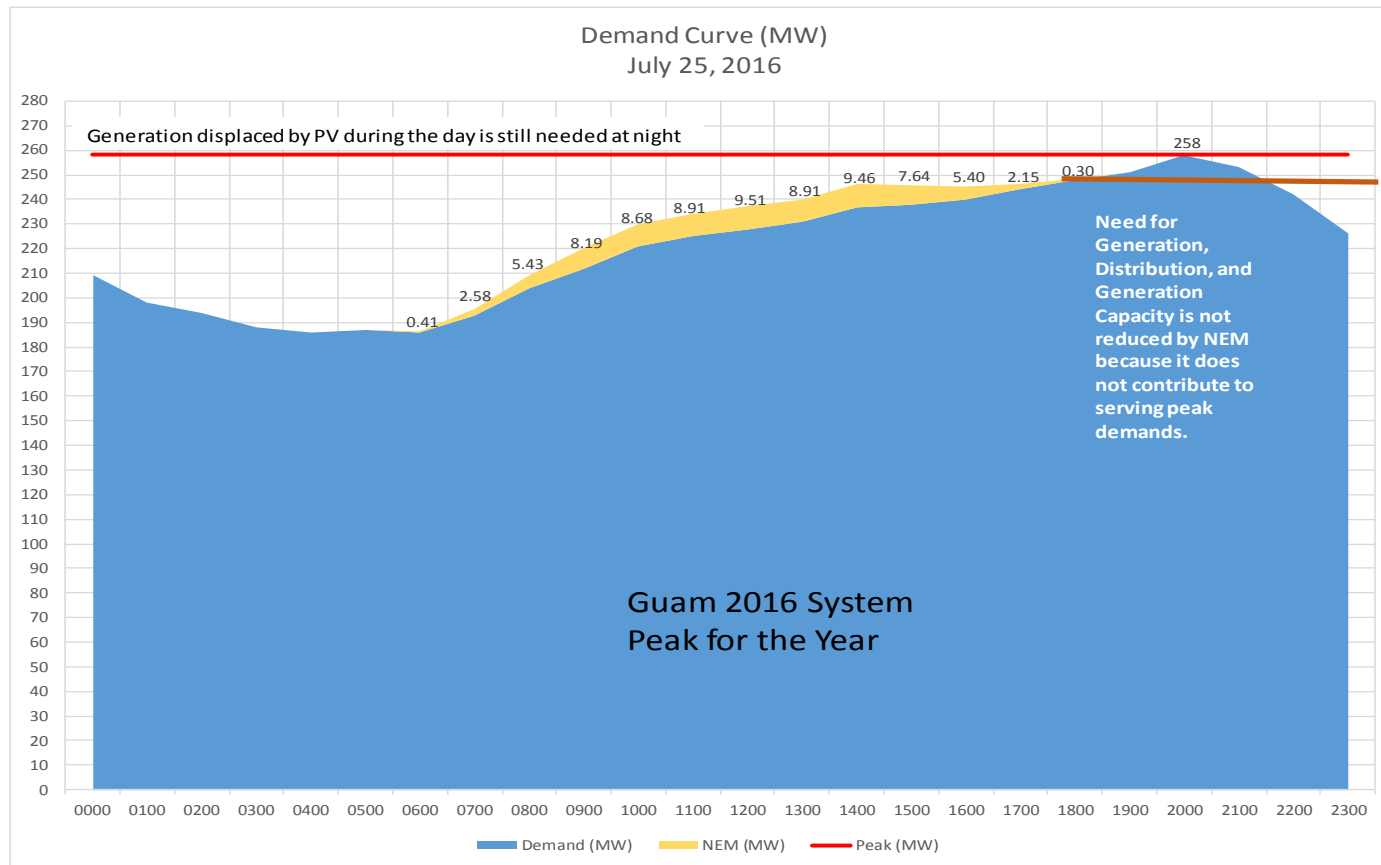
# Does NEM Lower Guam Generation Capacity Requirements?

---

*No. NEM Solar PV systems in Guam does not reduce peak demand and therefore does not eliminate conventional capacity needs*

10

## Transmission, Distribution, or Generation Capacity for Guam Not Reduced by PV





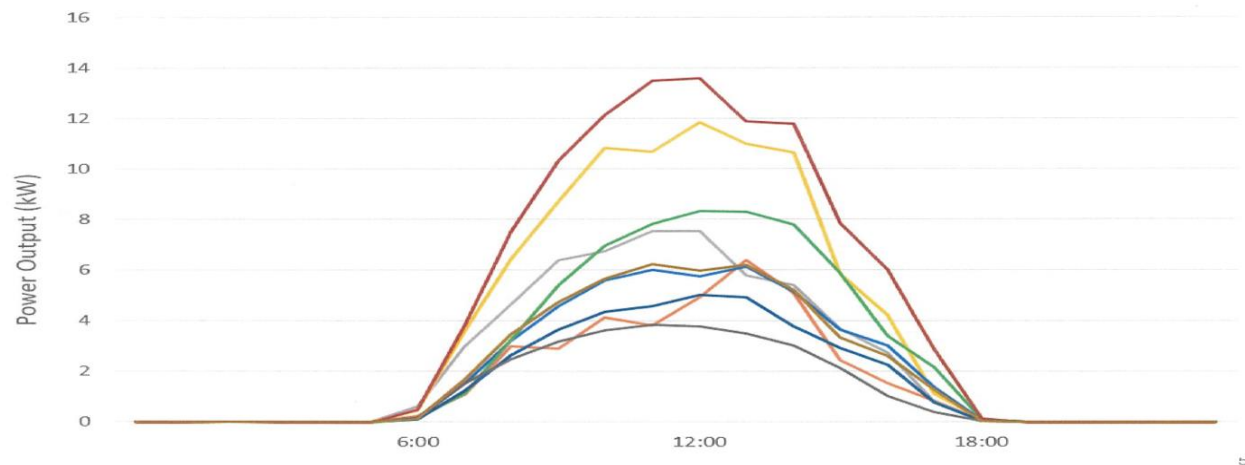
## NEM Peak Production not at GPA Peak Demand Period

Source: Clean Power Resource Report



### Nine Sampled Systems

2015 Peak Load Day: August 31



## Net Metering Policy Issues

- Replacement for Net Metering Program
- Grandfathering existing registered NEM customers
  - Allow customers who own system to recover investment
  - Phase in to avoided cost rates over a 5 to 8 year period
- GPA files for PUC approval:
  - Reassessed NEM rates each LEAC for Avoided Fuel Value
  - Reassessed NEM rates for other components
    - Annually
    - Periodically over a set number of years
    - When GPA's generation mix changes

## Value of the Grid to NEM Customers

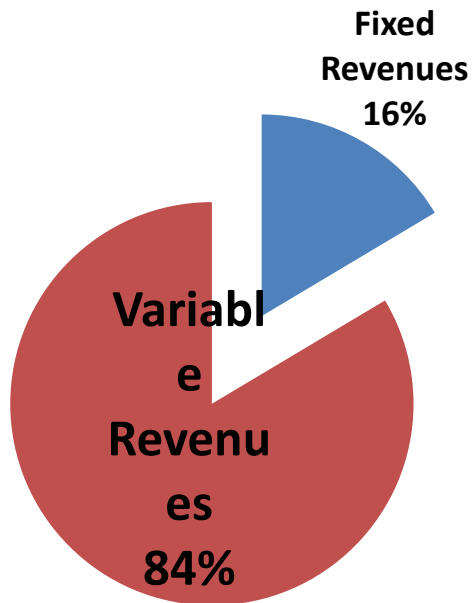
- NEM customers receive services from the grid including:
  - Use the grid to sell power (get credit at full retail rate for excess production)
  - Use the grid to energize their homes at night, but credited back from their production (Uses GPA Grid as storage)
  - Using Grid at night results in increased fuel cost to non-NEM Customers because costlier less efficient generation is used to generate their energy needs
  - Frequency regulation absorbed by grid for intermittencies
  - Reactive power supply
  - Voltage regulation
  - Stand-by power on overcast days when the sun does not shine
- Monthly fixed charge of \$15 does not recover cost to serve from grid
  - Most of GPA fixed cost is recovered in the energy use (kWh) rate component which is typically zero for NEM customers

# Rate Structure & Fixed Cost Recovery

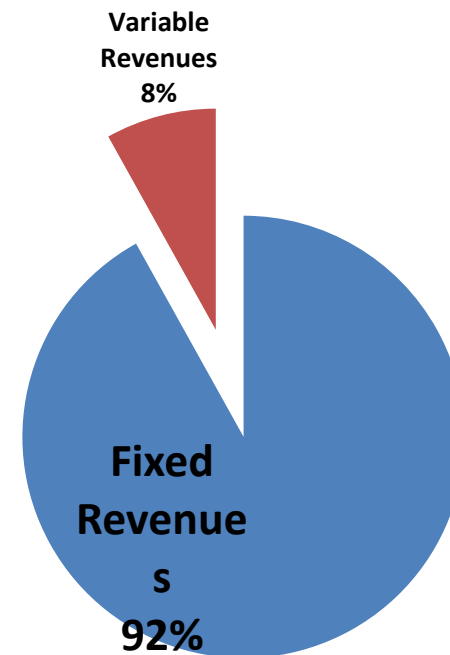
15



### Civilian Fixed vs Variable Revenues



### Navy Fixed vs Variable Revenues



## GPA Rate Structure Should Move Towards Recovering More Fixed Costs Through Fixed Charges.

- Civilian rate structure
  - Most of GPA fixed costs recovered in the variable rate
- Navy rate structure
  - Most of GPA fixed costs recovered in the fixed rate
- Hawaii has moved to fixed cost recovery predominantly through its fixed rate

17

# Net Metering Public Meetings Held to Gather Input from Stakeholders



# Key Points from Public Meetings

- Solar PV providers opined the B&V report provides all the gain to GPA and did not represent true value of solar
- NEM Owner wants to recover his investment. Asked for grandfathering until he does so. He said it will take 7 years to recover his \$60K investment
- NEM not meant to be money making business but a fair exchange of trade energy...some customers making money from units sized beyond their needs
- The applicability of NEM program to 3<sup>rd</sup> party providers need to be clarified
- Solar PV provider wants NEM program to continue up to 20% penetration similar to Hawaii
- Solar PV provider wanted more time to provide a report on Value of Solar and bring to GPA for information. Report was completed and presented by Clean Power Research on April 18, 2018

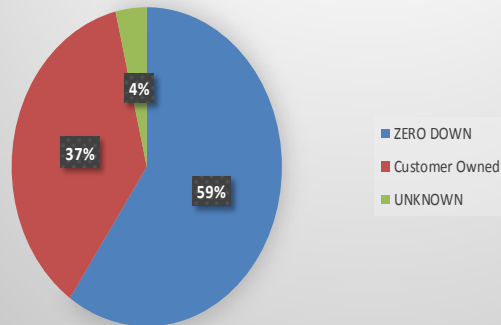


# Key Points from Public Meetings (continued)

- Solar PV provider commented the NEM energy saves the utility cost on:
  - Maintenance cost for generations, poles, labor, lines, substations, transformers, etc.
  - Reduction of line losses because energy is near customers
  - Costs associated with fuel and fuel shipments
  - Helps GPA achieve energy portfolio reducing need for more renewable projects
  - Savings to environment; lessens carbon foot print
- Solar PV Provider-GPA should consider subsidies for home energy storage systems
- Solar PV Provider-GPA should consider grandfathering NEM customers through a phased approach
- No new points placed forward at the July 18, 2018 public meeting where the GM presented his recommendations which were previously presented to CCU

## NEM – PV Statistics

Customer Count

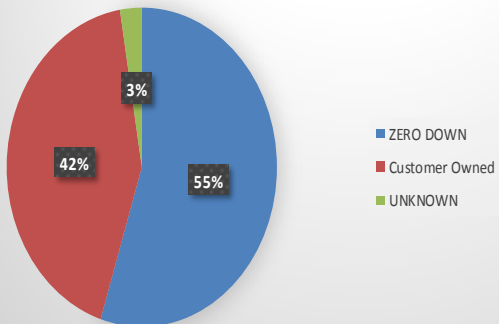


Customer Count	
Description	Number of Customers
ZERO DOWN	979
Customer Owned	602
UNKNOWN	61
<b>Grand Total</b>	<b>1,642</b>

March 2018

Customer Class	KW	NEM	Customers	Percent of Customer Class
R - Residential	14,119	1,562	43,756	3.6%
J - Small General Service Demand	1,647	32	987	3.2%
K - Small Government Demand	318	9	348	2.6%
L - Large Government Demand	23	1	45	2.2%
P - Large General Demand	241	3	116	2.6%
G - Small General Non Demand	666	33	4,127	0.8%
S - Small Government Non-Demand	79	7	681	1.0%
<b>Total</b>	<b>17,092</b>	<b>1,647</b>	<b>50,060</b>	

kW Distribution



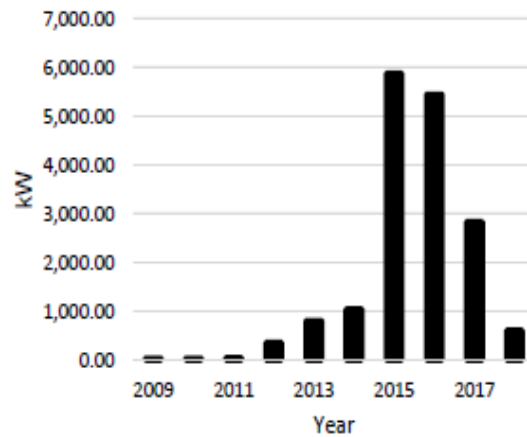
kW Distribution	
Description	kW
ZERO DOWN	9,326
Customer Owned	7,212
UNKNOWN	440
<b>Grand Total</b>	<b>16,978</b>

Projected FY 2018 Non-Fuel Revenue Loss

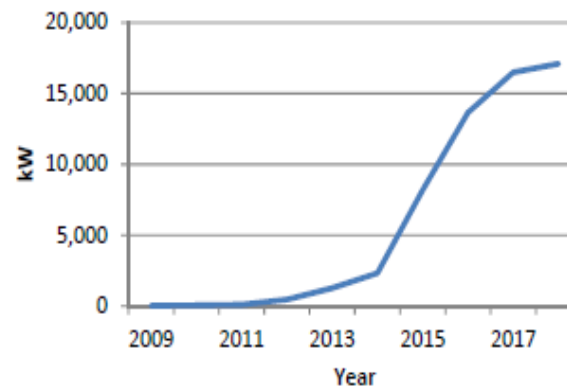
Customer Rate Class	Renewable Energy Capacity (kW)	Annual kWh Generated (@5.092 hours/day)*	Average Non-Fuel Yield \$/kWh	Estimated Annual Revenue Loss
R	13,693	25,447,071	0.09293	\$ 2,364,822
J	1,647	3,059,970	0.13112	401,226
K	318	590,618	0.13932	82,286
L	23	42,373	0.13525	5,731
P	241	447,331	0.11539	51,617
G	636	1,182,853	0.15084	178,417
S	79	146,447	0.15334	22,456
<b>Grand Total</b>	<b>16,636</b>	<b>30,916,662</b>		<b>\$ 3,106,555</b>

\*Estimated number of hours from NREL for Guam (13.4° North and 144° East).

Yearly Installed kW



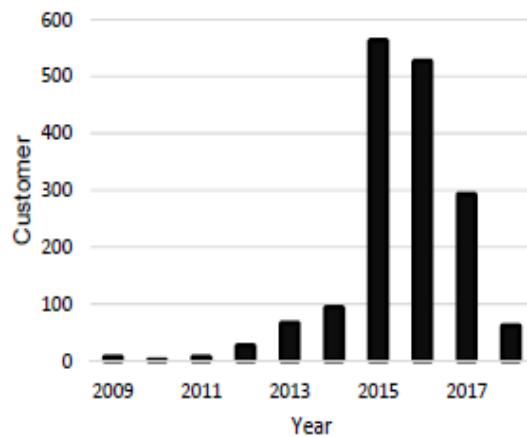
Cumulative Installed kW



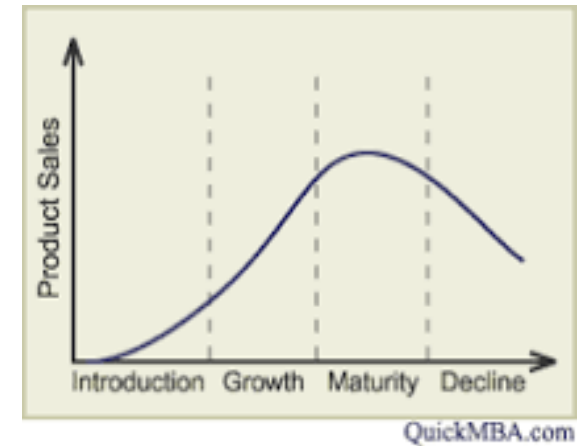
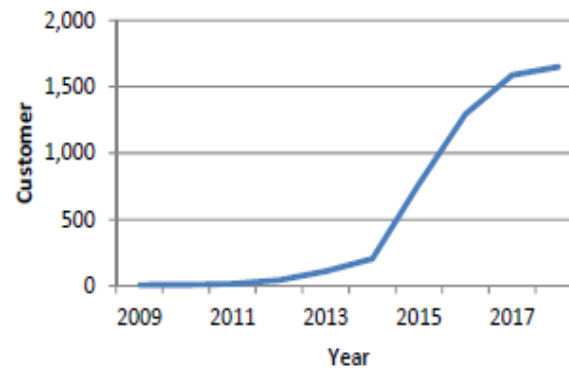
### NEM Market Analysis

- Product Lifecycle Stages
  - 2009 -2011 Introduction
  - 2012 – 2014 Growth
  - 2015 – 2016 Maturity
  - 2017 – Present Decline

Yearly Connected Customer Count

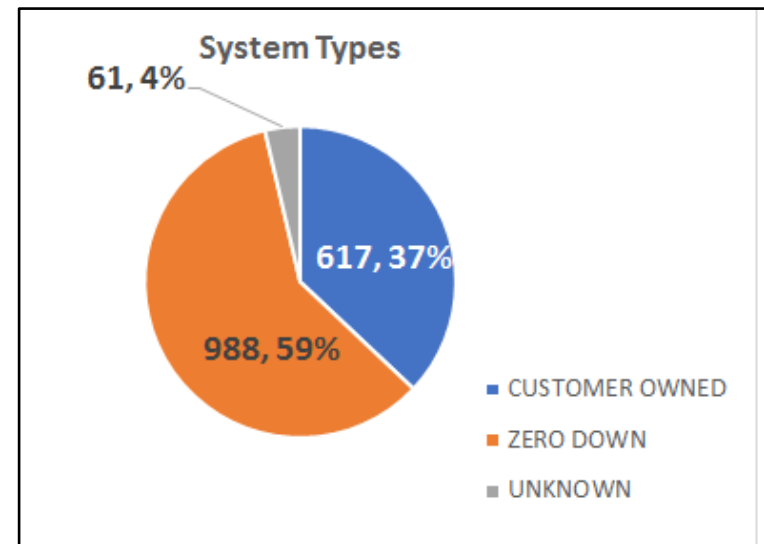


Cumulative Connected Customer Count



## Market Share of Competitors

Firm	Count	Capacity (KW)	% of Installed System
Company A	747	6,882	40.3%
Company B	271	2,337	13.7%
Company C	229	2,426	14.2%
Company D	147	2,410	14.1%
Owner Installed	90	1,088	6.4%
Company E	29	470	2.7%
Company F	26	357	2.1%
Company G	13	100	0.6%
All Other Companies/Self Constructed Combined	35	576	3.4%
Unknown	62	449	2.6%
Totals:	1,649	17,095	100.0%



# GPA Value of Solar from an Avoided Cost Perspective

Cost Category	FY 2017	Cost per kWh Sold	GPA Avoided Cost (\$/kWh)
Generation + IPP Costs			
Other Production - Fixed O&M	\$ 17,783,917	\$ 0.0110	
IPP Costs - Fixed O&M	\$ 16,958,770	\$ 0.0105	
IPP Costs - Variable O&M	\$ 2,976,564	\$ 0.0018	\$ 0.0018
Transmission & Distribution	\$ 11,703,969	\$ 0.0073	
Admin and General			
Payroll, benefits, retirement	\$ 12,862,412	\$ 0.0080	
Insurance	\$ 7,252,504	\$ 0.0045	
Contracts	\$ 4,024,943	\$ 0.0025	
Utilities	\$ 1,817,009	\$ 0.0011	
Office supplies & Others	\$ 844,349	\$ 0.0005	
Customer Accounting	\$ 4,756,213	\$ 0.0030	
Debt Service	\$ 56,937,000	\$ 0.0354	
CIPs/Others	\$ 26,731,639	\$ 0.0166	
Total ( Base Rate Revenues)	\$ 164,649,289	\$ 0.1023	
Fuel Costs	\$ 181,683,506	\$ 0.1128	
Fuel Consumption, plus the under recovery of \$15.3 M)	\$ 165,692,714	\$ 0.1029	\$ 0.1029
Fuel Handling	\$ 7,128,512	\$ 0.0044	
Renewables	\$ 8,862,280	\$ 0.0055	
Total	346,332,795	\$ 0.2151	
Energy losses at 3.5%		\$ 0.0054	\$ 0.0054
Environmental cost		\$ 0.000039	\$ 0.000039
Total Avoided Cost			\$ 0.1102
Average cost in 2017 per kWh		\$ 0.2151	\$ 0.2151
Credit Beyond Avoided Cost			\$ 0.1049

## Energy Storage System (ESS) Cost Frequency Control

FY2019	
Total KWH Sales Projected:	1,610,093,011
ESS Annual Debt Service & O&M:	\$ 2,829,348
\$/kWh:	\$0.0018

**GPA provides low cost energy storage**

New 40 MW Energy Storage System Commissioning December 2018

## Value of Solar Comparison

Only Minnesota and Austin Energy (Texas) adopted VOS Model

Cost Category	Minnesota	Austin Energy	Clean Power Research (MRE)	GPA Avoided Cost FY 2017	Comments
Fuel Cost	X	X	\$0.1260	\$0.1029	Close Agreement
Energy Losses	X	X	\$0.0054	\$0.0054	In Agreement
Plant O&M-Fixed	X	X			
Plant O&M-Variable	X	X		\$0.0018	Minor Cost Impact
Generation Capacity Cost	X	X	\$0.0490		No Capacity Avoided
Reserve Capacity Cost	X				
Transmission Capacity Cost	X	X			
Distribution Capacity Cost	X	X			
Environmental Cost	X	X		\$0.0001	Minor Cost Impact
Voltage Control Cost	X				
Solar Integration Cost	X				
Avoided Fuel Hedging Uncertainty Cost			\$0.0590		N/A - GPA Does Not Hedge
Avoided Mandated RPS Cost			\$0.0310		GPA meeting RPS at Savings not Cost
<b>Total:</b>			<b>\$0.2704</b>	<b>\$0.1102</b>	<b>Variance Subsidized by Non-NEM Ratepayers</b>

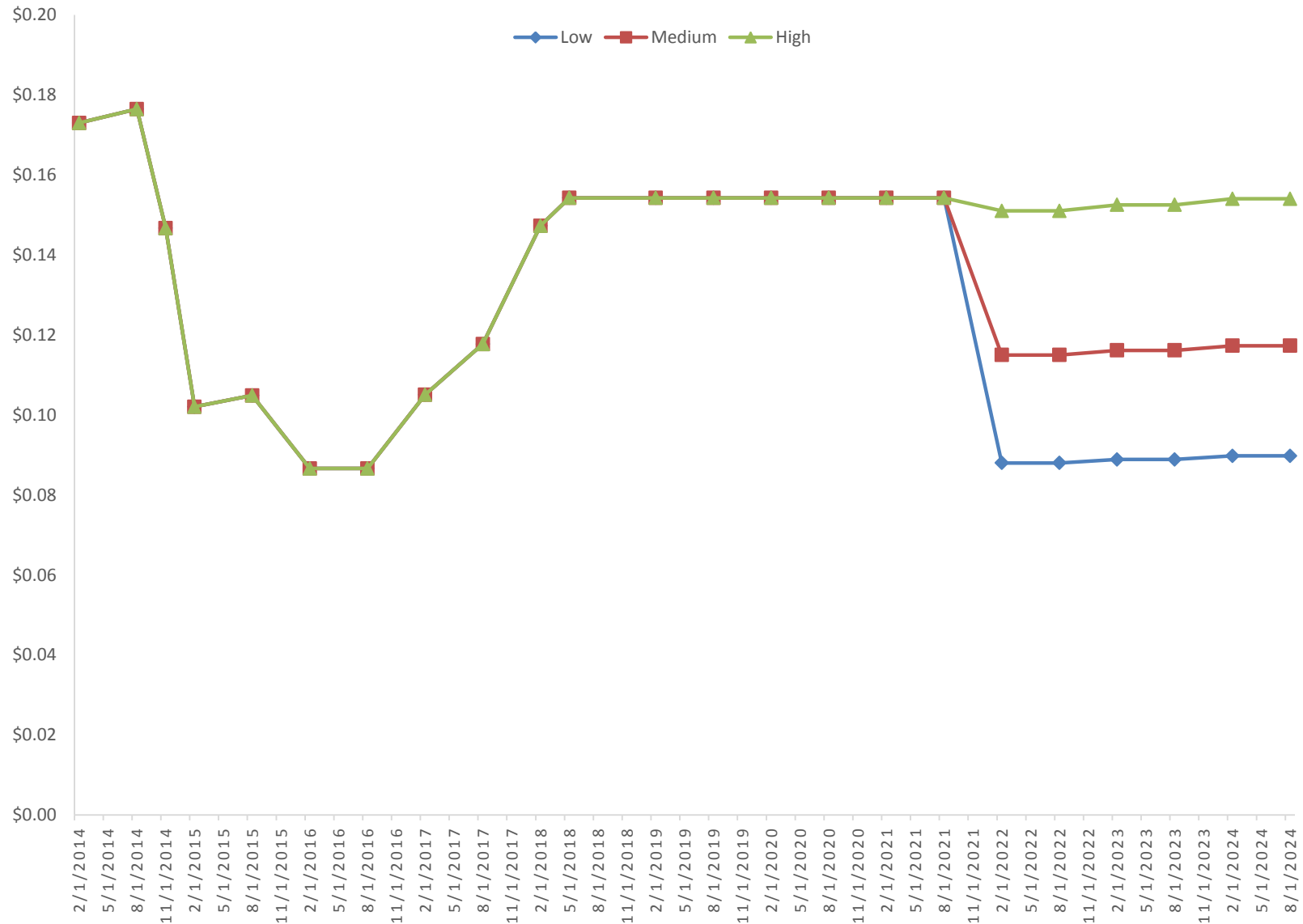
## Value of Solar Comparison

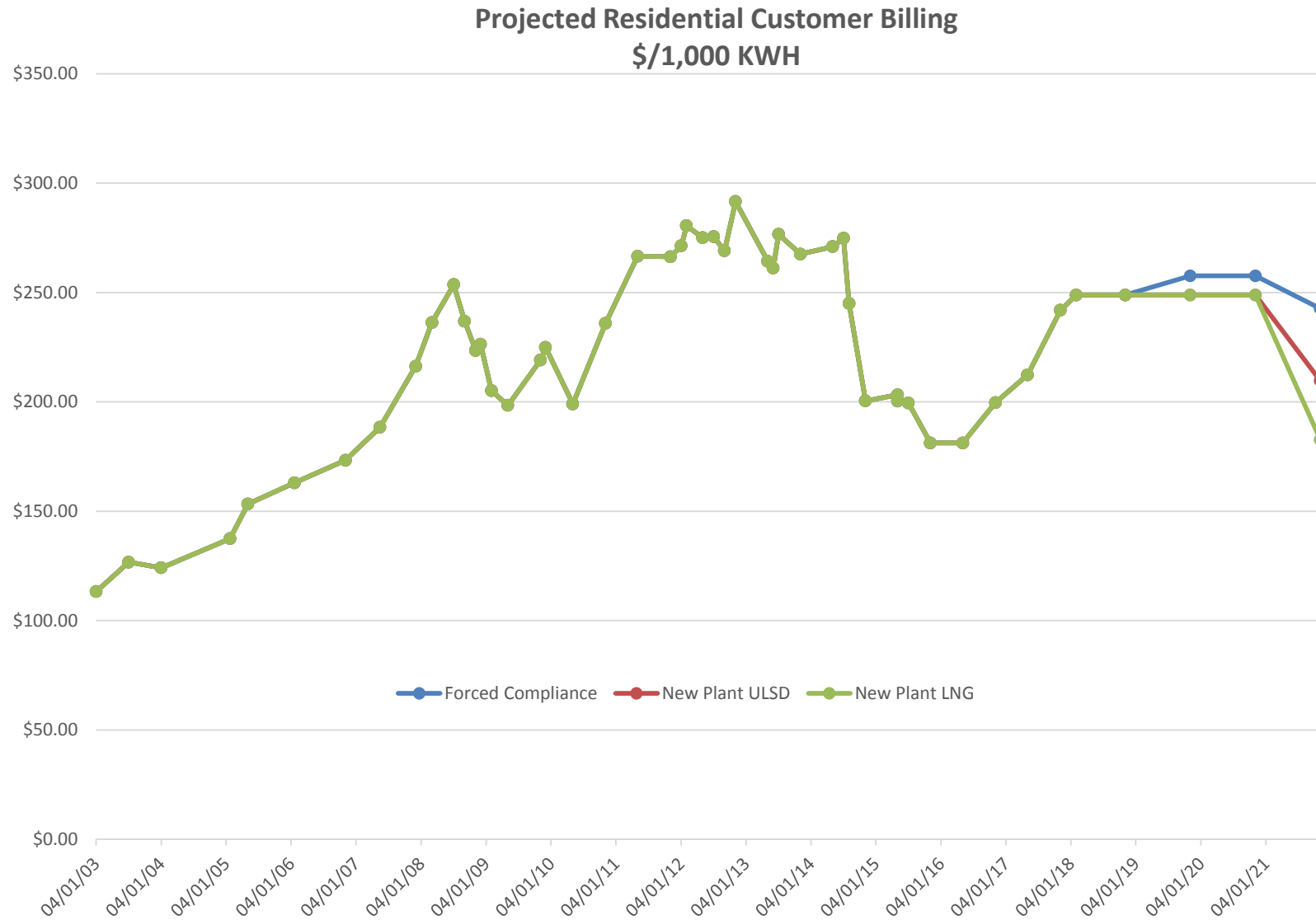
### Adjusted to GPA Actual Cost

Cost Category	Clean Power Research (MRE)	Revised CPR/MRE Based on Comments	GPA Avoided Cost FY 2017	Comments
Fuel Cost	\$0.1260	\$0.1029	\$0.1029	Adjusted based on LEAC for Similar FY 2017 Period
Energy Losses 4.6%	\$0.0054	\$0.0047	\$0.0047	In Agreement
Plant O&M-Variable			\$0.0018	GPA Determined Minor Cost Impact
Generation Capacity Cost	\$0.0490	\$0.0000	\$0.0000	No Capacity Avoided because does not Reduce Peak Demand
Environmental Cost			\$0.0001	GPA Determined Minor Cost Impact
Avoided Fuel Hedging Uncertainty Cost	\$0.0590	\$0.0000	\$0.0000	Not Applicable - GPA Does Not Hedge, Therefore No Cost
Avoided Mandated RPS Cost	\$0.0310	\$0.0000	\$0.0000	GPA meeting RPS at a Savings not a Cost
<b>Total:</b>	<b>\$0.2704</b>	<b>\$0.1076</b>	<b>\$0.1095</b>	



## LEAC RATE (\$/KWH) PROJECTION





# Net Metering Economics

## When Do Customer-Owned NEM Recover their Investment?

Value of Solar Payment Versus Simple Payback						
\$/Kwh Credit	\$0.10		\$0.12		\$0.27	
ITC Valid	2018-2019		2018-2019		2018-2019	
Solar PV All-In Cost (\$/W)	30.0% ITC		30.0% ITC		30.0% ITC	
	Simple Payback (years)	IRR (%)	Simple Payback (years)	IRR (%)	Simple Payback (years)	IRR (%)
1.00	6	18.8%	5	23.9%	2	53.0%
1.25	7	14.6%	6	18.8%	3	42.2%
1.50	8	11.6%	7	15.3%	3	35.0%
1.75	10	9.5%	8	12.7%	4	29.8%
2.00	11	7.8%	9	10.7%	4	25.9%
2.25	12	6.4%	10	9.1%	5	22.9%
<b>2.50</b>	<b>14</b>	<b>5.2%</b>	<b>11</b>	<b>7.8%</b>	<b>5</b>	<b>20.4%</b>
2.75	15	4.2%	12	6.6%	6	18.4%
3.00	17	3.4%	13	5.7%	6	16.7%
3.25	18	2.6%	14	4.8%	7	15.2%
3.50	20	1.9%	16	4.1%	7	13.9%
3.75	21	1.3%	17	3.4%	8	12.8%
<b>4.00</b>	<b>23</b>	<b>0.8%</b>	<b>18</b>	<b>2.8%</b>	<b>8</b>	<b>11.8%</b>
4.25	25	0.3%	19	2.2%	9	10.9%

# NEM Customer Owned Solar PV

At GPA Retail Rate Credit Recovers Investment in 5 to 8 Years

GPA Residential Retail Rate Credit:			
Average \$/W Installed	\$3.25/Watt	Annual Savings	Simple Payback Years
PV KW Capacity	7.69		
Annual Capacity Factor	20.0%		
Annual Kwh Production	13,473		
Average LEAC	\$0.147		
Average Base Rate	\$0.093		
<b>Total Average rate</b>	<b>\$0.240</b>		
Annual Energy Cost Avoided	\$3,233.49		
Installation Cost - No Tax Credit	\$24,993		<b>7.7</b>
15 Year Loan Annual Payment, 8%, 15 years	\$2,919	\$314.49	
With Tax Credit	\$17,495		<b>5.4</b>
15 Year Loan Annual Payment, 8%, 15 years	\$2,043	\$1,190.49	

# NEM Customer Owned Solar PV

At **GPA 2018 LEAC Rate Credit** Recovers Investment in 8 to 12 Years

<b>GPA 2018 LEAC Rate Credit:</b>			
<b>Average \$/W Installed</b>	<b>\$3.25/Watt</b>	<b>Annual Savings</b>	<b>Simple Payback Years</b>
PV KW Capacity	7.69		
Annual Capacity Factor	20.0%		
Annual Kwh Production	13,473		
Average LEAC	\$0.154		
Average Base Rate	\$0.000		
<b>Total Average rate</b>	<b>\$0.154</b>		
Annual Energy Cost Avoided	\$2,074.82		
Installation Cost - No Tax Credit	\$24,993		<b>12.0</b>
15 Year Loan Annual Payment, 8%, 15 years	\$2,919	-\$844.18	
With Tax Credit	\$17,495		<b>8.4</b>
15 Year Loan Annual Payment, 8%, 15 years	\$2,043	\$31.82	

# Summary

- Net Metering was established 13 years ago in 2004. Substantial Changes has occurred on GPA delivery cost and more changes expected by 2022.
- Customer Owned NEM System recovers its investment within 5 to 8 years from installation at GPA full Retail Rate Credit.
- Customer Owned NEM System recovers its investment within 8 to 12 years from installation at GPA LEAC Avoided Cost Rate Credit.
- It appears Zero Down Customers with 2.9% escalators will incur higher cost over the life of their 25 year contract. A \$0.18/KWH rate in 2018 becomes \$0.357/KWH in 2042.

# Additional Information on Net Metering

<b>Estimated Cost Impact to Non-Net Metering Ratepayers:</b>			
<b>NEM Credit above avoided cost</b>	<b>Estimated Kwh</b>	<b>Estimated Subsidy</b>	<b>\$/Kwh</b>
FY 2009	23,912	\$1,657	\$0.0693
FY 2010	98,830	\$8,483	\$0.0858
FY 2011	170,070	\$18,177	\$0.1069
FY 2012	494,672	\$58,546	\$0.1184
FY 2013	1,556,949	\$178,996	\$0.1150
FY 2014	3,137,212	\$410,559	\$0.1309
FY 2015	7,383,621	\$856,921	\$0.1161
FY 2016	21,867,383	\$2,200,795	\$0.1006
FY 2017	28,242,917	\$2,828,834	\$0.1002
<b>FY 2018</b>	<b>33,921,230</b>	<b>\$3,411,623</b>	<b>\$0.1006</b>
<b>Totals:</b>	<b>96,896,796</b>	<b>\$9,974,591</b>	
Net Metering Customers July 2018	1,733		
Total GPA Customers	51,515		
% NEM Customers	3.36%		
Non-NEM Customers	49,782		
% Non-NEM Customers	96.64%		



Jurisdiction	Years	Notes
Arkansas	20	
Neveda	20	
Utah	18	Until 2035
California	5	Residential, require application
	10	Other, require application
Arizona	20	Require application by June 12, 2018
Florida	20	March 31, 2018 final inspection, JEA
New Hampshire	22	Until 2040
Indiana	29	NEM customers prior to July 1, 2017 have until July 1, 2047
	14	NEM customers signing up prior to July 1, 2022 or their utility reaching a 1.5% peak summer load cap can continue net metering until July 1, 2032
Maine	15	Existing 2017 customers
Michigan	10	Limited to NEM that is already in the system
Hawaii (HECO, MECO, HELCO, Molakai, Lanai)	∞	NEM application was submitted to the utility postmarked 10/12/15 or earlier
Vermont	10	Net metering systems with a complete Certificate of Public Good application filed with the PSB prior to January 1, 2017 (as long as the application was filed at a time when the electric company was accepting net metering systems, based on the state's former aggregate capacity limit) are grandfathered

- Utilities and States Differ on Grandfathering NEM Customers
- Many Jurisdictions are Ending Net Metering

5

## Maine

- In early 2017, Maine became the fourth state to more appropriately compensate net metering. The Public Utilities Commission adopted a ramp-down policy, which gradually harmonizes the transmission and distribution charges for net metering customers, aligned with true avoided costs.
- The rules grandfather existing customers for 15 years.

Source: Tanton, Thomas. (April 2018 ) Net Metering in the States: Moving Toward Equitable and Sustainable Policies for Electric Customers. URL at <http://sglf.org/wp-content/uploads/sites/2/2018/04/SGLF-Net-Metering-In-the-States-by-Thomas-Tanton-April-2018.pdf> (August 17, 2018).

7

## Hawaii

- Marco Mangelsdor, president of installer ProVision Solar.
  - "... Hawaii's net energy metering (NEM) policy has "88% of the utility's ratepayers subsidizing the 12% who have net energy metered systems."
  - He believes utility's concern about that shift of costs for system maintenance is reasonable.
  - "The cost of NEM was \$38 million in 2013 and it is estimated at \$53 million in 2014. These are not trivial dollars."

11

## California

- One of the first studies to quantify the magnitude of the NEM subsidy was conducted by Energy+Environmental Economics (E3) for the California Public Utilities Commission (CPUC) in 2013.
- The E3 study estimated that NEM would result in a cost shift of \$1.1 billion annually by 2020 from NEM to non-NEM customers if current NEM policies were not reformed in California.
- A cost shift of this magnitude—paid for by non-NEM customers—was unacceptable to California regulators.
- As a result, California regulators set to work to reform rates in their state; many other states followed suit and conducted similar investigations of the magnitude of the NEM subsidy.

12

## Nevada

- Recently, Arizona Public Service (APS), the state's largest utility, found that solar customers avoid on average around \$1,000 annually in costs for operating the electric grid, costing the average power user, who must make up the cost, a \$16.80 premium per year.

13

## Louisiana

- Overall, the state found that its net metering structure resulted in an \$89 million negative net benefits to electricity rate payers, meaning the net metering program costs are greater than program benefits, and that over \$2 million of utility costs per year were being subsidized by non-solar consumers.

14

**See attached Article of May 18, 2018 by Institute for Energy Research (IER)**

**Subsidies uncheck will continue to impact Non-Net Metering substantially:  
Guam is at 3.36%; Hawaii is at 12 % NEM;**

<b>Description:</b>	<b>Jul-18</b>	<b>Future</b>	<b>Future</b>	<b>Future</b>
% of All Customers	3.36%	5.00%	10.00%	15.00%
NEM Customers	1,733	2,576	5,152	7,727
Energy Produced	33,921,230	50,416,970	100,833,939	151,250,909
Annual Subsidy	\$3,411,623	\$5,071,652	\$10,143,304	\$15,214,955
Non-Nem Customers	49,782	48,939	46,364	43,788
<b>Cost to each Non-NEM</b>	<b>\$68.53</b>	<b>\$103.63</b>	<b>\$218.78</b>	<b>\$347.47</b>



## Recommendation

1. CCU approve GPA filing a petition to the PUC as shown herein to consider changes to the existing net metering credit
2. Recommend an implementation plan for billing NEM customers on net billing: Buy All/Sell All or similar billing models
3. GPA files with GPUC for adjustment of net metering credits from retail to avoided cost
4. It is recommended that for existing NEM Customers, implement a Grandfather phase-in approach over 5 to 8 years to the GPA avoided cost credit. Adjustments for LEAC, line loss and variable cost changes done annually.
5. For future NEM customers, credit set at the GPA avoided cost

## GPA Resolution No. 2018-18

### RELATIVE TO THE APPROVAL OF ORGANIZATIONAL REALIGNMENT - CREATION OF THE ADVANCED METER INFRASTRUCTURE (AMI) TECHNICIAN SERIES POSITIONS

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

The installation and utilization of GPA's advanced meter infrastructure (AMI) beginning in 2011, including smart meters, significantly changed the Authority's processes and structure. Current employees holding Meter Reader and Customer Service Electrician series positions are performing AMI or other work generally unrelated to their position titles. The Authority seeks to create new positions, abolish unnecessary positions, and eliminate overlap of similar functions in order to gain efficiencies and reflect its current processes and structure.

**Where is it at?**

The AMI Technician series will be initially utilized by Customer Service, PSCC, and Meter Shop but may be used by other divisions. The Meter Reader and Customer Service Electrician series recommended for abolishment are under the Customer Service division organizational structure.

**How much will it cost?**

The reorganization is not expected to exceed the current budget.

**When will it be completed?**

No later than October 28, 2018

**What is its funding source?**

Revenue funds.

The RFP/BID responses: Not applicable



# **ORGANIZATIONAL REALIGNMENT**

## **Creation of the AMI Technician Series Positions**

August 23, 2018

# Summary

- Installation of smart meters and accessories (beginning 2011) significantly changed GPA's processes & structure
- GPA commissioned an analysis of then-current processes and the anticipated changes
- Several recommendations were instituted, including changes to some business processes and organizational structure
- Other changes were instituted, yet not formalized
- Meter Readers & Customer Service Electrician perform the following duties:
  - Monitor smart meters, generate reports and work orders using AMI tools
  - Provide AMI technical assistance
  - Assist Customer Service Representatives
- Meter Shop absorbed the following duties:
  - Manual meter readings
    - 27 opt-out customers *as of July 2018*
  - Manual reconnections & disconnections
  - Meter & streetlight investigations

# Outstanding Actions

- Reflect the current processes & structure
- Create new positions
- Eliminate overlap of similar functions
- Abolish unnecessary positions

LIST OF POSITIONS TO BE ABOLISHED	LIST OF POSITIONS TO BE CREATED
Electric Meter Reader I	AMI Technician
Electric Meter Reader II	AMI Technician Leader
Electric Meter Reader Leader	
Electric Meter Reader Supervisor	
Customer Service Electrician I	
Customer Service Electrician II	
Customer Service Electrician Leader	
Customer Service Electrician Supervisor	

## Proposed Creation of Positions:

### AMI Technician:

Responsible for assisting with and supporting the day-to-day monitoring, analysis and control of the Command Center for the Advanced Metering Infrastructure (AMI) operations and Radio Frequency (RF) networking.

### AMI Technician Leader:

Leads and supports the day-to-day monitoring, analysis and control of the Command Center for the Advanced Metering Infrastructure (AMI) operations and Radio Frequency (RF) networking.

RECRUITMENT EFFORTS	Customer Service	Internal Audit	PSCC	Meter Shop
AMI Technician	3		3	2
AMI Technician Leader	1			
Meter Electrician I				
Meter Electrician II				5
Revenue Protection Utility Investigator		1		
Customer Service Representative	4			

AFFECTED POSITIONS	# Employees
Electric Meter Reader I	-
Electric Meter Reader II	1
Electric Meter Reader Leader	1
Electric Meter Reader Supervisor	-
Customer Service Electrician I	3
Customer Service Electrician II	1
Customer Service Electrician Leader	1
Customer Service Electrician Supervisor	1

In-house Job Announcements:

05/18/18 to 05/31/18

- Meter Electrician I
- Meter Electrician II
- Revenue Protection Utility Investigator
- Customer Service Representative

Upcoming

- AMI Technician
- AMI Leader



Benchmark Position	JE	15th Market Percentile (2017 Market Data - 5 sub steps)							
		Structural Adjustment - MIN				Structural Adjustment - MAX			
		Base Salary	Grade	Step	Sub Step	Base Salary	Grade	Step	Sub Step
Electric Meter Reader I	319	26,904	C	3	C	27,997	C	4	C
Electric Meter Reader II	406	31,164	E	4	D	32,429	E	5	D
Electric Meter Reader Leader	553	39,323	H	5	C	40,920	H	6	C
Electric Meter Reader Supervisor	734	49,327	J	5	C	51,330	J	6	C
Customer Service Electrician I	439	33,649	G	3	D	35,015	G	4	D
Customer Service Electrician II	527	41,079	I	3	D	42,747	I	4	D
Customer Service Electrician Leader	660	47,877	J	4	D	49,821	J	5	D
Customer Service Electrician Supervisor	851	62,731	K	6	D	65,278	K	7	D
AMI Technician	414	32,706	F	4	C	34,034	F	5	C
AMI Technician Leader	640	46,933	J	4	B	48,839	J	5	B
Meter Electrician I	478	34,669	G	4	C	36,076	G	5	C
Meter Electrician II	569	42,324	I	4	C	44,042	I	5	C
Revenue Protection Utility Investigator	794	59,686	K	5	C	62,109	K	6	C
Customer Service Representative	461	34,669	G	4	C	36,076	G	5	C



TIMELINE	CREATION	ABOLISHMENT
	AMI Technician AMI Technician Leader	Electric Meter Reader series Customer Service Electrician series
Date of Posting:	8/10/18	
10-Day Timeline:	8/23/18	
GPA CCU Meeting:	8/28/18	
Approval:	8/28/18	
Job Announcement:	8/29/18	
Employee Notice:	--	8/29/18
File with DOA:	8/29/18	
File with Legislative Secretary:	8/29/18	
Effective Date:	9/29/18	10/28/18

# GM REPORT



**TO:** Consolidated Commission on Utilities

**FROM:** General Manager

**DATE:** August 23, 2018

**SUBJECT:** General Manager's Report

**This report provides an update on key issues:**

- 1. Generation System:** The following summarizes the expected generation capacity projection for **August 2018**. All base load units are expected to be in operation for the month. The Cabras steam units are currently limited to 55 MW each to minimize the potential for boiler tube leaks which is a common occurrence for them.

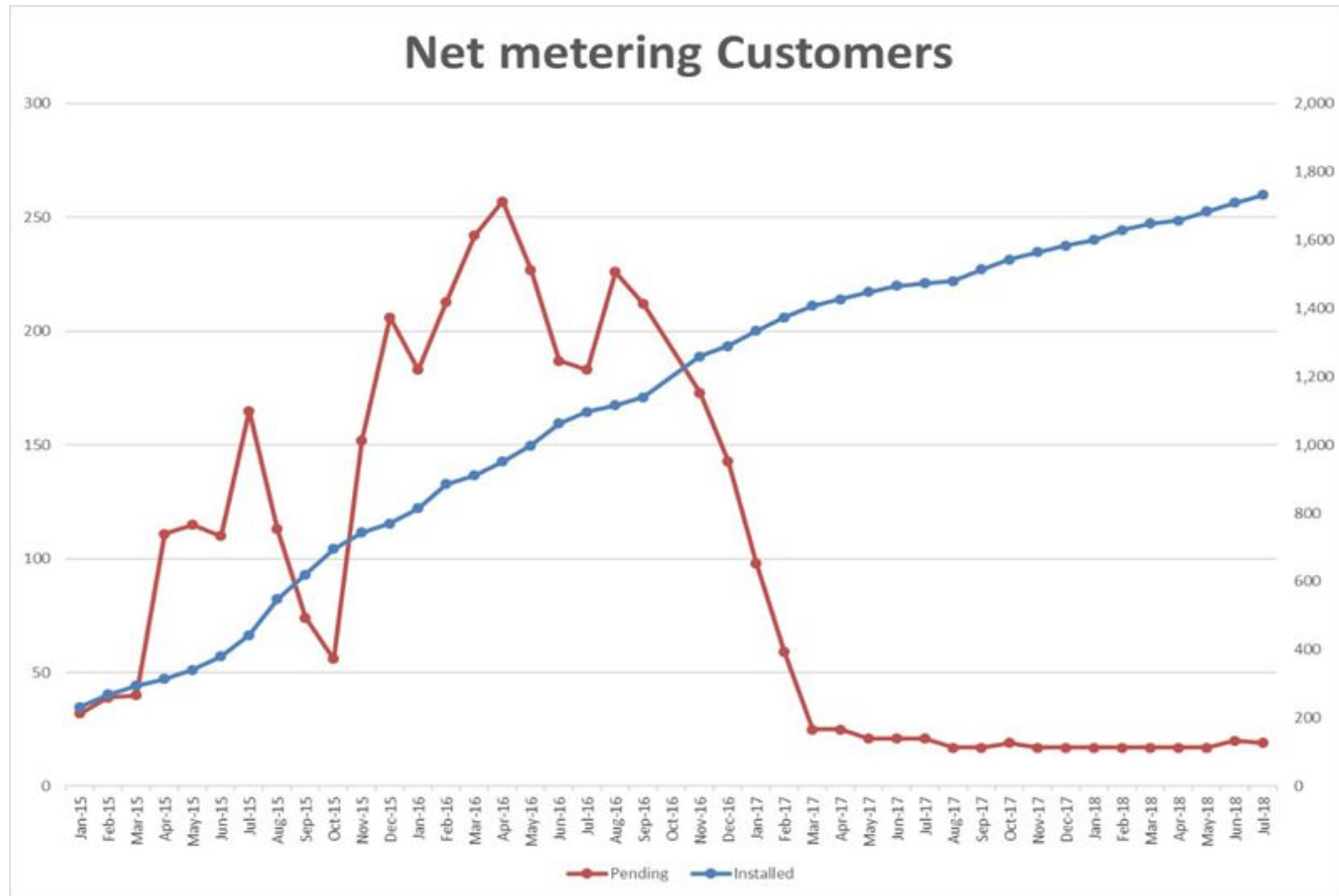
<b>August 2018 Projected Capacity:</b>	<b>360 MW</b>
<b>August 2018 Projected Demand:</b>	<b>250 MW</b>
<b>Anticipated Reserve Margin:</b>	<b>110 MW</b>

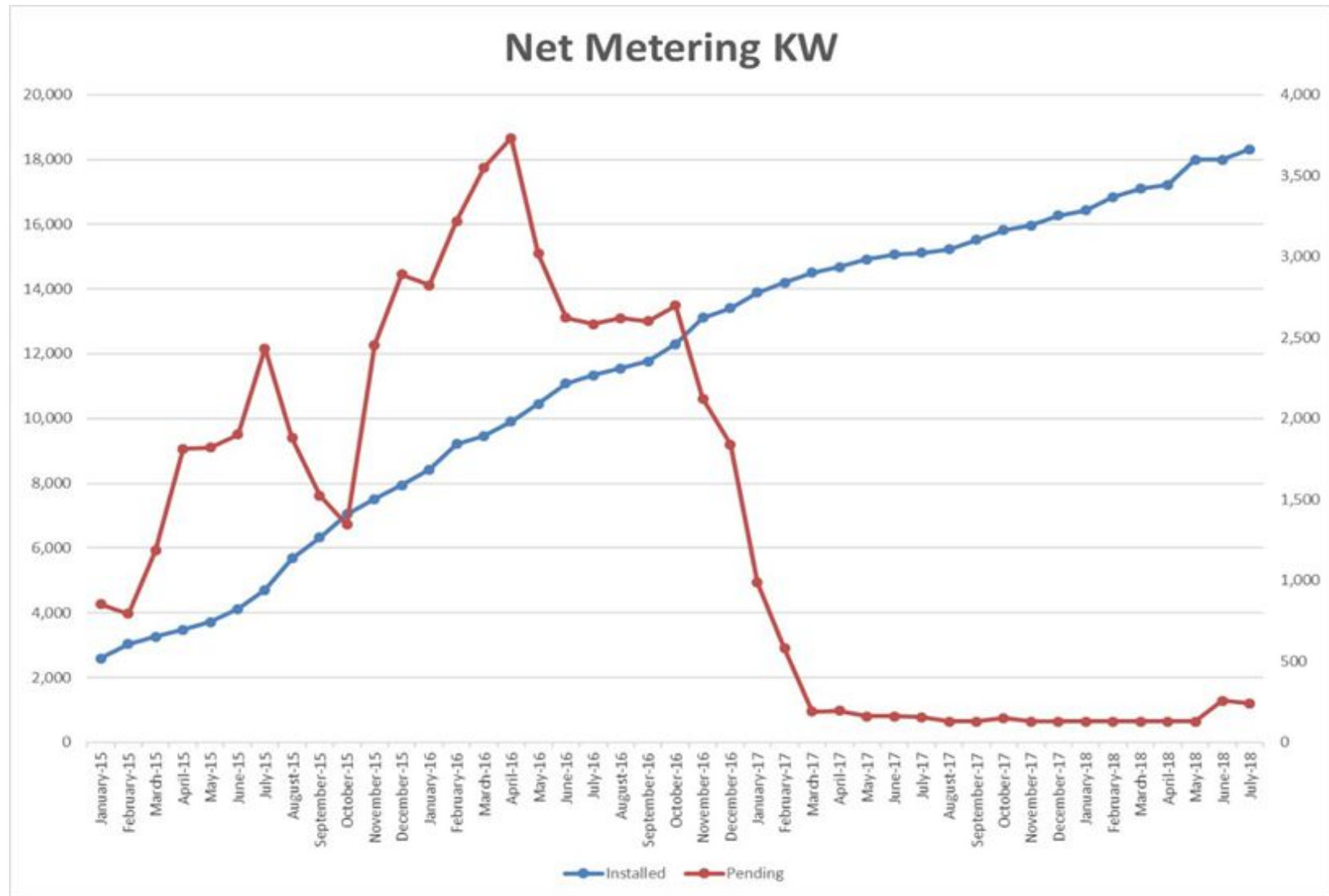


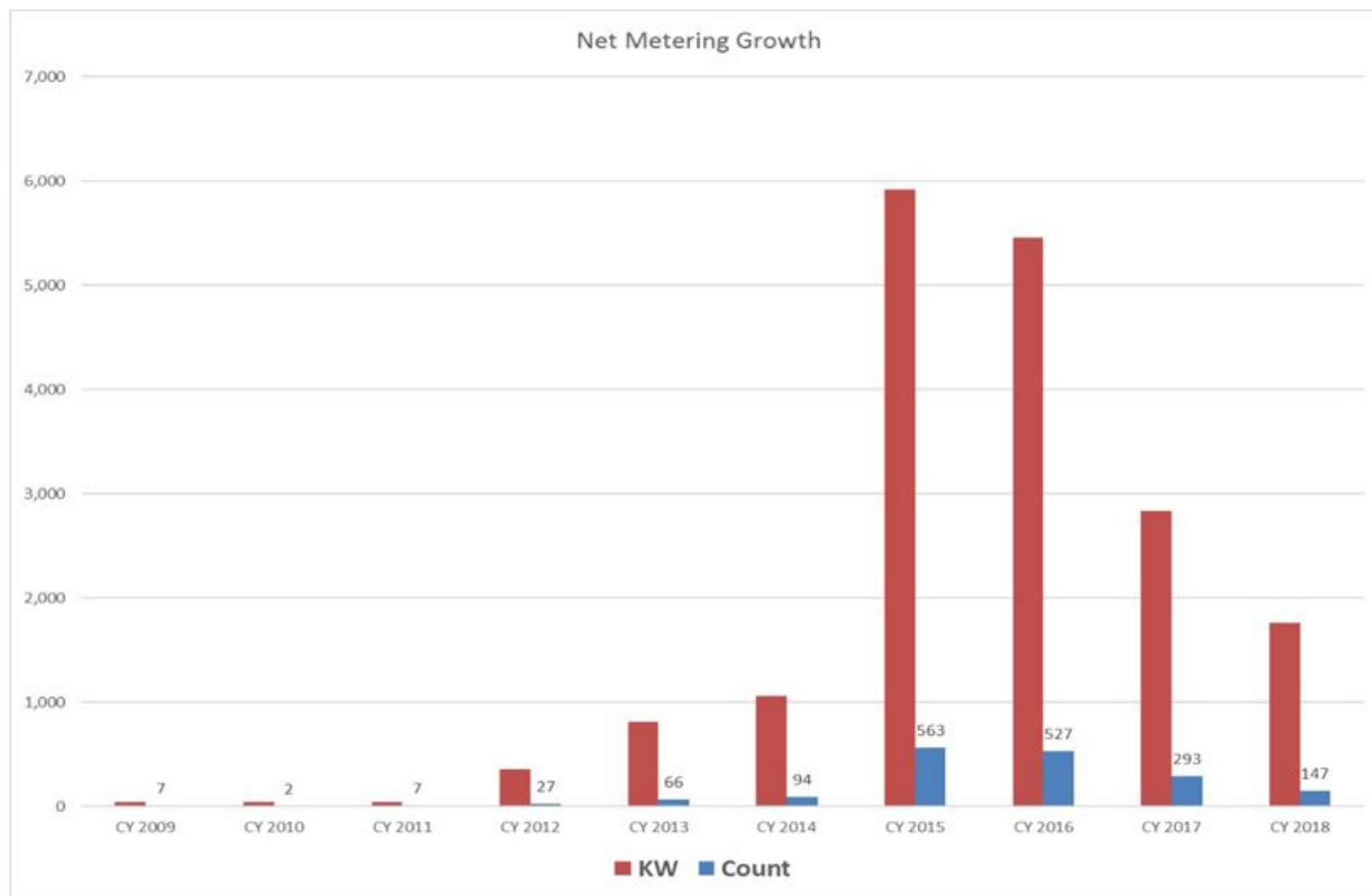
## 2. Net metering Summary Ending July 2018:

Description:	Count	Kw
Active	1,733	18,315
Pending	19	241
Totals:	1,752	18,556

Service:	Count	KW	Kw/Customer
Residential	1,642	15,049	9.2
Others	91	3,266	35.9
Total:	1,733	18,315	10.6
% Residential	94.7%	82.2%	
Estimated 12 Months Revenue Impact:	\$3,411,623		





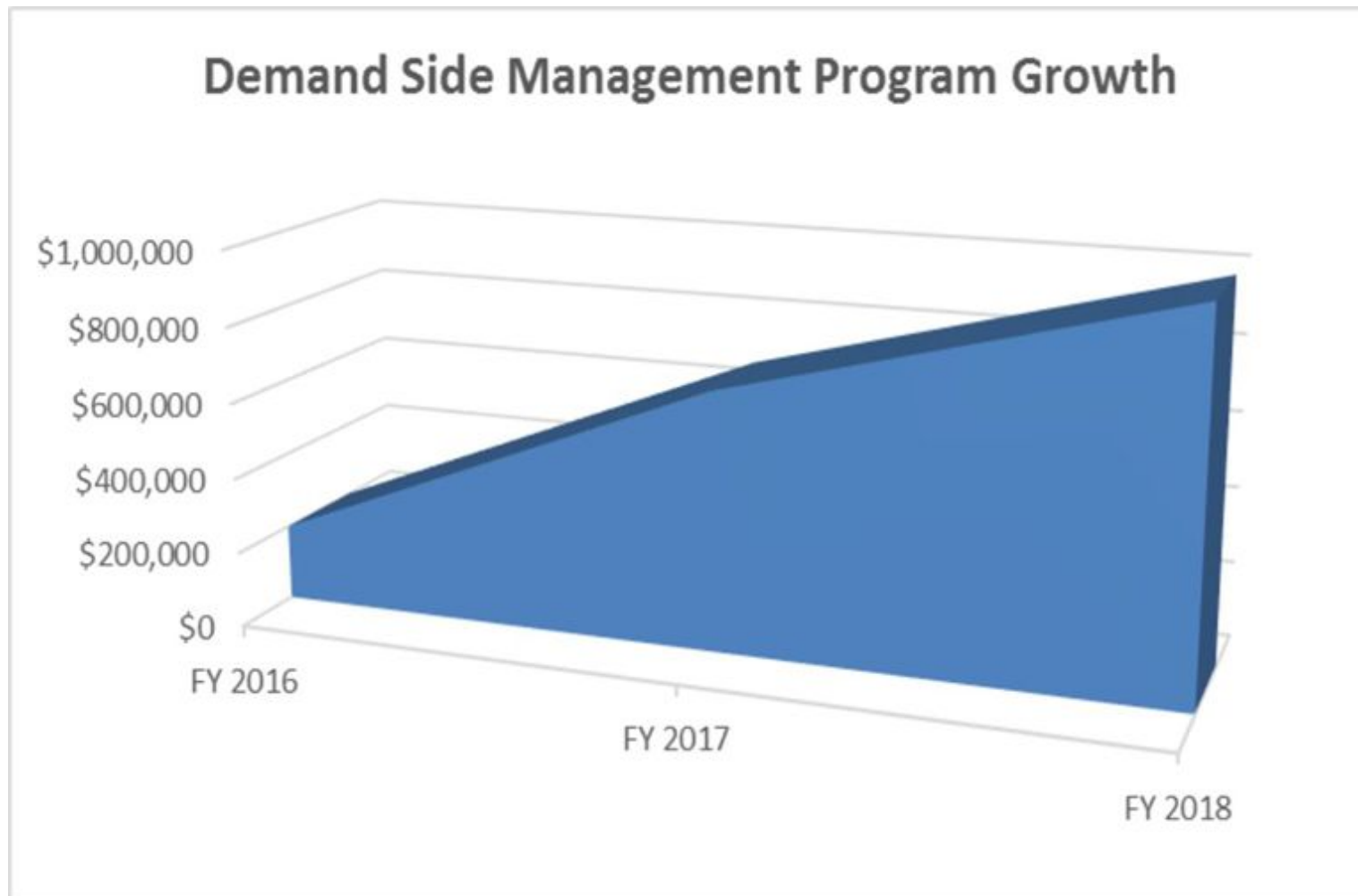


**Demand Side Management (DSM) Program Expenses Thru July 2018:**

# All Expenses – Fiscal Year

Description	FY16	FY17	FY18 as of July 31	Total to Date
Regular/OT Pay	\$11,348.80	\$22,256.00	\$19,027.79	\$52,632.59
Other Contractual	28,278.50	\$85,550.05	\$38,992.25	\$152,820.80
Bank Fees	\$155.00	\$1,032.06	\$1,055.08	\$2,242.14
Paid Rebates– Split AC	\$154,700.00	\$557,275.00	\$911,750.00	\$1,623,725.00
Paid Rebates– Central AC	\$3,400.00	\$8,200.00	\$2,300.00	\$13,900.00
Paid Rebates– Washer/Dryer	\$2,800.00	\$7,425.00	\$23,000.00	\$33,225.00
<b>Total Expenses</b>	<b>\$200,682.30</b>	<b>\$681,738.11</b>	<b>\$996,125.12</b>	<b>\$1,878,545.53</b>





# SUMMARY

DESCRIPTION	AMOUNT
Initial DSM Budget FY'16	\$1,806,014.00
Interest Income as of July 18	\$4,367.24
<b>Total Expense</b>	<b>\$1,878,545.53</b>
Ending Balance as of July 18	\$(68,164.29)
Addtl. Budget: Approved (FY'18)	\$1,139,189.00
<b>Total Ending Balance as of July 18</b>	<b>\$1,071,024.71</b>

**4. New Power Plant Specifications:** GPA has submitted the bid specifications for the new power plant to PUC for approval. ALJ Horecky has placed the item on the agenda for the August 30, 2018 regular PUC meeting.

**5. Phase II Renewable Contracts:**

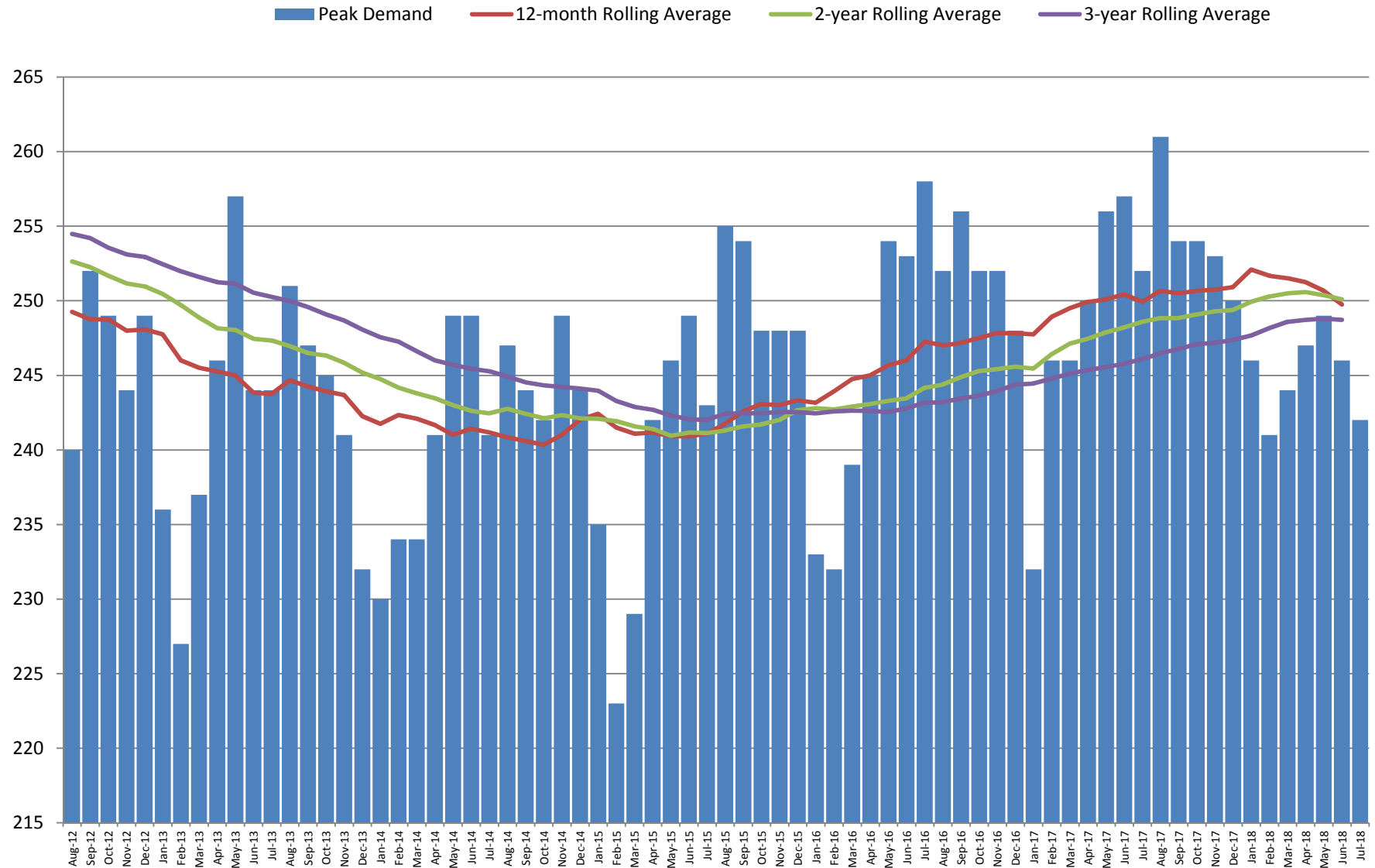
- **Contract signing for HANWAH 60 MW Renewable project is scheduled for Wednesday August 22<sup>nd</sup> at 10am here at Fadian.**
- **Contract Signing for KEPCO- LG CNS 60 MW Renewable project is scheduled for Friday August 24<sup>th</sup> here at Fadian**
- **These two contracts when completed in 2021 will save the ratepayers over \$43M over the first 5 years of operations (estimated at a LEAC of \$0.11/Kwh)**

**6. Key Performance Indicators:** The following are indicators thru July 2018.

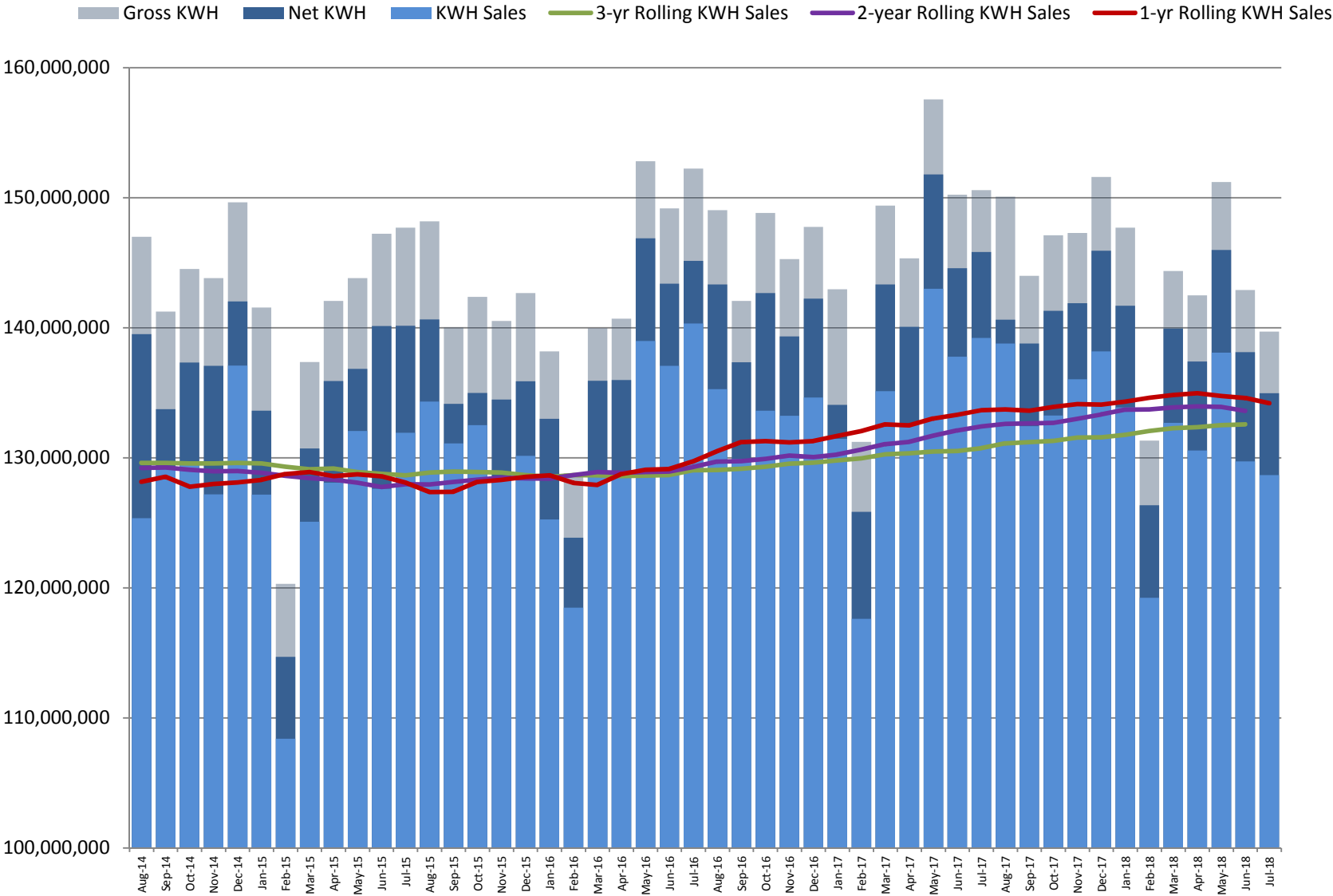
**Key Performance Indicators:** The following are updated indicators thru July 2018.



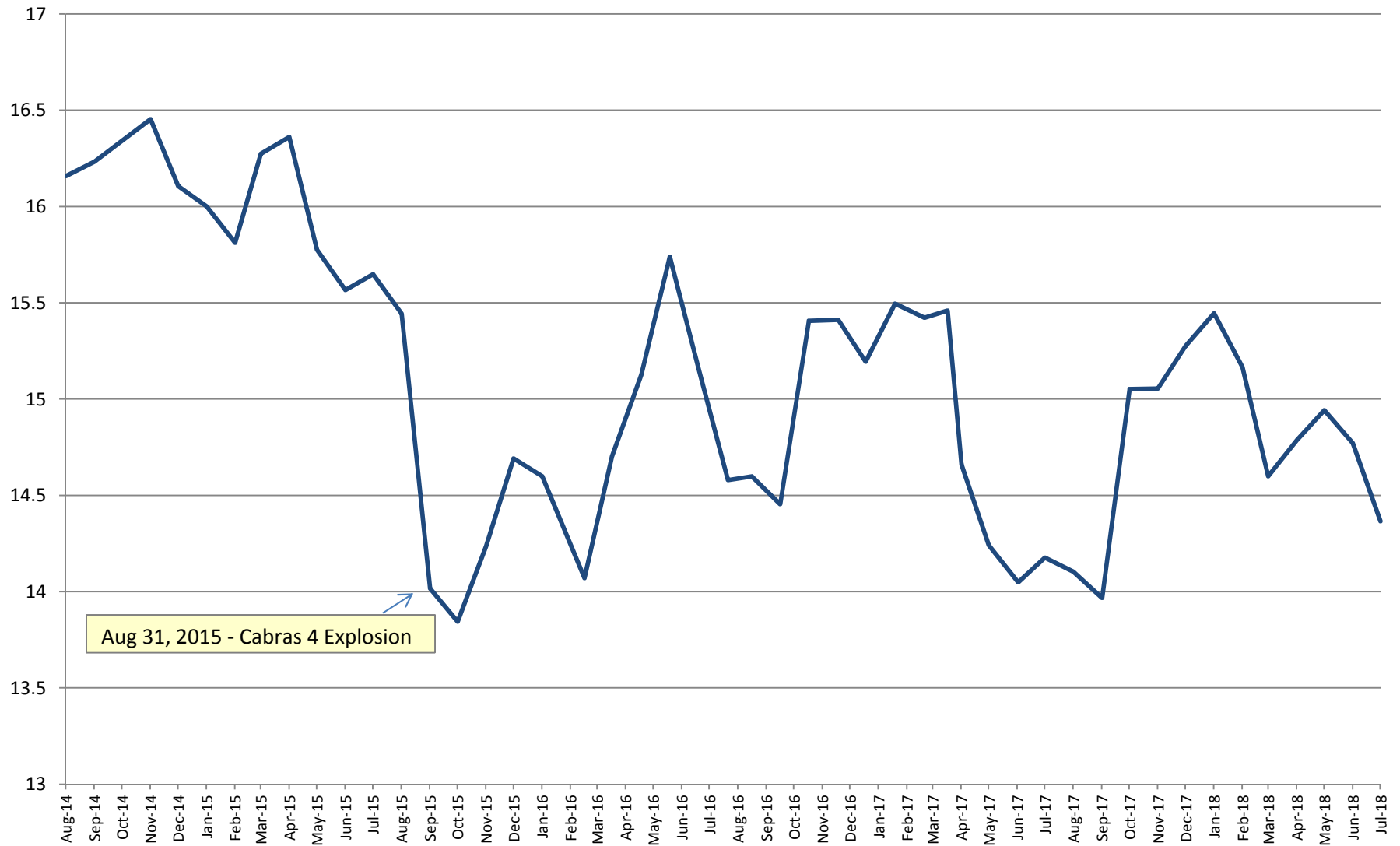
## Historical Monthly Peak Demand Aug 2012 - July 2018



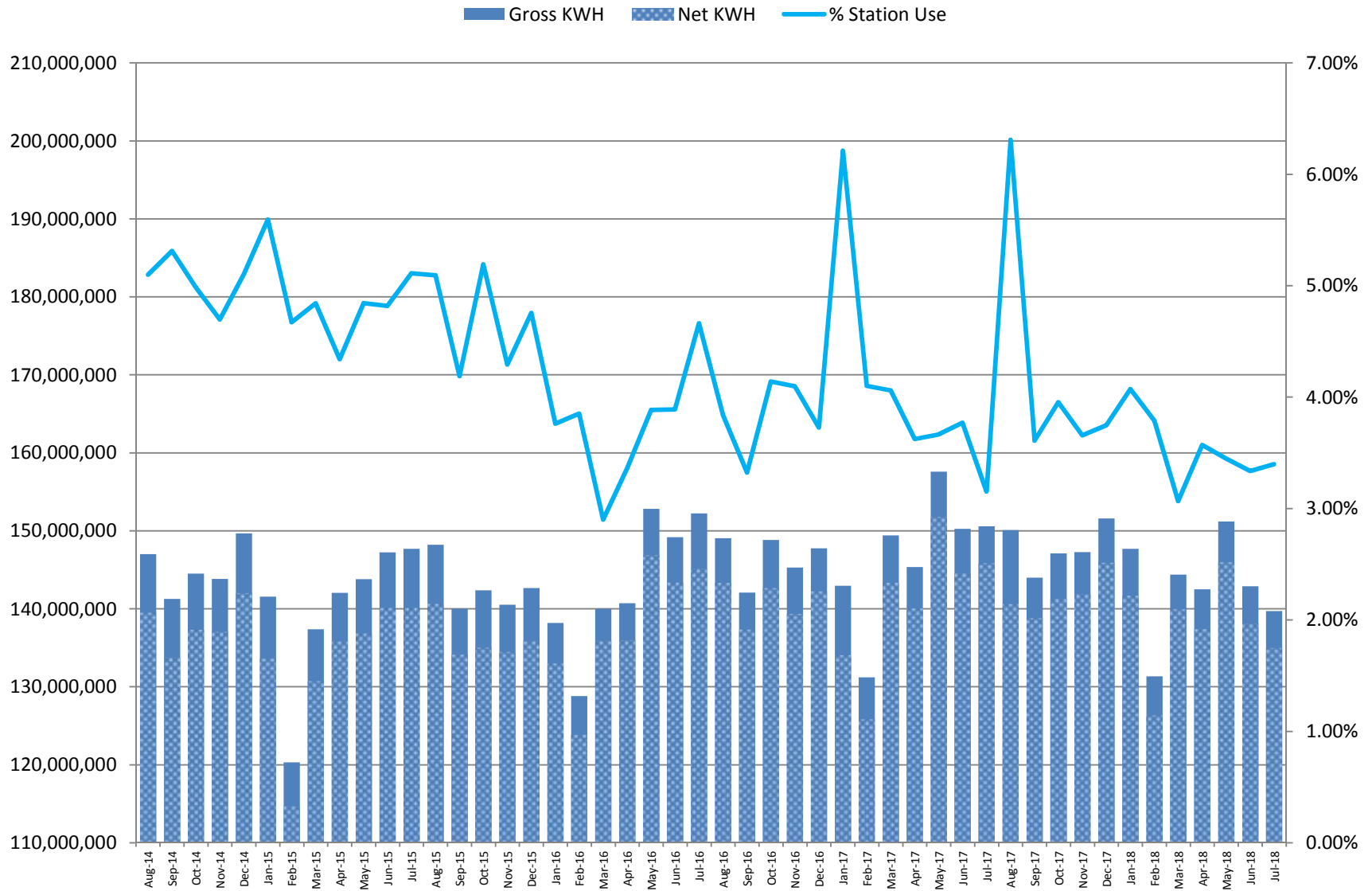
# Historical KWH Sales Aug 2014 - July 2018



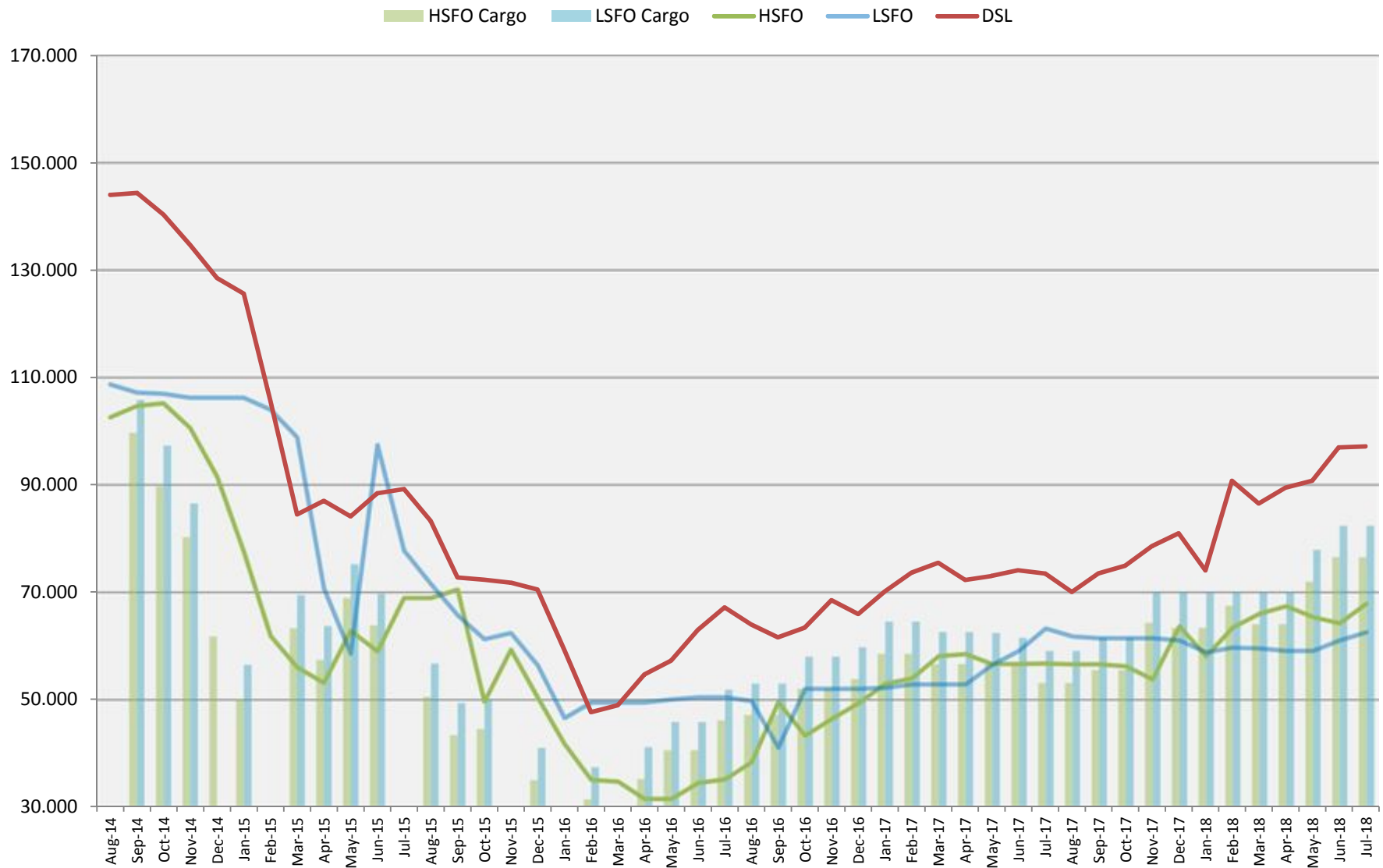
## SYSTEM GROSS HEAT RATE (KWH/Gal) Aug 2014 - July 2018



## Gross and Net Generation (KWH) Aug 2014 - July 2018



## Fuel Cargo and Fuel Consumption Costs (\$/bbl) Aug 2014 - Jul 2018





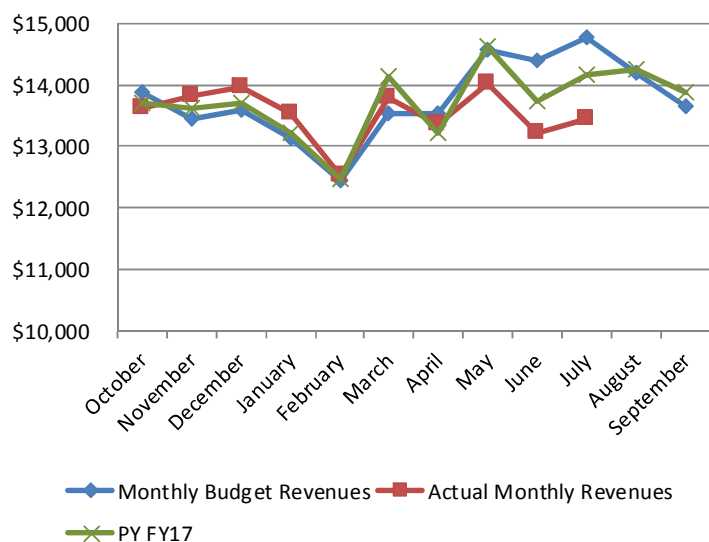
# FINANCIAL HIGHLIGHTS

## July 2018



# July 2018 Monthly Financial Highlight

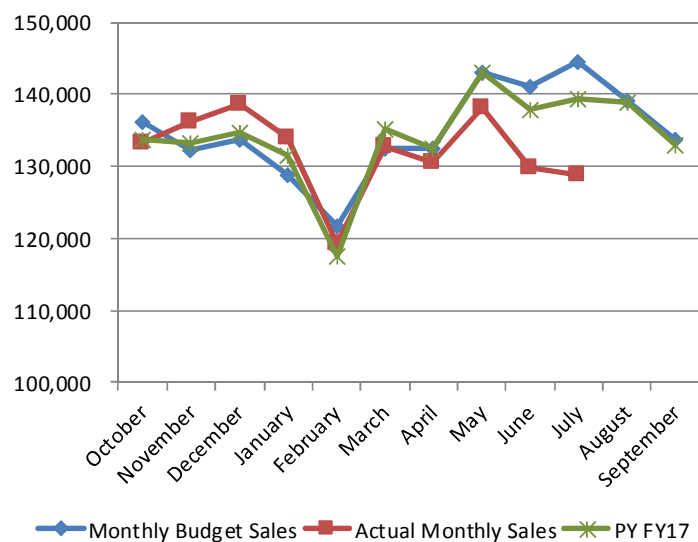
Base Rate Revenue \$000



Through July 31, 2018

	Monthly Budget Revenues \$000	Actual Monthly Revenues	Variance		PY FY17	CY vs PY Variance	
October	\$ 13,873	\$ 13,625	\$ (248)	↓	\$ 13,702	\$ (77)	↓
November	13,451	13,827	\$ 376	↑	13,622	\$ 205	↑
December	13,599	13,968	\$ 369	↑	13,695	\$ 273	↑
January	13,114	13,534	\$ 420	↑	13,220	\$ 314	↑
February	12,422	12,522	\$ 100	↑	12,454	\$ 68	↑
March	13,534	13,776	\$ 242	↑	14,123	\$ (347)	↓
April	13,525	13,351	\$ (174)	↓	13,224	\$ 127	↑
May	14,568	14,011	\$ (557)	↓	14,617	\$ (606)	↓
June	14,386	13,201	\$ (1,185)	↓	13,722	\$ (521)	↓
July	14,759	13,446	\$ (1,313)	↓	14,151	\$ (705)	↓
August	14,183				14,244		
September	13,651				13,874		
<b>Total</b>	<b>\$ 165,064</b>	<b>\$ 135,261</b>	<b>\$ (1,969)</b>		<b>\$ 164,649</b>	<b>\$ (1,269)</b>	

MWh Sales



Through July 31, 2018

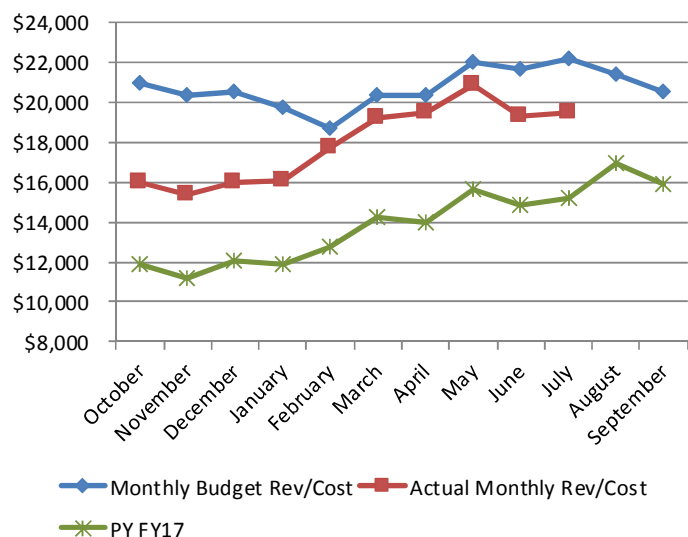
	Monthly Budget Sales gwh	Actual Monthly Sales	Variance		PY FY17	CY vs PY Variance	
October	136,219	133,262	(2,957)	↓	133,620	(358)	↓
November	132,132	136,044	3,912	↑	133,235	2,809	↑
December	133,625	138,587	4,962	↑	134,634	3,953	↑
January	128,711	133,882	5,170	↑	131,461	2,421	↑
February	121,668	119,241	(2,426)	↓	117,617	1,624	↑
March	132,587	132,693	106	↑	135,131	(2,438)	↓
April	132,532	130,565	(1,967)	↓	132,587	(2,022)	↓
May	142,956	138,085	(4,871)	↓	143,013	(4,928)	↓
June	141,064	129,728	(11,336)	↓	137,777	(8,049)	↓
July	144,404	128,681	(15,723)	↓	139,227	(10,546)	↓
August	139,093				138,797		
September	133,658				132,993		
<b>Total</b>	<b>1,618,650</b>	<b>1,320,769</b>	<b>(25,129)</b>		<b>1,610,093</b>	<b>(17,534)</b>	



# July 2018 Monthly Financial Highlight (Continued)

18

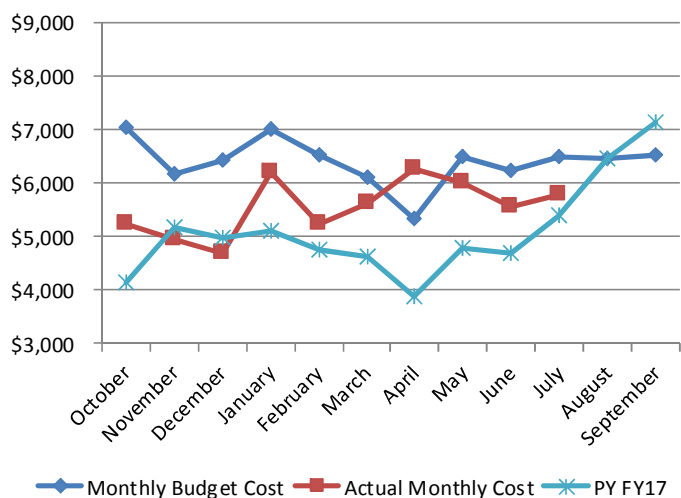
Fuel Revenue/ Cost \$000



Through July 31, 2018

	Monthly Budget Rev/Cost \$000	Actual Monthly Rev/Cost	Variance		PY FY17	CY vs PY Variance	
October	\$ 20,928	\$ 15,936	\$ (4,992)	↓	\$ 11,894	\$ 4,042	↑
November	20,300	15,400	\$ (4,899)	↓	11,215	\$ 4,185	↑
December	20,529	16,007	\$ (4,522)	↓	12,036	\$ 3,971	↑
January	19,774	16,036	\$ (3,738)	↓	11,867	\$ 4,169	↑
February	18,692	17,763	\$ (930)	↓	12,751	\$ 5,012	↑
March	20,370	19,180	\$ (1,190)	↓	14,248	\$ 4,932	↑
April	20,361	19,441	(920)	↓	13,940	5,500	↑
May	21,963	20,854	(1,109)	↓	15,596	5,258	↑
June	21,672	19,252	(2,420)	↓	14,859	4,393	↑
July	22,185	19,457	(2,728)	↓	15,175	4,282	↑
August	21,369				16,947		
September	20,534				15,895		
<b>Total</b>	<b>\$ 248,677</b>	<b>\$ 179,326</b>	<b>\$(27,448)</b>		<b>\$ 166,425</b>	<b>\$ 45,744</b>	

O&amp;M Cost \$000



Through July 31, 2018

	Monthly Budget Cost \$000	Actual Monthly Cost	Variance		PY FY17	CY vs PY Variance	
October	\$ 7,040	5,239	1,801	↑	4,135	(1,103)	↓
November	6,182	4,941	1,240	↑	5,158	217	↑
December	6,428	4,694	1,735	↑	4,966	273	↑
January	7,001	6,204	797	↑	5,092	(1,112)	↓
February	6,522	5,252	1,270	↑	4,748	(504)	↓
March	6,091	5,638	453	↑	4,612	(1,026)	↓
April	5,320	6,269	(949)	↓	3,892	(2,378)	↓
May	6,495	6,005	491	↑	4,772	(1,233)	↓
June	6,221	5,558	662	↑	4,702	(856)	↓
July	6,508	5,797	711	↑	5,385	(412)	↓
August	6,462				6,445		
September	6,526				7,138		
<b>Total</b>	<b>\$ 76,796</b>	<b>\$ 55,597</b>	<b>\$ 8,211</b>		<b>\$ 61,045</b>	<b>\$ (8,134)</b>	



# July 2018 Monthly Financial Highlight (Continued)

19

Through July 31, 2018						
	3Q2017	4Q2017	1Q2018	2Q2018	3Q2018	4Q2018
Residential	43,902	43,991	43,898	44,065	44,074	44,003
Commercial	5,252	5,226	5,231	5,262	5,278	5,286
Government	1,071	1,073	1,076	1,086	1,092	1,088
Streetlights	824	823	908	1,005	1,091	1,143
Navy	1	1	1	1	1	1
Total	51,050	51,114	51,114	51,419	51,536	51,521

	2013	2014	2015	2016	2017	YTD July 2018
<b>Debt service coverage (DSC) calculation-indenture</b>						
Senior lien coverage	3.36	3.16	3.62	3.28	2.65	2.68
Aggregate debt service coverage	1.88	1.98	2.62	3.28	2.65	2.68
<b>Debt service coverage (DSC) calculation-IPP as O&amp;M</b>						
Senior lien coverage	2.16	2.55	2.56	2.45	1.79	1.80
Aggregate debt service coverage	1.21	1.41	1.85	2.45	1.79	1.80

- Under recovery of LEAC - \$8.4 million



**CUSTOMER SERVICE DIVISION - July 2018****SUMMARY REPORT**

SITE	Less than 10 Mins.	%	10-15 Mins.	%	15-30 Mins.	%	30-45 Mins.	%	TOTAL	Location %
GBN	1,800	76%	418	18%	114	5%	27	1%	2,359	25%
HAGATNA	2,700	77%	455	13%	245	7%	85	3%	3,485	36%
UPPER TUMON	2,763	74%	584	16%	282	8%	87	2%	3,716	39%
TOTAL:	7,263	76%	1,457	15%	641	7%	199	2%	9,560	100%

**Government Accounts Receivable:** CSD reports invoices for the month of June 2018, for 71 active government accounts with an overall total of \$4,915,895.26. 67 accounts were current (94%), 4 accounts arrears (6%). 6 fax/emails issued to government accounts totaling \$1,485,496.34. June 2018 invoices, 65 accounts paid in full.

**CREDIT AND COLLECTION**

**Delinquent Ratio:** As of July 2018 the authority reported a total 48,251 active customers. The "Delinquent Ratio" was recorded at 5.93% with 2,871 total delinquent accounts, total arrears of 1,955,102.18; 1,447,335.45; 2,851 (5.89% / 28-45 days) category; 234,664.87; 178 (0.37% / 46-60 days); 36,372.97; 32 (0.07% 61-90 days); and 236,728.89; 54 (0.11% / Over 90 days).

**Bankruptcy:** During July 2018 the Bankruptcy reports one (1) customer accounts filed, totaling \$679.83 Chapter 13.

**Damage Claim:** No Damage claims reported for the month of July 2018.

**ACTIVE DELINQUENT - NON PAYMENT****COMMAND CENTER /DISCONNECTIONS/RECONNECTIONS**

**Single Phase Meters:** Credit and Collection issued orders to Command Center to perform remote disconnect/reconnect for a total of 1,423 customers; 1,049(74%) were disconnected; 365(26%) deferred; 9(0%) incompletes.

**3 Phase Meters:** Credit and Collection issued orders to Disconnect Reconnect crew to perform truck roll out disconnect/reconnect for a total of 62 customers; 37(60%) were disconnected; 25(40%) deferred; 0(0%) incompletes.

<b>FY 2018 (July 01-31,2018)</b>								
	<b>Scheduled</b>	<b>Disc</b>	<b>Deferred</b>	<b>Complete Vs. Scheduled</b>	<b>Incomplete Disconnections</b>	<b>Disc Vs. Scheduled</b>	<b>Deferred Vs. Scheduled</b>	<b>Incomplete Vs. Scheduled</b>
July	1,485	1,086	390	1,476 99%	9	73%	26%	1%
3 <sup>rd</sup>	4,824	2,635	2,167	4,802 100%	22	55%	45%	0%
2 <sup>nd</sup>	4,092	2,010	2,032	4,042 99%	50	49%	50%	1%
1 <sup>st</sup>	3,890	2,237	1,646	3,883 100%	7	58%	42%	0%
<b>TOTAL:</b>	<b>14,291</b>	<b>7,968</b>	<b>6,235</b>	<b>14,203 99%</b>	<b>88</b>	<b>56%</b>	<b>44%</b>	<b>0%</b>
<b>FY 2017 (October 01, 2016 - September 30, 2017)</b>								
<b>QTR</b>	<b>Scheduled</b>	<b>Disc</b>	<b>Deferred</b>	<b>Complete Vs. Scheduled</b>	<b>Incomplete Disconnections</b>	<b>Disc Vs. Scheduled</b>	<b>Deferred Vs. Scheduled</b>	<b>Incomplete Vs. Scheduled</b>
4 <sup>th</sup>	3,621	2,067	1,553	3,620 100%	1	57%	43%	0%
3 <sup>rd</sup>	4,021	2,683	1,332	4,015 100%	6	67%	33%	0%
2 <sup>nd</sup>	5,125	3,053	2,055	5,108 100%	17	60%	40%	0%
1 <sup>st</sup>	10,187	5,462	4,689	10,151 100%	36	54%	46%	0%
<b>TOTAL:</b>	<b>22,954</b>	<b>13,265</b>	<b>9,629</b>	<b>22,894 100%</b>	<b>60</b>	<b>58%</b>	<b>42%</b>	<b>0%</b>

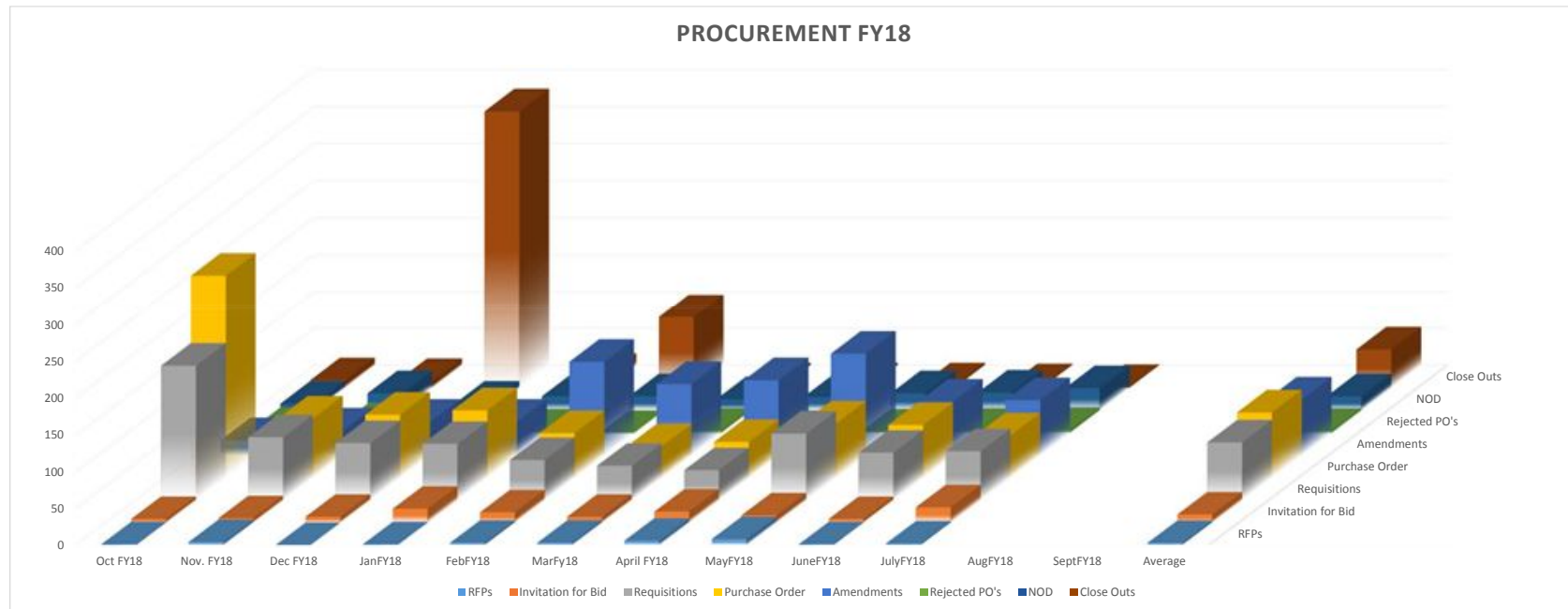
This concludes the Summary Report for Customer Service Division for the month of July 2018.

Respectfully submitted,

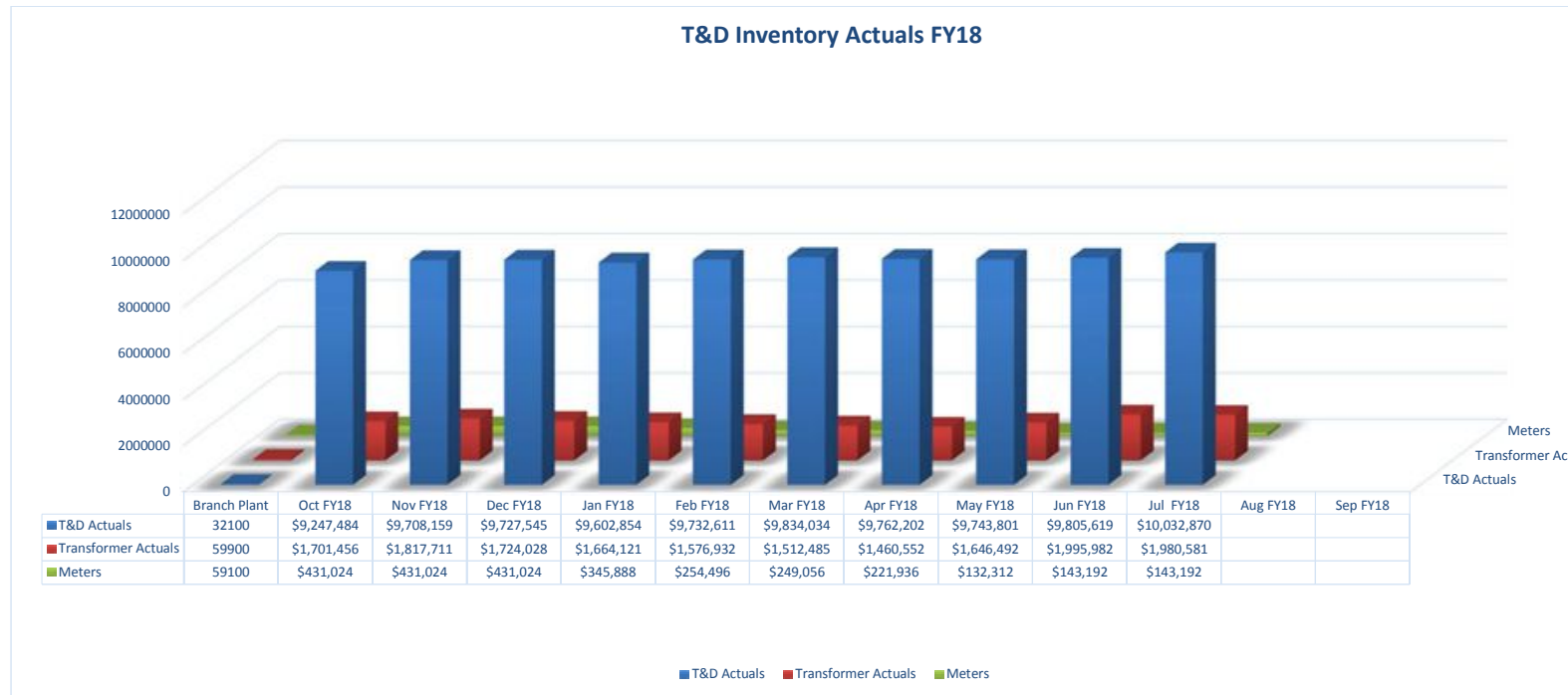
Marissa Fernandez, Admin. Officer

Reviewed / Approved by:

Richard J. Bersamin, ACSM



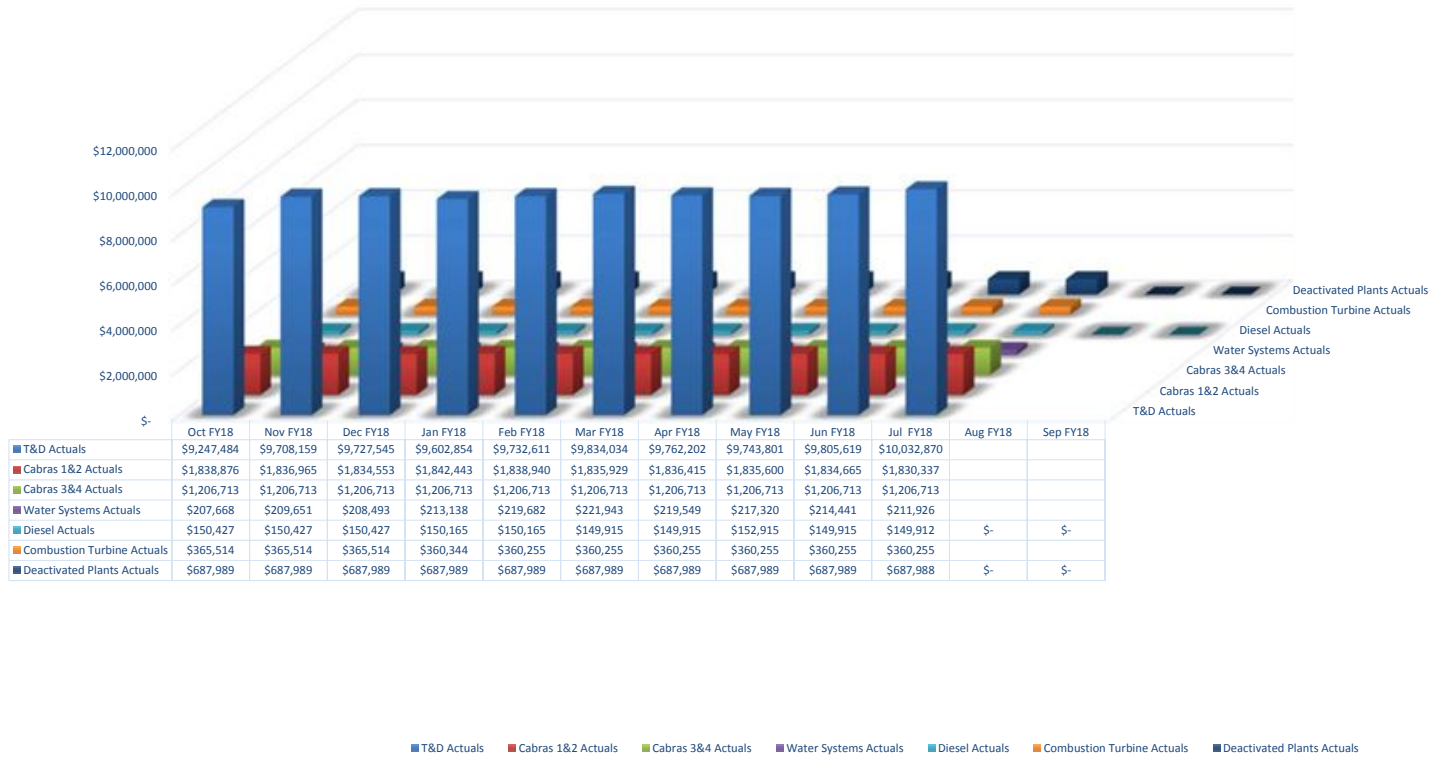
	Oct FY18	Nov. FY18	Dec FY18	JanFY18	FebFY18	MarFY18	April FY18	MayFY18	JuneFY18	JulyFY18	AugFY18	SeptFY18	Average
RFPs	1	4	0	1	3	3	6	8	1	2			2.9
Invitation for Bid	5	6	8	19	14	8	15	10	5	21			11.1
Requisitions	183	86	78	77	55	47	41	91	65	67			79
Purchase Order	275	81	86	92	61	43	49	74	72	58			89.1
Amendments	21	34	46	46	127	97	102	138	73	75			75.9
Rejected PO's	4	9	0	2	0	3	0	2	3	4			2.7
NOD	9	23	9	19	19	15	18	23	24	30			18.9
Close Outs	10	9	374	16	96	3	3	3	2	1			51.7





GPA Work Session - August 23, 2018 - DIVISION REPORTS

GPA Inventory FY18



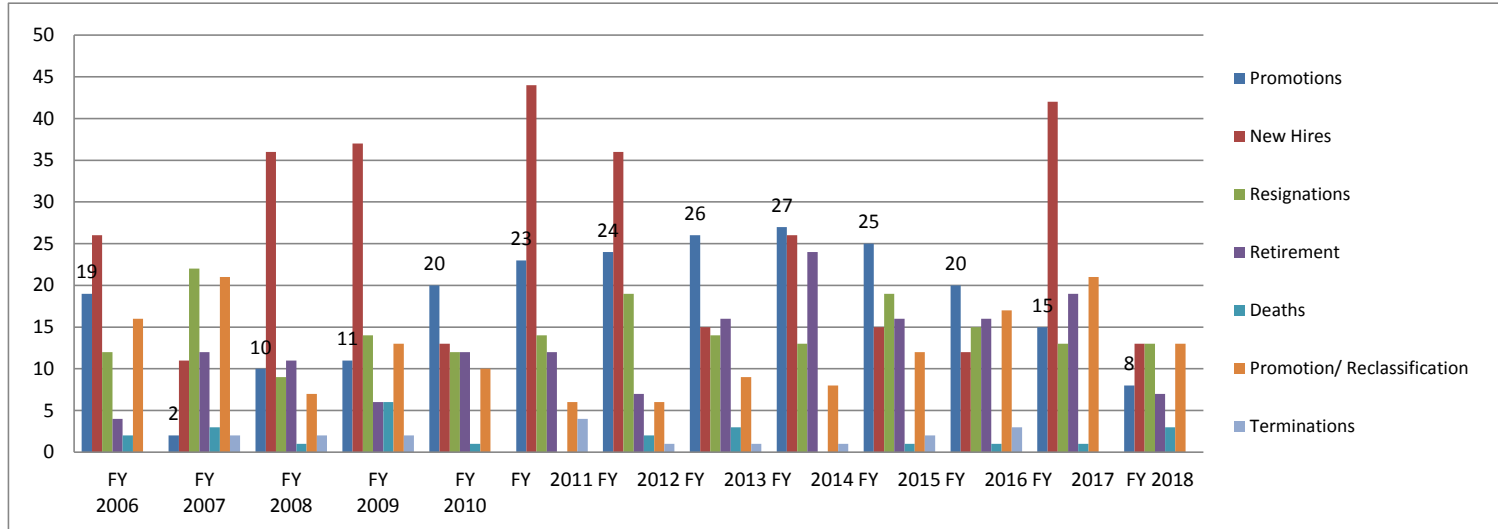
**RECRUITMENT ANALYSIS**

Fiscal Year	Promotions	New Hires	Resignations	Retirement	Deaths	Promotion/ Reclassification	Terminations	Total Author- ized FTE	Attrition Rate	Total Filled FTE at end of Fiscal Year	Percentage of Filled FTE at end of Fiscal Year
2006	19	26	12	4	2	16	0	584	3.3%	536	91.8%
2007	2	11	22	12	3	21	2	584	7.2%	510	87.3%
2008	10	36	9	11	1	7	2	592	4.5%	525	88.7%
2009	11	37	14	6	6	13	2	592	5.3%	534	90.2%
2010	20	13	12	12	1	10	0	592	4.7%	522	88.2%
2011	23	44	14	12	0	6	4	592	5.7%	536	90.5%
2012	24	36	19	7	2	6	1	568	5.4%	543	95.6%
2013	26	15	14	16	3	9	1	568	6.3%	524	92.3%
2014	27	26	13	24	0	8	1	568	7.3%	512	90.1%
2015	25	15	19	16	1	12	2	539	7.4%	489	90.7%
2016	20	12	15	16	1	17	3	510	7.2%	466	91.4%
2017	15	42	13	19	1	21	0	510	7.1%	476	93.3%
2018	8	13	13	7	3	13	0	510	4.8%	466	91.4%

*Recruitment Analysis (FY 2018) ..1 of 2*

*as of 07/31/18*

GPA Work Session - August 23, 2018 - DIVISION REPORTS



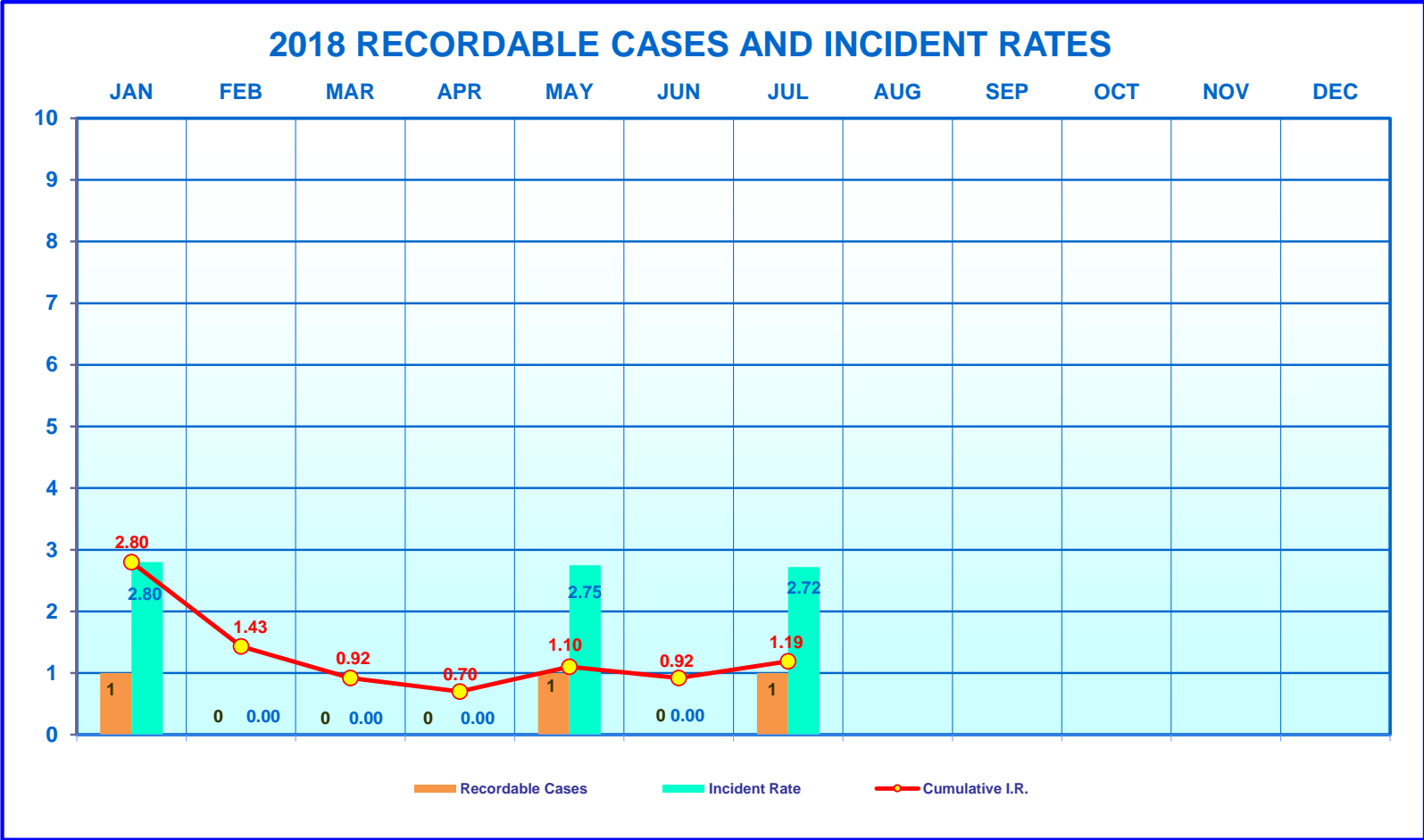
	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Promotions	19	2	10	11	20	23	24	26	27	25	20	15	8
New Hires	26	11	36	37	13	44	36	15	26	15	12	42	13
Resignations	12	22	9	14	12	14	19	14	13	19	15	13	13
Retirement	4	12	11	6	12	12	7	16	24	16	16	19	7
Deaths	2	3	1	6	1	0	2	3	0	1	1	1	3
Promotion/Reclassification	16	21	7	13	10	6	6	9	8	12	17	21	13
Terminations	0	2	2	2	0	4	1	1	1	2	3	0	0

TOTAL NO. OF EMPLOYEES	536	510	525	534	522	536	543	524	512	489	466	476	466
------------------------	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

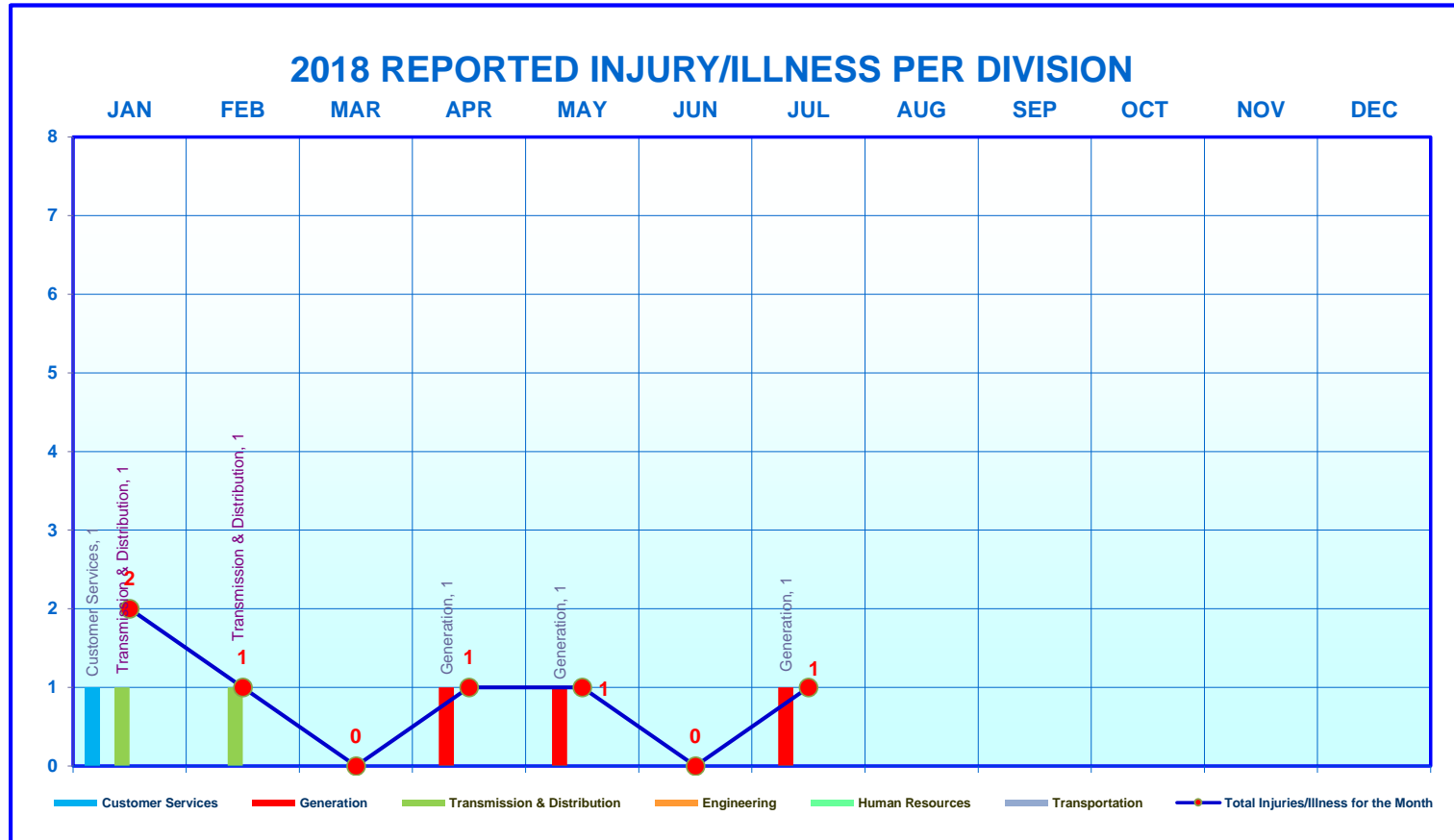
Recruitment Analysis (FY 2018) .. 2 of 2

as of 07/31/18

2018 Incident Rate

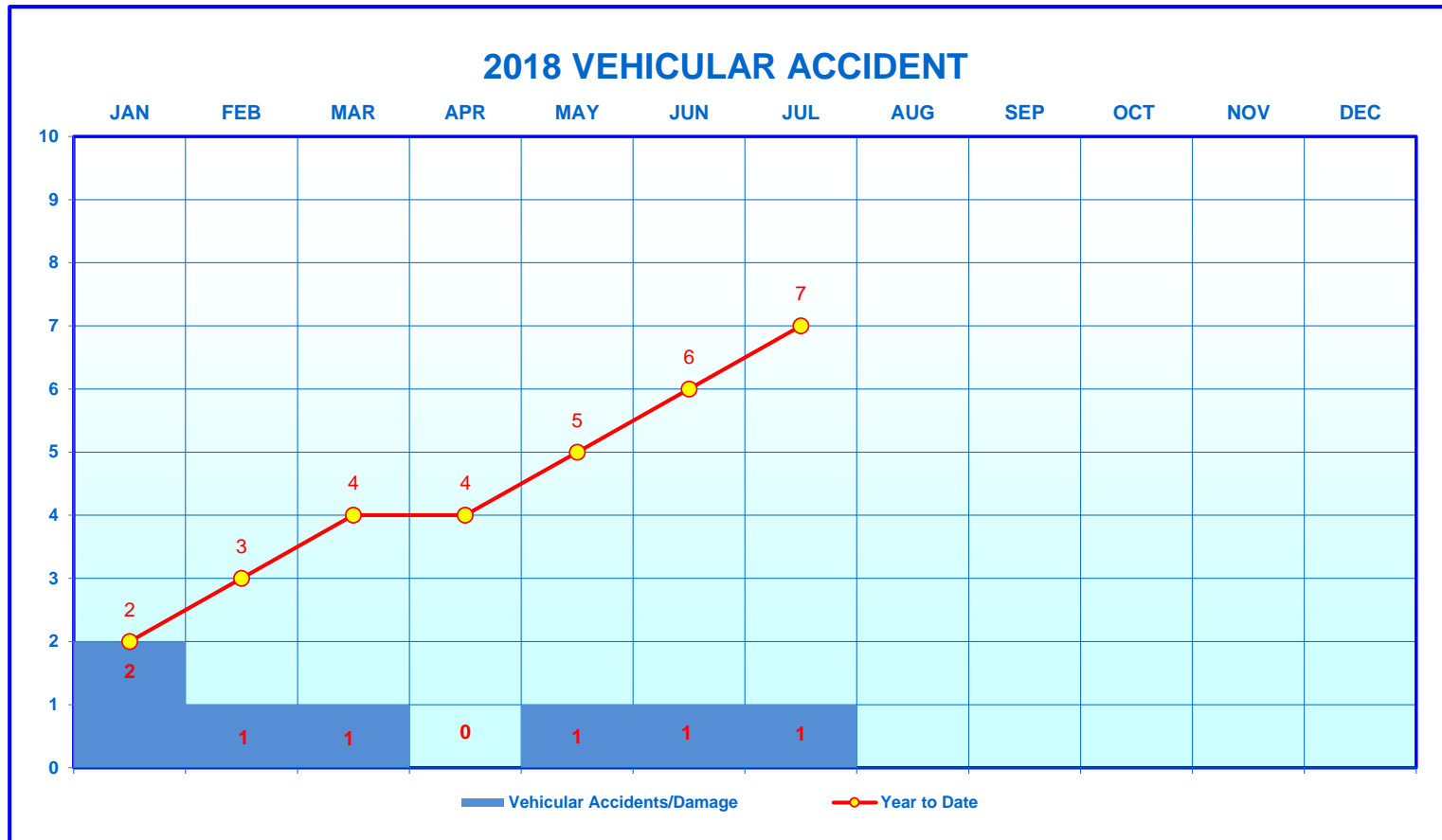


## SAFETY DIVISION MONTHLY REPORT



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Customer Services	1											
Generation				1	1		1					
Transmission & Distribution	1	1										
Human Resources												
Engineering												
Transportation												
Total Injuries/Illness for the Month	2	1	0	1	1	0	1					

## SAFETY DIVISION MONTHLY REPORT



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Vehicular Accidents/Damage	2	1	1	0	1	1	1					
Year to Date	2	3	4	4	5	6	7					
Accidents attributed to Employee fault	1	0	1	0	1	0	1					

**GUAM POWER AUTHORITY  
HUMAN RESOURCES DIVISION  
STAFFING REPORT (FY 2018)  
AS OF JULY 31, 2018**

<b>DIVISION</b>	<b>B1 ACTIVE EMP</b>	<b>B2 LAST EMP</b>	<b>C PROMOTE /TRANS</b>	<b>D PROM. RECLASS</b>	<b>E NEW HIRES</b>	<b>F RESIGN/ TERM</b>	<b>G RETIRE</b>	<b>H CURR VAC</b>	<b>I LAST VAC</b>	<b>(B1+H=K) TOTAL STAFFING</b>
INTERNAL AUDIT/REVENUE PROTECTION	2	2	0	0	0	0	0	2	2	4
BOARD(10200)	2	2	0	0	0	0	0	0	0	2
GENERAL MANAGER (CUS) [10100]	0	0	0	0	0	0	0	0	0	0
GENERAL MANAGER (20500)	4	4	0	0	0	0	0	0	0	4
PUBLIC INFORMATION OFFICE	2	2	0	0	0	0	0	0	0	2
ASSIST GM-ENG/TECH SVCS (30500)	1	1	0	0	0	0	0	0	0	1
ASSISTANT GENERAL MGR (30800)	1	1	0	0	0	0	0	1	1	2
ASSISTANT GENERAL MGR (AGMO) 50900	2	2	0	0	0	0	0	0	0	2
STRAT PLANN & OPTNS RESEARCH DIV	9	9	0	0	0	0	0	2	2	11
FACILITIES	9	9	0	0	0	0	0	0	0	9
HUMAN RESOURCES	8	10	0	0	0	0	1	2	0	10
CUSTOMER SERVICES	37	36	1	0	0	0	0	3	4	40
INFORMATION TECHNOLOGY	14	14	0	0	1	1	0	2	2	16
FINANCE	42	42	0	0	1	1	0	4	4	46
PROCUREMENT	21	21	1	1	0	0	0	1	1	22
TRANSPORTATION	11	11	0	0	0	0	0	0	0	11
SAFETY	5	5	0	1	0	0	0	2	2	7
PLANNING & REG	8	8	0	0	0	0	0	0	0	8
ENGINEERING	38	38	0	0	0	0	0	1	1	39
GENERATION	131	131	0	2	0	0	0	7	9	138
TRANSMISSION/DISTRIBUTION	97	95	0	1	2	0	0	12	12	109
POWER SYSTEM CONTROL CENTER	22	22	0	0	0	0	0	5	5	27
	466	465	2	5	4	2	1	44	45	510
JOBS/SCSEP/GETP PARTICIPANTS	2	2								2
WORK EXPERIENCE PROGRAM	5	6								
APPRENTICESHIP PROGRAM	0	0								0
SUMMER ENGINEERING INTERNS	9	0								9
TEMPORARY (P.L. 34-32)	1	1								1
GRAND TOTAL WORKFORCE:	483	474	2	5	4	2	1	44	45	522

FTE Count per FY18 FMP: 510

Current vacancies adjusted to reflect FTE of 510

\*\* JOBS = Job Opportunities and Basic Skills (individuals under the Public Health assistance program)

\*\* GETP = Guam Employment &amp; Training Program (individuals under the Public Health assistance program)

\*\* SCSEP = Senior Community Service Employment Program

\*\* APPRENTICESHIP TRAINING PROGRAM - Generation, PSCC and T&amp;D combined total

\*\* JOBS/SCSEP/GETP and Apprentice program participants are not included in the total annual budgeted FTE (Full-Time Employee) count.

\*\* P.L. 34-32 -Temporary employee(s)

Staffing Report as of July 31, 2018 - PREPARED BY: J.Aguigui

## **PLANNING & REGULATORY DIVISION REPORT**

The following summarizes P&R's activities for the month of July 2018

### **INSPECTIONS/MONITORING**

- Best Management Practices (BMP) Weekly Inspection/Report – Cabras Power Plant
- Monthly Spill Prevention, Control and Countermeasures (SPCC) Inspection/Report – Cabras Power Plant, Macheche, Dededo, Yigo CT, Talofoto, MDI, Tenjo Diesel, Piti 7 Power Plants, IP&E fuel Farm.
- Reviews monthly Continuous Emissions Monitoring System (CEMS) report and monitors TRC's O&M for Tenjo Diesel
- Monitoring of used oil disposal to the WOF from UNITEK Environmental

### **REPORTING**

- New Source Performance Standards (NSPS) Monthly and Quarterly Report– Submitted reports to GEPA/USEPA for Macheche CT, Yigo CT, Piti #7 CT, Talofoto, Manenggon and Tenjo Diesel Plants.
- Quarterly Discharge Monitoring Report (NetDMR) submitted to USEPA
- Quarterly Fuel Switching Report submitted to USEPA
- Submitted Annual Toxic Release Inventory Report (TRI) RY2017 via EPA online reporting tool
- Gathered spill reports and absorbent pad PO's as part of a request for public records pursuant to sunshine reform act of 1999 5 GCA S10101

### **SPILL/ENVIRONMENTAL RESPONSE**

- Responded to a leaking transformer along Route 3 in Finegayan

### **PROCUREMENT**

- GPA-RFP-18-007 Annual Emission Testing – Requested for Best and Final Offer
- GPA RFP-18-008 CEMS and RICE MACT O&M – Evaluating bid proposal from two Contractors
- IFMSB GPA-068-18 – Hazardous Material Removal and Disposal for Tanguisson and Dededo Diesel. Bid currently on hold.
- Processed RFQ bid for the tank bottom sampling of Tanks 1934 and 1935
- Assisted Meganum Inc, in conducting site inspection for the Tanks 1934 and 1935 tank bottom sampling

### **TRAINING**

- Attended Procurement Training on Creating Requisitions
- Attended Accident & Injury Reporting and Safety Orientation Training; July 19, 2018.



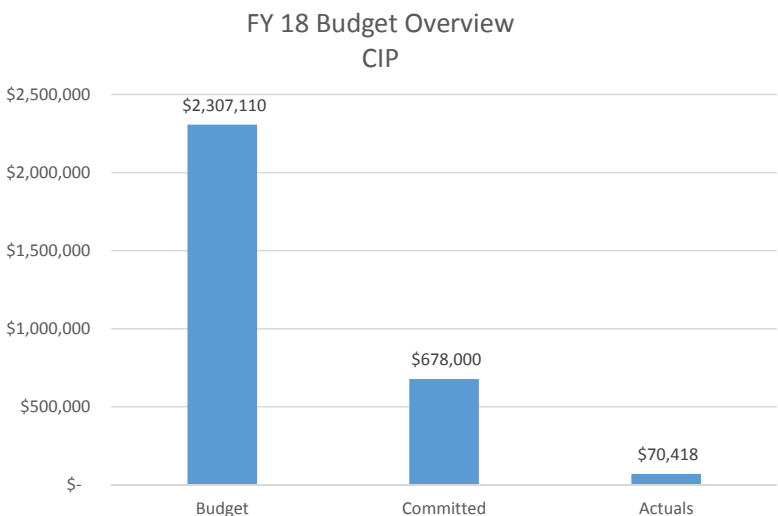
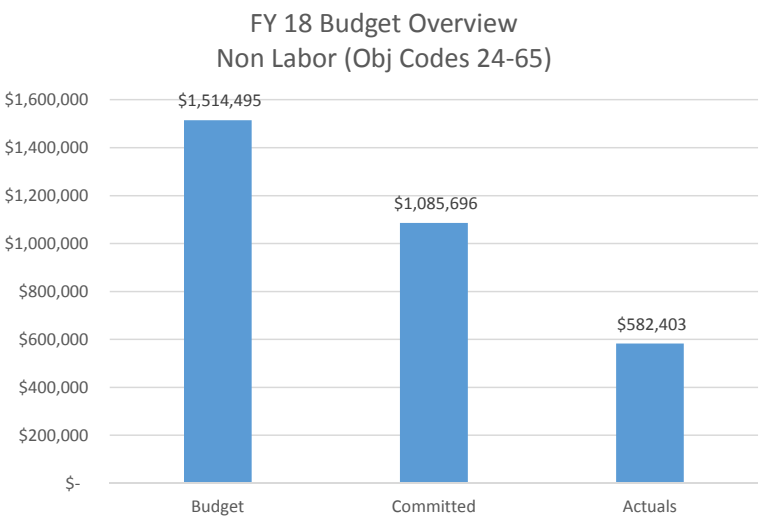
**OTHER PROJECTS:**

- Prepare the WOF energy recovery SOP in Cabras for final review and signature
- Meeting with SPORDS regarding the following:
  - 1934 and 1935 Tank bottom sampling
  - API Tank out of service inspection and repair
  - Disposal soil and metal structure in the Tank Farm
- Environmental Strategic Plan – assisting SPORD in updating the ESP
- Talofoto Exceedance to Permit Limit – coordinated with Operations to reduce use of Talofoto Diesel Plant
- Piti Sub Soil Remediation (Navy Project) – Part of information dissemination list and POC along with Engineering
- GPA Employee Family Fun Day
  - Event has been postponed until further notice
  - Assisted as Members of Committee and 3rd Floor Sub-Committee
  - Participant in Static Display Competition
- Engineering Internship Program – our group has 1 intern for this summer

# SPORD CCU Report

July 2018

# SPORD FY 2018 Budget Status



# SPORD FY 2018 Budget Status

- Major Contracts (Non-O&M) thru July 2018

	<b>Annual Contract Amount</b>	<b>Actuals</b>	<b>Balance</b>
Aggreko Contract	\$ 11,751,171	\$ 8,812,708	\$ 2,938,463
Fuel Contracts	\$ 229,805,548	\$ 167,470,217	\$ 62,335,331
MEC IPP (Piti 8&9)	\$ 31,909,347	\$ 23,883,468	\$ 8,025,879
NRG Contract (Renewable)	\$ 10,170,682	\$ 7,239,644	\$ 2,931,038

# SPORD FY 2018 Budget Status

## • Bond Funded Projects:

No.	Bond Funds	Project Name	Approved Budget (\$000)	Committed Amount (\$000)	Balance (\$000)	Transfers (\$000)	Restated Balance (\$000)	Amount Paid (\$000)*	Status
1	2014	Energy Storage and Renewable Energy Mitigation	\$ 35,000	\$ 35,556	\$ (556)	\$ 600	\$ 44	\$ 5,642	Contract with LG CNS America. Construction ongoing. Completed anticipated by end of 2018.
2	2014	LNG Initial Startup	\$ 3,000	\$ 2,565	\$ 435	\$ -	\$ 435	\$ 2,486	Completed Gen Ops (dispatching software) purchase & installation, MEC Assessment, demand side management feasibility and program implementation scope, Integrated Renewable study (GPA/Navy), and funded initial portion of Engineering, Procurement and Construction Management services for New Power Plant procurement development and support. Balance to be used for LNG studies/procurement.
3	2014	Mobile Workforce Management	\$ 500	\$ 494	\$ 6	\$ -	\$ 6	\$ -	Pending insurance requirements from vendor for NTP.
4	2014	SGIG (not covered by grant)	\$ 630	\$ -	\$ 630	\$ -	\$ 630	\$ 630	Pending service contract procurement/award
5	2014	Fadian SCADA System	\$ 1,800	\$ -	\$ 1,800	\$ -	\$ 1,800	\$ 1,142	Contract with Benson/Siemens. System commissioning expected by October 2018.

\* Amount paid are contract or purchase order costs only and excludes any GPA labor.

# SPORD FY 2018 Budget Status

- DSM Expenses

Description	FY16	FY17	FY18 (as of July 31)	Total to Date
Regular/OT Pay	\$ 11,349	\$ 22,256	\$ 19,028	\$ 52,633
Other Contractual	\$ 28,279	\$ 85,550	\$ 38,992	\$ 152,821
Bank Fees	\$ 155	\$ 1,032	\$ 1,055	\$ 2,242
Paid Rebates–Split AC	\$ 154,700	\$ 557,275	\$ 911,750	\$ 1,623,725
Paid Rebates– Central AC	\$ 3,400	\$ 8,200	\$ 2,300	\$ 13,900
Paid Rebates– Washer/Dryer	\$ 2,800	\$ 7,425	\$ 23,000	\$ 33,225
<b>Total Expenses</b>	<b>\$ 200,682</b>	<b>\$ 681,738</b>	<b>\$ 996,125</b>	<b>\$1,878,546</b>

**Approved DSM Funding: \$ 2,949,570**  
*Initial DSM Budget FY'16* \$ 1,806,014  
*Interest Income as of July 18* \$ 4,367  
*Addtl. Budget: Approved (FY'18)* \$ 1,139,189

**Funding Balance: \$ 1,071,025**

# Ongoing Activities

- Contract Performance Management (IPP, PMC, Agrekko)
- Generation Fuel Supply & Fuel Farm Management
- DSM Rebate Processing
- Renewables (Wind Turbine Maint & DOAg MOA, NRG Invoicing)
- Smart Grid/Network Support
- Project Management
  - Procurement
  - *July Project Activities*

## PROCUREMENT ACTIVITIES

### PENDING AWARD / NTP

Responsible	PROJECT	Description	CCU Date Approved (Resolution No.)	PUC Date Approved (Docket No.)	Projected Start*	Projected Completion	Status
SPORD (FJI)	RENEWABLES	Phase II - KEPCO/LG CNS	1/23/18 (2018-01)	18-06	4/30/2021	4/24/2046	Pending contract signature & ntp scheduled for Aug 24, 2018
SPORD (FJI)	RENEWABLES	Phase II - Hanwha	2/27/18 (2018-04)	18-08	8/15/2021	8/9/2046	Pending contract signature & ntp scheduled for Aug 22, 2018
SPORD (ANF)	FUEL	Petroleum Inspection Services			8/1/2018	7/31/2020	Procurement Completed. 2-yr Contract commenced Aug 1, 2018.
SPORD (ANF)	FUEL	Supply of Residual Fuel Oil No. 6	(2018-16)	Pending	11/16/2017	5/25/2018 (Phase I)	Phase II evaluation complete. Notice of Intent to Award issued (14 day protest period)
ENGINEERING	FUEL	GPA Tank Farm RFO Pipeline Upgrade - Design / Build			7/31/2018	TBD	NTP issued in Jul 2018. To repair existing RFO lines at the Bulk Fuel Farm

### ONGOING PROCUREMENT

Responsible	PROJECT	Description	Bid or RFP	Bid/RFP No	Announced	Bid Opening / Due	Notes
SPORD (RAC)	SCADA	SCADA Workstations	Bid	GPA-049-18	2/13/2018	3/14/2018	Delivered July 2018
SPORD (FJI)	NEW POWER PLANT	Geotechnical Services	RFP	Resolicitation GPA-RFP-18-002	(2/6/2018) 3/20/18	4/20/2018	Bid resolicited due to no proposals received in original solicitation.
SPORD (RAC)	SMART GRID	MV90 Integration Services	RFP	GPA-RFP-18-001	1/30/2018	3/6/2018	Negotiations Ongoing - August 2018
SPORD (RAC)	PLANNING	Milsoft Systems Software Services	RFP	GPA-RFP-18-003	2/1/2018	3/7/2018	Negotiations Ongoing - August 2018
SPORD (FJI)	NEW POWER PLANT	Build, Operate & Transfer Contract for 120-180MW of New Generation Capacity. <b>(PHASE I - REQUEST FOR QUALIFICATIONS)</b>	MS Bid	GPA-034-18	1/16/2018	4/5/2018	Step I - Qualifications completed. Total of 7 Qualified bidders selected. Obtained CCU approval to petition PUC for approval of technical bid documents in July 2018.



**ONGOING PROCUREMENT (continued)**

Responsible	PROJECT	Description	Bid or RFP	Bid/RFP No	Announced	Bid Opening / Due	Notes
SPORD (ANF)	FUEL	Supply of Diesel Fuel Oil No. 2	MS Bid	GPA-008-18	11/16/2017	TBD (Phase I)  TBD (Phase II)	Procurement Stay in place since 07/27/18. Bid specs revised- awaiting final review by Fuel Committee and Legal (TBD) Under Mgt Fuel Committee review (TBD)
SPORD (JTL)	RENEWABLES	Renewable Energy Resource Phase III	MS Bid	GPA-007-18	11/16/2017	10/4/2018	Lease modifications ongoing to address bidders' concerns/questions. Completed lease discussions in July.
SPORD (RAC)	SMART GRID	Mobile Workforce Management System (MWMS) **RE-BID**	MS Bid	GPA-023-17	10/5/2017	3/20/2018	Procurement processing Insurance -August 2018
SPORD (MAT)	PLANNING	Planning Software Consulting Services	RFP	GPA-RFP-18-010	7/26/2018	8/30/2018	Consulting Services for GPA's ABB Software utilized in planning and operations research activities.

**DEVELOPING PROCUREMENT**

Responsible	PROJECT	Description	Bid or RFP	Projected Start	Projected Completion	Status
SPORD (FJI)	NEW POWER PLANT	Build, Operate & Transfer Contract for 120-180MW of New Generation Capacity. <b>(PHASE II - TECHNICAL SPECIFICATIONS)</b>	MS Bid			Pending final bid documents.
ENGINEERING	FUEL	GPA Tank Farm DFO Pipeline Upgrade - Design / Build	Bid	2/8/2018	11/30/2018	Preparation of bid specs in progress. To install new diesel line from Navy Tie-in to the Bulk Fuel
ENGINEERING	FUEL	Tank 1935 API 653 Internal Inspection	Bid	5/1/2018	5/31/2019	Preparation of bid specs in progress. Budgeted for FY 2018.
ENGINEERING	FUEL	OWS Upgrading	Bid	5/1/2018	5/31/2019	Preparing IFB bid specs.
ENGINEERING	FUEL	LD System Upgrading	Bid	5/1/2018	5/31/2019	Preparing IFB bid specs.

**DEVELOPING PROCUREMENT (continued)**

Responsible	PROJECT	Description	Bid or RFP	Projected Start	Projected Completion	Status
SPORD (RAC)	ELECTRIC VEHICLE	Electric Vehicle Charging Stations	Bid	Jul-18	Sep-18	Developing Specifications
SPORD (RAC)	SCADA	DNP3 SA training	RFP	Jul-18	Dec-18	Submitted to Procurement (August 2018)
SPORD (RAC)	ELECTRIC VEHICLE	Electric Vehicle Infrastructure	RFP	Aug-18	Dec-18	Developing RFP
SPORD (RAC)	STUDIES	Consulting Services for Distribution Study using Smart Grid Analytics	RFP	Jul-18	May-19	Submitted to Procurement (July 2018)
SPORD (RAC)	SMARTWORK SYSTEMS	Smartworks Systems Software Services	RFP	Aug-18	Continuous	Developing RFP
SPORD (ANF)	FUEL	Bulk ULSD Supply	Bid	Aug-18	Dec-18	Draft Bid review by Mgt Fuel Committee
SPORD (ANF)	FUEL	ULSD supply for WSD and other plant sites	Bid	Sep-18	Mar-19	Developing Specifications
SPORD (ANF)	FUEL	GPA Bulk Fuel Storage Facility PMC	Bid	Sep-18	Sep-19	Developing Specifications to convert to PMC
ENGINEERING	FUEL	Guatali Bridge for ULSD Tankertruck access from Tristar	Bid	FY2018	FY2019	Developing Specifications w/ DPW Consultant (WSP)
SPORD (MAT)	FUEL / OPERATIONS	IFB for the Supply of Reprocessed Waste Oil Meeting GPA's ULSD Specifications	Bid	FY2018	FY2019	Bid Documents, Scope of Work, Bid Price Structure under review by Management
SPORD (LOS)	STUDIES	Power System Analyses and Studies	RFP	FY2018	FY2019	Pending RFP No. and announcement date from
SPORD (LOS)	WIND TURBINE	Wind Turbine O&M Supervision and Materials	RFP	FY2019	FY2019	Developing RFP documents

# Project Activities

No.	Project Description	July 2018 Activities	Status / Est. Completion	RFP/Bid No
1	Energy Storage System (Phase I)	GPA reviewing Pre-Final design. Clearing and grading permit work commenced in November 2017. Foundation permit work commenced in January 2018. Construction is 42% completed.	September 30, 2018 (Request to extend completion date is pending)	MS Bid GPA-082-15
2	Renewable Energy Resource Phase II	PUC ratifies KEPCO contract (Docket 18-06) and approves HANWHA contract (Docket 18-08) on March 29, 2018. Signing dates are scheduled for the end of August 2018.	KEPCO PV plant COD is APR 2021. Hanwha's COD is anticipated for 1st qtr of 2020.	MS Bid GPA-070-16
3	New Power Plant Bid (EPCM)	Completed technical bid documents and obtained CCU approval to petition PUC for approval	Award (2019 Q3) COD (2022 Q2)	MS GPA-034-18
4	DSM Marketing	Represented GPA (presenter) at the Energy Outreach Session at Pacific Star Resort hosted by GEO and supported the 2018 Home and Lifestyles Expo at the Agana Shopping Center.	Continuous	
5	DSM Rebate Program	Processed over 270 equipment in applications for rebates totaling ~ \$60K	Continuous	
6	Wireless Network Expansion	Commenced Southern Expansion in collaboration with GWA: 30% Assessment of GWA Well Locations: Completed Assessment of Existing Tropos Units: 100% Router Equipment and Accessories purchase  Routers programming Preparing next router order and installation documents	Dec-18 Completed Completed Received routers - May 2018 Completed - June 2018 Accessories - May 2018 August 2018	GPA-019-18
7	Performance Metrics Automation Project	Presentation on iDashboard provided to GM. GPA continues to work with consultant on automating reports and formatting.	Mar-18	
8	Electric Grid Analysis Software	Additional training for users Realtime Voltage Module Training on Planning and Analysis Cases	Completed Completed (July 2018) November 2018	GPA-064-16
9	Services to Develop Business Performance Indices using iDashboards	Dashboard builds 95%	Ongoing	GPA-RFP-16-008

# Project Activities

No.	Project Description	July 2018 Activities	Status / Est. Completion	RFP/Bid No
10	Supervisory Control and Data Acquisition (SCADA) System	Change Order Approved for October 2018 Completion and hardware costs  Servers; Programs, & Workstations Installed Point to Point Test Ongoing	Oct 2018 (SCADA COD) Completed 'Sept 2018 (Estimated Completion)	GPA-066-16
11	Mobile Workforce Management System	Bid Evaluation Completed, Clevest recommendation memo submitted for approval March 21, 2018 Purchase Order being Processed Pending Vendor Insurance	May 2018 (Bid Award) August 2018 September 2018	GPA-023-17
12	Consulting Services for Smart Grid Analytics Enabled Distribution System Planning, Technical, and Economic Feasibility Studies	New Bid	August 2018 (Announcement)	RFP-18-XXX
13	MEC Piti &8 and #9 - ECA Expiration	Environmental Assessment Report completed. Condition Assessment past due from Consultant.	[Completed] OVERDUE	RFP-17-002
14	MEC Piti &8 and #9 - ECA Extension	CCU approval received. PUC approval received, pending review of contract amendment. Amendment discussions w/ MEC on-going.	[Completed]  In progress	
15	Generation Software (GADS open software)	Pending data entry from Generation & SPORD.	[On-going work]	
16	IFB for ULSD Supply for Baseloads and Peaking Units	Solicitation in progress. Bid package revised to include delivery requirements.	Start Date: Nov 2017 Est. completion: FY2019	IFB GPA-008-18
17	Contract for Lease of Bulk ULSD Storage	196KB tank repairs completed. Lease commenced January 01, 2018 until December 31, 2018 with annual extension option up to 4 years as approved by PUC	Start: November 2017 Est. Completion: FY2018 Contract Start: Jan 1, 2018	TTGI-SA-2018-001
18	EV Infrastructure	Fast charge station scope for Mangilao offices. Developing fast charge station scope for Mangilao offices.	Dec 2018 September 2018	

# Project Activities

No.	Project Description	July 2018 Activities	Status / Est. Completion	RFP/Bid No
19	Fuel Conversion Plan	Condition Assessment & Transition Plan completed, submitted to Executive Mgmt and Key Employees  Additional Support as Owner's Engineer - not needed at this time, per Engr Proj Mgmt Supv & Team, and Spord Fuel Mgmt Engr III	[Completed]  Cancelled	
20	Fuel Bulk Storage Facility Assessment	ESA completed, RECs being addressed by GPA/IP&E CA completed	Start: Sept 2017 End: June 2018	
	Renewable Energy Resource Phase III	Completed pre-bid conference and site visits January 23-24 2018.	(Mar 2018) Tech Proposal Due	
21	Utility Energy Services Contract (UESC)	Conducted Best Schools program site assessments. Continued discussions with Navy.		
22	IFB for Delivery Services for GPA Plants	Bid canceled. Requirements to be included in the ULSD Supply solicitation	IFB Canceled Feb 2018	IFB GPA-006-18
	IFB for RFO Supply to Baseload Plants	Solicitation for a 2-Year Contract in progress. Note: PUC approves a 3-month extension of existing contract until November 30, 2018.	Solicitation in progress (for award) Est. Completion: FY2019 (1st Qtr)	IFB GPA-009-18
23	IFB for Petroleum Inspection Services	Solicitation completed. 2-Year contract to commence August 1, 2018 and will expire on July 31, 2020 with three (3) annual extension options	(Contract signed)	IFB GPA-014-18
27	RFO Storage Lease Agreement w/ Tristar	4-Year Lease extension (Sep 2018-Aug 2022) Approved by CCU. Disapproved by PUC - requested for clarification on Index referenced. (Docket 18-10)	Included in the August 2018 PUC meeting Contract Start: Sep 1, 2018	TTGI-SA-2013-001
28	GPA Fuel Farm RFO Pipeline Repair & Upgrade	c/o Engineering Project Mgt	Completed. Project Implementation in progress (Design phase)	IFB GPA-047-18
29	GPA Fuel Farm ULSD Pipeline Upgrade	c/o Engineering Project Mgt	Estimated Start: Oct 2019 Est. Completion: Sep 2019	For CCU/PUC approval for IFB Solicitation

# Project Activities

No.	Project Description	July 2018 Activities	Status / Est. Completion	RFP/Bid No
30	Tk 1934 & Tk1935 API 653 Internal Inspection	c/o Engineering Project Mgt	Estimated Start: Jun 2018 Est. Completion: FY2019	For CCU/PUC approval for IFB Solicitation
31	Milsoft Systems Software Services	Negotiations - June 2018	Continuous	GPA-RFP-18-003
32	MV90 Integration Services	Negotiations ongoing - June 2018	Dec-18	GPA-RFP-18-001
33	SCADA Workstations and Monitors	Delivered	July 2018 Completed	GPA-049-18
34	Grant Proposal Development and Proposal Application Management Services	GPA submitted a grant request for the Department of Interior funding opportunity which includes partnered projects with GDOE(Best Schools Program), Public-Access Parking Lot Solar Canopy, Demand-Side Management Expansion, Electric Vehicle (EV) Infrastructure, Employees-Access Parking Lot Solar Canopy, Wind Turbine Battery Storage, and Geothermal Studies and Exploration.	Feb 2018 (Contract signed)	Re-Solicitation GPA-RFP-16-011
35	Pipeline Lease Agreement w/ Tristar	4-Year Lease extension Approved by CCU. Disapproved by PUC - requested for clarification on Index referenced. (Docket 18-10)	Start: November 2017 Est. Completion: May 2018 Contract Start: Aug 1, 2018	TTGI-PA-2013-001
36	Dock Use Agreement w/ Tristar	4-Year Lease extension Approved by CCU. Approved by PUC on March 29, 2018. (Docket 18-10)	Start: November 2017 Est. Completion: Mar 2018 Contract Start: Aug 1, 2018	TTGI-DA-2013-001
37	Redesignation of Cabras-Piti / Guam	Re-designation received 12/2018. TRC standing assisting with SIP Modeling, SIP draft. AAQM Installation/Implementation on hold, will depend on USEPA approval of SIP after submission on/before July 2019	Start: October 2011 Est. Completion: July 2019 *Submitted to EPA by completion date	RFP-11-001
38	Environmental Strategic Planning	Draft review and finalization on-going.	Start: April 2018 Est. Completion: September 2018	RFP-11-001

# Project Activities

No.	Project Description	July 2018 Activities	Status / Est. Completion	RFP/Bid No
39	GPA Fuel Farm- OWS Upgrading	c/o Engineering Project Mgt	Estimated Start: Jun 2018 Est. Completion: FY2019	For IFB Solicitation
40	GPA Fuel Farm- LD System Upgrading	c/o Engineering Project Mgt	Estimated Start: Jun 2018 Est. Completion: FY2019	For IFB Solicitation
41	Planning Software Consulting Services	Request for Proposal for Consulting Services for GPA's Planning Software	RFP Start: Jul 26 2018 RFP Due: Aug 30 2018	RFP-18-010
42	IFB for Supply of Reprocessed Waste Oil Meeting GPA's ULSD Specifications	Bid for the Supply of Reprocessed Waste Oil Meeting GPA's ULSD Specifications. Supplier will haul Waste Oil from GPA WOF, reprocess waste oil to meet GPA's ULSD Specifications, and supply to designated GPA Power Plants	[Bid Documents currently under review by management]	For IFB Solicitation

<b>No.</b>	<b>Project Description</b>
1	Energy Storage System (Phase I)
2	Renewable Energy Resource Phase II
3	New Power Plant Bid (EPCM)
4	DSM Marketing
5	DSM Rebate Program
6	Wireless Network Expansion
7	Performance Metrics Automation Project
8	Electric Grid Analysis Software
9	Services to Develop Business Performance Indices using iDashboards
<b>No.</b>	<b>Project Description</b>
10	Supervisory Control and Data Acquisition (SCADA) System
11	Mobile Workforce Management System
12	Consulting Services for Smart Grid Analytics Enabled Distribution System Planning, Technical, and Economic Feasibility Studies
13	MEC Piti & #8 and #9 - ECA Expiration
14	MEC Piti & #8 and #9 - ECA Extension
15	Generation Software (GADS open software)
16	IFB for ULSD Supply for Baseloads and Peaking Units



	17	Contract for Lease of Bulk ULSD Storage
	18	EV Infrastructure
	<b>No.</b>	<b>Project Description</b>
	19	Fuel Conversion Plan
	20	Fuel Bulk Storage Facility Assessment
		Renewable Energy Resource Phase III
	21	Utility Energy Services Contract (UESC)
	22	IFB for Delivery Services for GPA Plants
		IFB for RFO Supply to Baseload Plants
	23	IFB for Petroleum Inspection Services
	27	RFO Storage Lease Agreement w/ Tristar
	28	GPA Fuel Farm RFO Pipeline Repair & Upgrade
	29	GPA Fuel Farm ULSD Pipeline Upgrade
	<b>No.</b>	<b>Project Description</b>
	30	Tk 1934 & Tk1935 API 653 Internal Inspection
	31	Milsoft Systems Software Services
	32	MV90 Integration Services
	33	SCADA Workstations and Monitors
	34	Grant Proposal Development and Proposal Application Management Services
	35	Pipeline Lease Agreement w/ Tristar

36	Dock Use Agreement w/ Tristar
37	Redesignation of Cabras-Piti / Guam
38	Environmental Strategic Planning
<b>No.</b>	<b>Project Description</b>
39	GPA Fuel Farm- OWS Upgrading
40	GPA Fuel Farm- LD System Upgrading
41	Planning Software Consulting Services
42	IFB for Supply of Reprocessed Waste Oil Meeting GPA's ULSD Specifications

<b>July 2018 Activities</b>
GPA reviewing Pre-Final design. Clearing and grading permit work commenced in November 2017. Foundation permit work commenced in January 2018. Construction is 42% completed.
PUC ratifies KEPCO contract (Docket 18-06) and approves HANWHA contract (Docket 18-08) on March 29, 2018. Signing dates are scheduled for the end of August 2018.
Completed technical bid documents and obtained CCU approval to petition PUC for approval
Represented GPA (presenter) at the Energy Outreach Session at Pacific Star Resort hosted by GEO and supported the 2018 Home and Lifestyles Expo at the Agana Shopping Center.
Processed over 270 equipment in applications for rebates totaling ~ \$60K
Commenced Southern Expansion in collaboration with GWA: 30% Assessment of GWA Well Locations: Completed Assessment of Existing Tropos Units: 100% Router Equipment and Accessories purchase
Routers programming Preparing next router order and installation documents
Presentation on iDashboard provided to GM. GPA continues to work with consultant on automating reports and formatting.
Additional training for users Realtime Voltage Module Training on Planning and Analysis Cases
Dashboard builds 95%
<b>July 2018 Activities</b>
Change Order Approved for October 2018 Completion and hardware costs
Servers; Programs, & Workstations Installed Point to Point Test Ongoing
Bid Evaluation Completed, Clevest recommendation memo submitted for approval March 21, 2018 Purchase Order being Processed Pending Vendor Insurance
New Bid
Environmental Assessment Report completed. Condition Assessment past due from Consultant.
CCU approval received. PUC approval received, pending review of contract amendment. Amendment discussions w/ MEC on-going.
Pending data entry from Generation & SPORD.
Solicitation in progress. Bid package revised to include delivery requirements.

196KB tank repairs completed. Lease commenced January 01, 2018 until December 31, 2018 with annual extension option up to 4 years as approved by PUC
Fast charge station scope for Mangilao offices. Developing fast charge station scope for Mangilao offices.
<b>July 2018 Activities</b>
Condition Assessment & Transition Plan completed, submitted to Executive Mgmt and Key Employees
Additional Support as Owner's Engineer - not needed at this time, per Engr Proj Mgmt Supv & Team, and Spord Fuel Mgmt Engr III
ESA completed, RECs being addressed by GPA/IP&E CA completed
Completed pre-bid conference and site visits January 23-24 2018.
Conducted Best Schools program site assessments. Continued discussions with Navy.
Bid canceled. Requirements to be included in the ULSD Supply solicitation
Solicitation for a 2-Year Contract in progress. Note: PUC approves a 3-month extension of existing contract until November 30, 2018.
Solicitation completed. 2-Year contract to commence August 1, 2018 and will expire on July 31, 2020 with three (3) annual extension options
4-Year Lease extension (Sep 2018-Aug 2022) Approved by CCU. Disapproved by PUC - requested for clarification on Index referenced. (Docket 18-10)
c/o Engineering Project Mgt
c/o Engineering Project Mgt
<b>July 2018 Activities</b>
c/o Engineering Project Mgt
Negotiations - June 2018
Negotiations ongoing - June 2018
Delivered
GPA submitted a grant request for the Department of Interior funding opportunity which includes partnered projects with GDOE(Best Schools Program), Public-Access Parking Lot Solar Canopy, Demand-Side Management Expansion, Electric Vehicle (EV) Infrastructure, Employees-Access Parking Lot Solar Canopy, Wind Turbine Battery Storage, and Geothermal Studies and Exploration.
4-Year Lease extension Approved by CCU. Disapproved by PUC - requested for clarification on Index referenced. (Docket 18-10)

4-Year Lease extension Approved by CCU. Approved by PUC on March 29, 2018. (Docket 18-10)
Re-designation received 12/2018. TRC standing assisting with SIP Modeling, SIP draft. AAQM Installation/Implementation on hold, will depend on USEPA approval of SIP after submission on/before July 2019
Draft review and finalization on-going.
<b>July 2018 Activities</b>
c/o Engineering Project Mgt
c/o Engineering Project Mgt
Request for Proposal for Consulting Services for GPA's Planning Software
Bid for the Supply of Reprocessed Waste Oil Meeting GPA's ULSD Specifications. Supplier will haul Waste Oil from GPA WOF, reprocess waste oil to meet GPA's ULSD Specifications, and supply to designated GPA Power Plants

<b>Status / Est. Completion</b>	<b>RFP/Bid No</b>
September 30, 2018 (Request to extend completion date is pending)	MS Bid GPA-082-15
KEPCO PV plant COD is APR 2021. Hanwha's COD is anticipated for 1st qtr of 2020.	MS Bid GPA-070-16
Award (2019 Q3) COD (2022 Q2)	MS GPA-034-18
Continuous	
Continuous	
Dec-18 Completed Completed Received routers - May 2018 Completed - June 2018 Accessories - May 2018 August 2018	GPA-019-18
Mar-18	
Completed Completed (July 2018) November 2018	GPA-064-16
Ongoing	GPA-RFP-16-008
<b>Status / Est. Completion</b>	<b>RFP/Bid No</b>
Oct 2018 (SCADA COD) Completed 'Sept 2018 (Estimated Completion)	GPA-066-16
May 2018 (Bid Award) August 2018 September 2018	GPA-023-17
August 2018 (Announcement)	RFP-18-XXX
[Completed] OVERDUE	RFP-17-002
[Completed]  In progress	
[On-going work]	
Start Date: Nov 2017 Est. completion: FY2019	IFB GPA-008-18

Start: November 2017 Est. Completion: FY2018 Contract Start: Jan 1, 2018	TTGI-SA-2018-001
Dec 2018 September 2018	
<b>Status / Est. Completion</b>	<b>RFP/Bid No</b>
[Completed]	
Cancelled	
Start: Sept 2017 End: June 2018	
(Mar 2018) Tech Proposal Due	
IFB Canceled Feb 2018	IFB GPA-006-18
Solicitation in progress (for award) Est. Completion: FY2019 (1st Qtr)	IFB GPA-009-18
(Contract signed)	IFB GPA-014-18
Included in the August 2018 PUC meeting Contract Start: Sep 1, 2018	TTGI-SA-2013-001
Completed. Project Implementation in progress (Design phase)	IFB GPA-047-18
Estimated Start: Oct 2019 Est. Completion: Sep 2019	For CCU/PUC approval for IFB Solicitation
<b>Status / Est. Completion</b>	<b>RFP/Bid No</b>
Estimated Start: Jun 2018 Est. Completion: FY2019	For CCU/PUC approval for IFB Solicitation
Continuous	GPA-RFP-18-003
Dec-18	GPA-RFP-18-001
July 2018 Completed	GPA-049-18
Feb 2018 (Contract signed)	Re-Solicitation GPA-RFP-16-011
Start: November 2017 Est. Completion: May 2018 Contract Start: Aug 1, 2018	TTGI-PA-2013-001

Start: November 2017 Est. Completion: Mar 2018 Contract Start: Aug 1, 2018	TTGI-DA-2013-001
Start: October 2011 Est. Completion: July 2019 *Submitted to EPA by completion date	RFP-11-001
Start: April 2018 Est. Completion: September 2018	RFP-11-001
<b>Status / Est. Completion</b>	<b>RFP/Bid No</b>
Estimated Start: Jun 2018 Est. Completion: FY2019	For IFB Solicitation
Estimated Start: Jun 2018 Est. Completion: FY2019	For IFB Solicitation
RFP Start: Jul 26 2018 RFP Due: Aug 30 2018	RFP-18-010
[Bid Documents currently under review by management]	For IFB Solicitation



# CCU Report– DSM

As of July 31, 2018

# All Expenses – Fiscal Year

Description	FY16	FY17	FY18 as of July 31	Total to Date
Regular/OT Pay	\$11,348.80	\$22,256.00	\$19,027.79	\$52,632.59
Other Contractual	28,278.50	\$85,550.05	\$38,992.25	\$152,820.80
Paid Rebates– Split AC	\$154,700.00	\$557,275.00	\$911,750.00	\$1,623,725.00
Paid Rebates– Central AC	\$3,400.00	\$8,200.00	\$2,300.00	\$13,900.00
Paid Rebates– Washer/Dryer	\$2,800.00	\$7,425.00	\$23,000.00	\$33,225.00

<b>Total Expenses</b>	<b>200,527.30</b>	<b>\$681,738.11</b>	<b>\$996,125.12</b>	<b>\$1,878,545.53</b>
Bank Interest/Fees	-\$1,676.42/ \$155.00	-\$1,722.74/ \$1,032.06	-\$968.08/ \$1,055.08	-\$4,367.24/ \$2,242.14
Ending Balance				\$(68,164.29)

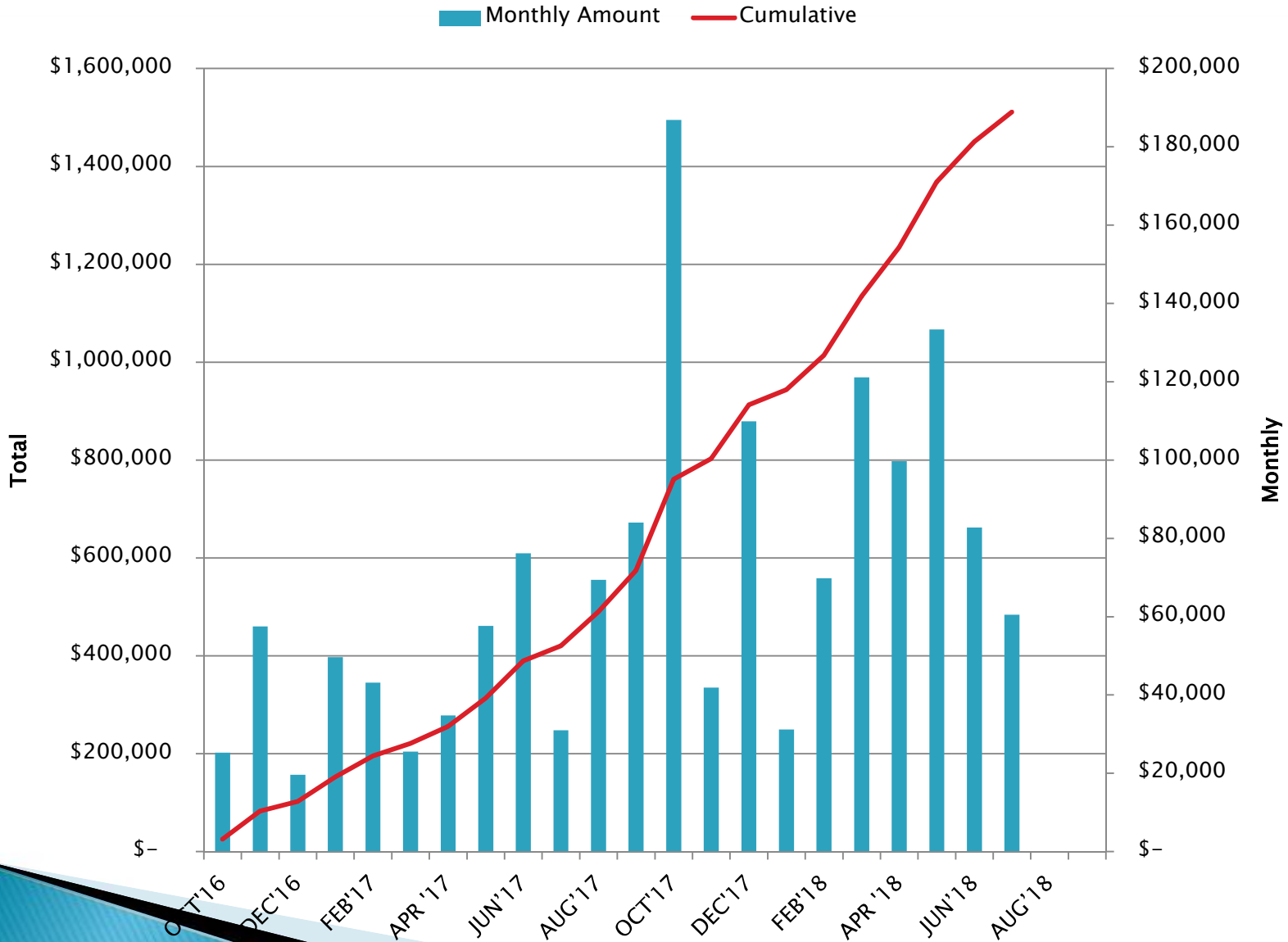
# FY 2017– Rebate Amount Paid Monthly

Month	Total	Split A/C Units	Central A/C Units	Washers/Dryers
OCTOBER'16	\$25,250.00	\$23,450.00	\$800.00	\$1,000.00
NOVEMBER'16	\$57,525.00	\$55,625.00	\$1,600.00	\$300.00
DECEMBER'16	\$19,625.00	\$18,225.00	\$800.00	\$600.00
JANUARY'17	\$49,650.00	\$48,050.00	–	\$1,600.00
FEBRUARY'17	\$43,175.00	\$43,175.00		–
MARCH'17	\$25,550.00	\$25,550.00	–	–
APRIL '17	\$34,800.00	\$30,950.00	\$800.00	\$2,125.00
MAY'17	\$57,675.00	\$54,275.00	\$2,400.00	\$1,000.00
JUNE'17	\$76,175.00	\$74,675.00	\$1,300.00	\$200.00
JUL'17	\$30,975.00	\$30,975.00	–	–
AUG'17	\$69,400.00	\$69,200.00	–	\$200.00
SEP'17	\$84,025.00	\$83,125.00	\$500.00	\$400.00
TOTALS	\$572,900.00	\$557,275.00	\$8,200.00	\$7,425.00

# FY 2018– Rebate Amount Paid Monthly

Month	Total	Split A/C Units	Central A/C Units	Washers/ Dryers
OCTOBER'17	\$186,850.00	\$185,850.00	\$800.00	\$200.00
NOVEMBER'17	\$41,900.00	\$41,700.00		\$200.00
DECEMBER'17	\$109,875.00	\$108,475.00		\$1,400.00
JANUARY '18	\$31,175.00	\$31,175.00		
FEBRUARY '18	\$69,825.00	\$68,825.00		\$1,000.00
MARCH '18	\$121,100.00	\$120,100.00		\$1,000.00
APRIL '18	\$99,700.00	\$94,400.00	\$500.00	\$4,800.00
May '18	\$133,350.00	\$127,150.00		\$6,200.00
June '18	\$82,400.00	\$77,200.00		\$5,200.00
July'18	\$60,475.00	\$56,475.00	\$1,000.00	\$3,000.00
<b>TOTALS</b>	<b>\$936,650.00</b>	<b>\$911,350.00</b>	<b>\$2,300.00</b>	<b>\$23,000.00</b>

# FY 2017– 2018 Rebate Amount Paid



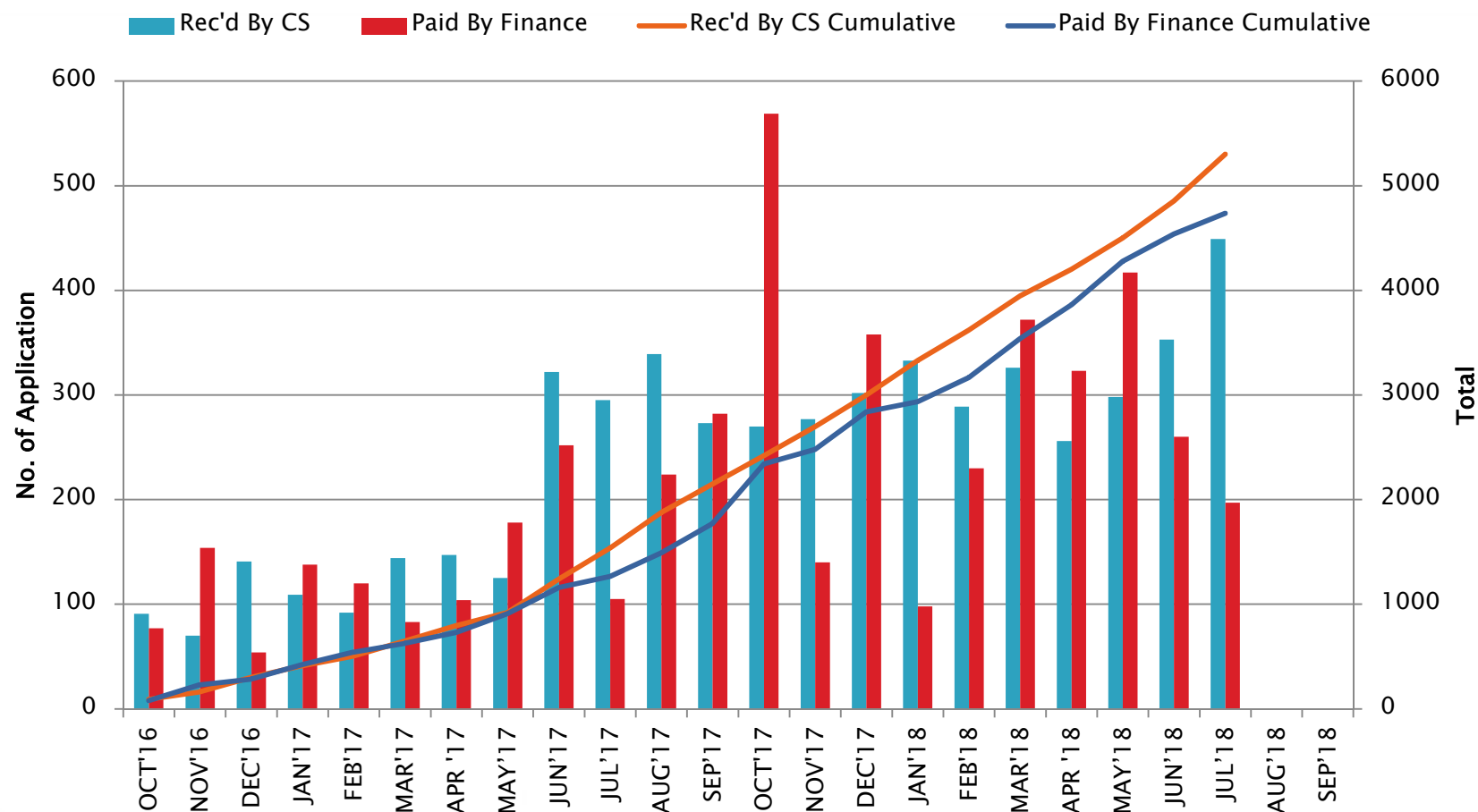
## FY 2017– Number of Applications Received By Customer Service and Paid Monthly

Month	Rec'd By CS	Paid By Finance
OCTOBER '16	92	77
NOVEMBER '16	68	154
DECEMBER '16	141	54
JANUARY '17	109	138
FEBRUARY '17	92	120
MARCH '17	144	83
APRIL '17	147	104
MAY '17	215	178
JUNE '17	322	252
JULY '17	295	105
AUGUST '17	339	224
SEPTEMBER '17	270	282

## FY 2018– Number of Applications Received By Customer Service and Paid Monthly

Month	Rec'd By CS	Paid By Finance
OCTOBER '17	270	569
NOVEMBER '17	277	140
DECEMBER '17	302	358
JANUARY '18	333	98
FEBRUARY '18	289	230
MARCH '18	326	372
APRIL '18	256	323
MAY '18	298	417
JUNE '18	353	260
JULY '18	449	197
AUGUST '18		
SEPTEMBER '18		

# FY 2017– 2018 Number of Applications Received By Customer Service and Paid





# Guam GPA & GWA EMS/SCADA System

SIEMENS



## Monthly Project Report July 2018

Grow  
together and WIN



Unrestricted

## Project Progression Summary

### Equipment Delivery

- July 6, 2018 – Arrival of SCADA Servers
- July 11, 2018 – Arrival of SCADA Cisco Switches
- Pending – Delivery of UPS/Printers, estimated DOA: End of August

### Installation and Interconnection

- July 12, 2018 – Installation and Interconnection Phase commences
  - SCADA Servers and Switches installed IAW cabinet layout as provide by GPWA
- Change in 3<sup>rd</sup> party communication infrastructure
  - Due to unsupported technology, the conversion of analog to IP based communication from GTA was necessary to facilitate end-to-end connectivity between field and control sites

### Disaster Recovery

- Secondary site (DR) discussed further and a solution is currently under review

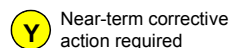
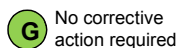
## GPWA SCADA EMS Project Bid No. GPA 066-16

Project Director: Charles Wu  
Project Manager: Jonathan Chargualaf  
Contract Administrator: Monito Co



Overall Status				G	Resources	Risks & Issues	G	Schedule	G	Scope	G	Financial	G
Burn Rate	This Month	Last Month	Incremental		1. Benson/Siemens 2. GPWA								
Scope (%)													
Budget (%)	13.2%												
Milestones Achieved	1, 3-11 of 18												
Updates & Accomplishments -- Month of July 2018						Resource	Upcoming Tasks / Open Items				TCD/EC D		
1. Delivery of primary hardware components  2. Installation and Interconnection phase commenced  3. Disaster Recovery Solution discussions						GPWA Benson/Siemens	Equipment installation and Interconnection (continued)				August 31, 2018		
						GPWA Benson/Siemens	Substation Point-to-Point Testing (concurrent)				August 31, 2018		
						GPWA Benson/Siemens	System Commissioning, Quality Assurance, Site Acceptance Testing				September 30, 2018		
						GPWA Benson/Siemens	GWA – Pending installation of communication distribution infrastructure to SCC; GPA has agreed to assist, pending procurement of additional materials				TBD		
Risks and Issues					DATE IDENTIFIED	Resolution					RESOLUTION DEADLINE		

### Legend:



8/22/2018

3

## GPWA SCADA EMS Project

### Bid No. GPA 066-16

Project Director: Charles Wu  
Project Manager: Jonathan Chargualaf  
Contract Administrator: Monito Co

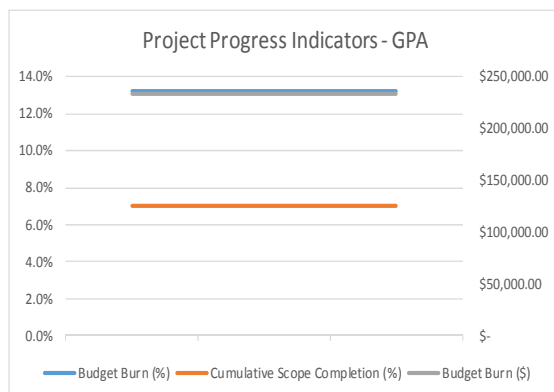


Overall Status				G
Burn Rate	This Month	Last Month	Incremental	
Scope (%)				
Budget (%)	13.2%			
Milestones Achieved	1, 3-11 of 18			

Resources
1. Benson/Siemens
2. GPWA

Risks & Issues	G	Schedule	G	Scope	G	Financial	G

### Project Progress Indicators



### Project Schedule & Budget Performance Indicators

Project Milestone	Planned Completion Date	To be updated	Performance (Days Over/Under)
		Actual Completion Date	
Contract Start Date	14-Dec-16	14-Dec-16	0
GPWA SCADA/EMS Project	1-Oct-18	1-Oct-18	0
Factory Activities (In Taiwan / Germany)	9-Jul-18	9-Jul-18	0
Approval of revised documentation	4-Dec-17	4-Dec-17	0
Preliminary Factory Acceptance Test (Pre-FAT) in Taiwan	2-May-18	2-May-18	0
- Base Applications	27-Apr-18	27-Apr-18	0
- Advanced Applications	2-May-18	2-May-18	0
Factory Acceptance Test (FAT) in Taiwan	10-Jun-18	10-Jun-18	0
- Advanced Applications	7-May-18	7-May-18	0
- Hardware delivery to Site	31-May-18	31-May-18	0
Site Activities (In Guam)	1-Oct-18	1-Oct-18	0
Site Commissioning (Point to point testing)	29-Aug-18	29-Aug-18	0
Site Commissioning (GPA - Point to point testing)	28-Aug-18	28-Aug-18	0
Issuance of Site Commissioning Completion Certificate	28-Aug-18	28-Aug-18	0
Site Acceptance Test (SAT)	3-Sep-18	3-Sep-18	0
- Advanced Applications	2-Sep-18	2-Sep-18	0
Investigation of variance / bug (SAT if any - Advanced Applications)	3-Sep-18	3-Sep-18	0
Issuance of Site Acceptance Certificate	3-Sep-18	3-Sep-18	0
Availability Test (AVT) - 1000hrs (42 Calendar Day, 28 working day)	1-Oct-18	1-Oct-18	0
Issuance of AVT Certificate	1-Oct-18	1-Oct-18	0
Handover of System to end customer	1-Oct-18	1-Oct-18	0
Commencement of warranty (12 months)	1-Oct-19	1-Oct-19	0
Issuance of Final Acceptance Certificates (FAC)	1-Oct-19	1-Oct-19	0

Phase I	\$	1,518,769.00		\$	1,518,769.00	5
Phase I	\$	1,518,769.00	\$ 250,537.38	\$	1,769,306.38	5

#### Legend:



No corrective action required



Near-term corrective action required



Requires immediate attention

8/22/2018

## GPWA SCADA EMS Project Bid No. GPA 066-16

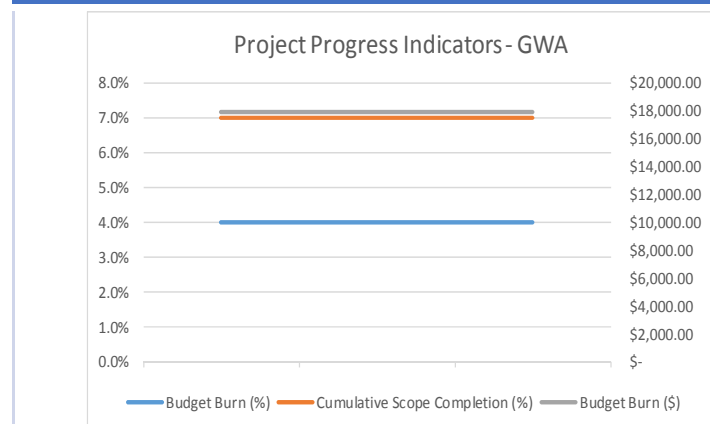
Project Director: Charles Wu  
Project Manager: Jonathan Chargualaf  
Contract Administrator: Monito Co



Overall Status				Resources		Risks & Issues	Schedule	Scope	Financial
						G	G	G	G
Burn Rate	This Month	Last Month	Incremental	1. Benson/Siemens 2. GPWA					
Scope (%)									
Budget (%)		13.2%							
Milestones Achieved		1, 3-11 of 18							

### Project Progress Indicators

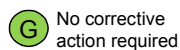
### Project Schedule & Budget Performance Indicators



Project Milestone	Planned Completion Date	To be updated	Performance (Days Over/Under)
		Actual Completion Date	
Contract Start Date	14-Dec-16	14-Dec-16	0
GPWA SCADA/EMS Project	1-Oct-18	1-Oct-18	0
Factory Activities (In Taiwan / Germany)	9-Jul-18	9-Jul-18	0
Approval of revised documentation	4-Dec-17	4-Dec-17	0
Preliminary Factory Acceptance Test (Pre-FAT) in Taiwan	2-May-18	2-May-18	0
- Base Applications	27-Apr-18	27-Apr-18	0
- Advanced Applications	2-May-18	2-May-18	0
Factory Acceptance Test (FAT) in Taiwan	10-Jun-18	10-Jun-18	0
- Advanced Applications	7-May-18	7-May-18	0
- Hardware delivery to Site	31-May-18	31-May-18	0
Site Activities (In Guam)	1-Oct-18	1-Oct-18	0
Site Commissioning (Point to point testing)	29-Aug-18	29-Aug-18	0
Site Commissioning (GPA - Point to point testing)	28-Aug-18	28-Aug-18	0
Issuance of Site Commissioning Completion Certificate	28-Aug-18	28-Aug-18	0
Site Acceptance Test (SAT)	3-Sep-18	3-Sep-18	0
- Advanced Applications	2-Sep-18	2-Sep-18	0
Investigation of variance / bug (SAT if any - Advanced Applications)	3-Sep-18	3-Sep-18	0
Issuance of Site Acceptance Certificate	3-Sep-18	3-Sep-18	0
Availability Test (AVT) - 1000hrs (42 Calendar Day, 28 working day)	1-Oct-18	1-Oct-18	0
Issuance of AVT Certificate	1-Oct-18	1-Oct-18	0
Handover of System to end customer	1-Oct-18	1-Oct-18	0
Commencement of warranty (12 months)	1-Oct-19	1-Oct-19	0
Issuance of Final Acceptance Certificates (FAC)	1-Oct-19	1-Oct-19	0

Phase I	\$ 432,705.00	\$ 432,705.00	5
	\$ 18,000.00	\$ 450,705.00	5

#### Legend:



No corrective action required



Near-term corrective action required



Requires immediate attention

8/22/2018

5

## GPWA SCADA EMS Project

### Bid No. GPA 066-16

Project Director: Charles Wu  
 Project Manager: Jonathan Chargualaf  
 Contract Administrator: Monito Co



Overall Status			G
Burn Rate	This Month	Last Month	
Scope (%)			
Budget (%)			
Milestones Achieved	1, 3-11 of 18		
1. Mobilization			
2. Project Management			
3. Permits, Bonds and Codes			
4. Project Installation Site Survey			
5. Interconnection and Integration Design			
6. Communications and Networking Design and Execution Plan			
7. Installation Design			
8. Software Cost, Procurement and Delivery			
9. Third Party Software Cost, Procurement and Delivery			
10. Software Installation			
11. Equipment Cost, Procurement and Delivery			
12. Construction, Equipment Installation and Interconnection			
13. Commissioning, Quality Assurance and Performance Testing			
14. Training			
15. Demobilization			
16. Warranty			
17. Documentation			
18. Annual Maintenance			

#### Legend:



No corrective action required



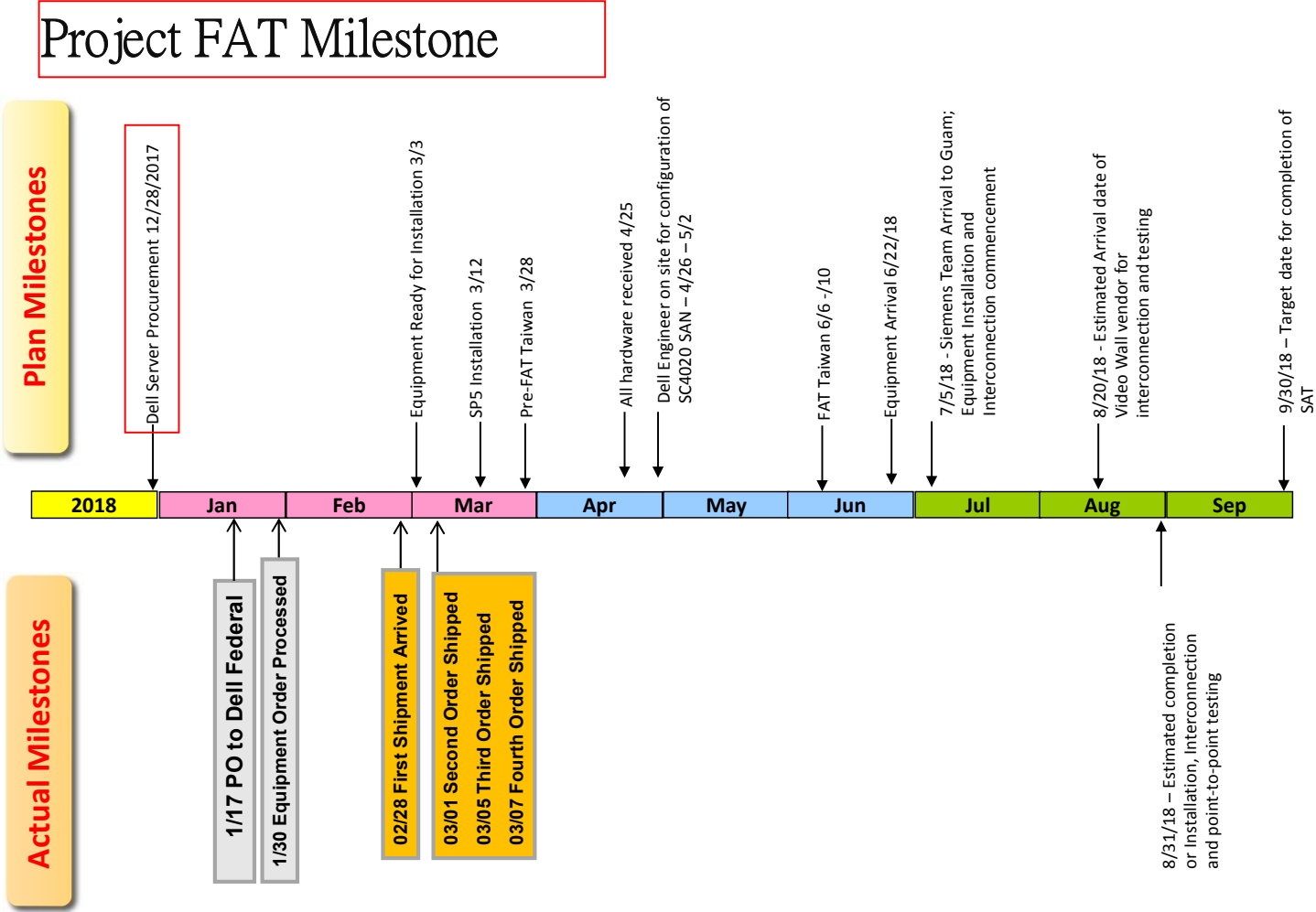
Near-term corrective action required



Requires immediate attention

8/22/201

8



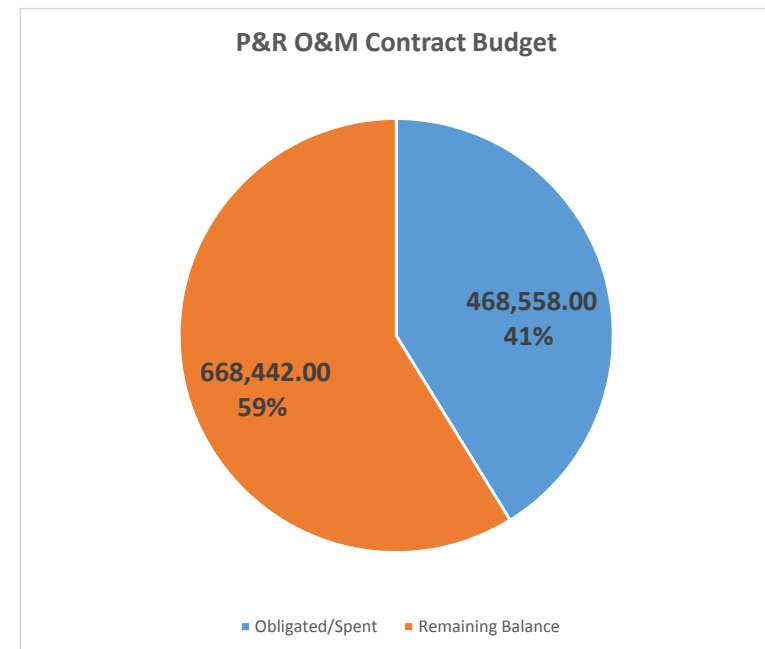
# Planning & Regulatory CCU Report

July 31, 2018



# Planning & Regulatory O&M Contract Budget

- Revenue Funded
- Target
  - 7.41% O&M Obligated by November 16, 2017
  - 19.28 O&M Obligated as of Nov. 30, 2017 (actual)
  - 19.36 O&M Obligated as of Dec. 31, 2017 (actual)
  - 25.60 O&M Obligated as of Apr. 30, 2018 (actual)
  - 36.72% O&M Obligation by June 30, 2018 (actual)
  - 41.21% O&M Obligation by July 31, 2018
  - 65% O&M Obligation by Aug. 30, 2018



## 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



## T&amp;D SPCC Inspection Report

SUMMARY OF SPCC INSPECTION REPORT  
MONTH OF JULY, 2018

## LEGEND OF TRACKING



Notification Date



Completed



Within Scheduled Remediation



Deadline is Past Due

## SUBSTATIONS

LOCATIONS	Findings		Recommendation/Remarks	Status	Responsible	Completion Date	Due Date	Initial Findings Date
DEDEDO SUBSTATION	Facility Area	NO CORRECTIVE ACTION						
DEDEDO SUBSTATION WAREHOUSE	OWS	Rainwater inside containment	Drain and clean				ASAP	May 2018
	Transformer Storage Area	Rainwater accumulation	Drain and clean				ASAP	July 2018
MACHECHE SUBSTATION	Facility Area	NO CORRECTIVE ACTION						
TALOFOFO SUBSTATION	Secondary Containment	Water accumulation	Drain and clean					July 2018
TENJO SUBSTATION	Facility Area	NO CORRECTIVE ACTION						
YIGO SUBSTATION	Facility Area	NO CORRECTIVE ACTION						

## Generation SPCC Inspection Report

SUMMARY OF SPCC INSPECTION REPORT

MONTH OF JULY, 2018

LEGEND OF TRACKING

Notification Date

Completed

Within Scheduled Remediation

Deadline is Past Due

POWER PLANT

Location	Findings		Recommendation/Remarks	Status	Responsible	Completion Date	Due Date	Initial Findings Date
CABRAS UNITS 1 & 2	Supply line 8" from tank farm	No secondary containment	Provide secondary containment. Regular monitoring				ASAP	November 2015
	Secondary Containment	Exposed/worn out insulation and corroded flanges on tank no.2	Repair	Repair ongoing			ASAP	July 2017
	Basement	Sign of oil leak and continuous water leak	Verify and repair	Repair ongoing			ASAP	July 2017
CABRAS UNITS 3 & 4	FODST Nos. 3&4 Secondary Containment	Metal and pipe debris in the area	Remove and clear area.	Ordered metal debris removal and Joven. Debris is OK for removal. No longer needed for insurance claim.				June 2016
	MOV	Broken wheel and corroded pipe	Repair/replace wheel and pipe				ASAP	March 2018
	Day Tank 3&4	Overgrown vegetation around tank seams on day tank 3&4	Remove vegetation				ASAP	February 2018
	Secondary Containment - sludge tank	Rainwater	Drain water and conduct cleanup				ASAP	February 2018
DEDED0 CT	OWS	Algae buildup	Remove algae				ASAP	July 2018
	Cooling Tower	Algae buildup in containment	Remove algae				ASAP	July 2018

## Generation SPCC Inspection Report (cont.)

SUMMARY OF SPCC INSPECTION REPORT

MONTH OF JULY, 2018

LEGEND OF TRACKING

Notification Date

Completed

Within Scheduled Remediation

Deadline is Past Due

POWER PLANT

Location	Findings		Recommendation/Remarks	Status	Responsible	Completion Date	Due Date	Initial Findings Date
MACHECHE CT	Facility Area	Corrosion at tanks T-130/140 (paint applied over rust only)	Remove rust and repaint				ASAP	October 2015
		Corroded tank support T-130/140 (paint applied over rust only)	Remove rust and repaint				ASAP	October 2015
		Rust buildup on seam and tank belly	Remove rust and paint,				ASAP	November 2015
		Oil leak observed in oil purifier room	Fix leak and conduct cleanup				ASAP	July 2018
		Housekeeping	Need to utilize drum storage area for drums found inside generator room				ASAP	July 2018
		Corroded tank shell, algae buildup on T-130/140	Remove rust and repaint, remove algae				ASAP	June 2018
		Corroded tank rivets/bolts (loose, missing) T-130/140	Replace				July 2018	May 2018
		Bubbled paint coating (cracked, damaged, faded) T130/140	Repaint				ASAP	June 2018
		Corroded tank roof on Tank-130/140	Conduct cleanup				ASAP	June 2018
YIGO CT	Facility Area	Fuel storage tank 140	Rust buildup on shell	Remove rust, re-paint				April 2018
MANENGGON DIESEL	Tank No. 3	Corroded tank shell	Chip and recoat				ASAP	April 2018
	Secondary Containment	Worn out sealant on the cracks on secondary containment	Replace sealant	Re-sealing is ongoing			ASAP	May 2017
		Algae and dried leaves accumulation in sec. containment	Conduct clean up				ASAP	November 2017
		Buckets with no covers are filled with oil in generator room	Transfer oil in used oil drum				ASAP	July 2018
		Oil spill in generator room	Conduct cleanup				ASAP	July 2018

## Generation SPCC Inspection Report (cont.)

SUMMARY OF SPCC INSPECTION REPORT

MONTH OF JULY, 2018

LEGEND OF TRACKING

Notification Date

Completed

Within Scheduled Remediation

Deadline is Past Due

POWER PLANT

Location	Findings		Recommendation/Remarks	Status	Responsible	Completion Date	Due Date	Initial Findings Date
TALOFOFO DIESEL	Facility Area	Loose fire suppressant wires on the tank	Secure wires				ASAP	June 2018
		Improper storage of drums	Drum 1 - transfer drum to storage area; Drum 2 - Remove drum on top of drain valve cover				ASAP	July 2018
TENJO DIESEL	Facility Area	Worn out gap seal on the secondary containment floor	Seal floor gaps				ASAP	August 2017
		Corroded tank shell on tank #2	Chip and recoat				ASAP	March 2018
		Oil spill in OWS sec. containment	Conduct cleanup				ASAP	July 2018
		Corroded supply pipe	Chip and recoat				ASAP	March 2018
		Oil spill and various used materials stored in work area	Schedule disposal of materials				ASAP	May 2018
		Improper storage of chemicals	Transfer in proper chemical storage				ASAP	May 2018
PITI #7	Main Fuel Tank, Day Tank # 1 & 2	No integrity test	Conduct integrity test				ASAP	January 2018
	Valve leaking bucket	Bucket is full of mixed water and oil	Verify and replace bucket				ASAP	July 2018





## GUAM POWER AUTHORITY

ATURIDAT ILEKTRESEDAT GUAHAN  
P O BOX 2977, AGANA, GUAM 96932-2977  
Telephone: (671) 648-3066 Fax: (671) 648-3168

### GUAM POWER AUTHORITY FINANCIAL STATEMENT OVERVIEW July 2018

Attached are the financial statements and supporting schedules for the month and fiscal year ended July 31, 2018.

#### Summary

The increase in net assets for the month ended was \$0.8 million as compared to the anticipated net increase of \$1.0 million projected at the beginning of the year. The total kWh sales for the month were 10.89% less than projected and non-fuel revenues were \$1.3 million less than the estimated amount. O & M expenses for the month were \$5.7 million which was \$0.7 million less than our projections for the month. Other expenses for the month such as interest expense, IPP costs, (net of interest income and other income) totaled to \$3.4 million, which was \$0.5 million less than the projected amounts. There were no other significant departures from the budget during the period.

#### Analysis

Description	Previous Month	Current Month	Target
Quick Ratio	2.34	2.48	2
Days in Receivables	45	39	52
Days in Payables	35	29	30
LEAC (Over)/Under Recovery Balance -YTD	\$8,904,873	\$8,422,674	\$9,142,210
T&D Losses	4.99%	5.03%	<7.00%
Debt Service Coverage	1.80	1.80	1.75
Long-term equity ratio	17%	17%	30 – 40%
Days in Cash	185	172	60

The Quick Ratio has been a challenge for GPA historically. However, over the last two fiscal years, the influx of cash from insurance proceeds continued to improve this ratio. GPA has current obligations of approximately \$73 million and approximately \$181 million in cash and current receivables. Debt Service Coverage ratio is calculated using the methodology in use before the Fiscal Year 2002 change in accounting practice.

**Financial Statements  
July 2018**

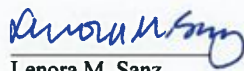
---

**Significant Assumptions**

The significant assumptions in the financial statements are as follows:

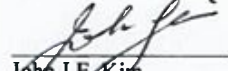
- Accrual cutoff procedures were performed at month end
- An inventory valuation is performed at year-end only
- Accounts Receivable includes accruals based on prior months' usage.

Prepared by:



Lenora M. Sanz  
Controller

Reviewed by:



John J.E. Kim  
Chief Financial Officer

Approved by:



John M. Benavente, P.E.  
General Manager

GUAM POWER AUTHORITY (A COMPONENT UNIT OF THE GOVERNMENT OF GUAM) Statements of Net Position July 31, 2018 and September 30, 2017			
	Unaudited July 2018	Audited September 2017	Change from Sept 30 2017
<b>ASSETS AND DEFERRED OUTFLOWS OF RESOURCES</b>			
<b>Current assets:</b>			
Cash and cash equivalents:			
Held by trustee for restricted purposes:			
Interest and principal funds	12,824,898	18,061,879	(5,236,981)
Bond indenture funds	50,976,310	56,907,535	(5,931,225)
Held by Guam Power Authority:			
Bond indenture funds	140,713,203	132,579,889	8,133,314
Self insurance fund-restricted	19,257,186	19,251,372	5,814
Energy sense fund	1,279,123	1,074,491	204,632
Total cash and cash equivalents	225,050,720	227,875,166	(2,824,446)
Accounts receivable, net	37,457,520	77,826,132	(40,368,612)
Total current receivables	37,457,520	77,826,132	(40,368,612)
Materials and supplies inventory	12,920,837	11,989,745	931,092
Fuel inventory	55,977,110	52,387,369	3,589,741
Prepaid expenses	2,908,264	629,586	2,278,678
Total current assets	334,314,451	370,707,998	(36,393,547)
Utility plant, at cost:			
Electric plant in service	1,047,252,881	1,038,121,382	9,131,519
Construction work in progress	35,549,932	18,480,173	17,069,759
Total	1,082,802,813	1,056,601,535	26,201,278
Less: Accumulated depreciation	(592,655,919)	(561,829,334)	(30,826,585)
Total utility plant	490,146,894	494,772,201	(4,625,307)
Other non-current assets:			
Investment - bond reserve funds held by trustee	48,530,594	48,576,863	(46,269)
Unamortized debt issuance costs	2,550,782	4,267,305	(1,716,523)
Total other non-current assets	51,081,376	52,844,168	(1,762,792)
Total assets	875,542,721	918,324,367	(42,781,646)
<b>Deferred outflow of resources:</b>			
Deferred fuel revenue	8,422,674	16,751,048	(8,328,374)
Unamortized loss on debt refunding	27,551,988	11,076,064	16,475,904
Pension	8,698,853	8,698,853	0
Unamortized forward delivery contract costs	504,558	637,358	(132,800)
Total deferred outflows of resources	45,178,053	37,163,323	8,014,730
	920,720,774	955,487,690	(34,766,916)

GUAM POWER AUTHORITY (A COMPONENT UNIT OF THE GOVERNMENT OF GUAM) Statement of Net Position, Continued July 31, 2018 and September 30, 2017			
	Unaudited July 2018	Audited September 2017	Change from Sept 30 2017
<b>LIABILITIES, DEFERRED INFLOWS OF RESOURCES AND NET POSITION</b>			
<b>Current liabilities:</b>			
Current maturities of long-term debt	1,630,000	1,780,000	(150,000)
Current obligations under capital leases	15,319,211	23,330,193	(8,010,982)
Accounts payable			
Operations	31,895,486	56,723,139	(24,827,653)
Others	3,364,031	7,597,801	(4,233,770)
Accrued payroll and employees' benefits	1,196,816	1,546,860	(350,044)
Current portion of employees' annual leave	2,083,469	2,045,201	38,268
Interest payable	10,014,069	15,065,830	(5,051,761)
Customer deposits	7,273,181	8,209,228	(936,047)
<b>Total current liabilities</b>	<b>72,776,263</b>	<b>116,298,252</b>	<b>(43,521,989)</b>
<b>Regulatory liabilities:</b>			
Provision for self insurance	19,550,977	19,550,977	0
<b>Total regulatory liabilities</b>	<b>19,550,977</b>	<b>19,550,977</b>	<b>0</b>
<b>Long term debt, net of current maturities</b>	<b>605,377,535</b>	<b>590,568,862</b>	<b>14,808,673</b>
Obligations under capital leases, net of current portion	13,290,216	24,428,832	(11,138,616)
Net Pension liability	82,249,297	85,875,217	(3,625,920)
DCRS sick leave liability	4,008,397	4,008,397	0
Employees' annual leave net of current portion	1,086,456	1,086,456	0
Customer advances for construction	385,293	369,180	16,113
<b>Total liabilities</b>	<b>798,724,435</b>	<b>842,186,173</b>	<b>(43,461,738)</b>
<b>Deferred inflows of resources:</b>			
Unearned forward delivery contract revenue	1,849,389	2,336,071	(486,682)
Pension	788,894	788,894	0
<b>Total deferred inflows of resources</b>	<b>2,638,283</b>	<b>3,124,965</b>	<b>(486,682)</b>
<b>Commitments and contingencies</b>			
<b>Net Position:</b>			
Net investment in capital assets	(46,348,458)	(40,220,468)	(6,127,990)
Restricted	29,346,314	15,232,832	14,113,482
Unrestricted	136,360,199	135,164,187	1,196,012
<b>Total net position</b>	<b>119,358,055</b>	<b>110,176,552</b>	<b>9,181,503</b>
	<b>920,720,774</b>	<b>955,487,690</b>	<b>(34,766,916)</b>



GUAM POWER AUTHORITY (A COMPONENT UNIT OF THE GOVERNMENT OF GUAM) Statement of Revenues, Expenses and Changes in Net Assets						
	July 31		% of change Inc (dec)	Ten Months Ended July 31		% of change Inc (dec)
	Unaudited 2018	Audited 2017		Unaudited 2018	Audited 2017	
<b>Revenues</b>						
Sales of electricity	32,903,643	29,326,087	12	314,587,560	270,112,810	16
Miscellaneous	308,251	211,937	45	1,808,644	1,847,933	(2)
Total	33,211,894	29,538,024	12	316,396,204	271,960,743	16
Bad debt expense	(86,583)	(103,532)	(16)	(865,833)	(893,930)	(3)
Total revenues	33,125,311	29,434,492	13	315,530,371	271,066,813	16
<b>Operating and maintenance expenses</b>						
Production fuel	19,457,438	15,175,139	28	179,331,515	133,582,176	34
Other production	1,425,830	1,539,270	(7)	14,024,616	12,487,432	12
	20,883,268	16,714,409	25	193,356,131	146,069,608	32
Depreciation	3,479,274	3,526,137	(1)	32,174,360	39,741,207	(19)
Energy conversion cost	1,325,326	1,751,588	(24)	14,759,986	16,375,468	(10)
Transmission & distribution	1,128,694	925,682	22	10,805,873	9,704,842	11
Customer accounting	442,536	459,293	(4)	4,381,963	3,409,093	29
Administrative & general	2,713,341	2,356,791	15	25,518,839	20,967,363	22
Total operating and maintenance expenses	29,972,439	25,733,900	16	280,997,152	236,267,581	19
Operating income	3,152,872	3,700,592	(15)	34,533,219	34,799,232	(1)
<b>Other income (expenses)</b>						
Interest income	317,765	147,271	116	2,363,398	1,209,044	95
Interest expense and amortization	(2,553,542)	(2,796,910)	(9)	(26,582,184)	(28,316,956)	(6)
Bond issuance costs	67,464	76,827	(12)	(1,844,201)	768,270	(340)
Assets written off	0	0		0	0	
Allowance for funds used during construction	128,957	294,990	(56)	1,439,407	3,129,480	(54)
Other expense	(300,336)	(4,291)	0	(830,810)	(535,363)	55
Total other income (expenses)	(2,339,692)	(2,282,113)	3	(25,454,390)	(23,745,525)	7
Income (loss) before capital contributions	813,180	1,418,479	(43)	9,078,829	11,053,707	(18)
Capital contributions	0	4,884	0	102,672	43,306	137
Increase (decrease) in net assets	813,180	1,423,363	(43)	9,181,501	11,097,013	(17)
Total net assets at beginning of period (restated)	118,544,878	71,496,480	66	110,176,557	61,822,830	78
Total net assets at end of period	119,358,058	72,919,843	64	119,358,058	72,919,843	64

**GUAM POWER AUTHORITY**  
**(A COMPONENT UNIT OF THE GOVERNMENT OF GUAM)**  
**Statements of Cash Flows**  
**Period Ended July 31, 2018**

	Month Ending 7/31/2018	YTD Ending 7/31/2018
<b>Increase(decrease) in cash and cash equivalents</b>		
Cash flows from operating activities:		
Cash received from customers	(\$3,304,810)	\$ 313,935,339
Cash payments to suppliers and employees for goods and services	<u>30,002,896</u>	<u>299,086,586</u>
Net cash provided by operating activities	\$8,536,636	14,848,753
Cash flows from investing activities:		
Interest and dividends on investments and bank accounts	<u>317,765</u>	<u>2,363,398</u>
Net cash provided by investing activities	317,765	2,363,398
Cash flows from non-capital financing activities		
Proceeds from Cabras 3&4 insurance claims	-	41,844,342
Interest paid on short term debt	(8,904)	(67,084)
Provision for self insurance funds	<u>(593)</u>	<u>(5,814)</u>
Net cash provided by noncapital financing activities	(9,497)	41,771,444
Cash flows from capital and related financing activities		
Acquisition of utility plant	(14,322,559)	(27,549,050)
Principal paid on bonds and other long-term debt	-	(3,550,000)
Interest paid on bonds(net of capitalized interest)	128,957	(27,337,879)
Interest paid on capital lease obligations	(211,396)	(2,789,575)
Interest & principal funds held by trustee	(2,484,412)	5,236,981
Reserve funds held by trustee	(34,366)	46,269
Bond funds held by trustee	459,841	5,931,225
Principal payment on capital lease obligations	(1,932,700)	(19,149,597)
Grant from DOI/FEMA	-	102,672
Debt issuance costs/loss on defeasance	(333,577)	18,208,673
Net cash provided by (used in) capital and related financing activities	<u>(18,730,212)</u>	<u>(50,850,281)</u>
Net (decrease) increase in cash and cash equivalents	(9,885,308.45)	8,133,314
Cash and cash equivalents, beginning	<u>150,598,511</u>	<u>132,579,889</u>
<b>Cash and cash equivalents-Funds held by GPA, July 31, 2018</b>	<b>\$ 140,713,203</b>	<b>\$ 140,713,203</b>

GUAM POWER AUTHORITY (A COMPONENT UNIT OF THE GOVERNMENT OF GUAM) Statements of Cash Flows, continued Period Ended July 31, 2018		
	Month Ending 7/31/2018	YTD Ending 7/31/2018
<b>Reconciliation of operating earnings to net cash provided by operating activities:</b>		
Operating earnings net of depreciation expense and excluding interest income	\$3,152,872	\$34,533,219
Adjustments to reconcile operating earnings to net cash provided by operating activities:		
Depreciation and amortization	3,479,274	32,174,360
Other expense	(232,872)	(2,675,011)
(Increase) decrease in assets:		
Accounts receivable	5,407,363	(1,475,730)
Materials and inventory	(109,365)	(931,092)
Fuel inventory	5,850,975	(3,589,741)
Prepaid expenses	959,455	(2,278,678)
Unamortized debt issuance cost	23,667	1,716,523
Deferred fuel revenue	482,199	8,328,374
Unamortized loss on debt refunding	229,166	(16,475,904)
Unamortized forward delivery contract costs	13,280	132,800
Increase (decrease) in liabilities:		
Accounts payable-operations	(9,817,426)	(24,827,653)
Accounts payable-others	312,613	(4,438,402)
Accrued payroll and employees' benefits	350,007	(350,044)
Net pension liability	(316,862)	(3,625,920)
Employees' annual leave	(81,800)	38,268
Customers deposits	(1,117,241)	(936,047)
Customer advances for construction	-	16,113
Unearned forward delivery contract revenue	(48,669)	(486,682)
<b>Net cash provided by operating activities</b>	<b>\$8,536,636</b>	<b>\$ 14,848,753</b>



Guam Power Authority  
Financial Analysis  
7/31/2018

**Quick Ratio**

A	Reserve Funds Held by GPA	140,713,203
B	Current Accounts Receivable	40,102,688
C	Total Cash and A/R (A+B)	180,815,891
D	Total Current Liabilities	72,776,263
E	Quick Ratio (F/G)	2.48

**Days in Receivables**

A	FY 18 Moving 12 Mos.-Actual	375,548,803
B	No. of Days	365
C	Average Revenues per day (A/B)	1,028,901
D	Current Accounts Receivable	40,102,688
E	Days in Receivables (D/C)	39

**Days in Payables**

A	FY 18 Moving 12 Months-Actual	446,017,577
B	No. of Days	365
C	Average Payables per day (A/B)	1,221,966
D	Current Accounts Payables	35,259,517
E	Days in Payables (D/C)	29

**Long term equity ratio**

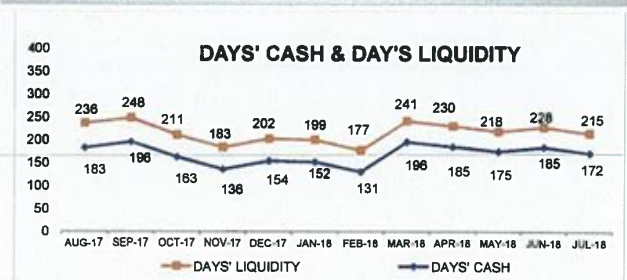
A	Equity	\$ 119,358,055.05
B	Total Long term Liability	\$ 584,275,539.95
C	Total Equity and Liability	\$ 703,633,595.00
D	Long term equity ratio (A/C)	17%

**Days cash on hand**

A	Unrestricted cash & cash equivalents	140,713
B	No. of Days -YTD	304
C	A x B	42,776,814
D	Total Operating expenses excluding depreci	248,823
E	Days cash on hand	172

**Days' Liquidity**

A	Unrestricted cash , cash equivalents & revo	175,713
B	No. of Days -YTD	304
C	A x B	53,416,814
D	Total Operating expenses excluding depreci	248,823
E	Days liquidity	215





GPA 302  
13-Aug-18GUAM POWER AUTHORITY  
ACCRUED REVENUE  
JULY 2018

		FOR THE MONTH ENDED JULY		TEN MONTHS ENDED JULY	
		2018	2017	2018	2017
<b>KWH SALES:</b>					
Residential		41,361,122	45,094,364	418,390,923	420,409,867
Small Gen. Non Demand		6,743,157	7,087,373	68,553,439	69,530,168
Small Gen. Demand		15,161,889	15,839,125	155,303,386	158,053,260
Large General		25,339,577	27,119,633	259,070,026	262,103,184
Independent Power Producer		30,088	82,800	419,755	869,484
Private St. Lights		34,288	35,412	334,612	382,552
	Sub-total	88,669,920	95,258,706	902,072,142	911,348,514
<b>Government Service:</b>					
Small Non Demand		1,128,046	1,254,979	12,031,467	11,412,652
Small Demand		7,182,975	7,962,644	78,222,446	80,646,847
Large		5,707,305	6,219,351	62,597,150	61,883,821
Street Lighting		903,135	638,971	7,468,888	7,940,475
	Sub-total	14,921,461	16,075,944	160,319,952	161,883,795
	Total	103,591,381	111,334,651	1,062,392,094	1,073,232,309
U. S. Navy		25,089,942	27,892,205	258,377,165	265,070,860
	GRAND TOTAL	128,681,323	139,226,856	1,320,769,259	1,338,303,169
<b>REVENUE:</b>					
Residential		10,379,963	9,056,344	98,516,278	81,951,847
Small Gen. Non Demand		1,975,429	1,709,931	18,922,871	16,354,075
Small Gen. Demand		4,181,623	3,527,191	40,168,823	34,413,087
Large General		6,510,707	5,589,484	62,321,065	52,506,462
Independent Power Producer		9,619	17,270	100,794	179,151
Private St. Lights		26,302	25,099	256,458	256,503
	Sub-total	23,083,643	19,925,320	220,286,289	185,681,124
<b>Government Service:</b>					
Small Non Demand		343,795	319,135	3,455,544	2,847,605
Small Demand		2,081,391	1,907,628	21,222,070	18,727,533
Large		1,609,173	1,424,292	16,438,532	13,830,841
Street Lighting		568,447	418,012	4,580,813	4,485,840
	Sub-total	4,602,806	4,069,066	45,696,960	39,891,819
	Total	27,686,449	23,994,386	265,983,249	225,552,943
U. S. Navy		5,217,194	5,331,702	48,604,311	44,559,869
	GRAND TOTAL	32,903,643	29,326,087	314,587,559	270,112,812
<b>NUMBER OF CUSTOMERS:</b>					
Residential		44,003	43,866	44,018	43,712
Small Gen. Non Demand		4,183	4,131	4,155	4,127
Small Gen. Demand		982	984	985	988
Large General		119	116	119	116
Independent Power Producer		2	3	3	4
Private St. Lights		531	526	530	525
	Sub-total	49,820	49,626	49,809	49,471
<b>Government Service:</b>					
Small Non Demand		690	678	686	682
Small Demand		351	352	351	347
Large		47	45	47	45
Street Lighting		612	297	463	245
	Sub-total	1,700	1,372	1,547	1,319
	Total	51,520	50,998	51,356	50,790
US Navy		1	1	1	1
		51,521	50,999	51,357	50,791

GPA Work Session - August 23, 2018 - DIVISION REPORTS

GPA03 13-Aug-18		GUAM POWER AUTHORITY ACCURED REVENUE												
		TIME/VE MONTHS ENDING	July 2018	June 2018	May 2018	APRIL 2018	MARCH 2018	FEBRUARY 2018	JANUARY 2018	DECEMBER 2017	NOVEMBER 2017	OCTOBER 2017	SEPTEMBER 2017	AUGUST 2017
KWH SALES:														
Residential:		504,316,658	41,391,122	42,056,321	44,732,019	41,394,961	41,641,324	36,899,615	42,087,765	43,307,944	43,386,853	41,682,000	41,491,015	44,434,719
Small General Non Demand		82,922,971	6,743,137	6,844,316	7,216,644	6,844,365	6,976,607	6,164,115	6,944,713	6,966,278	7,060,041	7,067,142	7,022,092	7,347,444
Small General Demand		187,201,061	16,181,689	15,360,000	16,316,988	15,390,268	15,917,268	14,917,119	15,962,774	15,789,397	15,789,397	15,509,408	15,509,408	16,488,257
Large General		311,540,074	25,339,577	25,283,128	26,377,222	25,861,619	26,165,199	23,674,407	26,242,185	27,465,887	26,242,185	26,592,147	25,432,034	27,058,013
Private Outdoor Lighting		444,466	34,268	31,088	34,128	27,351	32,781	32,408	32,358	33,129	33,324	33,651	33,324	33,324
Independent Power Producer		512,054	30,068	25,238	28,295	27,405	28,538	28,976	27,011	28,976	28,976	28,976	28,976	28,976
Sub-Total		1,087,037,316	88,669,520	89,562,394	94,733,344	89,216,169	90,652,285	80,864,040	90,776,505	93,673,863	92,632,817	91,250,505	92,244	95,399,806
Government Service:														
Small Non Demand		14,521,060	1,128,046	1,157,839	1,224,288	1,180,911	1,193,794	1,119,571	1,246,251	1,272,026	1,255,131	1,251,612	1,246,106	1,243,487
Small Demand		54,484,200	7,162,875	7,404,715	8,096,401	7,720,650	7,889,205	7,377,578	8,102,981	8,063,549	8,098,974	8,283,218	8,146,386	8,147,386
Large		75,611,288	5,707,385	5,896,148	6,322,597	6,142,309	6,226,210	5,905,830	6,316,619	6,312,255	6,316,619	6,418,254	6,418,254	6,520,699
Street Lighting (Agencies)		903,135	785,661	785,661	785,661	785,661	785,661	785,661	785,661	785,661	785,661	785,661	785,661	785,661
Sub-Total		183,628,579	14,921,461	15,254,364	16,707,185	15,743,671	16,052,709	15,072,689	16,382,918	16,546,750	16,573,193	16,576,033	16,520,925	16,785,702
Total		1,280,666,895	103,591,381	104,835,757	111,460,529	104,959,840	106,704,974	95,936,708	107,159,724	110,219,633	109,206,010	108,016,537	108,068,591	112,188,210
U.S. Navy		311,892,206	25,089,942	24,891,007	25,624,376	25,605,624	25,988,485	23,304,608	26,722,147	26,087,673	26,087,683	25,245,420	26,906,320	28,068,727
Grand Total		1,592,559,101	128,681,323	129,727,764	138,084,906	130,565,464	132,693,459	119,241,316	133,887,870	136,297,306	136,043,893	133,261,957	132,992,911	138,796,530
REVENUE:														
Residential:														
Small General Non Demand		117,196,408	10,379,863	10,467,819	11,371,498	10,082,308	10,154,660	9,533,432	9,896,179	9,238,911	9,263,463	8,919,044	8,867,320	9,785,810
Small General Demand		22,609,528	1,875,429	1,963,254	2,127,583	1,903,541	1,988,097	1,469,658	1,741,922	1,765,223	1,789,263	1,792,861	1,783,997	1,902,660
Large General		47,825,253	4,181,623	4,150,658	4,513,787	4,108,079	4,266,730	3,764,258	3,764,258	3,764,258	3,764,258	3,764,258	3,764,258	3,764,258
Private Outdoor Lighting		73,992,663	6,533,909	6,510,707	6,739,955	6,399,879	6,566,863	6,066,868	5,763,313	5,763,313	5,763,313	5,801,375	5,843,069	6,029,535
Independent Power Producer		306,912	26,302	27,542	28,776	22,912	25,785	25,733	25,733	25,553	25,471	25,250	25,361	25,094
Sub-Total		132,674	9,619	6,801	7,068	7,068	7,406	7,793	8,029	8,489	8,053	19,744	19,077	21,880
Government Service:														
Small Non Demand		282,033,439	23,083,643	23,175,623	24,446,648	22,523,776	23,008,362	21,630,426	20,234,834	20,870,091	20,891,366	20,316,320	20,049,076	14,908,005
Small Demand		4,120,946	343,795	354,533	372,707	350,949	356,541	335,126	332,434	341,017	334,963	333,478	333,079	332,326
Large		25,324,616	2,081,391	2,159,463	2,322,025	2,164,565	2,224,973	2,094,420	2,015,922	2,046,340	2,043,720	2,087,443	2,080,292	2,092,635
Street Lighting (Agencies)		19,587,057	1,609,173	1,667,786	1,840,727	1,678,200	1,707,288	1,628,637	1,628,637	1,628,637	1,628,637	1,628,637	1,628,637	1,575,906
Sub-Total		5,533,869	568,447	477,183	477,272	482,952	485,729	439,858	421,462	416,951	416,951	445,451	439,606	516,040
Total		54,556,286	4,602,006	4,653,966	5,013,801	4,644,877	4,744,672	4,487,638	4,302,609	4,302,609	4,302,609	4,359,027	4,356,246	4,414,070
U.S. Navy		316,590,728	27,685,449	27,834,788	29,459,448	27,188,463	27,752,674	26,128,066	24,531,463	24,531,463	24,531,463	24,709,127	24,444,346	26,172,133
Grand Total		56,949,076	5,217,194	4,619,042	5,005,585	5,023,411	5,202,943	4,185,974	5,033,103	4,942,130	4,942,065	4,851,853	5,325,383	5,019,382
NUMBER OF CUSTOMERS:														
Residential:														
Small General Non Demand		44,011	44,003	44,074	44,066	43,991	44,065	43,995	44,119	43,898	43,986	43,960	43,991	43,969
Small General Demand		4,151	4,183	4,173	4,172	4,183	4,184	4,153	4,142	4,129	4,131	4,134	4,127	4,134
Large General		984	982	984	988	988	987	991	981	981	982	982	980	981
Private Outdoor Lighting		118	119	119	119	119	118	118	118	118	117	119	116	115
Independent Power Producer		529	531	532	533	536	526	527	527	530	527	530	526	527
Sub-Total		3	2	2	2	2	2	2	2	3	3	3	3	3
Government Service:														
Small Non Demand		49,797	49,820	49,864	49,900	49,819	49,853	49,786	49,890	49,659	49,766	49,718	49,743	49,729
Small Demand		684	690	694	691	692	689	684	686	679	678	676	675	678
Large		351	351	351	350	350	350	351	350	350	354	351	353	353
Street Lighting (Agencies)		47	47	47	47	47	47	47	47	47	47	46	46	46
Sub-Total		1,517	1,700	1,651	1,614	1,602	1,565	1,503	1,454	1,454	1,457	1,450	1,370	1,371
Total		51,314	51,520	51,535	51,514	51,421	51,418	51,289	51,389	51,113	51,213	51,168	51,113	51,100
U.S. Navy		1	1	1	1	1	1	1	1	1	1	1	1	1
Grand Total		51,315	51,521	51,536	51,515	51,422	51,419	51,290	51,363	51,114	51,214	51,169	51,114	51,101

GPA303

**GUAM POWER AUTHORITY  
ACCURED REVENUE  
JULY 2017**

RATE	NUMBER OF CUSTOMERS	KWH SALES	TOTAL REVENUE		BASE RATE REVENUE		AVERAGE PER CUSTOMER		NON-FUEL		FUEL	
			AMOUNT	CRKWH	AMOUNT	CRKWH	REVENUE	KWH	AMOUNT	CRKWH	AMOUNT	CRKWH
Month												
R Residential	44,003	41,361,122	10,379,983	25.10	10,379,983	25.10	940	236	4,000,341	15,424	6,378,622	15,424
G Small Gen. Non Demand	4,183	6,743,157	1,975,429	29.30	1,975,429	29.30	1,612	472	9,871	13,871	1,040,078	15,424
J Small Gen. Demand	982	15,161,689	4,161,623	27.58	4,161,623	27.58	4,258	472	13,871	13,871	1,040,078	15,424
P Large General	119	25,339,577	6,510,707	25.69	6,510,707	25.69	212,838	54,712	2,818,565	10,339	3,892,141	15,424
I Independent Power Producer	2	30,088	9,618	31.97	9,618	31.97	15,044	4,809	17,105	14,863	4,472	15,424
H Private St. Lights	531	34,288	26,302	76.71	26,302	76.71	65	50	61,265	21,013	5,289	15,424
Sub-Total	49,820	88,669,920	23,063,643	26.03	23,063,643	26.03	1,780	463	10,609	10,609	13,659,337	15,424
Government Service:												
S Small Non Demand	690	1,128,046	343,795	30.48	343,795	30.48	1,635	498	15,059	15,059	173,982	15,424
K Small Demand	351	7,182,975	2,081,391	28.98	2,081,391	28.98	20,464	5,930	13,525	13,525	1,107,816	15,424
L Large	47	5,707,305	1,609,173	28.19	1,609,173	28.19	121,432	34,238	740,250	12,870	888,823	15,424
F Street Lighting (Agencies)	612	903,135	569,447	62.94	569,447	62.94	1,476	928	425,146	47,517	139,301	15,424
Sub-Total	1,700	14,921,461	4,602,806	30.85	4,602,806	30.85	8,777	2,011	2,312,674	15,424	2,280,132	15,424
U.S. Navy	51,520	103,591,381	27,686,449	26.73	27,686,449	26.73	537	537	11,736,980	11,3024	15,949,489	15,424
Sub-Total	1	25,089,942	5,217,194	20.76	5,217,194	20.76	2,488	639	13,446,204	10,4462	19,457,438	15,1208
TOTAL	51,521	128,681,323	32,903,643	25.57	32,903,643	25.57						
Ten Months Ended July 2018												
R Residential	44,018	418,390,923	98,516,278	23.55	98,516,278	23.55	9,505	2,238	40,246,967	13,9270	58,269,310	13,9270
G Small Gen. Non Demand	4,155	88,553,439	18,922,871	27.60	18,922,871	27.60	16,487	4,554	9,372,976	13,9306	9,549,895	13,9306
J Small Gen. Demand	985	155,303,368	40,168,823	25.86	40,168,823	25.86	157,732	40,797	18,585,284	13,8912	21,573,539	13,8912
P Large General	119	259,070,028	62,321,065	24.06	62,321,065	24.06	2,144,402	525,773	26,851,829	10,3647	35,469,236	13,8910
I Independent Power Producer	3	419,755	100,794	24.01	100,794	24.01	144,743	34,757	11,3770	12,6356	53,039	12,6356
H Private St. Lights	530	334,612	256,458	76.64	256,458	76.64	631	484	210,475	13,7422	45,883	13,7422
Sub-Total	48,809	902,072,142	220,286,289	24.42	220,286,289	24.42	18,111	4,423	95,325,287	10,5874	124,961,002	13,8527
Government Service:												
S Small Non Demand	684	12,031,467	3,455,544	28.72	3,455,544	28.72	17,561	5,050	15,0250	15,0250	1,647,819	13,6659
K Small Demand	351	78,222,446	21,222,070	27.13	21,222,070	27.13	222,658	60,462	10,506,055	13,4310	10,716,015	13,6994
L Large	47	62,567,150	16,438,532	26.26	16,438,532	26.26	1,343,767	352,884	7,867,732	12,7286	8,470,800	13,5322
F Street Lighting (Agencies)	436	7,468,888	4,590,813	61.33	4,590,813	61.33	17,150	10,519	3,549,287	47,5210	1,031,526	13,8110
Sub-Total	1,517	160,318,952	45,896,960	28.50	45,896,960	28.50	105,653	30,115	23,830,800	13,8391	21,866,160	13,8391
U.S. Navy	51,327	1,082,392,084	265,993,248	25.04	265,993,248	25.04	20,689	5,182	119,156,087	13,8204	146,827,162	13,8204
Sub-Total	1	256,377,165	48,604,311	18.81	48,604,311	18.81	25,732	6,129	16,099,964	6,2312	32,504,347	12,5902
TOTAL	51,328	1,320,789,259	314,587,559	23.82	314,587,559	23.82			135,256,051	10,2407	179,331,508	13,5778
Twelve Months Ended July 2018												
R Residential	44,011	504,316,659	117,166,408	23.23	117,166,408	23.23	11,459	2,662	48,505,618	13,6146	68,660,590	13,6146
G Small Gen. Non Demand	4,151	82,922,871	22,608,528	27.27	22,608,528	27.27	19,975	5,446	11,323,581	13,6102	11,285,987	13,6102
J Small Gen. Demand	984	187,301,051	47,825,253	25.53	47,825,253	25.53	190,363	48,607	22,403,851	13,5725	25,421,402	13,5725
P Large General	118	311,540,074	73,992,663	23.75	73,992,663	23.75	2,838,307	628,614	32,346,228	13,3679	41,646,435	13,3679
I Independent Power Producer	3	512,094	132,874	25.81	132,874	25.81	178,584	45,790	12,5651	13,3431	68,329	13,3431
H Private St. Lights	529	444,468	306,912	69.05	306,912	69.05	840	580	252,935	12,1443	53,877	12,1443
Sub-Total	48,797	1,087,037,316	262,033,459	24.11	262,033,459	24.11	21,629	5,262	114,886,738	13,5356	147,136,701	13,5356
Government Service:												
S Small Non Demand	684	14,521,060	4,120,948	28.38	4,120,948	28.38	21,219	6,022	2,180,059	15,0131	1,940,888	13,3660
K Small Demand	351	94,454,200	25,324,616	26.81	25,324,616	26.81	289,100	72,150	12,697,631	13,3682	12,626,785	13,3682
L Large	47	7,511,286	19,587,057	25.90	19,587,057	25.90	1,623,141	420,473	9,602,730	12,7001	9,984,326	13,2048
F Street Lighting (Agencies)	436	9,043,021	5,533,669	61.19	5,533,669	61.19	20,765	12,706	4,316,639	13,4560	1,216,830	13,4560
Sub-Total	1,517	183,829,579	54,566,288	28.18	54,566,288	28.18	127,605	35,960	28,797,459	14,8724	33,083	13,3083
U.S. Navy	51,314	1,280,666,895	316,596,728	24.72	316,596,728	24.72	24,957	41,222	11,2203	143,694,187	172,905,530	13,5012
Sub-Total	1	311,892,206	58,946,076	18.90	58,946,076	18.90	31,035	7,316	18,680,482	6,3100	39,268,583	12,5804
TOTAL	51,315	1,592,559,101	375,548,803	23.58	375,548,803	23.58			163,374,698	10,2586	212,174,114	13,3228

GPA-318  
31Jul18

ENERGY ACCOUNT  
FY 2018 Versus FY 2017

FOR INTERNAL USE ONLY

Gross Generation Number of days in Period Peak demand Date	July 2018		July 2017		YTD 2018		YTD 2017		MOVING TWELVE MONTHS	
	KWH	% change	KWH	% change	KWH	% change	KWH	% change	KWH	% change
Energy Account:										
Kilowatt hours GPA:										
Cabrus 1 & 2	44,590,000		40,003,000		544,441,000		624,349,000		615,085,000	
Cabrus No. 3	0		0		0		0		0	
Cabrus No. 4	0		0		0		0		0	
MEC (ENRON) Pkt 8 (IPP)	27,134,300		24,376,400		267,891,400		261,987,200		325,537,900	
MEC (ENRON) Pkt 9 (IPP)	24,960,900		29,047,100		273,050,200		251,300,300		329,812,200	
TEMES Pkt 7 (IPP)	6,556,185		8,613,974		23,175,648		25,716,301		44,440,715	
Tanguisson 2	0		0		0		0		0	
Tanguisson 1	0		0		0		0		0	
Diesel/CT's & Others:										
MDI 10MW	16,756		0		971,636		2,244,937		984,326	
NRC Solar Dandan	3,216,552		3,514,247		39,687,744		35,410,781		47,467,765	
Dedeolo CT #1	585,620		1,125,760		7,223,220		1,780,740		12,565,780	
Dedeolo CT #2	1,016,520		1,264,600		7,067,930		2,886,382		10,014,140	
Macheche CT	4,305,002		7,016,044		45,356,134		39,488,332		61,435,358	
Yigo CT (Leased)	5,806,500		6,165,242		39,009,900		29,908,466		50,477,381	
Tenjo	3,015,110		4,404,660		38,375,730		34,166,030		49,667,180	
Talofalo 10 MW	493,350		2,473,110		13,297,320		13,963,250		18,105,460	
Aggreko	18,222,263		22,288,912		146,721,699		143,656,067		176,512,171	
Wind Turbine*	3,836		25,042		311,968		370,772		328,390	
Orote	0		0		0		0		0	
Marbo	0		0		0		0		0	
Ratio to last year	139,922,894	93.08	150,318,091	99.71	1,446,581,528	98.59	1,467,238,558	102.49	1,742,433,766	99.20
Station use	4,743,461	3.39	4,731,976	3.15	52,110,922	3.60	56,413,456	3.84	61,592,462	3.53
Ratio to Gross generation										
Net send out	135,179,434	92.85	145,586,114	100.01	1,394,470,606	98.84	1,410,815,102	102.46	1,680,841,304	99.47
Ratio to last year										
KWH deliveries:										
Sales to Navy (@34.5kw)	25,089,942	89.95	27,892,205	104.23	258,377,165	97.47	286,070,882	100.00	311,892,206	98.06
Ratio to last year										
GPA-metered	110,089,492	93.54	117,693,909	99.06	1,136,093,441	99.16	1,145,744,240	103.05	1,368,949,098	99.79
Ratio to last year										
Power factor adj.	0		0		0		0		0	
Adjusted	110,089,492		117,693,909		1,136,093,441		1,145,744,240		1,368,949,098	
GPA KWH Accountability:										
Sales to civilian customers-										
accrual basis	103,591,381	93.05	111,334,651	98.03	1,062,392,093	98.99	1,073,232,311	102.79	1,280,666,894	99.63
Ratio to last year										
GPA use-KWH	356,321		274,614		3,265,724		2,616,925		3,793,037	
Unaccounted For	6,141,790		6,084,644		70,435,624		69,895,005		84,489,167	
Ratio to deliveries										
Ratio to Gross Generation	5.58		5.17		6.20		6.10		6.17	
Ratio to Net Send Out	4.39		4.05		4.87		4.76		4.85	
	4.54		4.18		5.05		4.95		5.03	

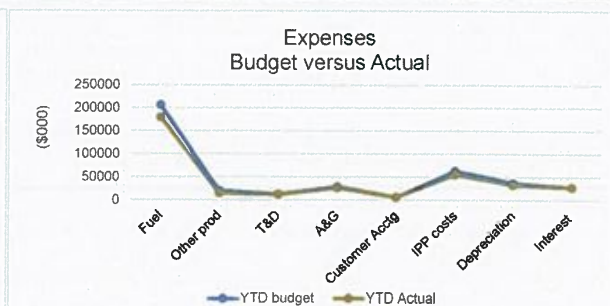
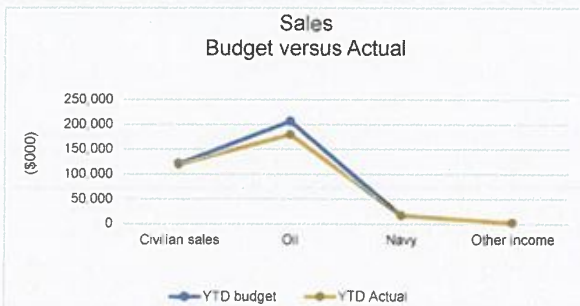
GPA-317Jul18

**Guam Power Authority  
Fuel Consumption  
FY 2018**

Description	July 2018		YEAR-TO-DATE		MOVING 12 MONTHS	
	BARRELS	AMOUNT	BARRELS	AMOUNT	BARRELS	AMOUNT
<b>FUEL FURNISHED:</b>						
<b>NAVY:</b>						
Diesel	0	0	0	0	0	0
Low Sulfur	0	0	0	0	0	0
	0	0	0	0	0	0
<b>GPA:</b>						
RFO	114,304	\$7,759,879	1,402,759	\$ 88,417,395	1,552,667	\$ 96,903,472
Diesel	81,611	\$7,928,405	643,206	\$ 56,440,797	861,572	\$ 72,028,469
Low Sulfur	34,092	\$2,133,165	229,822	\$ 13,930,230	350,030	\$ 21,338,345
Deferred Fuel Costs	0	\$482,199	0	\$ 8,328,374	0	\$ 5,627,830
Fuel Adjustments	0	\$16,218	0	\$ (747,541)	0	\$ (886,136)
Fuel Handling Costs	0	\$1,137,573	0	\$ 12,962,259	0	\$ 17,162,138
	<b>230,007</b>	<b>\$19,457,438</b>	<b>2,275,786</b>	<b>\$ 179,331,513</b>	<b>2,764,269</b>	<b>\$ 212,174,118</b>
<b>IWPS:</b>						
GPA RFO	114,304	\$7,759,879	1,402,759	\$ 88,417,395	1,552,667	\$ 96,903,472
Diesel	81,611	\$7,928,405	643,206	\$ 56,440,797	861,572	\$ 72,028,469
Low Sulfur	34,092	\$2,133,165	229,822	\$ 13,930,230	350,030	\$ 21,338,345
Deferred Fuel Costs	0	\$482,199	0	\$ 8,328,374	0	\$ 5,627,830
Fuel Variance	0	\$16,218	0	\$ (747,541)	0	\$ (886,136)
Fuel Handling Costs	0	\$1,137,573	0	\$ 12,962,259	0	\$ 17,162,138
	<b>230,007</b>	<b>\$19,457,438</b>	<b>2,275,786</b>	<b>\$ 179,331,513</b>	<b>2,764,269</b>	<b>\$ 212,174,118</b>
<b>AVERAGE COST/Bbl</b>						
GPA RFO		<b>\$67.89</b>		<b>\$63.03</b>		<b>\$62.41</b>
Diesel		<b>\$97.15</b>		<b>\$87.75</b>		<b>\$83.60</b>
Low Sulfur		<b>\$62.57</b>		<b>\$60.61</b>		<b>\$60.96</b>
<b>AS BURNED</b>						
<b>Cabras 1 &amp; 2</b>						
RFO	57,137	\$ 3,922,829	769,696	\$ 48,467,660	830,883	\$ 51,931,380
Low Sulfur	21,008	\$ 1,314,498	136,003	\$ 8,247,588	193,810	\$ 11,800,102
Diesel	306	\$ 27,310	1,987	\$ 160,806	3,011	\$ 225,261
	78,451	\$ 5,264,637	907,685	\$ 56,876,054	1,027,704	\$ 63,956,743
<b>Cabras 3 &amp; 4</b>						
RFO	0	\$ -	0	\$ -	0	\$ -
Low Sulfur	0	\$ -	0	\$ -	0	\$ -
Diesel	0	\$ -	0	\$ -	0	\$ -
	0	\$ -	0	\$ -	0	\$ -
<b>MEC (Piti Units 8&amp;9)</b>						
RFO	57,167	\$ 3,837,050	633,063	\$ 39,949,734	721,784	\$ 44,972,092
Low Sulfur	13,084	\$ 818,667	93,819	\$ 5,682,642	156,220	\$ 9,538,243
Diesel	0	\$ -	38	\$ 2,127	38	\$ 2,127
	70,251	\$ 4,655,717	726,919	\$ 45,634,503	878,041	\$ 54,512,462
<b>Diesel &amp; CT's - GPA:</b>						
MDI Dsl	27	\$ 2,004	1,561	\$ 108,767	1,582	\$ 110,103
Macheche CT	8,828	\$ 868,510	97,356	\$ 8,420,350	131,831	\$ 10,898,860
Yigo CT	11,737	\$ 1,141,991	81,938	\$ 7,248,407	105,248	\$ 8,920,152
Talofofo 10 MW	857	\$ 84,897	22,451	\$ 1,982,147	30,831	\$ 2,575,932
Aggreko	33,525	\$ 3,253,595	270,119	\$ 23,605,057	324,638	\$ 27,422,789
Tenjo	5,409	\$ 553,433	65,831	\$ 5,977,637	85,548	\$ 7,433,348
TEMES (IPP)	15,613	\$ 1,454,850	58,845	\$ 5,052,649	110,935	\$ 8,757,772
GWA Generators	429	\$ 50,385	758	\$ 89,092	1,099	\$ 129,238
	81,305	\$ 7,901,095	641,182	\$ 56,277,864	858,524	\$ 71,801,081
Deferred Fuel Costs	0	\$ 482,199	0	\$ 8,328,374	0	\$ 5,627,830
Adjustment	0	\$ 16,218	0	\$ (747,541)	0	\$ (886,136)
Fuel Handling Costs	0	\$ 1,137,573	0	\$ 12,962,259	0	\$ 17,162,138
<b>TOTAL</b>	<b>230,007</b>	<b>\$ 19,457,438</b>	<b>2,275,786</b>	<b>\$ 179,331,513</b>	<b>2,764,269</b>	<b>\$ 212,174,118</b>



Statement of operations Comparison-Budget versus Actual For the month and year to date ended July 31, 2018						
	Budget	Actual July-18	Variance	YTD Budget	YTD Actual	Variance
KwH Sales-Civilian	117,800	103,591	14,209	1,082,364	1,062,392	19,972
Non-fuel yield	\$ 0.105855	\$ 0.113301	\$ (0.007647)	\$ 0.111747	\$ 0.112159	\$ (0.000412)
KwH Sales-Navy	26,604	25,090	1,514	263,534	258,377	5,157
Non-fuel yield	\$ 0.061774	\$ 0.068115	\$ (0.006341)	\$ 0.061774	\$ 0.062308	\$ (0.000534)
Operating revenue						
Civilian sales	\$ 13,115	\$ 11,737	\$ 1,378	\$ 120,951	\$ 119,157	\$ 1,794
Oil	22,185	19,457	2,728	206,773	179,331	27,442
Navy	1,643	1,709	(66)	16,280	16,099	181
Other income	169	308	(139)	1,692	1,809	(117)
	37,113	33,211	3,902	345,695	316,396	29,300
Bad debts expense	87	87	0	866	866	0
Total operating revenues	\$ 37,027	\$ 33,125	\$ 3,902	\$ 344,829	\$ 315,530	\$ 29,299
Operating expenses:						
Production fuel	\$ 22,185	\$ 19,457	\$ 2,728	\$ 206,773	\$ 179,332	\$ 27,442
O & M expenses:						
Other production	1,899	1,426	474	19,434	14,025	5,409
Transmission distribution	1,216	1,129	87	11,459	10,806	653
Administrative expense	2,875	2,713	162	27,977	25,519	2,459
Customer accounting	431	443	(12)	4,072	4,382	(310)
	6,421	5,710	711	62,942	54,731	8,211
IPP costs	1,383	1,325	58	14,588	14,760	(172)
Depreciation	3,635	3,479	156	36,349	32,174	4,175
	\$ 33,625	\$ 29,972	\$ 3,652	\$ 320,653	\$ 280,997	\$ 39,656
Operating income	\$ 3,402	\$ 3,152	\$ 250	\$ 24,176	\$ 34,533	\$ (10,357)
Other revenue (expenses):						
Investment income	99	318	(219)	987	2,363	(1,377)
Interest expense	(2,654)	(2,554)	(100)	(26,549)	(26,582)	34
AFUDC	61	129	(68)	608	1,439	(831)
Bond issuance costs/Other expenses	135	(233)	367	1,346	(2,675)	4,021
Net income before capital contribution	1,042	813	229	568	9,078	(8,511)
Grants from the U.S. Government	-	-	-	-	103	(103)
Increase (decrease) in net assets	\$ 1,042	\$ 813	\$ 229	\$ 568	\$ 9,181	\$ (8,614)



Guam Power Authority  
Debt service coverage  
July 31, 2018

	2014	2015	Restated 2016	2017	YTD 2018
<b>Funds Available for Debt Service</b>					
Earnings from Operations	\$ 40,895	\$ 48,758	\$ 37,981	\$ 36,522	\$ 34,533
Interest Income	333	368	1,227	(32)	598
Depreciation Expense	36,989	41,766	44,240	44,292	32,174
Balance Available for Debt Service	\$ 78,217	\$ 90,892	\$ 83,448	\$ 80,782	\$ 67,305
<b>IPP - Capital Costs</b>					
Principal	\$ 13,084	\$ 18,144	\$ 14,819	\$ 21,263	\$ 19,445
Interest	10,020	8,478	5,970	5,137	2,634
Total IPP Payments	\$ 23,084	\$ 26,622	\$ 20,789	\$ 26,400	\$ 22,079
<b>Bond Debt Service</b>					
Principal (1993 & 1999 Revenue Bond)	\$ -	\$ -	\$ -	\$ -	\$ -
Interest (1993 & 1999 Revenue Bond)	-	-	-	-	-
Principal and Interest (2010 Subordinate Bond)	15,193	9,605	-	-	-
Principal and Interest (2010 Senior TE Bond)	7,999	7,999	7,999	7,999	2,000
Principal and Interest (2012 Senior TE Bond)	17,455	17,096	17,098	17,449	14,238
Principal and Interest (2014 Senior TE Bond)	-	-	10	5,084	4,236
Principal and Interest (2017 Senior TE Bond)	-	-	-	-	4,642
Total	\$ 40,647	\$ 34,700	\$ 25,107	\$ 30,532	\$ 25,117
<b>Debt Service Coverage (DSC) Calculation</b>					
Existing DSC Methodology (Senior)	2.17 x	2.56 x	2.50 x	1.78 x	1.80 x
Existing DSC Methodology (Senior+Subordinate)	1.36 x	1.85 x	2.50 x	1.78 x	1.80 x
Bond Covenant DSC	1.92 x	2.62 x	3.32 x	2.65 x	2.68 x
<b>Debt Service Coverage Requirements</b>					
Existing Ratemaking DSC Target	1.75 x	1.75 x	1.75 x	1.75 x	1.75 x
Minimum Bond Covenant Requirement (Senior Bond)	1.30 x	1.30 x	1.30 x	1.30 x	1.30 x
Minimum Bond Covenant Requirement (Subordinate Bond)	1.20 x	1.20 x	1.20 x	1.20 x	1.20 x

Notes:

- (1) Source: Guam Power Authority, 2014 - 2017 Audited Financial Statements
- (2) Interest income is net of interest earnings in the Construction Fund and the amortization of deferred credit.
- (3) Existing DSC Methodology (Rating Agency Method):  
(Operating Earnings + Depreciation Expense - IPP Principal & Interest Payments)/  
(Senior and Subordinate Bond Principal & Interest Payments)
- (4) Bond Covenant DSC Methodology: (Operating Earnings + Depreciation Expense)/  
(Senior and Subordinate Bond Principal & Interest Payments)

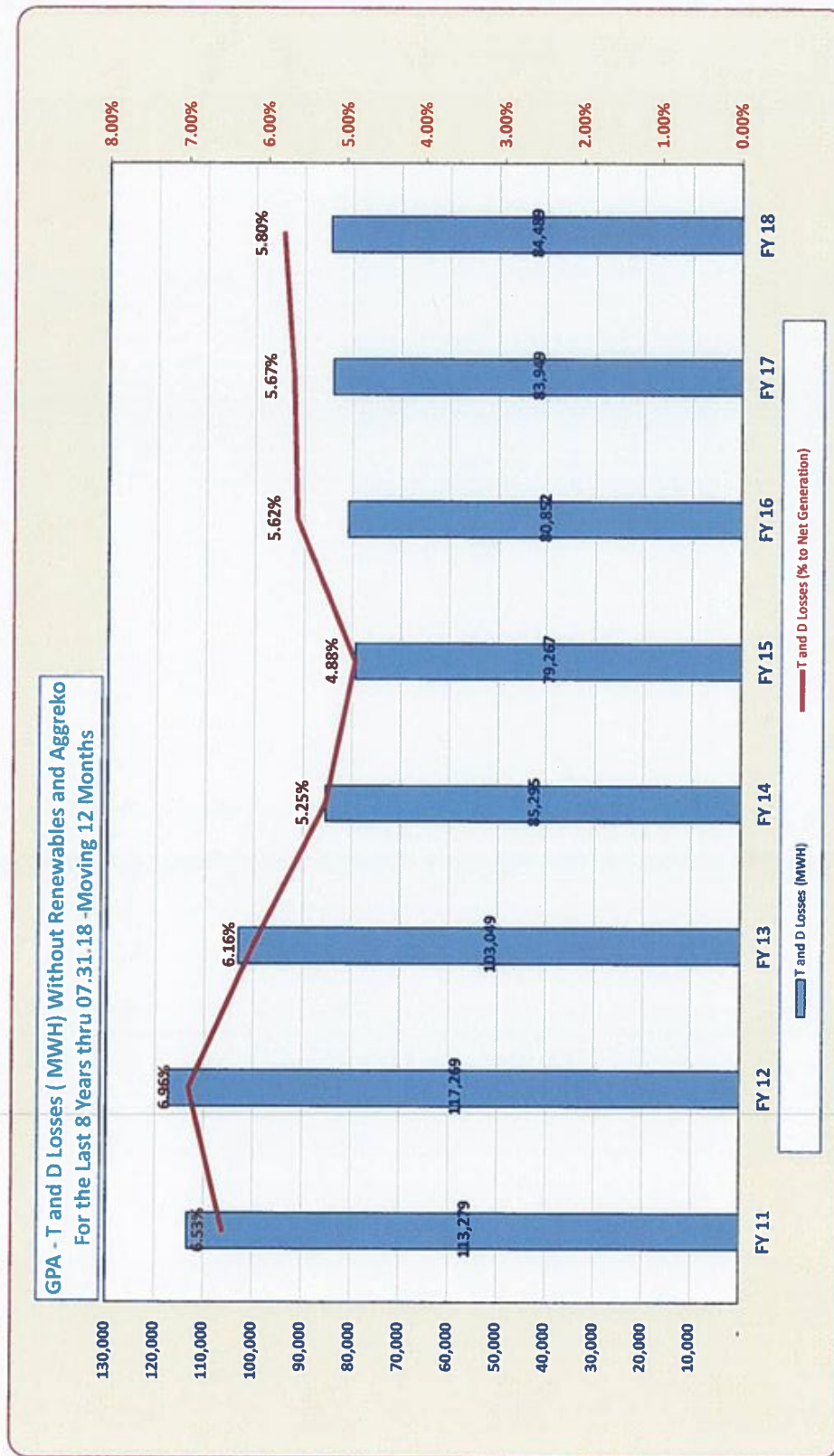
GPA Work Session - August 23, 2018 - DIVISION REPORTS

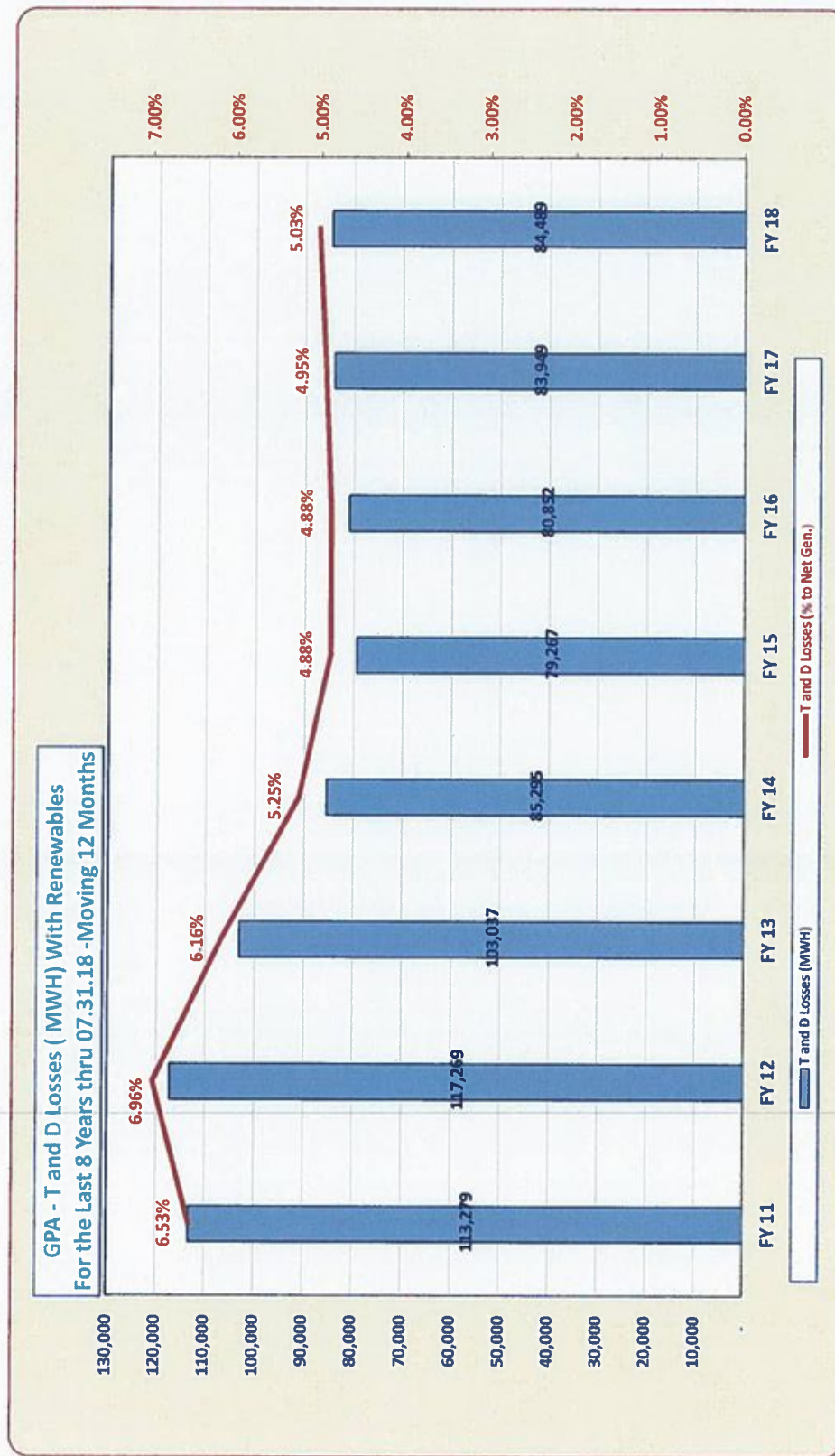
REVENUES ACTUAL VS PROJECTIONS								
MONTHLY - JULY 2018					YTD THRU 07/31/2018			
	PROJECTIONS	ACTUAL	VARIANCE	% VARIANCE	PROJECTIONS	ACTUAL	VARIANCE	% VARIANCE
<b>KWH</b>								
Residential	47,829,041	41,361,122	(8,267,919)	-13.16%	423,877,930	418,390,923	(5,487,008)	-1.29%
Small General-Non-Demand	7,912,022	6,743,157	(1,168,865)	-14.77%	72,105,558	68,553,439	(3,552,119)	-4.93%
Small General-Demand	17,481,285	15,161,689	(2,319,578)	-13.27%	158,702,555	155,303,388	(3,399,169)	-2.14%
Large	27,916,519	25,339,577	(2,576,942)	-9.23%	265,615,260	259,070,026	(6,545,234)	-2.48%
Independent Power Producers	34,921	30,088	(4,833)	-13.84%	332,257	419,755	87,499	26.33%
Private St. Lites	58,751	34,288	(24,463)	-41.64%	556,474	334,812	(221,662)	-39.67%
Sub-total	101,032,518	88,669,920	(12,362,597)	-12.24%	921,180,034	902,072,142	(19,117,891)	-2.08%
Government								
Small_Non Demand	1,234,935	1,128,048	(106,889)	-8.66%	11,239,678	12,031,487	791,789	7.04%
Small-Demand	8,472,870	7,182,875	(1,289,995)	-15.22%	80,859,708	78,222,448	(2,637,262)	-3.26%
Large	6,252,382	5,707,305	(545,078)	-8.72%	60,895,341	62,597,150	1,701,810	2.79%
Public St. Lites	807,579	903,135	95,556	11.83%	8,179,938	7,488,888	(711,048)	-8.69%
Sub-total	16,767,567	14,921,461	(1,846,106)	-11.01%	161,174,684	160,319,952	(854,732)	-0.53%
Total-Civilian	117,800,085	103,591,381	(14,208,704)	-12.06%	1,082,384,697	1,062,392,094	(19,972,603)	-1.85%
USN	26,803,917	25,089,942	(1,513,974)	-5.69%	263,533,988	258,377,165	(5,156,823)	-1.96%
Grand Total	144,404,001	128,681,323	(15,722,678)	-10.89%	1,345,898,685	1,320,769,259	(25,129,426)	-1.87%
<b>Non-Oil Yield</b>								
Residential	0.096203	0.096717	0.000514	0.53%	0.096203	0.096195	(0.000008)	-0.01%
Small General-Non-Demand	0.136364	0.138711	0.002347	1.72%	0.136364	0.136725	0.000361	0.26%
Small General-Demand	0.119423	0.121611	0.002188	1.84%	0.119423	0.119735	0.000312	0.26%
Large	0.103705	0.103339	(0.000366)	-0.35%	0.103705	0.103847	0.000142	0.14%
Independent Power Producers	0.117983	0.117053	(0.000930)	-0.79%	0.117983	0.117770	(0.000213)	-0.18%
Private St. Lites	0.454278	0.612850	0.158572	34.91%	0.454278	0.629012	0.174734	38.46%
Sub-total	0.105655	0.106285	0.000631	0.60%	0.105655	0.105674	(0.000019)	-0.02%
Government								
Small_Non Demand	0.152255	0.150529	(0.001726)	-1.13%	0.152255	0.150250	(0.002005)	-1.32%
Small-Demand	0.135082	0.135525	0.000443	0.33%	0.135082	0.134310	(0.000772)	-0.57%
Large	0.128102	0.129702	0.001600	1.25%	0.128102	0.127288	(0.000814)	-0.64%
Public St. Lites	0.380748	0.475173	0.094425	24.80%	0.380748	0.475210	0.094462	24.81%
Sub-total	0.145576	0.154990	0.009414	6.47%	0.145576	0.148845	0.003269	2.24%
Total-Civilian	0.111337	0.113301	0.001964	1.76%	0.111337	0.112158	0.000821	0.74%
USN	0.061774	0.068124	0.006350	10.28%	0.061774	0.062312	0.000538	0.87%
Grand Total	0.102206	0.104492	0.002286	2.24%	0.101962	0.102407	0.000445	0.44%
<b>Non-Oil Revenues</b>								
Residential	4,582,075	4,000,341	(581,734)	-12.70%	40,778,494	40,246,967	(531,526)	-1.30%
Small General-Non-Demand	1,078,917	935,351	(143,566)	-13.31%	9,832,620	9,372,978	(459,642)	-4.67%
Small General-Demand	2,087,668	1,843,889	(243,779)	-11.68%	18,952,758	18,595,284	(357,473)	-1.89%
Large	2,895,072	2,618,565	(276,507)	-9.55%	27,545,534	26,851,829	(693,705)	-2.52%
Independent Power Producers	4,120	5,147	1,027	24.92%	39,201	47,756	8,555	21.82%
Private St. Lites	26,889	21,013	(5,876)	-21.27%	252,794	210,475	(42,319)	-16.74%
Sub-total	10,674,541	9,424,306	(1,250,235)	-11.71%	97,401,399	95,328,287	(2,073,112)	-2.13%
Government								
Small_Non Demand	188,024	169,803	(18,221)	-9.69%	1,711,292	1,807,725	96,434	5.64%
Small-Demand	1,144,504	973,474	(171,029)	-14.94%	10,922,875	10,508,055	(414,819)	-3.81%
Large	800,943	740,250	(60,693)	-7.58%	7,800,817	7,967,732	166,914	2.14%
Public St. Lites	307,483	429,148	121,665	39.57%	3,114,480	3,549,287	434,807	13.96%
Sub-total	2,440,954	2,312,674	(128,280)	-5.26%	23,549,264	23,830,800	281,536	1.20%
Total-Civilian	13,115,495	11,736,980	(1,378,515)	-10.51%	120,950,663	119,158,087	(1,792,576)	-1.48%
USN	1,843,429	1,709,225	(134,204)	-7.28%	16,279,538	16,099,984	(179,554)	-1.10%
Grand Total	14,958,924	13,446,204	(1,512,720)	-10.10%	137,230,201	135,258,071	(1,972,130)	-1.44%
% of Total Revenues	39.95%	40.87%			39.89%	42.99%		
<b>Oil Revenues</b>								
Residential	7,317,357	6,379,622	(937,735)	-12.82%	65,121,326	58,269,310	(6,852,016)	-10.52%
Small General-Non-Demand	1,215,542	1,040,078	(175,464)	-14.44%	11,077,740	9,549,895	(1,527,845)	-13.79%
Small General-Demand	2,685,686	2,337,734	(347,952)	-12.96%	24,381,833	21,573,539	(2,808,295)	-11.52%
Large	4,288,878	3,892,141	(396,737)	-9.25%	40,807,074	35,469,236	(5,337,838)	-13.08%
Independent Power Producers	5,365	4,472	(893)	-16.64%	51,045	53,039	1,993	3.90%
Private St. Lites	9,028	5,289	(3,737)	-41.41%	85,492	45,983	(39,509)	-46.21%
Sub-total	15,521,858	13,659,337	(1,862,521)	-12.00%	141,524,511	124,961,002	(16,563,510)	-11.70%
Government								
Small_Non Demand	189,726	173,992	(15,734)	-8.29%	1,726,777	1,647,819	(78,958)	-4.57%
Small-Demand	1,301,876	1,107,916	(193,959)	-14.89%	12,422,680	10,716,015	(1,706,665)	-13.74%
Large	960,568	886,923	(73,645)	-7.66%	9,355,489	8,470,800	(884,689)	-9.46%
Public St. Lites	124,070	139,301	15,231	12.28%	1,256,702	1,031,526	(225,176)	-17.92%
Sub-total	2,576,039	2,290,132	(285,907)	-11.10%	24,761,629	21,866,160	(2,895,469)	-11.69%
Total-Civilian	18,097,894	15,949,469	(2,148,425)	-11.87%	166,286,140	146,827,162	(19,458,978)	-11.70%
USN	4,087,220	3,507,969	(579,251)	-14.17%	40,487,324	32,504,347	(7,982,977)	-19.72%
Grand Total	22,185,114	19,457,438	(2,727,675)	-12.30%	206,773,464	179,331,508	(27,441,955)	-13.27%
% of Total Revenues	60.05%	59.13%			60.11%	57.01%		
<b>Grand Total</b>								
Residential	11,899,433	10,379,963	(1,519,470)	-12.77%	105,899,820	98,516,278	(7,383,543)	-6.97%
Small General-Non-Demand	2,294,459	1,975,429	(319,030)	-13.90%	20,910,360	18,922,871	(1,987,489)	-9.50%
Small General-Demand	4,773,354	4,181,623	(591,731)	-12.40%	43,334,591	40,168,823	(3,165,768)	-7.31%
Large	7,183,950	6,510,707	(673,244)	-9.37%	68,352,608	62,321,065	(6,031,543)	-8.82%
Independent Power Producers	9,485	9,619	134	1.41%	90,248	100,794	10,546	11.69%
Private St. Lites	35,715	28,302	(7,413)	-20.38%	338,288	258,458	(81,828)	-24.19%
Sub-total	26,196,396	23,063,643	(3,132,753)	-11.88%	238,925,911	220,286,289	(18,639,622)	-7.80%
Government								
Small_Non Demand	377,750	343,795	(33,955)	-8.99%	3,438,089	3,455,544	17,475	0.51%
Small-Demand	2,448,179	2,081,391	(366,788)	-14.91%	23,345,335	21,222,070	(2,123,264)	-9.10%
Large	1,761,511	1,609,173	(152,338)	-8.65%	17,159,306	16,438,532	(717,775)	-4.18%
Public St. Lites	431,553	568,447	136,894	31.72%	4,371,182	4,580,813	209,631	4.80%
Sub-total	5,016,993	4,602,806	(414,187)	-8.26%	48,310,892	45,698,960	(2,611,932)	-5.41%
Total-Civilian	31,213,389	27,666,449	(3,546,940)	-11.39%	287,236,803	265,985,249	(21,251,555)	-7.40%
USN	5,730,649	5,217,194	(513,455)	-8.96%	56,768,882	48,604,311	(8,164,571)	-14.38%
Grand Total	36,944,038	32,883,643	(4,060,395)	-10.94%	344,005,685	314,589,559	(29,416,126)	-8.55%



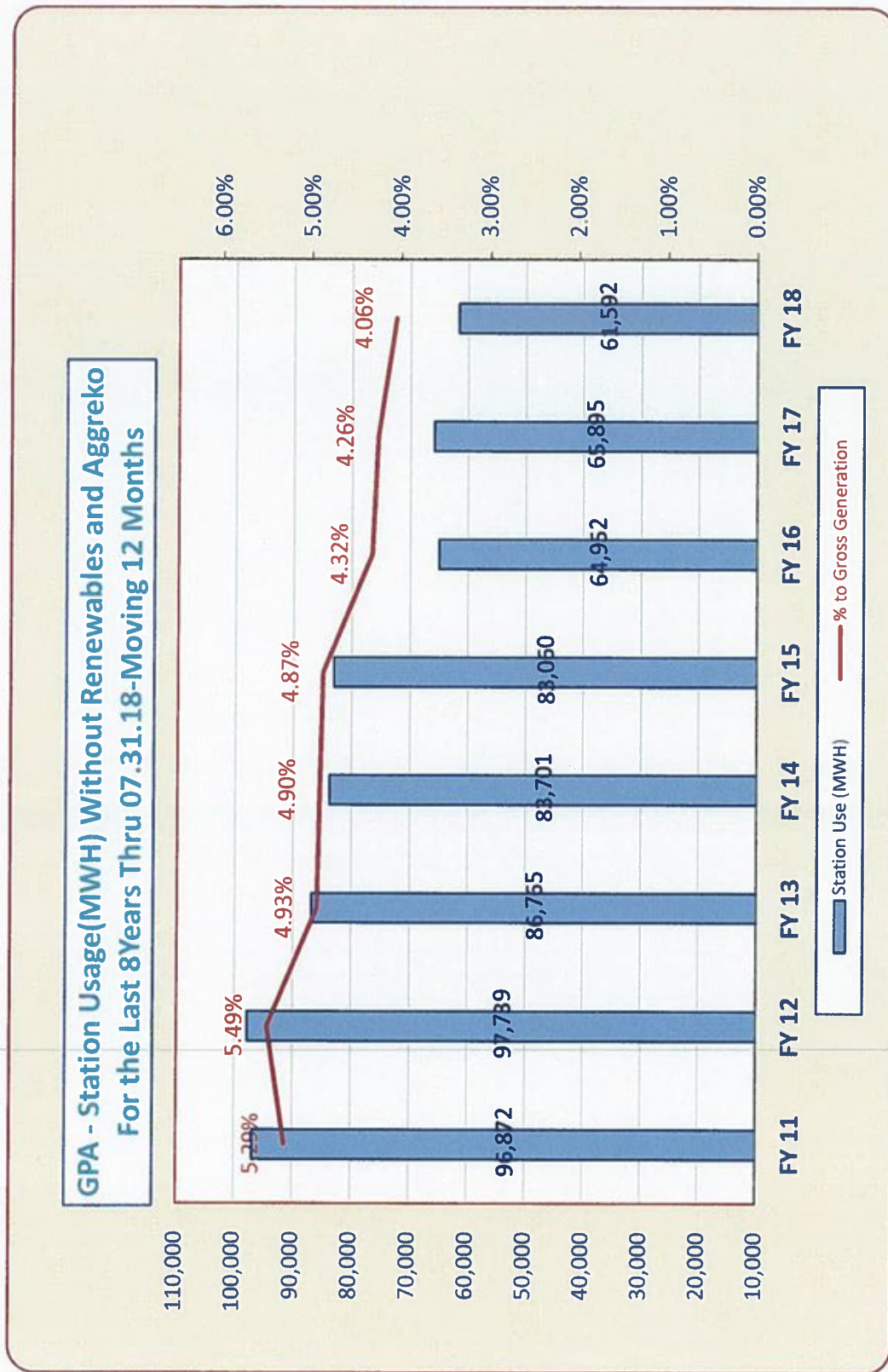
GPA Work Session - August 23, 2018 - DIVISION REPORTS

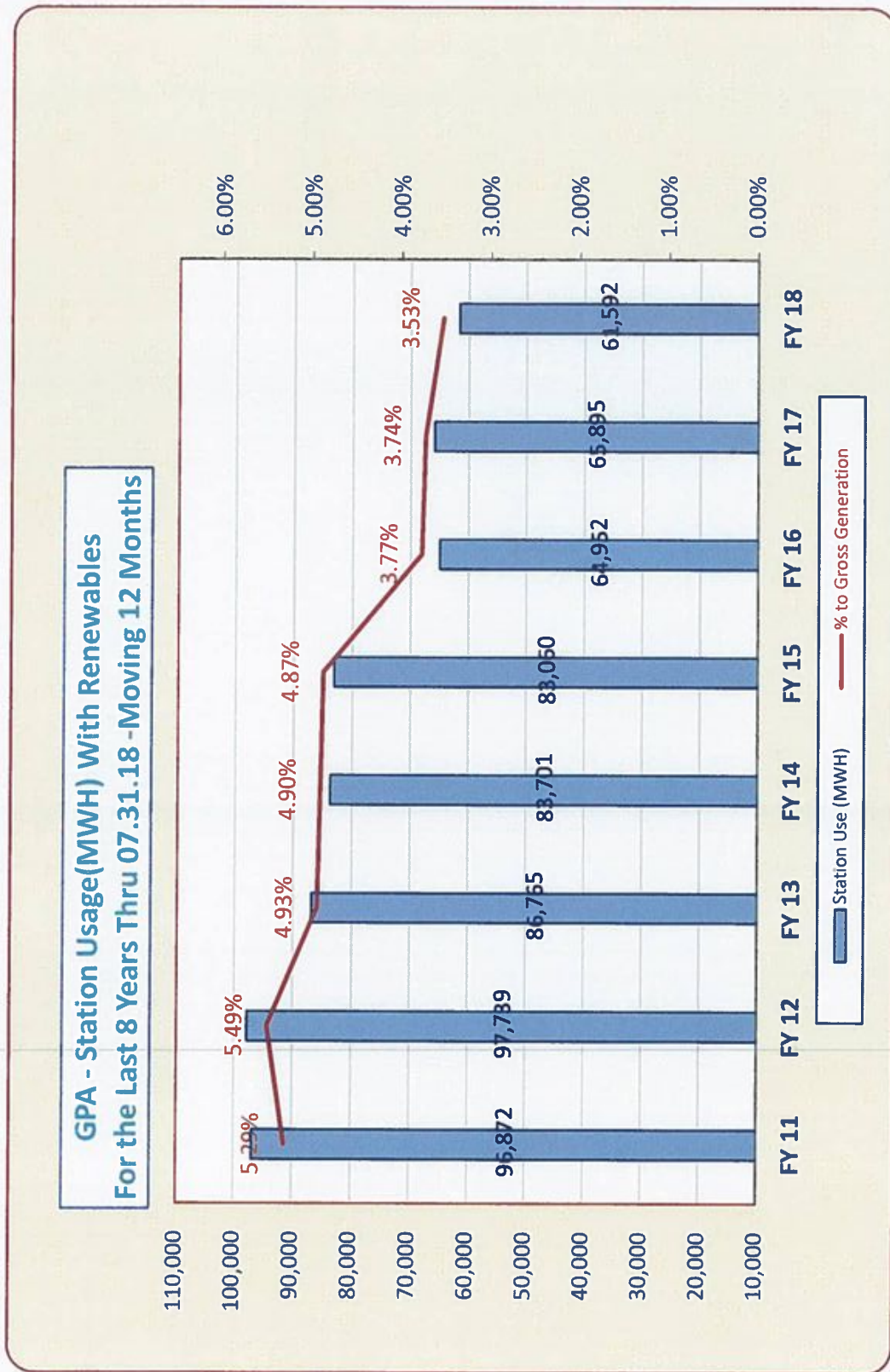
	YTD REVENUES - CURRENT YEAR VS PRIOR YEAR				YTD REVENUES - CURRENT YEAR VS PRIOR YEAR			
	ACTUALS - 10 MONTHS ENDED JULY 31				ACTUALS - MONTH ENDED JULY 31			
	2018	2017	VARIANCE	% VARIANCE	2018	2017	VARIANCE	% VARIANCE
<b>KWH</b>								
Residential	418,390,923	420,409,887	(2,018,964)	-0.48%	41,361,122	45,094,364	(3,733,242)	-8.28%
Small General-Non-Demand	88,553,439	89,530,169	(976,730)	-1.40%	8,743,157	7,087,373	(1,655,784)	-23.36%
Small General-Demand	155,303,386	158,053,260	(2,749,874)	-1.74%	15,161,689	15,839,125	(677,436)	-4.28%
Large	259,070,026	262,103,183	(3,033,157)	-1.16%	25,339,577	27,119,833	(1,780,257)	-6.56%
Independent Power Producers	419,755	869,484	(449,729)	-51.72%	30,088	82,800	(52,712)	-63.66%
Private St. Lites	334,812	382,552	(47,740)	-12.53%	34,288	35,412	(1,124)	-3.17%
Sub-total	902,072,142	911,348,514	(9,276,372)	-1.02%	88,669,920	95,256,706	(6,586,786)	-6.92%
Government								
Small, Non Demand	12,031,467	11,412,653	618,814	5.42%	1,128,048	1,254,979	(126,931)	-10.11%
Small-Demand	78,222,448	80,846,847	(2,624,401)	-3.01%	7,182,975	7,982,644	(799,669)	-9.76%
Large	82,597,150	81,883,821	713,330	1.15%	5,707,305	6,219,351	(512,046)	-8.23%
Public St. Lites	7,488,888	7,940,474	(451,586)	-5.94%	803,135	638,971	164,164	25.70%
Sub-total	160,319,852	161,883,796	(1,563,943)	-0.97%	14,821,461	16,078,944	(1,257,483)	-7.81%
Total-Civilian	1,062,392,084	1,073,232,310	(10,840,226)	-1.01%	103,591,381	111,334,651	(7,743,270)	-6.95%
USN	258,377,165	265,070,881	(6,693,716)	-2.53%	25,089,942	27,892,205	(2,802,263)	-10.05%
Grand Total	1,320,769,259	1,338,303,170	(17,533,911)	-1.31%	128,681,323	139,226,856	(10,545,533)	-7.57%
<b>Non-Oil Yield</b>								
Residential	0.096185	0.096267	-0.000072	-0.08%	0.096717	0.095780	0.000937	0.98%
Small General-Non-Demand	0.136725	0.136583	0.000142	0.10%	0.138711	0.138213	0.000498	0.36%
Small General-Demand	0.119735	0.119358	0.000377	0.32%	0.121615	0.117671	0.003944	3.35%
Large	0.103647	0.102709	0.000938	0.91%	0.103339	0.101585	0.001754	1.75%
Independent Power Producers	0.000000	0.109790	-0.109790	-100.00%	0.171053	0.106918	0.064135	59.99%
Private St. Lites	0.629012	0.574047	0.054965	9.58%	0.612850	0.603718	0.009132	1.51%
Sub-total	0.105874	0.105414	0.000460	0.43%	0.106285	0.104274	0.002011	1.93%
Government								
Small, Non Demand	0.150250	0.151767	-0.001517	-1.00%	0.150529	0.149244	0.001285	0.86%
Small-Demand	0.134310	0.134884	-0.000574	-0.43%	0.135525	0.134521	0.001004	0.75%
Large	0.127286	0.126211	0.001075	0.85%	0.129702	0.125276	0.004426	3.53%
Public St. Lites	0.475210	0.487844	-0.012634	-2.59%	0.475173	0.549144	-0.073971	-15.47%
Sub-total	0.148645	0.148991	-0.000346	-0.23%	0.148990	0.148574	0.000416	0.28%
Total-Civilian	0.112158	0.111987	0.000171	0.15%	0.113301	0.110670	0.002631	2.38%
USN	0.062312	0.061655	0.000657	1.07%	0.068124	0.069154	-0.001030	-1.48%
Grand Total	0.102407	0.102018	0.000389	0.38%	0.104492	0.100350	0.004143	4.13%
<b>Non-Oil Revenues</b>								
Residential	40,246,967	40,471,654	(224,686)	-0.56%	4,000,341	4,319,136	(318,795)	-7.38%
Small General-Non-Demand	9,372,976	9,496,649	(123,673)	-1.30%	935,351	965,396	(30,045)	-3.11%
Small General-Demand	18,595,284	18,864,922	(269,638)	-1.43%	1,843,889	1,883,810	(39,921)	-2.12%
Large	26,851,826	28,920,413	(2,068,587)	-7.15%	2,618,565	2,754,395	(135,830)	-4.93%
Independent Power Producers	47,756	95,460	(47,704)	-49.97%	5,147	8,853	(3,706)	-41.86%
Private St. Lites	210,475	219,603	(9,128)	-4.16%	21,013	21,379	(366)	-1.71%
Sub-total	95,325,287	98,068,700	(2,743,413)	-2.79%	9,424,306	9,932,968	(508,662)	-5.12%
Government								
Small, Non Demand	1,807,725	1,732,082	75,643	4.37%	169,803	187,298	(17,495)	-9.34%
Small-Demand	10,508,055	10,881,828	(373,773)	-3.44%	873,474	1,071,144	(197,670)	-18.41%
Large	7,987,732	7,810,415	177,317	2.27%	740,250	779,135	(38,884)	-4.99%
Public St. Lites	3,549,287	3,714,903	(165,616)	-4.46%	429,148	350,887	78,261	22.30%
Sub-total	23,852,800	24,138,207	(285,407)	-1.18%	2,312,674	2,388,484	(75,810)	-3.17%
Total-Civilian	119,158,087	120,187,908	(1,029,821)	-0.86%	11,736,980	12,321,432	(584,452)	-4.74%
USN	16,099,864	16,342,860	(242,996)	-1.49%	1,709,225	1,849,939	(140,714)	-7.61%
Grand Total	135,258,051	136,530,767	(1,272,716)	-0.93%	13,446,204	13,971,371	(525,166)	-3.76%
<b>% of Total Revenues</b>								
<b>Oil Revenues</b>								
Residential	58,269,310	41,480,184	16,789,127	40.48%	6,379,622	4,737,208	1,642,414	34.67%
Small General-Non-Demand	9,549,895	6,857,428	2,692,467	39.26%	1,040,078	744,538	295,540	39.69%
Small General-Demand	21,573,539	15,548,185	6,025,354	38.75%	2,337,734	1,863,381	474,353	25.45%
Large	35,489,236	25,586,050	9,903,186	38.73%	3,892,141	2,835,089	1,057,052	37.28%
Independent Power Producers	53,039	83,891	(30,852)	-36.63%	4,472	8,417	(3,945)	-46.87%
Private St. Lites	45,983	36,900	9,083	24.62%	5,289	3,720	1,569	42.17%
Sub-total	124,981,002	89,592,424	35,388,578	39.48%	13,659,337	9,992,351	3,666,986	36.70%
Government								
Small, Non Demand	1,847,819	1,115,543	732,276	65.71%	173,992	131,837	42,155	31.98%
Small-Demand	10,716,015	7,885,706	2,830,309	35.90%	1,107,916	836,484	271,432	32.45%
Large	8,470,800	6,020,425	2,450,375	40.70%	868,923	645,157	223,766	34.68%
Public St. Lites	1,031,526	770,937	260,589	33.80%	139,301	67,125	72,177	107.53%
Sub-total	21,866,160	15,772,611	6,093,549	38.63%	2,280,132	1,680,602	600,530	35.73%
Total-Civilian	146,827,162	105,365,035	41,462,127	39.35%	15,949,469	11,672,953	4,276,516	36.64%
USN	32,504,347	28,217,009	4,287,337	15.19%	3,507,969	3,881,763	(373,794)	-9.63%
Grand Total	179,331,508	133,582,045	45,749,464	34.25%	19,457,438	15,554,716	3,902,722	25.12%
<b>% of Total Revenues</b>								
<b>Grand Total</b>								
Residential	98,516,276	81,951,847	16,564,430	20.21%	10,379,963	9,056,344	1,323,619	14.62%
Small General-Non-Demand	18,922,871	16,354,075	2,568,796	15.71%	1,975,429	1,709,831	265,598	15.53%
Small General-Demand	40,168,823	34,413,087	5,755,736	16.73%	4,181,823	3,527,191	654,632	18.55%
Large	62,321,065	52,506,462	9,814,603	18.69%	6,510,707	5,589,484	921,222	16.48%
Independent Power Producers	100,794	179,151	(78,357)	-43.74%	9,619	17,270	(7,651)	-44.30%
Private St. Lites	258,458	256,503	(1,945)	-0.76%	26,302	25,099	1,203	4.80%
Sub-total	220,286,289	185,661,124	34,625,165	18.65%	23,083,643	19,925,320	3,158,323	15.85%
Government								
Small, Non Demand	3,455,544	2,847,805	607,739	21.35%	343,795	319,135	24,660	7.73%
Small-Demand	21,222,070	18,727,533	2,494,537	13.32%	2,081,381	1,907,628	173,753	9.11%
Large	16,438,532	13,830,841	2,607,691	18.85%	1,809,173	1,424,292	384,881	27.02%
Public St. Lites	4,580,813	4,485,840	94,973	2.12%	568,447	418,012	150,435	35.99%
Sub-total	45,696,960	38,991,819	6,705,141	17.20%	4,802,806	4,069,066	733,740	18.03%
Total-Civilian	265,983,249	224,652,943	41,330,306	18.36%	27,886,449	23,994,386	3,892,063	16.22%
USN	48,804,311	44,559,889	4,244,422	9.51%	5,217,194	5,331,702	(114,508)	-2.15%
Grand Total	314,787,559	270,112,812	44,674,748	16.47%	32,903,643	29,326,087	3,577,556	12.20%

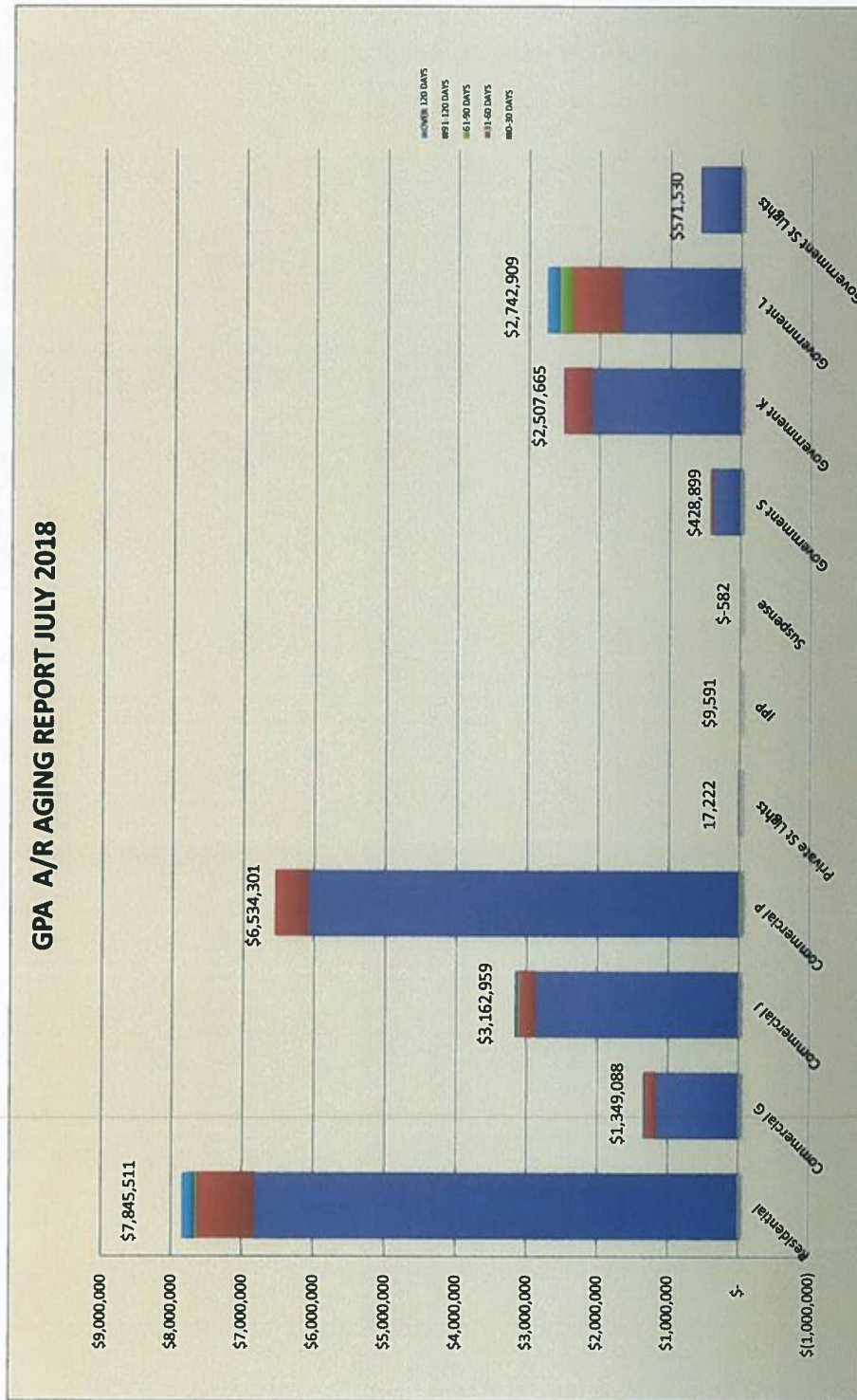














## GUAM POWER AUTHORITY

ATURIDAT ILEKTRESEDAT GUAHAN  
 P O BOX 2977, AGANA, GUAM 96932-2977  
 Telephone: (671) 648-3066 Fax: (671) 648-3168

### GUAM POWER AUTHORITY FINANCIAL STATEMENT OVERVIEW July 2018

Attached are the financial statements and supporting schedules for the month and fiscal year ended July 31, 2018.

#### Summary

The increase in net assets for the month ended was \$0.8 million as compared to the anticipated net increase of \$1.0 million projected at the beginning of the year. The total kWh sales for the month were 10.89% less than projected and non-fuel revenues were \$1.3 million less than the estimated amount. O & M expenses for the month were \$5.7 million which was \$0.7 million less than our projections for the month. Other expenses for the month such as interest expense, IPP costs, (net of interest income and other income) totaled to \$3.4 million, which was \$0.5 million less than the projected amounts. There were no other significant departures from the budget during the period.

#### Analysis

Description	Previous Month	Current Month	Target
Quick Ratio	2.34	2.48	2
Days in Receivables	45	39	52
Days in Payables	35	29	30
LEAC (Over)/Under Recovery Balance -YTD	\$8,904,873	\$8,422,674	\$9,142,210
T&D Losses	4.99%	5.03%	<7.00%
Debt Service Coverage	1.80	1.80	1.75
Long-term equity ratio	17%	17%	30 – 40%
Days in Cash	185	172	60

The Quick Ratio has been a challenge for GPA historically. However, over the last two fiscal years, the influx of cash from insurance proceeds continued to improve this ratio. GPA has current obligations of approximately \$73 million and approximately \$181 million in cash and current receivables. Debt Service Coverage ratio is calculated using the methodology in use before the Fiscal Year 2002 change in accounting practice.



**Financial Statements  
July 2018**

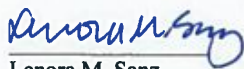
---

**Significant Assumptions**

The significant assumptions in the financial statements are as follows:

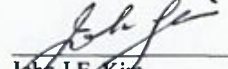
- Accrual cutoff procedures were performed at month end
- An inventory valuation is performed at year-end only
- Accounts Receivable includes accruals based on prior months' usage.

Prepared by:



Lenora M. Sanz  
Controller

Reviewed by:



John J.E. Kim  
Chief Financial Officer

Approved by:



John M. Benavente, P.E.  
General Manager



<b>GUAM POWER AUTHORITY</b> <b>(A COMPONENT UNIT OF THE GOVERNMENT OF GUAM)</b> <b>Statements of Net Position</b> <b>July 31, 2018 and September 30, 2017</b>			
	Unaudited July 2018	Audited September 2017	Change from Sept 30 2017
<b>ASSETS AND DEFERRED OUTFLOWS OF RESOURCES</b>			
Current assets:			
Cash and cash equivalents:			
Held by trustee for restricted purposes:			
Interest and principal funds	12,824,898	18,061,879	(5,236,981)
Bond indenture funds	50,976,310	56,907,535	(5,931,225)
Held by Guam Power Authority:			
Bond indenture funds	140,713,203	132,579,889	8,133,314
Self insurance fund-restricted	19,257,186	19,251,372	5,814
Energy sense fund	1,279,123	1,074,491	204,632
Total cash and cash equivalents	225,050,720	227,875,166	(2,824,446)
Accounts receivable, net	37,457,520	77,826,132	(40,368,612)
Total current receivables	37,457,520	77,826,132	(40,368,612)
Materials and supplies inventory	12,920,837	11,989,745	931,092
Fuel inventory	55,977,110	52,387,369	3,589,741
Prepaid expenses	2,908,264	629,586	2,278,678
Total current assets	334,314,451	370,707,998	(36,393,547)
Utility plant, at cost:			
Electric plant in service	1,047,252,881	1,038,121,362	9,131,519
Construction work in progress	35,549,932	18,480,173	17,069,759
Total	1,082,802,813	1,056,601,535	26,201,278
Less: Accumulated depreciation	(592,655,919)	(561,829,334)	(30,826,585)
Total utility plant	490,146,894	494,772,201	(4,625,307)
Other non-current assets:			
Investment - bond reserve funds held by trustee	48,530,594	48,576,863	(46,269)
Unamortized debt issuance costs	2,550,782	4,267,305	(1,716,523)
Total other non-current assets	51,081,376	52,844,168	(1,762,792)
Total assets	875,542,721	918,324,367	(42,781,646)
Deferred outflow of resources:			
Deferred fuel revenue	8,422,674	16,751,048	(8,328,374)
Unamortized loss on debt refunding	27,551,968	11,076,064	16,475,904
Pension	8,698,853	8,698,853	0
Unamortized forward delivery contract costs	504,558	637,358	(132,800)
Total deferred outflows of resources	45,178,053	37,163,323	8,014,730
	920,720,774	955,487,690	(34,766,916)

<b>GUAM POWER AUTHORITY</b> <b>(A COMPONENT UNIT OF THE GOVERNMENT OF GUAM)</b> <b>Statement of Net Position, Continued</b> <b>July 31, 2018 and September 30, 2017</b>			
	Unaudited July 2018	Audited September 2017	Change from Sept 30 2017
<b>LIABILITIES, DEFERRED INFLOWS OF RESOURCES AND NET POSITION</b>			
Current liabilities:			
Current maturities of long-term debt	1,630,000	1,780,000	(150,000)
Current obligations under capital leases	15,319,211	23,330,193	(8,010,982)
Accounts payable			
Operations	31,895,486	56,723,139	(24,827,653)
Others	3,364,031	7,597,801	(4,233,770)
Accrued payroll and employees' benefits	1,196,816	1,546,860	(350,044)
Current portion of employees' annual leave	2,083,469	2,045,201	38,268
Interest payable	10,014,069	15,065,830	(5,051,761)
Customer deposits	7,273,181	8,209,228	(936,047)
Total current liabilities	<u>72,776,263</u>	<u>116,298,252</u>	<u>(43,521,989)</u>
Regulatory liabilities:			
Provision for self insurance	19,550,977	19,550,977	0
Total regulatory liabilities	<u>19,550,977</u>	<u>19,550,977</u>	<u>0</u>
Long term debt, net of current maturities	605,377,535	590,568,862	14,808,673
Obligations under capital leases, net of current portion	13,290,216	24,428,832	(11,138,616)
Net Pension liability	82,249,297	85,875,217	(3,625,920)
DCRS sick leave liability	4,008,397	4,008,397	0
Employees' annual leave net of current portion	1,086,456	1,086,456	0
Customer advances for construction	385,293	369,180	16,113
Total liabilities	<u>798,724,435</u>	<u>842,186,173</u>	<u>(43,461,738)</u>
Deferred inflows of resources:			
Unearned forward delivery contract revenue	1,849,389	2,336,071	(486,682)
Pension	788,894	788,894	0
Total deferred inflows of resources	<u>2,638,283</u>	<u>3,124,965</u>	<u>(486,682)</u>
Commitments and contingencies			
Net Position:			
Net investment in capital assets	(46,348,458)	(40,220,468)	(6,127,990)
Restricted	29,346,314	15,232,832	14,113,482
Unrestricted	<u>136,360,199</u>	<u>135,164,187</u>	<u>1,196,012</u>
Total net position	<u>119,358,055</u>	<u>110,176,552</u>	<u>9,181,503</u>
	<u>920,720,774</u>	<u>955,487,690</u>	<u>(34,766,916)</u>

GUAM POWER AUTHORITY (A COMPONENT UNIT OF THE GOVERNMENT OF GUAM) Statement of Revenues, Expenses and Changes in Net Assets						
	July 31		% of change Inc (dec)	Ten Months Ended July 31		% of change Inc (dec)
	Unaudited 2018	Audited 2017		Unaudited 2018	Audited 2017	
Revenues						
Sales of electricity	32,903,643	29,326,087	12	314,587,560	270,112,810	16
Miscellaneous	308,251	211,937	45	1,808,644	1,847,933	(2)
Total	33,211,894	29,538,024	12	316,396,204	271,960,743	16
Bad debt expense	(86,583)	(103,532)	(16)	(865,833)	(893,930)	(3)
Total revenues	33,125,311	29,434,492	13	315,530,371	271,066,813	16
Operating and maintenance expenses						
Production fuel	19,457,438	15,175,139	28	179,331,515	133,582,176	34
Other production	1,425,830	1,539,270	(7)	14,024,616	12,487,432	12
	20,883,268	16,714,409	25	193,356,131	146,069,608	32
Depreciation	3,479,274	3,526,137	(1)	32,174,360	39,741,207	(19)
Energy conversion cost	1,325,326	1,751,588	(24)	14,759,986	16,375,468	(10)
Transmission & distribution	1,128,694	925,682	22	10,805,873	9,704,842	11
Customer accounting	442,536	459,293	(4)	4,381,963	3,409,093	29
Administrative & general	2,713,341	2,356,791	15	25,518,839	20,967,363	22
Total operating and maintenance expenses	29,972,439	25,733,900	16	280,997,152	236,267,581	19
Operating income	3,152,872	3,700,592	(15)	34,533,219	34,799,232	(1)
Other income (expenses)						
Interest income	317,765	147,271	116	2,363,398	1,209,044	95
Interest expense and amortization	(2,553,542)	(2,796,910)	(9)	(26,582,184)	(28,316,956)	(6)
Bond issuance costs	67,464	76,827	(12)	(1,844,201)	768,270	(340)
Assets written off	0	0		0	0	
Allowance for funds used during construction	128,957	294,990	(56)	1,439,407	3,129,480	(54)
Other expense	(300,336)	(4,291)	0	(830,810)	(535,363)	55
Total other income (expenses)	(2,339,692)	(2,282,113)	3	(25,454,390)	(23,745,525)	7
Income (loss) before capital contributions	813,180	1,418,479	(43)	9,078,829	11,053,707	(18)
Capital contributions	0	4,884	0	102,672	43,306	137
Increase (decrease) in net assets	813,180	1,423,363	(43)	9,181,501	11,097,013	(17)
Total net assets at beginning of period (restated)	118,544,878	71,496,480	66	110,176,557	61,822,830	78
Total net assets at end of period	119,358,058	72,919,843	64	119,358,058	72,919,843	64

**GUAM POWER AUTHORITY**  
**(A COMPONENT UNIT OF THE GOVERNMENT OF GUAM)**  
**Statements of Cash Flows**  
**Period Ended July 31, 2018**

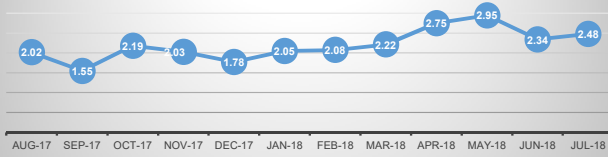
	Month Ending 7/31/2018	YTD Ending 7/31/2018
<b>Increase(decrease) in cash and cash equivalents</b>		
Cash flows from operating activities:		
Cash received from customers	(\$3,304,810)	\$ 313,935,339
Cash payments to suppliers and employees for goods and services	<u>30,002,896</u>	<u>299,086,586</u>
Net cash provided by operating activities	\$8,536,636	14,848,753
Cash flows from investing activities:		
Interest and dividends on investments and bank accounts	<u>317,765</u>	<u>2,363,398</u>
Net cash provided by investing activities	317,765	2,363,398
Cash flows from non-capital financing activities		
Proceeds from Cabras 3&4 insurance claims	-	41,844,342
Interest paid on short term debt	(8,904)	(67,084)
Provision for self insurance funds	<u>(593)</u>	<u>(5,814)</u>
Net cash provided by noncapital financing activities	(9,497)	41,771,444
Cash flows from capital and related financing activities		
Acquisition of utility plant	(14,322,559)	(27,549,050)
Principal paid on bonds and other long-term debt	-	(3,550,000)
Interest paid on bonds(net of capitalized interest)	128,957	(27,337,879)
Interest paid on capital lease obligations	(211,396)	(2,789,575)
Interest & principal funds held by trustee	(2,484,412)	5,236,981
Reserve funds held by trustee	(34,366)	46,269
Bond funds held by trustee	459,841	5,931,225
Principal payment on capital lease obligations	(1,932,700)	(19,149,597)
Grant from DOI/FEMA	-	102,672
Debt issuance costs/loss on defeasance	(333,577)	18,208,673
Net cash provided by (used in) capital and related financing activities	<u>(18,730,212)</u>	<u>(50,850,281)</u>
Net (decrease) increase in cash and cash equivalents	(9,885,308.45)	8,133,314
Cash and cash equivalents, beginning	<u>150,598,511</u>	<u>132,579,889</u>
<b>Cash and cash equivalents-Funds held by GPA, July 31, 2018</b>	<b>\$ 140,713,203</b>	<b>\$ 140,713,203</b>

<b>GUAM POWER AUTHORITY</b> <b>(A COMPONENT UNIT OF THE GOVERNMENT OF GUAM)</b> <b>Statements of Cash Flows, continued</b> <b>Period Ended July 31, 2018</b>		
	Month Ending 7/31/2018	YTD Ending 7/31/2018
<b>Reconciliation of operating earnings to net cash provided by operating activities:</b>		
Operating earnings net of depreciation expense and excluding interest income	\$3,152,872	\$34,533,219
Adjustments to reconcile operating earnings to net cash provided by operating activities:		
Depreciation and amortization	3,479,274	32,174,360
Other expense	(232,872)	(2,675,011)
(Increase) decrease in assets:		
Accounts receivable	5,407,363	(1,475,730)
Materials and inventory	(109,365)	(931,092)
Fuel inventory	5,850,975	(3,589,741)
Prepaid expenses	959,455	(2,278,678)
Unamortized debt issuance cost	23,667	1,716,523
Deferred fuel revenue	482,199	8,328,374
Unamortized loss on debt refunding	229,166	(16,475,904)
Unamortized forward delivery contract costs	13,280	132,800
Increase (decrease) in liabilities:		
Accounts payable-operations	(9,817,426)	(24,827,653)
Accounts payable-others	312,613	(4,438,402)
Accrued payroll and employees' benefits	350,007	(350,044)
Net pension liability	(316,862)	(3,625,920)
Employees' annual leave	(81,800)	38,268
Customers deposits	(1,117,241)	(936,047)
Customer advances for construction	-	16,113
Unearned forward delivery contract revenue	(48,669)	(486,682)
<b>Net cash provided by operating activities</b>	<b>\$8,536,636</b>	<b>\$ 14,848,753</b>

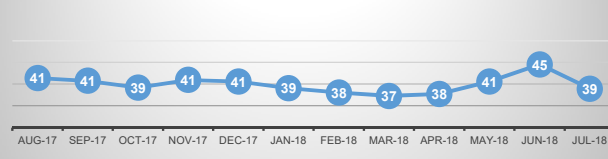
**Guam Power Authority  
Financial Analysis  
7/31/2018**

**Quick Ratio**

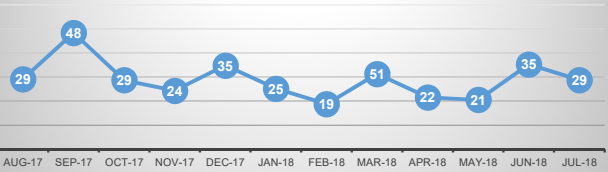
A	Reserve Funds Held by GPA	140,713,203
B	Current Accounts Receivable	40,102,688
C	Total Cash and A/R (A+B)	180,815,891
D	Total Current Liabilities	72,776,263
E	<b>Quick Ratio (F/G)</b>	<b>2.48</b>

**Quick ratio****Days in Receivables**

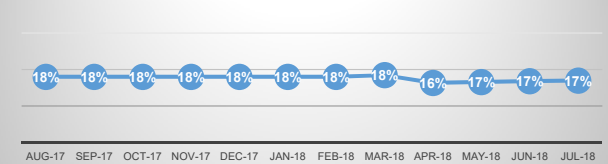
A	FY 18 Moving 12 Mos.-Actual	375,548,803
B	No. of Days	365
C	Average Revenues per day (A/B)	1,028,901
D	Current Accounts Receivable	40,102,688
E	<b>Days in Receivables (D/C)</b>	<b>39</b>

**Days in receivables****Days in Payables**

A	FY 18 Moving 12 Months-Actual	446,017,577
B	No. of Days	365
C	Average Payables per day (A/B)	1,221,966
D	Current Accounts Payables	35,259,517
E	<b>Days in Payables (D/C)</b>	<b>29</b>

**Days in payables****Long term equity ratio**

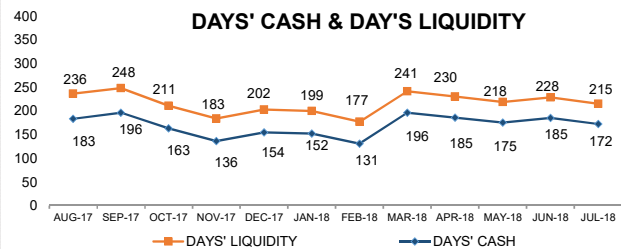
A	Equity	\$ 119,358,055.05
B	Total Long term Liability	\$ 584,275,539.95
C	Total Equity and liability	\$ 703,633,595.00
D	<b>Long term equity ratio (A/C)</b>	<b>17%</b>

**Long term Equity ratio****Days cash on hand**

A	Unrestricted cash & cash equivalents	140,713
B	No. of Days -YTD	304
C	A x B	42,776,814
D	Total Operating expenses excluding depreci	248,823
E	<b>Days cash on hand</b>	<b>172</b>

**Days' Liquidity**

A	Unrestricted cash , cash equivalents & revo	175,713
B	No. of Days -YTD	304
C	A x B	53,416,814
D	Total Operating expenses excluding depreci	248,823
E	<b>Days liquidity</b>	<b>215</b>

**DAYS' CASH & DAY'S LIQUIDITY**

GPA Work Session - August 23, 2018 - DIVISION REPORTS

GPA 302 13-Aug-18		GUAM POWER AUTHORITY ACCRUED REVENUE JULY 2018			
		FOR THE MONTH ENDED JULY		TEN MONTHS ENDED JULY	
		2018	2017	2018	2017
KWH SALES:					
Residential		41,361,122	45,094,364	418,390,923	420,409,867
Small Gen. Non Demand		6,743,157	7,087,373	68,553,439	69,530,168
Small Gen. Demand		15,161,689	15,839,125	155,303,386	158,053,260
Large General		25,339,577	27,119,633	259,070,026	262,103,184
Independent Power Producer		30,088	82,800	419,755	869,484
Private St. Lights		34,288	35,412	334,612	382,552
	Sub-total	88,669,920	95,258,706	902,072,142	911,348,514
Government Service:					
Small Non Demand		1,128,046	1,254,979	12,031,467	11,412,652
Small Demand		7,182,975	7,962,644	78,222,446	80,646,847
Large		5,707,305	6,219,351	62,597,150	61,883,821
Street Lighting		903,135	638,971	7,468,888	7,940,475
	Sub-total	14,921,461	16,075,944	160,319,952	161,883,795
	Total	103,591,381	111,334,651	1,062,392,094	1,073,232,309
U. S. Navy		25,089,942	27,892,205	258,377,165	265,070,860
	GRAND TOTAL	128,681,323	139,226,856	1,320,769,259	1,338,303,169
REVENUE:					
Residential		10,379,963	9,056,344	98,516,278	81,951,847
Small Gen. Non Demand		1,975,429	1,709,931	18,922,871	16,354,075
Small Gen. Demand		4,181,623	3,527,191	40,168,823	34,413,087
Large General		6,510,707	5,589,484	62,321,065	52,506,462
Independent Power Producer		9,619	17,270	100,794	179,151
Private St. Lights		26,302	25,099	256,458	256,503
	Sub-total	23,083,643	19,925,320	220,286,289	185,661,124
Government Service:					
Small Non Demand		343,795	319,135	3,455,544	2,847,605
Small Demand		2,081,391	1,907,628	21,222,070	18,727,533
Large		1,609,173	1,424,292	16,438,532	13,830,841
Street Lighting		568,447	418,012	4,580,813	4,485,840
	Sub-total	4,602,806	4,069,066	45,696,960	39,891,819
	Total	27,686,449	23,994,386	265,983,249	225,552,943
U. S. Navy		5,217,194	5,331,702	48,604,311	44,559,869
	GRAND TOTAL	32,903,643	29,326,087	314,587,559	270,112,812
NUMBER OF CUSTOMERS:					
Residential		44,003	43,866	44,018	43,712
Small Gen. Non Demand		4,183	4,131	4,155	4,127
Small Gen. Demand		982	984	985	988
Large General		119	116	119	116
Independent Power Producer		2	3	3	4
Private St. Lights		531	526	530	525
	Sub-total	49,820	49,626	49,809	49,471
Government Service:					
Small Non Demand		690	678	686	682
Small Demand		351	352	351	347
Large		47	45	47	45
Street Lighting		612	297	463	245
	Sub-total	1,700	1,372	1,547	1,319
	Total	51,520	50,998	51,356	50,790
US Navy		1	1	1	1
		51,521	50,999	51,357	50,791

GPA Work Session - August 23, 2018 - DIVISION REPORTS

GPA403 13-Aug-18		GUAM POWER AUTHORITY ACCRUED REVENUE												
	TWELVE MONTHS ENDING	July 2018	June 2018	May 2018	APRIL 2018	MARCH 2018	FEBRUARY 2018	JANUARY 2018	DECEMBER 2017	NOVEMBER 2017	OCTOBER 2017	SEPTEMBER 2017	AUGUST 2017	
KWH SALES:														
Residential	504,316,658	41,361,122	42,056,621	44,782,019	41,394,961	41,541,824	36,809,815	42,067,765	43,307,944	43,386,853	41,682,000	41,491,015	44,434,719	
Small General Non Demand	82,922,971	6,743,157	6,840,318	7,216,684	6,694,385	6,976,607	6,154,115	6,844,713	6,956,278	7,060,041	7,067,142	7,022,092	7,347,440	
Small General Demand	187,301,051	15,161,689	15,360,000	16,316,998	15,390,268	15,917,309	14,164,319	15,562,774	15,848,505	15,789,397	15,792,127	15,509,408	16,488,257	
Large General	311,540,074	25,339,577	25,263,128	26,377,222	25,681,619	26,155,199	23,674,407	26,242,185	27,485,887	26,267,661	26,583,141	25,432,034	27,038,013	
Private Outdoor Lighting	444,468	34,288	37,088	34,126	27,531	32,791	32,408	32,358	35,129	35,042	33,851	76,532	33,324	
Independent Power Producer	512,094	30,088	25,238	26,295	27,405	28,536	28,976	27,011	40,140	93,823	92,244	34,586	57,754	
Sub-Total	1,087,037,316	88,669,920	89,582,394	94,753,344	89,216,169	90,652,265	80,864,040	90,776,805	93,673,883	92,632,817	91,250,505	89,565,666	95,399,508	
Government Service:														
Small Non Demand	14,521,060	1,128,046	1,157,839	1,224,286	1,180,911	1,193,794	1,119,571	1,248,251	1,272,026	1,255,131	1,251,612	1,246,106	1,243,487	
Small Demand	94,454,200	7,182,975	7,404,715	8,098,401	7,720,850	7,889,205	7,377,578	8,102,981	8,063,549	8,098,974	8,283,218	8,084,368	8,147,386	
Large	75,611,298	5,707,305	5,896,149	6,622,597	6,142,309	6,226,210	5,905,830	6,315,619	6,812,255	6,550,623	6,418,254	6,493,449	6,520,699	
Street Lighting (Agencies)	9,043,021	903,135	795,661	761,901	699,601	743,499	669,689	716,067	697,921	668,464	812,949	697,002	877,130	
Sub-Total	193,629,579	14,921,461	15,254,364	16,707,185	15,743,671	16,052,709	15,072,669	16,382,918	16,845,750	16,573,193	16,766,033	16,520,925	16,788,702	
Total	1,280,666,895	103,591,381	104,836,757	111,460,529	104,959,840	106,704,974	95,936,708	107,159,724	110,519,633	109,206,010	108,016,537	106,086,591	112,188,210	
U.S. Navy	311,892,206	25,089,942	24,891,007	26,624,376	25,605,624	25,988,485	23,304,608	26,722,147	28,067,673	26,837,883	25,245,420	26,906,320	26,608,721	
Grand Total	1,592,559,101	128,681,323	129,727,764	138,084,906	130,565,464	132,693,459	119,241,316	133,881,870	138,587,306	136,043,893	133,261,957	132,992,911	138,796,930	
REVENUE:														
Residential	\$ 117,166,408	\$ 10,379,963	\$ 10,487,819	\$ 11,371,498	\$ 10,082,308	\$ 10,154,660	\$ 9,633,432	\$ 8,985,179	\$ 9,238,911	\$ 9,263,463	\$ 8,919,044	\$ 8,887,320	\$ 9,762,810	
Small General Non Demand	\$ 22,609,528	\$ 1,975,429	\$ 1,969,294	\$ 2,127,563	\$ 1,903,541	\$ 1,988,097	\$ 1,869,658	\$ 1,741,922	\$ 1,765,223	\$ 1,789,263	\$ 1,792,881	\$ 1,783,997	\$ 1,902,660	
Small General Demand	\$ 47,825,253	\$ 4,181,623	\$ 4,150,658	\$ 4,513,787	\$ 4,108,079	\$ 4,266,730	\$ 4,006,949	\$ 3,714,258	\$ 3,769,415	\$ 3,699,298	\$ 3,758,026	\$ 3,692,273	\$ 3,964,157	
Large General	\$ 73,992,663	\$ 6,510,707	\$ 6,533,909	\$ 6,798,955	\$ 6,399,879	\$ 6,565,683	\$ 6,086,686	\$ 5,762,313	\$ 6,067,740	\$ 5,793,817	\$ 5,801,375	\$ 5,643,059	\$ 6,028,539	
Private Outdoor Lighting	\$ 306,912	\$ 26,302	\$ 27,542	\$ 26,776	\$ 22,912	\$ 25,785	\$ 25,733	\$ 25,133	\$ 25,553	\$ 25,471	\$ 25,250	\$ 25,361	\$ 25,094	
Independent Power Producer	\$ 132,674	\$ 9,619	\$ 6,601	\$ 7,068	\$ 7,057	\$ 7,406	\$ 7,969	\$ 6,029	\$ 9,249	\$ 20,053	\$ 19,744	\$ 17,076	\$ 14,804	
Sub-Total	\$ 262,033,439	\$ 23,083,643	\$ 23,175,823	\$ 24,845,648	\$ 22,523,776	\$ 23,008,362	\$ 21,630,428	\$ 20,234,834	\$ 20,876,091	\$ 20,591,366	\$ 20,316,320	\$ 20,049,087	\$ 21,698,063	
Government Service:														
Small Non Demand	\$ 4,120,948	\$ 343,795	\$ 354,533	\$ 372,707	\$ 350,949	\$ 356,541	\$ 335,126	\$ 332,434	\$ 341,017	\$ 334,963	\$ 333,478	\$ 333,079	\$ 332,325	
Small Demand	\$ 25,324,616	\$ 2,081,391	\$ 2,159,463	\$ 2,323,025	\$ 2,164,585	\$ 2,224,973	\$ 2,094,220	\$ 2,016,922	\$ 2,046,340	\$ 2,043,720	\$ 2,067,433	\$ 2,050,292	\$ 2,052,253	
Large	\$ 19,587,057	\$ 1,609,173	\$ 1,667,786	\$ 1,840,797	\$ 1,676,200	\$ 1,707,269	\$ 1,628,297	\$ 1,525,771	\$ 1,652,805	\$ 1,583,988	\$ 1,546,446	\$ 1,575,080	\$ 1,573,445	
Street Lighting (Agencies)	\$ 5,533,669	\$ 568,447	\$ 477,183	\$ 477,272	\$ 452,952	\$ 455,729	\$ 439,995	\$ 427,482	\$ 416,951	\$ 419,351	\$ 445,451	\$ 436,808	\$ 516,047	
Sub-Total	\$ 54,566,288	\$ 4,602,806	\$ 4,658,965	\$ 5,013,801	\$ 4,644,687	\$ 4,744,512	\$ 4,497,638	\$ 4,302,609	\$ 4,457,113	\$ 4,382,022	\$ 4,392,807	\$ 4,395,259	\$ 4,474,070	
Total	\$ 316,599,728	\$ 27,686,449	\$ 27,834,788	\$ 29,859,448	\$ 27,168,463	\$ 27,752,874	\$ 26,128,065	\$ 24,537,443	\$ 25,333,204	\$ 24,973,388	\$ 24,709,127	\$ 24,444,346	\$ 26,172,133	
U.S. Navy	\$ 58,949,076	\$ 5,217,194	\$ 4,618,042	\$ 5,005,555	\$ 5,623,411	\$ 5,202,943	\$ 4,155,974	\$ 5,033,103	\$ 4,642,130	\$ 4,254,065	\$ 4,851,893	\$ 5,325,383	\$ 5,019,382	
Grand Total	\$ 375,548,803	\$ 32,903,643	\$ 32,452,830	\$ 34,865,003	\$ 32,791,874	\$ 32,955,817	\$ 30,284,040	\$ 29,570,546	\$ 29,975,334	\$ 29,227,453	\$ 29,561,020	\$ 29,769,728	\$ 31,191,516	
NUMBER OF CUSTOMERS:														
Residential	44,011	44,003	44,074	44,086	43,991	44,065	43,995	44,119	43,898	43,996	43,950	43,991	43,969	
Small General Non Demand	4,151	4,183	4,173	4,172	4,183	4,154	4,153	4,142	4,129	4,131	4,134	4,127	4,134	
Small General Demand	984	982	984	988	988	987	991	981	981	981	982	980	981	
Large General	118	119	119	119	119	119	119	119	118	117	119	116	115	
Private Outdoor Lighting	529	531	532	533	536	526	527	527	530	527	530	526	527	
Independent Power Producer	3	2	2	2	2	2	2	2	3	3	3	3	3	
Sub-Total	49,797	49,820	49,884	49,900	49,819	49,853	49,786	49,890	49,659	49,756	49,718	49,743	49,729	
Government Service:														
Small Non Demand	684	690	694	691	692	689	684	686	679	678	676	675	678	
Small Demand	351	351	351	350	350	350	351	350	350	354	351	353	351	
Large	47	47	47	47	47	47	47	47	47	47	46	45	45	
Street Lighting (Agencies)	436	612	559	526	513	479	421	389	378	378	377	297	297	
Sub-Total	1,517	1,700	1,651	1,614	1,602	1,565	1,503	1,472	1,454	1,457	1,450	1,370	1,371	
Total	51,314	51,520	51,535	51,514	51,421	51,418	51,289	51,362	51,113	51,213	51,168	51,113	51,100	
U.S. Navy	1	1	1	1	1	1	1	1	1	1	1	1	1	
Grand Total	51,315	51,521	51,536	51,515	51,422	51,419	51,290	51,363	51,114	51,214	51,169	51,114	51,101	



## GPA Work Session - August 23, 2018 - DIVISION REPORTS

GPA303

GUAM POWER AUTHORITY  
ACCURED REVENUE  
JULY 2017

RATE	NUMBER OF CUSTOMERS	KWH SALES	TOTAL REVENUE		BASE RATE REVENUE		AVERAGE PER CUSTOMER		NON-FUEL		0.154242 FUEL	
			AMOUNT	C/KWH	C/KWH	AMOUNT	KWH	REVENUE	C/KWH	AMOUNT	C/KWH	AMOUNT
Month									0.154242			
R Residential	44,003	41,361,122	10,379,963	25.10	25.10	10,379,963	940	236	9.6717	4,000,341	15.4242	6,379,622
G Small Gen. Non Demand	4,183	6,743,157	1,975,429	29.30	29.30	1,975,429	1,612	472	13.8711	935,351	15.4242	1,040,078
J Small Gen. Demand	982	15,161,689	4,181,623	27.58	27.58	4,181,623	15,440	4,258	12.1615	1,843,889	15.4187	2,337,734
P Large General	119	25,339,577	6,510,707	25.69	25.69	6,510,707	212,938	54,712	10.3339	2,618,565	15.3599	3,892,141
I Independent Power Produce	2	30,088	9,619	31.97	31.97	9,619	15,044	4,809	17.1053	5,147	14.8639	4,472
H Private St. Lights	531	34,288	26,302	76.71	76.71	26,302	65	50	61.2850	21,013	15.4242	5,289
Sub-Total	49,820	88,669,920	23,083,643	26.03	26.03	23,083,643	1,780	463	10.6090	9,424,306	15.4242	13,659,337
Government Service:												
S Small Non Demand	690	1,128,046	343,795	30.48	30.48	343,795	1,635	498	15.0529	169,803	15.4242	173,992
K Small Demand	351	7,182,975	2,081,391	28.98	28.98	2,081,391	20,464	5,930	13.5525	973,474	15.4242	1,107,916
L Large	47	5,707,305	1,609,173	28.19	28.19	1,609,173	121,432	34,238	12.9702	740,250	15.2247	868,923
F Street Lighting (Agencies)	612	903,135	568,447	62.94	62.94	568,447	1,476	929	47.5173	429,146	15.4242	139,301
Sub-Total	1,700	14,921,461	4,602,806	30.85	30.85	4,602,806	8,777	2,708	15.4227	2,312,674	15.4242	2,290,132
U.S. Navy	51,520	103,591,381	27,686,449	26.73	26.73	27,686,449	2,011	537	11.3024	11,736,980	15.4242	15,949,469
	1	25,089,942	5,217,194	20.79	20.79	5,217,194			6.8124	1,709,225	13.9816	3,507,969
TOTAL	51,521	128,681,323	32,903,643	25.57	25.57	32,903,643	2,498	639	10.4492	13,446,204	15.1206	19,457,438
Ten Months Ended July 2018												
R Residential	44,018	418,390,923	98,516,278	23.55	23.55	98,516,278	9,505	2,238	9.6195	40,246,967	13.9270	58,269,310
G Small Gen. Non Demand	4,155	68,553,439	18,922,871	27.60	27.60	18,922,871	16,497	4,554	13.6725	9,372,976	13.9306	9,549,895
J Small Gen. Demand	985	155,303,386	40,168,823	25.86	25.86	40,168,823	157,732	40,797	11.9735	18,595,284	13.8912	21,573,539
P Large General	119	259,070,026	62,321,065	24.06	24.06	62,321,065	2,184,402	525,473	10.3647	26,851,829	13.6910	35,469,236
I Independent Power Produce	3	419,755	100,794	24.01	24.01	100,794	144,743	34,757	11.3770	47,756	12.6356	53,039
H Private St. Lights	530	334,612	256,458	76.64	76.64	256,458	631	484	62.9012	210,475	13.7422	45,983
Sub-Total	49,809	902,072,142	220,286,289	24.42	24.42	220,286,289	18,111	4,423	10.5674	95,325,287	13.8527	124,961,002
Government Service:												
S Small Non Demand	684	12,031,467	3,455,544	28.72	28.72	3,455,544	17,581	5,050	15.0250	1,807,725	13.6959	1,647,819
K Small Demand	351	78,222,446	21,222,070	27.13	27.13	21,222,070	222,856	60,462	13.4310	10,506,055	13.6994	10,716,015
L Large	47	62,597,150	16,438,532	26.26	26.26	16,438,532	1,343,767	352,884	12.7286	7,967,732	13.5322	8,470,800
F Street Lighting (Agencies)	436	7,468,888	4,580,813	61.33	61.33	4,580,813	17,150	10,519	47.5210	3,549,287	13.8110	1,031,526
Sub-Total	1,517	160,319,952	45,696,960	28.50	28.50	45,696,960	105,653	30,115	14.8645	23,830,800	13.6391	21,866,160
U.S. Navy	51,327	1,062,392,094	265,983,249	25.04	25.04	265,983,249	20,699	5,182	11.2158	119,156,087	13.8204	146,827,162
	1	258,377,165	48,604,311	18.81	18.81	48,604,311			6.2312	16,099,964	12.5802	32,504,347
TOTAL	51,328	1,320,769,259	314,587,559	23.82	23.82	314,587,559	25,732	6,129	10.2407	135,256,051	13.5778	179,331,508
Twelve Months Ended July 2018												
R Residential	44,011	504,316,858	117,166,408	23.23	23.23	117,166,408	11,459	2,662	9.6181	48,505,818	13.6146	68,660,590
G Small Gen. Non Demand	4,151	82,922,971	22,609,528	27.27	27.27	22,609,528	19,975	5,446	13.6555	11,323,561	13.6102	11,285,967
J Small Gen. Demand	984	187,301,051	47,825,253	25.53	25.53	47,825,253	190,363	48,607	11.9614	22,403,851	13.5725	25,421,402
P Large General	118	311,540,074	73,992,663	23.75	23.75	73,992,663	2,638,307	626,614	10.3827	32,346,228	13.3679	41,646,435
I Independent Power Produce	3	512,094	132,674	25.91	25.91	132,674	176,584	45,750	12.5651	64,345	13.3431	68,329
H Private St. Lights	529	444,468	306,912	69.05	69.05	306,912	840	580	56.9074	252,935	12.1443	53,977
Sub-Total	49,797	1,087,037,316	262,033,439	24.11	24.11	262,033,439	21,829	5,262	10.5697	114,896,738	13.5356	147,136,701
Government Service:												
S Small Non Demand	684	14,521,060	4,120,948	28.38	28.38	4,120,948	21,219	6,022	15.0131	2,180,059	13.3660	1,940,888
K Small Demand	351	94,454,200	25,324,616	26.81	26.81	25,324,616	269,100	72,150	13.4434	12,697,831	13.3682	12,626,785
L Large	47	75,611,298	19,587,057	25.90	25.90	19,587,057	1,623,141	420,473	12.7001	9,602,730	13.2048	9,984,326
F Street Lighting (Agencies)	436	9,043,021	5,533,669	61.19	61.19	5,533,669	20,765	12,706	47.7367	4,316,839	13.4560	1,216,830
Sub-Total	1,517	193,629,579	54,566,288	28.18	28.18	54,566,288	127,605	35,960	14.8724	28,797,459	13.3083	25,768,829
U.S. Navy	51,314	1,280,666,895	316,599,728	24.72	24.72	316,599,728	24,957	41,222	11.2203	143,694,197	13.5012	172,905,530
	1	311,892,206	58,949,076	18.90	18.90	58,949,076			6.3100	19,680,492	12.5904	39,268,583
TOTAL	51,315	1,592,559,101	375,548,803	23.58	23.58	375,548,803	31,035	7,318	10.2586	163,374,689	13.3228	212,174,114

GPA Work Session - August 23, 2018 - DIVISION REPORTS

GPA-318  
318Jul18

ENERGY ACCOUNT  
FY 2018 Versus FY 2017

FOR INTERNAL USE ONLY

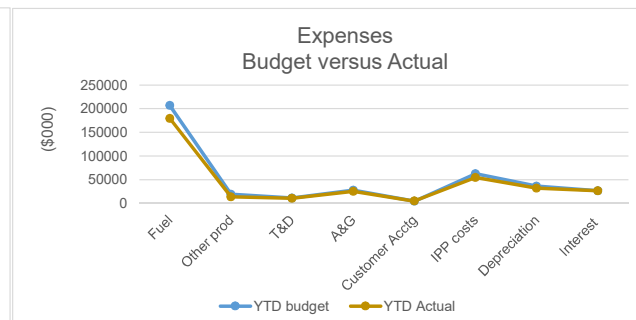
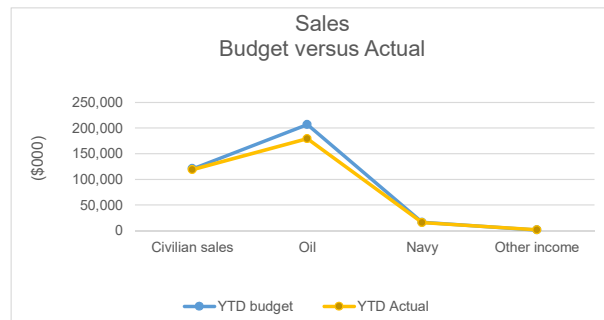
	July 2018		July 2017		Y T D 2018		Y T D 2017		MOVING TWELVE MONTHS	
Gross Generation	31		31		304		273		365	
Number of days in Period	242		252		254		257		261	
Peak demand	07/02/18		07/31/17		10/30/17		06/13/17		08/01/17	
Date	KWH	% change	KWH	% change	KWH	% change	KWH	% change	KWH	% change
<b>Energy Account:</b>										
<b>Kilowatt hours GPA:</b>										
Cabras 1 & 2	44,590,000		40,003,000		544,441,000		624,349,000		615,085,000	
Cabras No. 3	0		0		0		0		0	
Cabras No. 4	0		0		0		0		0	
MEC (ENRON) Piti 8 (IPP)	27,134,300		24,376,400		267,891,400		261,987,200		325,537,900	
MEC (ENRON) Piti 9 (IPP)	24,960,900		29,047,100		273,050,200		251,300,300		329,812,200	
TEMES Piti 7 (IPP)	6,556,185		8,613,974		23,175,648		25,716,301		44,440,715	
Tanguisson 2	0		0		0		0		0	
Tanguisson 1	0		0		0		0		0	
<b>Diesels/CT's &amp; Others:</b>										
MDI 10MW	16,756		0		971,636		2,244,937		984,326	
NRG Solar Dandan	3,216,552		3,514,247		39,687,744		35,410,781		47,467,765	
Dededo CT #1	585,620		1,125,760		7,223,220		1,780,740		12,565,780	
Dededo CT #2	1,016,520		1,264,600		7,067,930		2,886,382		10,014,140	
Macheche CT	4,305,002		7,016,044		45,356,134		39,488,332		61,435,358	
Yigo CT (Leased)	5,806,500		6,165,242		39,009,900		29,908,466		50,477,381	
Tenjo	3,015,110		4,404,660		38,375,730		34,166,030		49,667,180	
Talofofo 10 MW	493,350		2,473,110		13,297,320		13,963,250		18,105,460	
Aggreko	18,222,263		22,288,912		146,721,699		143,656,067		176,512,171	
Wind Turbine*	3,836		25,042		311,968		370,772		328,390	
Orote	0		0		0		0		0	
Marbo	0		0		0		0		0	
	<b>139,922,894</b>		<b>150,318,091</b>		<b>1,446,581,528</b>		<b>1,467,228,558</b>		<b>1,742,433,766</b>	
Ratio to last year		93.08		99.71		98.59		102.49		99.20
Station use	4,743,461		4,731,976		52,110,922		56,413,456		61,592,462	
Ratio to Gross generation		3.39		3.15		3.60		3.84		3.53
Net send out	135,179,434		145,586,114		1,394,470,606		1,410,815,102		1,680,841,304	
Ratio to last year		92.85		100.01		98.84		102.46		99.47
<b>KWH deliveries:</b>										
<b>Sales to Navy (@34.5kv)</b>	<b>25,089,942</b>		<b>27,892,205</b>		<b>258,377,165</b>		<b>265,070,862</b>		<b>311,892,206</b>	
Ratio to last year		89.95		104.23		97.47		100.00		98.06
<b>GPA-metered</b>	<b>110,089,492</b>		<b>117,693,909</b>		<b>1,136,093,441</b>		<b>1,145,744,240</b>		<b>1,368,949,098</b>	
Ratio to last year		93.54		99.06		99.16		103.05		99.79
Power factor adj.	0		0		0		0		0	
Adjusted	110,089,492		117,693,909		1,136,093,441		1,145,744,240		1,368,949,098	
<b>GPA KWH Accountability:</b>										
<b>Sales to civilian customers-accrual basis</b>	<b>103,591,381</b>		<b>111,334,651</b>		<b>1,062,392,093</b>		<b>1,073,232,311</b>		<b>1,280,666,894</b>	
Ratio to last year		93.05		98.03		98.99		102.79		99.63
GPA use-KWH	356,321		274,614		3,265,724		2,616,925		3,793,037	
Unaccounted For	6,141,790		6,084,644		70,435,624		69,895,005		84,489,167	
Ratio to deliveries		5.58		5.17		6.20		6.10		6.17
Ratio to Gross Generation		4.39		4.05		4.87		4.76		4.85
Ratio to Net Send Out		4.54		4.18		5.05		4.95		5.03

GPA-317Jul18

**Guam Power Authority**  
**Fuel Consumption**  
**FY 2018**

Description	July 2018		YEAR-TO-DATE		MOVING 12 MONTHS	
	BARRELS	AMOUNT	BARRELS	AMOUNT	BARREL S	AMOUNT
<b>FUEL FURNISHED:</b>						
<b>NAVY:</b>						
Diesel	0	0	0	0	0	0
Low Sulfur	0	0	0	0	0	0
	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>GPA:</b>						
RFO	114,304	\$7,759,879	1,402,759	\$ 88,417,395	1,552,667	\$ 96,903,472
Diesel	81,611	\$7,928,405	643,206	\$ 56,440,797	861,572	\$ 72,028,469
Low Sulfur	34,092	\$2,133,165	229,822	\$ 13,930,230	350,030	\$ 21,338,345
Deferred Fuel Costs	0	\$482,199	0	\$ 8,328,374	0	\$ 5,627,830
Fuel Adjustments	0	\$16,218		\$(747,541)	0	\$(886,136)
Fuel Handling Costs	0	\$1,137,573	0	\$ 12,962,259	0	\$ 17,162,138
	<b>230,007</b>	<b>\$19,457,438</b>	<b>2,275,786</b>	<b>\$ 179,331,513</b>	<b>2,764,269</b>	<b>\$ 212,174,118</b>
<b>IWPS:</b>						
GPA RFO	114,304	\$7,759,879	1,402,759	\$ 88,417,395	1,552,667	\$ 96,903,472
Diesel	81,611	\$7,928,405	643,206	\$ 56,440,797	861,572	\$ 72,028,469
Low Sulfur	34,092	\$2,133,165	229,822	\$ 13,930,230	350,030	\$ 21,338,345
Deferred Fuel Costs	0	\$482,199	0	\$ 8,328,374	0	\$ 5,627,830
Fuel Variance	0	\$16,218	0	\$(747,541)		\$(886,136)
Fuel Handling Costs	0	\$1,137,573	0	\$ 12,962,259	0	\$ 17,162,138
	<b>230,007</b>	<b>\$19,457,438</b>	<b>2,275,786</b>	<b>\$ 179,331,513</b>	<b>2,764,269</b>	<b>\$ 212,174,118</b>
<b>AVERAGE COST/Bbl.</b>						
GPA RFO		<b>\$67.89</b>		<b>\$63.03</b>		<b>\$62.41</b>
Diesel		<b>\$97.15</b>		<b>\$87.75</b>		<b>\$83.60</b>
Low Sulfur		<b>\$62.57</b>		<b>\$60.61</b>		<b>\$60.96</b>
<b>AS BURNED</b>						
<b>Cabras 1 &amp; 2</b>						
RFO	57,137	\$ 3,922,829	769,696	\$ 48,467,660	830,883	\$ 51,931,380
Low Sulfur	21,008	\$ 1,314,498	136,003	\$ 8,247,588	193,810	\$ 11,800,102
Diesel	<u>306</u>	<u>\$ 27,310</u>	<u>1,987</u>	<u>\$ 160,806</u>	<u>3,011</u>	<u>\$ 225,261</u>
	78,451	\$ 5,264,637	907,685	\$ 56,876,054	1,027,704	\$ 63,956,743
<b>Cabras 3 &amp; 4</b>						
RFO	0	\$ -	0	\$ -	0	\$ -
Low Sulfur	0	\$ -	0	\$ -	0	\$ -
Diesel	<u>0</u>	<u>\$ -</u>	<u>0</u>	<u>\$ -</u>	<u>0</u>	<u>\$ -</u>
	0	\$ -	0	\$ -	0	\$ -
<b>MEC (Piti Units 8&amp;9)</b>						
RFO	57,167	\$ 3,837,050	633,063	\$ 39,949,734	721,784	\$ 44,972,092
Low Sulfur	13,084	\$ 818,667	93,819	\$ 5,682,642	156,220	\$ 9,538,243
Diesel	<u>0</u>	<u>\$ -</u>	<u>38</u>	<u>\$ 2,127</u>	<u>38</u>	<u>\$ 2,127</u>
	70,251	\$ 4,655,717	726,919	\$ 45,634,503	878,041	\$ 54,512,462
<b>Diesel &amp; CT's - GPA:</b>						
MDI Dsl	27	\$ 2,004	1,561	\$ 108,767	1,582	\$ 110,103
Macheche CT	8,828	\$ 868,510	97,356	\$ 8,420,350	131,831	\$ 10,898,860
Yigo CT	11,737	\$ 1,141,991	81,938	\$ 7,248,407	105,248	\$ 8,920,152
Talofofo 10 MW	857	\$ 84,897	22,451	\$ 1,982,147	30,831	\$ 2,575,932
Aggreko	33,525	\$ 3,253,595	270,119	\$ 23,605,057	324,638	\$ 27,422,789
Tenjo	5,409	\$ 553,433	65,831	\$ 5,977,637	85,548	\$ 7,433,348
TEMES (IPP)	15,613	\$ 1,454,850	58,845	\$ 5,052,649	110,935	\$ 8,757,772
GWA Generators	<u>429</u>	<u>\$ 50,385</u>	<u>758</u>	<u>\$ 89,092</u>	<u>1,099</u>	<u>\$ 129,238</u>
	81,305	\$ 7,901,095	641,182	\$ 56,277,864	858,524	\$ 71,801,081
Deferred Fuel Costs	0	\$ 482,199		\$ 8,328,374		\$ 5,627,830
Adjustment		\$ 16,218		\$(747,541)		\$(886,136)
Fuel Handling Costs	<u>0</u>	<u>\$ 1,137,573</u>		<u>\$ 12,962,259</u>		<u>\$ 17,162,138</u>
<b>TOTAL</b>	<b>230,007</b>	<b>\$ 19,457,438</b>	<b>2,275,786</b>	<b>\$ 179,331,513</b>	<b>2,764,269</b>	<b>\$ 212,174,118</b>

Statement of operations Comparison-Budget versus Actual For the month and year to date ended July 31, 2018						
	Budget	Actual July-18	Variance	YTD Budget	YTD Actual	Variance
KwH Sales-Civilian	117,800	103,591	14,209	1,082,364	1,062,392	19,972
Non-fuel yield	\$ 0.105655	\$ 0.113301	\$ (0.007647)	\$ 0.111747	\$ 0.112159	\$ (0.000412)
KwH Sales-Navy	26,604	25,090	1,514	263,534	258,377	5,157
Non-fuel yield	\$ 0.061774	\$ 0.068115	\$ (0.006341)	\$ 0.061774	\$ 0.062308	\$ (0.000534)
Operating revenue						
Civilian sales	\$ 13,115	\$ 11,737	\$ 1,378	\$ 120,951	\$ 119,157	\$ 1,794
Oil	22,185	19,457	2,728	206,773	179,331	27,442
Navy	1,643	1,709	(66)	16,280	16,099	181
Other income	169	308	(139)	1,692	1,809	(117)
	37,113	33,211	3,902	345,695	316,396	29,300
Bad debts expense	87	87	0	866	866	0
Total operating revenues	\$ 37,027	\$ 33,125	\$ 3,902	\$ 344,829	\$ 315,530	\$ 29,299
Operating expenses:						
Production fuel	\$ 22,185	\$ 19,457	\$ 2,728	\$ 206,773	\$ 179,332	\$ 27,442
O & M expenses:						
Other production	1,899	1,426	474	19,434	14,025	5,409
Transmission distribution	1,216	1,129	87	11,459	10,806	653
Administrative expense	2,875	2,713	162	27,977	25,519	2,459
Customer accounting	431	443	(12)	4,072	4,382	(310)
	6,421	5,710	711	62,942	54,731	8,211
IPP costs	1,383	1,325	58	14,588	14,760	(172)
Depreciation	3,635	3,479	156	36,349	32,174	4,175
	\$ 33,625	\$ 29,972	\$ 3,652	\$ 320,653	\$ 280,997	\$ 39,656
Operating income	\$ 3,402	\$ 3,152	\$ 250	\$ 24,176	\$ 34,533	\$ (10,357)
Other revenue (expenses):						
Investment income	99	318	(219)	987	2,363	(1,377)
Interest expense	(2,654)	(2,554)	(100)	(26,549)	(26,582)	34
AFUDC	61	129	(68)	608	1,439	(831)
Bond issuance costs/Other expenses	135	(233)	367	1,346	(2,675)	4,021
Net income before capital contribution	1,042	813	229	568	9,078	(8,511)
Grants from the U.S. Government	-	-	-	-	103	(103)
Increase (decrease) in net assets	\$ 1,042	\$ 813	\$ 229	\$ 568	\$ 9,181	\$ (8,614)



**Guam Power Authority**  
**Debt service coverage**  
**July 31, 2018**

	2014	2015	Restated 2016	2017	YTD 2018
<b>Funds Available for Debt Service</b>					
Earnings from Operations	\$ 40,895	\$ 48,758	\$ 37,981	\$ 36,522	\$ 34,533
Interest Income	333	368	1,227	(32)	598
Depreciation Expense	36,989	41,766	44,240	44,292	32,174
Balance Available for Debt Service	\$ 78,217	\$ 90,892	\$ 83,448	\$ 80,782	\$ 67,305
<b>IPP - Capital Costs</b>					
Principal	\$ 13,064	\$ 18,144	\$ 14,819	\$ 21,263	\$ 19,445
Interest	10,020	8,478	5,970	5,137	2,634
Total IPP Payments	\$ 23,084	\$ 26,622	\$ 20,789	\$ 26,400	\$ 22,079
<b>Bond Debt Service</b>					
Principal (1993 & 1999 Revenue Bond)	\$ -	\$ -	\$ -	\$ -	\$ -
Interest (1993 & 1999 Revenue Bond)	-	-	-	-	-
Principal and Interest (2010 Subordinate Bond)	15,193	9,605	-	-	-
Principal and Interest (2010 Senior TE Bond)	7,999	7,999	7,999	7,999	2,000
Principal and Interest (2012 Senior TE Bond)	17,455	17,096	17,098	17,449	14,238
Principal and Interest (2014 Senior TE Bond)	-	-	10	5,084	4,236
Principal and Interest (2017 Senior TE Bond)	-	-	-	-	4,642
Total	\$ 40,647	\$ 34,700	\$ 25,107	\$ 30,532	\$ 25,117
<b>Debt Service Coverage (DSC) Calculation</b>					
Existing DSC Methodology (Senior)	2.17 x	2.56 x	2.50 x	1.78 x	1.80 x
Existing DSC Methodology (Senior+Subordinate)	1.36 x	1.85 x	2.50 x	1.78 x	1.80 x
Bond Covenant DSC	1.92 x	2.62 x	3.32 x	2.65 x	2.68 x
<b>Debt Service Coverage Requirements</b>					
Existing Ratemaking DSC Target	1.75 x	1.75 x	1.75 x	1.75 x	1.75 x
Minimum Bond Covenant Requirement (Senior Bond)	1.30 x	1.30 x	1.30 x	1.30 x	1.30 x
Minimum Bond Covenant Requirement (Subordinate Bond)	1.20 x	1.20 x	1.20 x	1.20 x	1.20 x

**Notes:**

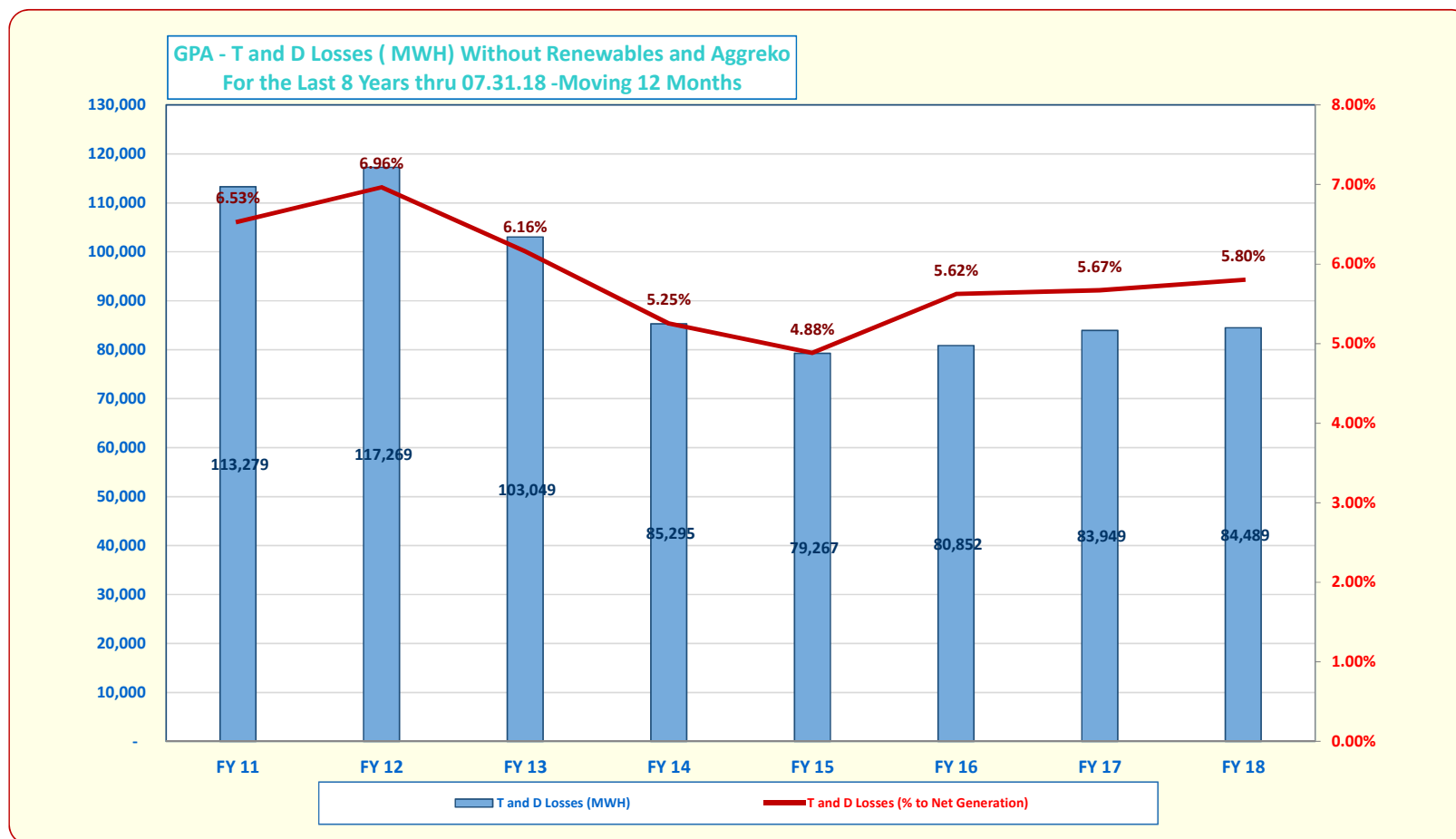
- (1) Source: Guam Power Authority, 2014 - 2017 Audited Financial Statements
- (2) Interest income is net of interest earnings in the Construction Fund and the amortization of deferred credit.
- (3) Existing DSC Methodology (Rating Agency Method):  
 (Operating Earnings + Depreciation Expense - IPP Principal & Interest Payments)/  
 (Senior and Subordinate Bond Principal & Interest Payments)
- (4) Bond Covenant DSC Methodology: (Operating Earnings + Depreciation Expense)/  
 (Senior and Subordinate Bond Principal & Interest Payments)

GPA Work Session - August 23, 2018 - DIVISION REPORTS

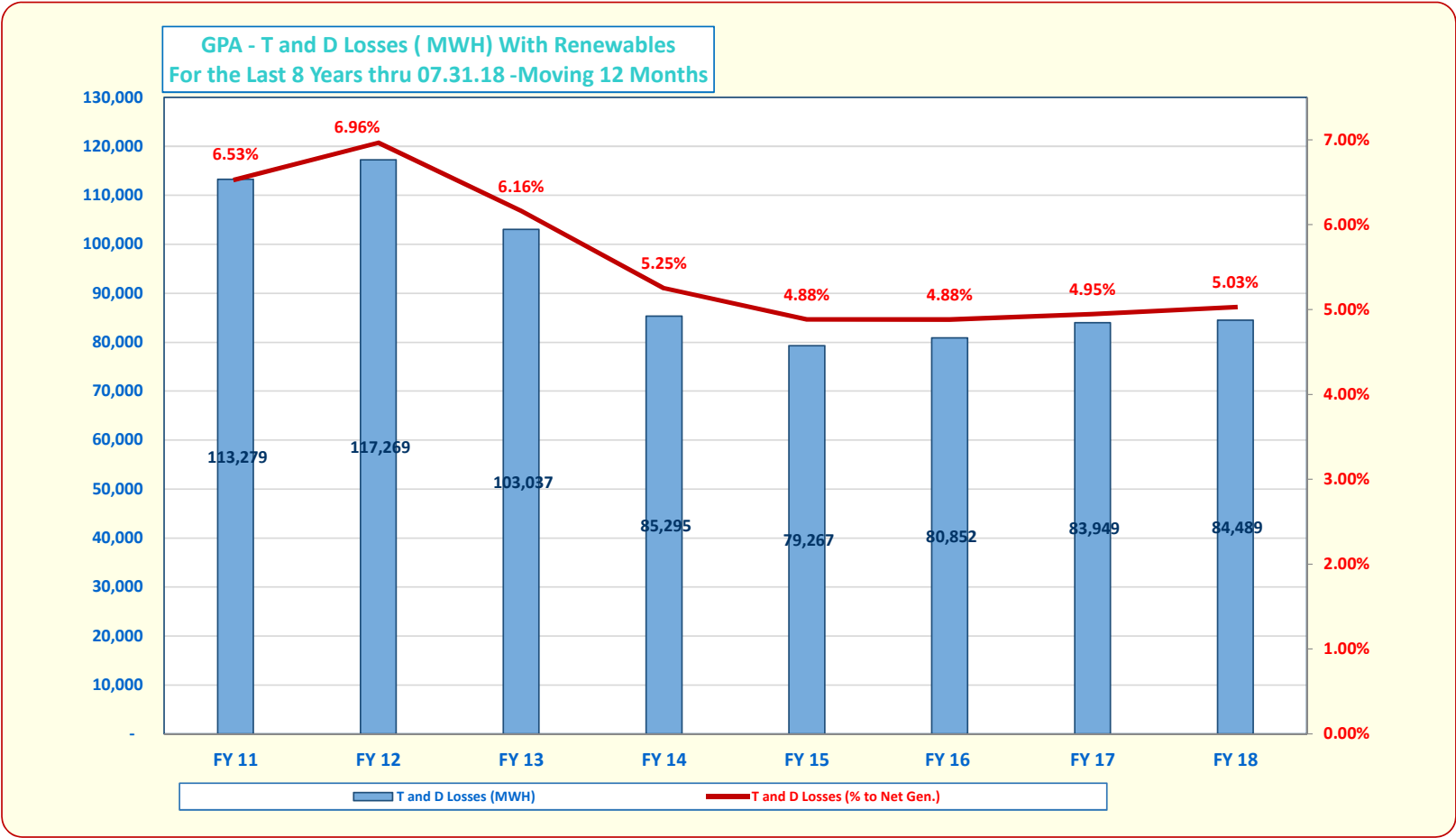
REVENUES-ACTUAL VS PROJECTIONS								
MONTHLY - JULY 2018					YTD THRU 07/31/2018			
	PROJECTIONS	ACTUAL	VARIANCE	% VARIANCE	PROJECTIONS	ACTUAL	VARIANCE	% VARIANCE
KWH								
Residential	47,629,041	41,361,122	(6,267,919)	-13.16%	423,877,930	418,390,923	(5,487,006)	-1.29%
Small General-Non-Demand	7,912,022	6,743,157	(1,168,865)	-14.77%	72,105,558	68,553,439	(3,552,119)	-4.93%
Small General-Demand	17,481,265	15,161,689	(2,319,576)	-13.27%	158,702,555	155,303,386	(3,399,169)	-2.14%
Large	27,916,519	25,339,577	(2,576,942)	-9.23%	265,615,260	259,070,026	(6,545,234)	-2.46%
Independent Power Producers	34,921	30,088	(4,833)	-13.84%	332,257	419,755	87,499	26.33%
Private St. Lites	58,751	34,288	(24,463)	-41.64%	556,474	334,612	(221,862)	-39.87%
Sub-total	101,032,518	88,669,920	(12,362,597)	-12.24%	921,190,034	902,072,142	(19,117,891)	-2.08%
Government								
Small_Non Demand	1,234,935	1,128,046	(106,889)	-8.66%	11,239,678	12,031,467	791,789	7.04%
Small-Demand	8,472,670	7,182,975	(1,289,696)	-15.22%	80,859,708	78,222,446	(2,637,262)	-3.26%
Large	6,252,382	5,707,305	(545,078)	-8.72%	60,895,341	62,597,150	1,701,810	2.79%
Public St. Lites	807,579	903,135	95,556	11.83%	8,179,936	7,468,888	(711,048)	-8.69%
Sub-total	16,767,567	14,921,461	(1,846,106)	-11.01%	161,174,664	160,319,952	(854,712)	-0.53%
Total-Civilian	117,800,085	103,591,381	(14,208,704)	-12.06%	1,082,364,697	1,062,392,094	(19,972,603)	-1.85%
USN	26,603,917	25,089,942	(1,513,974)	-5.69%	263,533,988	258,377,165	(5,156,823)	-1.96%
Grand Total	144,404,001	128,681,323	(15,722,678)	-10.89%	1,345,898,685	1,320,769,259	(25,129,426)	-1.87%
Non-Oil Yield								
Residential	0.096203	0.096717	0.000514	0.53%	0.096203	0.096195	(0.000009)	-0.01%
Small General-Non-Demand	0.136364	0.138711	0.002347	1.72%	0.136364	0.136725	0.000361	0.26%
Small General-Demand	0.119423	0.121615	0.002192	1.84%	0.119423	0.119735	0.000312	0.26%
Large	0.103705	0.103339	(0.000366)	-0.35%	0.103705	0.103647	(0.000058)	-0.06%
Independent Power Producers	0.117983	0.171053	0.053070	0.00%	0.117983	0.113770	(0.004213)	-0.00%
Private St. Lites	0.454278	0.612850	0.158572	34.91%	0.454278	0.629012	0.174734	38.46%
Sub-total	0.105655	0.106285	0.000631	0.60%	0.105734	0.105674	(0.000061)	-0.06%
Government								
Small_Non Demand	0.152255	0.150529	(0.001726)	-1.13%	0.152255	0.150250	(0.002005)	-1.32%
Small-Demand	0.135082	0.135525	0.000443	0.33%	0.135082	0.134310	(0.000772)	-0.57%
Large	0.128102	0.129702	0.001600	1.25%	0.128102	0.127286	(0.000816)	-0.64%
Public St. Lites	0.380746	0.475173	0.094427	24.80%	0.380746	0.475210	0.094463	24.81%
Sub-total	0.145576	0.154990	0.009414	6.47%	0.146110	0.148645	0.002535	1.74%
Total-Civilian	0.111337	0.113301	0.001964	1.76%	0.111747	0.112158	0.000412	0.37%
USN	0.061774	0.068124	0.006350	10.28%	0.061774	0.062312	0.000538	0.87%
Grand Total	0.102206	0.104492	0.002286	2.24%	0.101962	0.102407	0.000445	0.44%
Non-Oil Revenues								
Residential	4,582,075	4,000,341	(581,734)	-12.70%	40,778,494	40,246,967	(531,526)	-1.30%
Small General-Non-Demand	1,078,917	935,351	(143,566)	-13.31%	9,832,620	9,372,976	(459,644)	-4.67%
Small General-Demand	2,087,668	1,843,889	(243,779)	-11.68%	18,952,758	18,595,284	(357,473)	-1.89%
Large	2,895,072	2,618,565	(276,507)	-9.55%	27,545,534	26,851,829	(693,705)	-2.52%
Independent Power Producers	4,120	5,147	1,027	24.92%	39,201	47,756	8,555	21.82%
Private St. Lites	26,689	21,013	(5,676)	-21.27%	252,794	210,475	(42,319)	-16.74%
Sub-total	10,674,541	9,424,306	(1,250,235)	-11.71%	97,401,399	95,325,287	(2,076,112)	-2.13%
Government								
Small_Non Demand	188,024	169,803	(18,221)	-9.69%	1,711,292	1,807,725	96,434	5.64%
Small-Demand	1,144,504	973,474	(171,029)	-14.94%	10,922,675	10,506,055	(416,619)	-3.81%
Large	800,943	740,250	(60,693)	-7.58%	7,800,817	7,967,732	166,914	2.14%
Public St. Lites	307,483	429,146	121,663	39.57%	3,114,480	3,549,287	434,807	13.96%
Sub-total	2,440,954	2,312,674	(128,280)	-5.26%	23,549,264	23,830,800	281,536	1.20%
Total-Civilian	13,115,495	11,736,980	(1,378,515)	-10.51%	120,950,663	119,156,087	(1,794,576)	-1.48%
USN	1,643,429	1,709,225	65,796	4.00%	16,279,538	16,099,964	(179,574)	-1.10%
Grand Total	14,758,924	13,446,204	(1,312,720)	-8.89%	137,230,201	135,256,051	(1,974,150)	-1.44%
% of Total Revenues	39.95%	40.87%			39.89%	42.99%		
Oil Revenues								
Residential	7,317,357	6,379,622	(937,735)	-12.82%	65,121,326	58,269,310	(6,852,016)	-10.52%
Small General-Non-Demand	1,215,542	1,040,078	(175,464)	-14.44%	11,077,740	9,549,895	(1,527,845)	-13.79%
Small General-Demand	2,685,686	2,337,734	(347,952)	-12.96%	24,381,833	21,573,539	(2,808,295)	-11.52%
Large	4,288,878	3,892,141	(396,737)	-9.25%	40,807,074	35,469,236	(5,337,838)	-13.08%
Independent Power Producers	5,365	4,472	(893)	-16.64%	51,045	53,039	1,993	3.90%
Private St. Lites	9,026	5,289	(3,737)	-41.41%	85,492	45,983	(39,509)	-46.21%
Sub-total	15,521,855	13,659,337	(1,862,518)	-12.00%	141,524,511	124,961,002	(16,563,510)	-11.70%
Government								
Small_Non Demand	189,726	173,992	(15,734)	-8.29%	1,726,777	1,647,819	(78,959)	-4.57%
Small-Demand	1,301,676	1,107,916	(193,759)	-14.89%	12,422,660	10,716,015	(1,706,645)	-13.74%
Large	960,568	868,923	(91,645)	-9.54%	9,355,489	8,470,800	(884,689)	-9.46%
Public St. Lites	124,070	139,301	15,231	12.28%	1,256,702	1,031,526	(225,176)	-17.92%
Sub-total	2,576,039	2,290,132	(285,907)	-11.10%	24,761,629	21,866,160	(2,895,469)	-11.69%
Total-Civilian	18,097,894	15,949,469	(2,148,425)	-11.87%	166,286,140	146,827,162	(19,458,978)	-11.70%
USN	4,087,220	3,507,969	(579,251)	-14.17%	40,487,324	32,504,347	(7,982,977)	-19.72%
Grand Total	22,185,114	19,457,438	(2,727,675)	-12.30%	206,773,464	179,331,508	(27,441,955)	-13.27%
% of Total Revenues	60.05%	59.13%			60.11%	57.01%		
Grand Total								
Residential	11,899,433	10,379,963	(1,519,470)	-12.77%	105,899,820	98,516,278	(7,383,543)	-6.97%
Small General-Non-Demand	2,294,459	1,975,429	(319,030)	-13.90%	20,910,360	18,922,871	(1,987,489)	-9.50%
Small General-Demand	4,773,354	4,181,623	(591,731)	-12.40%	43,334,591	40,168,823	(3,165,768)	-7.31%
Large	7,183,950	6,510,707	(673,244)	-9.37%	68,352,608	62,321,065	(6,031,543)	-8.82%
Independent Power Producers	9,485	9,619	134	1.41%	90,246	100,794	10,548	11.69%
Private St. Lites	35,715	26,302	(9,413)	-26.36%	338,286	256,458	(81,828)	-24.19%
Sub-total	26,196,396	23,083,643	(3,112,753)	-11.88%	238,925,911	220,286,289	(18,639,622)	-7.80%
Government								
Small_Non Demand	377,750	343,795	(33,955)	-8.99%	3,438,069	3,455,544	17,475	0.51%
Small-Demand	2,446,179	2,081,391	(364,788)	-14.91%	23,345,335	21,222,070	(2,123,264)	-9.10%
Large	1,761,511	1,609,173	(152,338)	-8.65%	17,156,306	16,438,532	(717,775)	-4.18%
Public St. Lites	431,553	568,447	136,894	31.72%	4,371,182	4,580,813	209,631	4.80%
Sub-total	5,016,993	4,602,806	(414,187)	-8.26%	48,310,892	45,696,960	(2,613,933)	-5.41%
Total-Civilian	31,213,389	27,686,449	(3,526,940)	-11.30%	287,236,803	265,983,249	(21,253,554)	-7.40%
USN	5,730,649	5,217,194	(513,455)	-8.96%	56,766,862	48,604,311	(8,162,551)	-14.38%
Grand Total	36,944,038	32,903,643	(4,040,395)	-10.94%	344,003,665	314,587,559	(29,416,106)	-8.55%

GPA Work Session - August 23. 2018 - DIVISION REPORTS

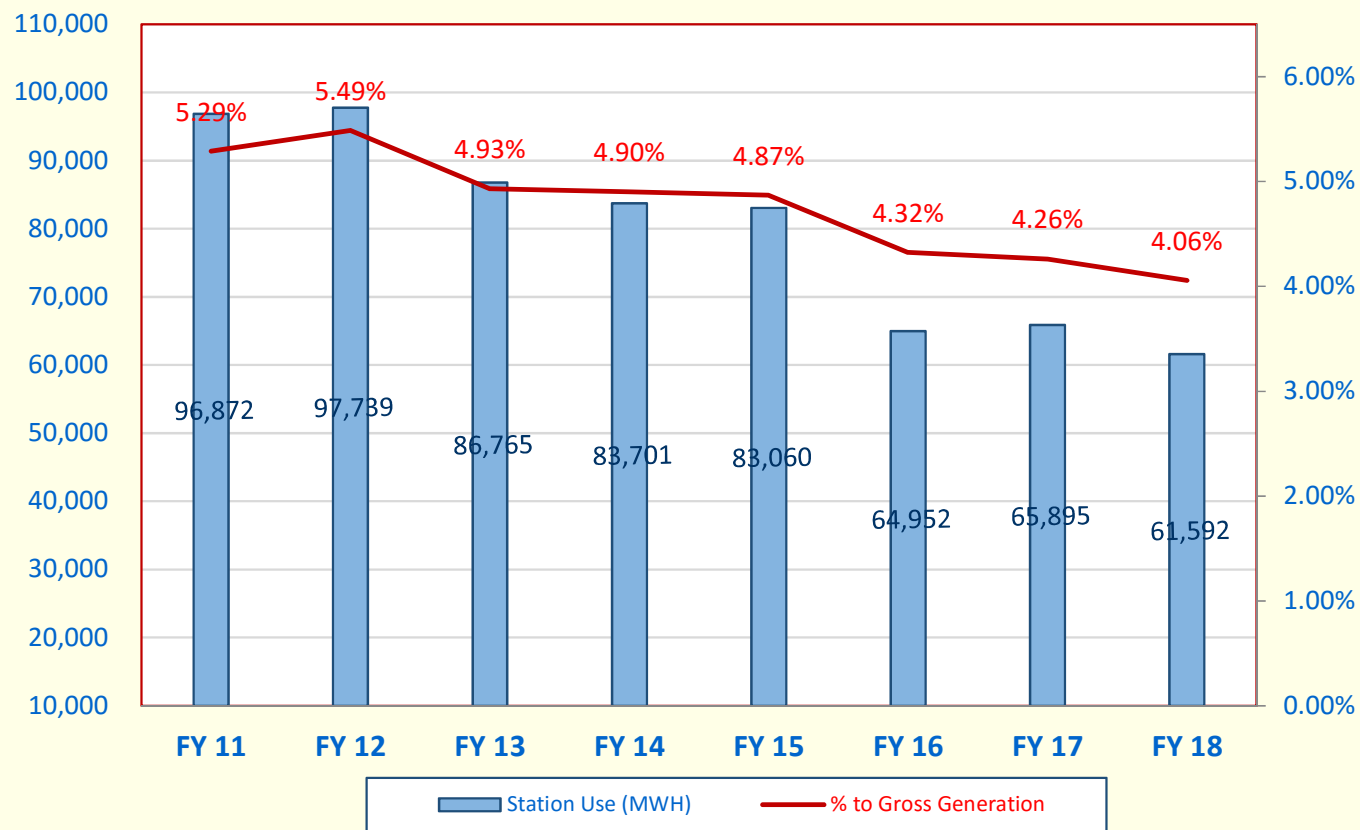
	YTD REVENUES - CURRENT YEAR VS PRIOR YEAR				MTD REVENUES - CURRENT YEAR VS PRIOR YEAR			
	ACTUALS - 10 MONTHS ENDED JULY 31				ACTUALS - MONTH ENDED JULY 31			
	2018	2017	VARIANCE	% VARIANCE	2018	2017	VARIANCE	% VARIANCE
<b>KWH</b>								
Residential	418,390,923	420,409,867	(2,018,943)	-0.48%	41,361,122	45,094,364	(3,733,242)	-8.28%
Small General-Non-Demand	68,553,439	69,530,169	(976,730)	-1.40%	6,743,157	7,087,373	(344,216)	-4.86%
Small General-Demand	155,303,386	158,053,260	(2,749,874)	-1.74%	15,161,689	15,839,125	(677,436)	-4.28%
Large	259,070,026	262,103,183	(3,033,157)	-1.16%	25,339,577	27,119,633	(1,780,057)	-6.56%
Independent Power Producers	419,755	869,484	(449,729)	-51.72%	30,088	82,800	(52,712)	-63.66%
Private St. Lites	334,612	382,552	(47,940)	-12.53%	34,288	35,412	(1,124)	-3.17%
<b>Sub-total</b>	<b>902,072,142</b>	<b>911,348,514</b>	<b>(9,276,372)</b>	<b>-1.02%</b>	<b>88,669,920</b>	<b>95,258,706</b>	<b>(6,588,786)</b>	<b>-6.92%</b>
Government								
Small_Non Demand	12,031,467	11,412,653	618,814	5.42%	1,128,046	1,254,979	(126,933)	-10.11%
Small-Demand	78,222,446	80,646,847	(2,424,401)	-3.01%	7,182,975	7,962,644	(779,669)	-9.79%
Large	62,597,150	61,883,821	713,330	1.15%	5,707,305	6,219,351	(512,046)	-8.23%
Public St. Lites	7,468,888	7,940,474	(471,586)	-5.94%	903,135	638,971	264,164	41.34%
<b>Sub-total</b>	<b>160,319,952</b>	<b>161,883,796</b>	<b>(1,563,843)</b>	<b>-0.97%</b>	<b>14,921,461</b>	<b>16,075,944</b>	<b>(1,154,484)</b>	<b>-7.18%</b>
<b>Total-Civilian</b>	<b>1,062,392,094</b>	<b>1,073,232,310</b>	<b>(10,840,216)</b>	<b>-1.01%</b>	<b>103,591,381</b>	<b>111,334,651</b>	<b>(7,743,270)</b>	<b>-6.95%</b>
USN	258,377,165	265,070,861	(6,693,696)	-2.53%	25,089,942	27,892,205	(2,802,263)	-10.05%
<b>Grand Total</b>	<b>1,320,769,259</b>	<b>1,338,303,170</b>	<b>(17,533,911)</b>	<b>-1.31%</b>	<b>128,681,323</b>	<b>139,226,856</b>	<b>(10,545,533)</b>	<b>-7.57%</b>
<b>Non-Oil Yield</b>								
Residential	0.096195	0.096267	-0.000072	-0.08%	0.096717	0.095780	0.000937	0.98%
Small General-Non-Demand	0.136725	0.136583	0.000142	0.10%	0.138711	0.136213	0.002498	1.83%
Small General-Demand	0.119735	0.119358	0.000377	0.32%	0.121615	0.117671	0.003944	3.35%
Large	0.103647	0.102709	0.000938	0.91%	0.103339	0.101565	0.001774	1.75%
Independent Power Producers	0.000000	0.109790	-0.109790	-100.00%	0.171053	0.106916	0.064138	59.99%
Private St. Lites	0.629012	0.574047	0.054965	9.58%	0.612850	0.603716	0.009134	1.51%
<b>Sub-total</b>	<b>0.105674</b>	<b>0.105414</b>	<b>0.000260</b>	<b>0.25%</b>	<b>0.106285</b>	<b>0.104274</b>	<b>0.002012</b>	<b>1.93%</b>
Government								
Small_Non Demand	0.150250	0.151767	-0.001517	-1.00%	0.150529	0.149244	0.001285	0.86%
Small-Demand	0.134310	0.134684	-0.000374	-0.28%	0.135525	0.134521	0.001004	0.75%
Large	0.127286	0.126211	0.001075	0.85%	0.129702	0.125276	0.004426	3.53%
Public St. Lites	0.475210	0.467844	0.007366	1.57%	0.475173	0.549144	-0.073971	-13.47%
<b>Sub-total</b>	<b>0.148645</b>	<b>0.148991</b>	<b>-0.000346</b>	<b>-0.23%</b>	<b>0.154990</b>	<b>0.148574</b>	<b>0.006416</b>	<b>4.32%</b>
<b>Total-Civilian</b>	<b>0.112158</b>	<b>0.111987</b>	<b>0.000171</b>	<b>0.15%</b>	<b>0.113301</b>	<b>0.110670</b>	<b>0.002630</b>	<b>2.38%</b>
USN	0.062312	0.061655	0.000657	1.07%	0.068124	0.059154	0.008970	15.16%
<b>Grand Total</b>	<b>0.102407</b>	<b>0.102018</b>	<b>0.000389</b>	<b>0.38%</b>	<b>0.104492</b>	<b>0.100350</b>	<b>0.004143</b>	<b>4.13%</b>
<b>Non-Oil Revenues</b>								
Residential	40,246,967	40,471,654	(224,686)	-0.56%	4,000,341	4,319,136	(318,796)	-7.38%
Small General-Non-Demand	9,372,976	9,496,649	(123,673)	-1.30%	935,351	965,396	(30,045)	-3.11%
Small General-Demand	18,595,284	18,864,922	(269,638)	-1.43%	1,843,889	1,863,810	(19,921)	-1.07%
Large	26,851,829	26,920,413	(68,583)	-0.25%	2,618,565	2,754,395	(135,830)	-4.93%
Independent Power Producers	47,756	95,460	(47,705)	-49.97%	5,147	8,853	(3,706)	-41.86%
Private St. Lites	210,475	219,603	(9,128)	-4.16%	21,013	21,379	(365)	-1.71%
<b>Sub-total</b>	<b>95,325,287</b>	<b>96,068,700</b>	<b>(743,413)</b>	<b>-0.77%</b>	<b>9,424,306</b>	<b>9,932,968</b>	<b>(508,662)</b>	<b>-5.12%</b>
Government								
Small_Non Demand	1,807,725	1,732,062	75,664	4.37%	169,803	187,298	(17,495)	-9.34%
Small-Demand	10,506,055	10,861,828	(355,773)	-3.28%	973,474	1,071,144	(97,670)	-9.12%
Large	7,967,732	7,810,415	157,316	2.01%	740,250	779,135	(38,884)	-4.99%
Public St. Lites	3,549,287	3,714,903	(165,615)	-4.46%	429,146	350,887	78,258	22.30%
<b>Sub-total</b>	<b>23,830,800</b>	<b>24,119,207</b>	<b>(288,408)</b>	<b>-1.20%</b>	<b>2,312,674</b>	<b>2,388,464</b>	<b>(75,791)</b>	<b>-3.17%</b>
<b>Total-Civilian</b>	<b>119,156,087</b>	<b>120,187,908</b>	<b>(1,031,821)</b>	<b>-0.86%</b>	<b>11,736,980</b>	<b>12,321,432</b>	<b>(584,453)</b>	<b>-4.74%</b>
USN	16,099,964	16,342,860	(242,895)	-1.49%	1,709,225	1,649,939	59,286	3.59%
<b>Grand Total</b>	<b>135,256,051</b>	<b>136,530,767</b>	<b>(1,274,716)</b>	<b>-0.93%</b>	<b>13,446,204</b>	<b>13,971,371</b>	<b>(525,166)</b>	<b>-3.76%</b>
% of Total Revenues								
<b>Oil Revenues</b>								
Residential	58,269,310	41,480,194	16,789,117	40.48%	6,379,622	4,737,208	1,642,414	34.67%
Small General-Non-Demand	9,549,895	6,857,426	2,692,470	39.26%	1,040,078	744,536	295,542	39.69%
Small General-Demand	21,573,539	15,548,165	6,025,374	38.75%	2,337,734	1,663,381	674,353	40.54%
Large	35,469,236	25,586,050	9,883,187	38.63%	3,892,141	2,835,089	1,057,052	37.28%
Independent Power Producers	53,039	83,691	(30,652)	-36.63%	4,472	8,417	(3,945)	-46.87%
Private St. Lites	45,983	36,900	9,083	24.62%	5,289	3,720	1,569	42.17%
<b>Sub-total</b>	<b>124,961,002</b>	<b>89,592,424</b>	<b>35,368,578</b>	<b>39.48%</b>	<b>13,659,337</b>	<b>9,992,351</b>	<b>3,666,985</b>	<b>36.70%</b>
Government								
Small_Non Demand	1,647,819	1,115,543	532,276	47.71%	173,992	131,837	42,155	31.98%
Small-Demand	10,716,015	7,865,706	2,850,310	36.24%	1,107,916	836,484	271,433	32.45%
Large	8,470,800	6,020,425	2,450,375	40.70%	868,923	645,157	223,766	34.68%
Public St. Lites	1,031,526	770,937	260,588	33.80%	139,301	67,125	72,177	107.53%
<b>Sub-total</b>	<b>21,866,160</b>	<b>15,772,611</b>	<b>6,093,549</b>	<b>38.63%</b>	<b>2,290,132</b>	<b>1,680,602</b>	<b>609,531</b>	<b>36.27%</b>
<b>Total-Civilian</b>	<b>146,827,162</b>	<b>105,365,035</b>	<b>41,462,126</b>	<b>39.35%</b>	<b>15,949,469</b>	<b>11,672,953</b>	<b>4,276,516</b>	<b>36.64%</b>
USN	32,504,347	28,217,009	4,287,337	15.19%	3,507,969	3,681,763	(173,794)	-4.72%
<b>Grand Total</b>	<b>179,331,508</b>	<b>133,582,045</b>	<b>45,749,464</b>	<b>34.25%</b>	<b>19,457,438</b>	<b>15,354,716</b>	<b>4,102,722</b>	<b>26.72%</b>
% of Total Revenues								
<b>Grand Total</b>								
Residential	98,516,278	81,951,847	16,564,430	20.21%	10,379,963	9,056,344	1,323,619	14.62%
Small General-Non-Demand	18,922,871	16,354,075	2,568,796	15.71%	1,975,429	1,709,931	265,497	15.53%
Small General-Demand	40,168,823	34,413,087	5,755,736	16.73%	4,181,623	3,527,191	654,432	18.55%
Large	62,321,065	52,506,462	9,814,603	18.69%	6,510,707	5,589,484	921,222	16.48%
Independent Power Producers	100,794	179,151	(78,357)	-43.74%	9,619	17,270	(7,651)	-44.30%
Private St. Lites	256,458	256,503	(45)	-0.02%	26,302	25,099	1,203	4.79%
<b>Sub-total</b>	<b>220,286,289</b>	<b>185,661,124</b>	<b>34,625,165</b>	<b>18.65%</b>	<b>23,083,643</b>	<b>19,925,320</b>	<b>3,158,323</b>	<b>15.85%</b>
Government								
Small_Non Demand	3,455,544	2,847,605	607,939	21.35%	343,795	319,135	24,660	7.73%
Small-Demand	21,222,070	18,727,533	2,494,537	13.32%	2,081,391	1,907,628	173,763	9.11%
Large	16,438,532	13,830,841	2,607,691	18.85%	1,609,173	1,424,292	184,881	12.98%
Public St. Lites	4,580,813	4,485,840	94,973	2.12%	568,447	418,012	150,435	35.99%
<b>Sub-total</b>	<b>45,696,960</b>	<b>39,891,819</b>	<b>5,805,141</b>	<b>14.55%</b>	<b>4,602,806</b>	<b>4,069,066</b>	<b>533,740</b>	<b>13.12%</b>
<b>Total-Civilian</b>	<b>265,983,249</b>	<b>225,552,943</b>	<b>40,430,306</b>	<b>17.92%</b>	<b>27,686,449</b>	<b>23,994,386</b>	<b>3,692,063</b>	<b>15.39%</b>
USN	48,604,311	44,559,869	4,044,442	9.08%	5,217,194	5,331,702	(114,508)	-2.15%
<b>Grand Total</b>	<b>314,587,559</b>	<b>270,112,812</b>	<b>44,474,748</b>	<b>16.47%</b>	<b>32,903,643</b>	<b>29,326,087</b>	<b>3,577,556</b>	<b>12.20%</b>



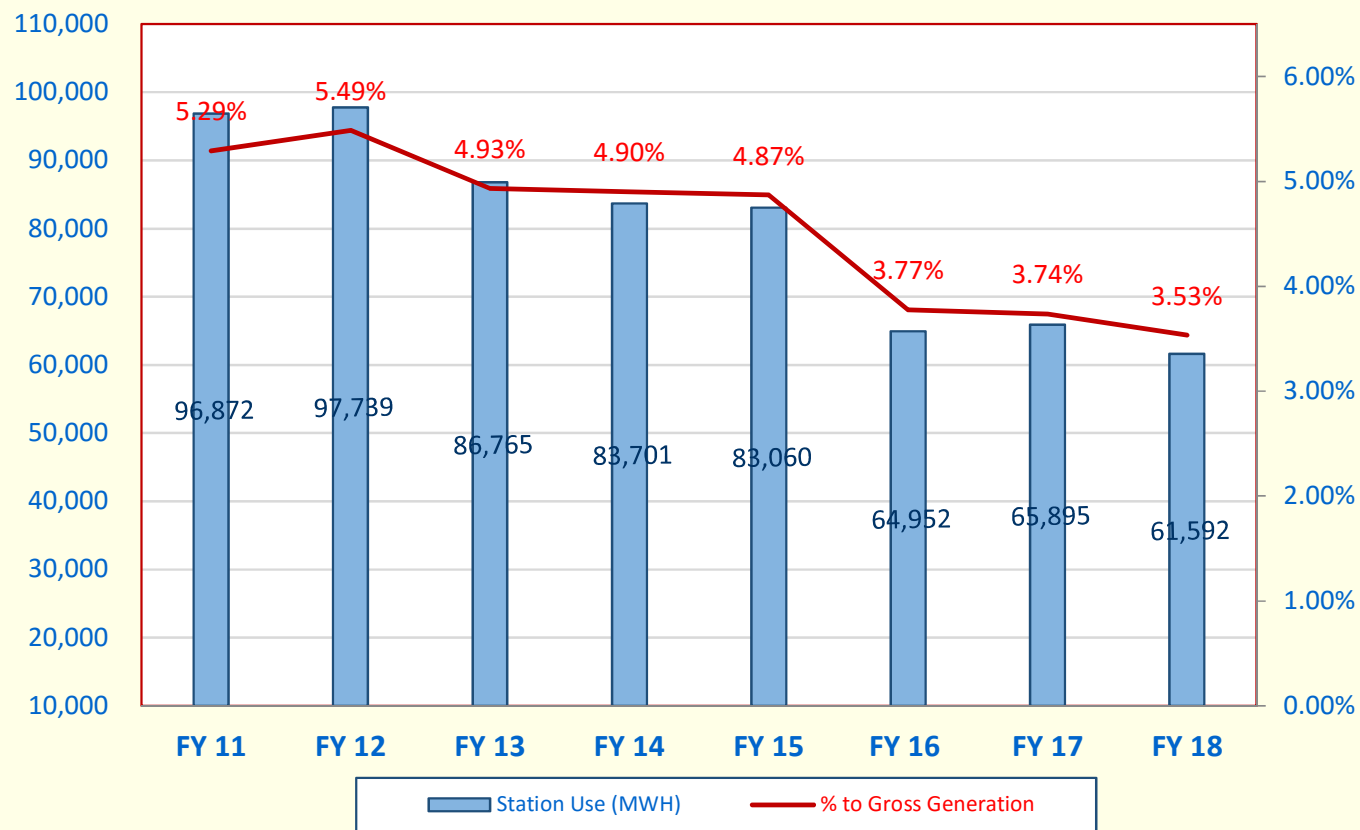


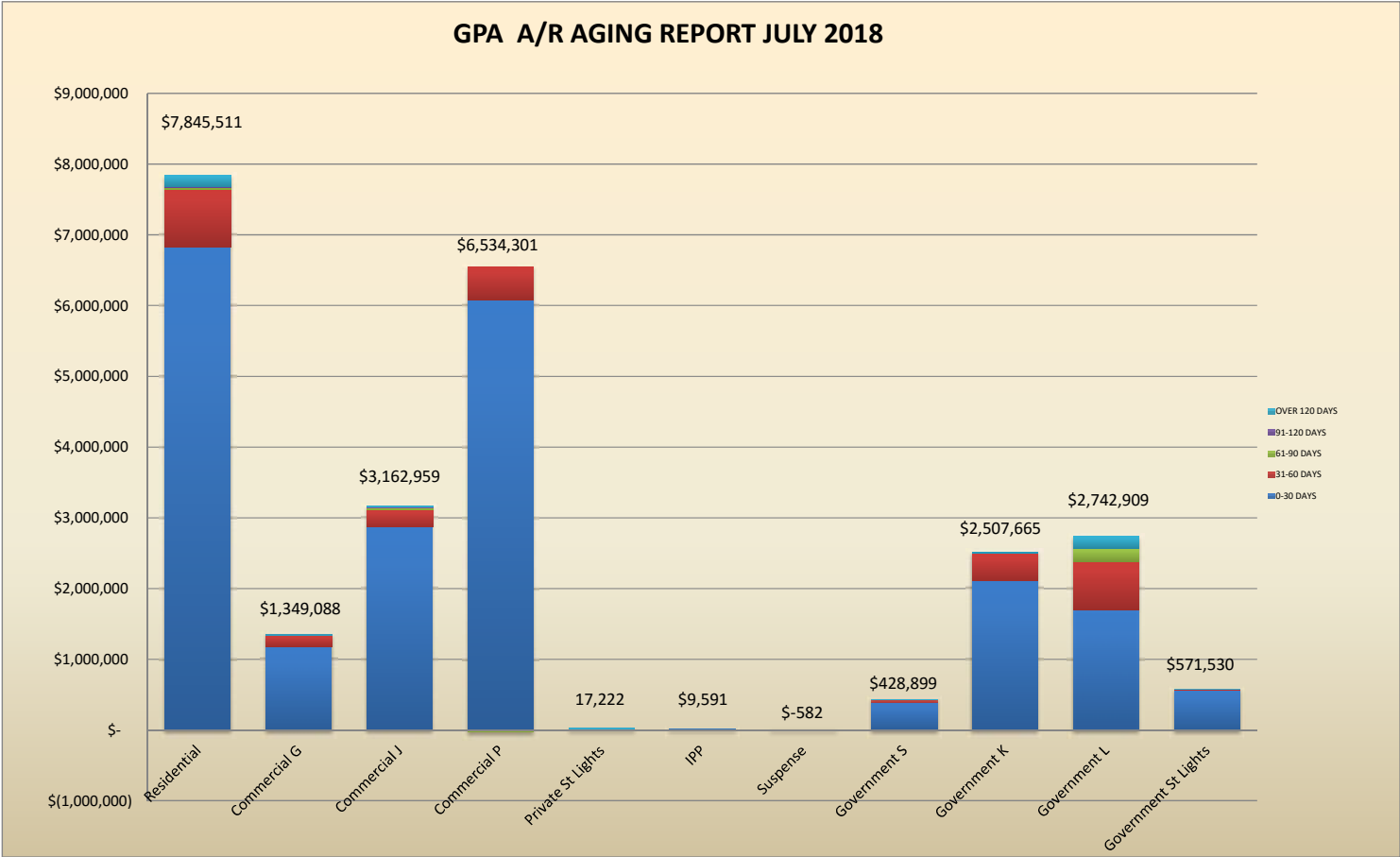


**GPA - Station Usage(MWH) Without Renewables and Aggreko  
For the Last 8Years Thru 07.31.18-Moving 12 Months**



**GPA - Station Usage(MWH) With Renewables  
For the Last 8 Years Thru 07.31.18 -Moving 12 Months**





GPA Work Session - August 23, 2018 - DIVISION REPORTS

**GUAM POWER AUTHORITY**

**GOVERNMENT ACCOUNTS RECEIVABLE**

**BILLING UP TO 07/31/2018 and Payment Applied as of 08/22/2018**

	Current (07/18 Billing due 08/31/18)
	30 days Arrears (06/18 due 07/15/18)
	60 days and over Arrears (05/18 billing due 06/15/18)

CC&B ACCT NUMBER	DEPARTMENT	BALANCE 6/30/2018	CANCEL/REBILL/ SPEC CHARGE 7/31/2018	BILLING 7/31/2018	PAYMENT 8/22/2018	BALANCE 8/22/2018	
	<b>Line Agencies</b>						
0237100000	Dept. of Corrections	81,163.13	-	85,217.89	(166,381.02)	-	
0437100000	Dept. of Parks & Rec.	36,893.05	-	26,652.10	(63,545.15)	-	
0537100000	Guam Fire Department	17,369.62	-	17,553.75	(34,923.37)	-	
6995000000	DOA Supply Mgmt	1,224.12	-	1,584.32	(2,808.44)	-	
7895000000	Dept. of Administration	3,746.35	-	4,327.30	(8,073.65)	-	
1337100000	Nieves Flores Library	10,366.73	-	10,349.00	(20,715.73)	-	
2206200000	General Services Agency	267.48	-	262.38	(529.86)	-	
2237100000	DOA-Data Processing	8,659.23	-	9,002.37	(17,661.60)	-	
2337100000	Dept. of PH&SS	72,522.35	1,091.92	72,482.02	(145,004.37)	1,091.92	
3237100000	Dept. of Education	893,951.41	13,458.97	892,753.80	-	1,800,164.18	1
3337100000	Guam Police Department	42,386.17	-	52,708.77	(95,094.94)	-	
3569100000	Dept of Youth Affairs (Federal)	971.68	-	1,002.20	(1,973.88)	-	
4437100000	Dept. of Youth Affairs* (Local)	11,310.87	-	12,297.28	(23,608.15)	-	
4737100000	Guam Environmental Protect	6,689.68	-	6,666.56	(13,356.24)	-	
5437100000	Mental Health/Subst.	46,016.37	-	46,301.70	(92,318.07)	-	
7200300000	Veteran Affairs	1,004.22	-	968.97	(1,973.19)	-	
7437100000	Civil Defense (Military Affairs)	10,896.78	-	11,746.18	(22,642.96)	-	
7463300000	Pacific Energy Resource Center	744.46	-	698.81	(1,443.27)	-	
8137100000	Dept. of Agriculture	9,768.47	-	10,032.65	(9,768.47)	10,032.65	
8337100000	DPW-FAC Adm Account	26,199.75	-	27,167.62	(53,367.37)	-	
8437100000	Guam Visitors Bureau	4,324.34	-	4,689.93	(9,014.27)	-	
8446300000	Yona Senior Citizen Center	986.93	-	937.51	(1,924.44)	-	
9437100000	Dept of Chamorro Affairs/Chamorro Village	4,221.99	-	4,980.22	(9,202.21)	-	
5247210000	Mayors Council	2,204.47	-	2,114.02	(4,318.49)	-	
6293410000	Office of the Governor	23,482.55	-	24,573.36	(48,055.91)	-	
8555858369	Dept of Chamorro Affairs (Guam Museum)	21,891.77	-	24,356.43	(46,248.20)	-	
	<b>Sub Total</b>	<b>1,339,263.97</b>	<b>14,550.89</b>	<b>1,351,427.14</b>	<b>(893,953.25)</b>	<b>1,811,288.75</b>	
	<b>MAYORS</b>						
0637100000	Santa Rita Mayor	3,734.90	-	3,960.64	(7,695.54)	-	
0737100000	Ordod/Chalan Pago Mayor	1,669.23	-	1,256.08	(2,925.31)	-	
1537100000	Hagatna Mayor	1,462.68	-	1,523.61	(2,986.29)	-	
1637100000	Piti Mayor	1,397.17	-	1,754.24	(3,151.41)	-	
1737100000	Mongmong/Toto/Maite Mayor	1,177.04	-	1,220.51	(2,397.55)	-	
2637100000	Asan/Maina/Adelup Mayor	1,011.62	-	941.98	(1,953.60)	-	
2737100000	Sinajana Mayor	5,111.83	-	4,992.05	(10,103.88)	-	
3637100000	Dededo Mayor	6,691.56	-	6,785.70	(13,477.26)	-	
4637100000	Yigo Mayor	3,579.19	-	3,411.93	(6,991.12)	-	
5637100000	Umatac Mayor	1,197.26	-	1,295.24	(2,492.50)	-	
6537100000	Agana Hts. Mayor	7,998.20	-	5,768.65	(13,766.85)	-	
6637100000	Merizo Mayor	1,194.05	-	993.30	(2,187.35)	-	
6737100000	Barrigada Mayors Office	2,065.05	-	2,099.67	(4,164.72)	-	
7537100000	Agat Mayor	5,712.65	-	2,684.40	(8,431.05)	(34.00)	
7637100000	Inarajan Mayor	2,030.85	-	1,997.34	(4,028.19)	-	
8537100000	Tamuning Mayor	5,792.57	-	5,978.79	(11,771.36)	-	
8637100000	Talofoto Mayor	2,356.97	-	2,640.32	(4,997.29)	-	
9537100000	Mangilao Mayor	4,677.92	-	4,593.49	(9,271.41)	-	
9637100000	Yona Mayor	832.41	-	796.00	(1,628.41)	-	
	<b>Sub Total</b>	<b>59,693.15</b>	<b>-</b>	<b>54,693.94</b>	<b>(114,421.09)</b>	<b>(34.00)</b>	
	<b>DPW ACCOUNTS</b>						
4337100000	DPW-Village St. Lights	394,202.65	97,247.23	366,195.01	(857,644.89)	-	
5337100000	DPW- Primary St. Lights	92,447.82	8,029.69	86,294.98	(186,772.49)	-	
6337100000	DPW-Sec/Coll St. Lights	26,467.31	-	25,948.00	(52,415.31)	-	
7337100000	DPW-Signal Lights	10,160.06	-	11,009.24	(21,169.30)	-	
	<b>Sub Total</b>	<b>523,277.84</b>	<b>105,276.92</b>	<b>489,447.23</b>	<b>(1,118,001.99)</b>	<b>-</b>	
	<b>(B) AUTONOMOUS/PUBLIC CORP</b>						
1437100000	Retirement Fund	5,099.93	-	5,987.69	(11,087.62)	-	
1915500000	Guam Housing Corp Rental Division	2,103.60	89.08	1,512.83	(1,553.75)	2,151.76	1
2437100000	University of Guam	184,158.69	(170.62)	187,765.12	(371,753.19)	-	
4237100000	Guam Airport Authority	519,079.36	-	528,352.49	(519,079.36)	528,352.49	
5357510000	University of Guam (NET METERED)	76,371.49	-	80,750.45	(157,121.94)	-	
6237100000	G H U R A	14,036.45	-	27,216.97	(53,234.07)	(11,980.65)	
6437100000	Guam Community College	48,020.75	-	47,560.24	(95,580.99)	-	
7237100000	Guam Memorial Hospital	530,120.84	815.16	35,567.08	(566,553.08)	(50.00)	
8426836906	Guam Memorial Hospital (NET METERED)	-	-	171,078.51	(171,078.51)	-	
9137100000	Port Authority of Guam	93,329.98	-	100,386.79	(193,716.77)	-	
9157510000	Guam Community College (NET METERED)	38,401.21	-	39,074.48	(77,475.69)	-	
9173210000	Guam Solid Waste Authority	6,023.69	-	6,341.68	(12,365.37)	-	
9337100000	Guam Waterworks Authority	1,242,598.95	-	1,308,739.63	(1,239,675.37)	1,311,663.21	
8237100000	GPA					-	

GPA Work Session - August 23, 2018 - DIVISION REPORTS

<b>Sub Total</b>		<b>2,759,344.94</b>	<b>733.62</b>	<b>2,540,333.96</b>	<b>(3,470,275.71)</b>	<b>1,830,136.81</b>	
<b>(C) OTHERS</b>							
0337100000	Guam Legislature	222.89	-	108.62	(331.51)	-	
9503154359	Guam Legislature (NET METER)	7,077.49	-	7,701.50	(14,778.99)	-	
1237100000	Superior Court of Guam	72,140.79	-	72,513.19	(72,140.79)	72,513.19	
2537100000	Agana (Guam) Post Office	6,093.38	-	6,252.50	(12,345.88)	-	
2570200000	Customs & Quarantine Agency	925.40	-	889.05	(1,814.45)	-	
3537100000	U.S. Post Office	44,110.02	-	43,020.83	(87,130.85)	-	
5537100000	Dept. of Military Affairs	76,414.35	-	77,668.33	(154,082.68)	-	
3209463043	Dept. of Military Affairs	16,501.13	-	17,683.61	(34,184.74)	-	
5737100000	KGTF	6,438.99	-	7,015.40	(13,454.39)	-	
7281000000	Tamuning Post Office	4,957.04	-	5,406.76	(10,363.80)	-	
<b>Sub Total</b>		<b>234,881.48</b>	<b>-</b>	<b>238,259.79</b>	<b>(400,628.08)</b>	<b>72,513.19</b>	
<b>GRAND TOTAL</b>		<b>4,916,461.38</b>	<b>120,561.43</b>	<b>4,674,162.06</b>	<b>(5,997,280.12)</b>	<b>3,713,904.75</b>	



# GPA Communications/PIO

## KPI Status

10 August 2018

# Ratepayer Newsletter



Overall Status	G	Risks & Issues	G	Schedule	G	Scope	G	Financial	G
----------------	---	----------------	---	----------	---	-------	---	-----------	---

## Status

1. Completed August newsletter;
2. Inclusion of Vegetation Management program plans
3. Standard features of recipe and village fiesta schedule remain for newsletter content;
4. Inclusion of story updates in coordination with GM. Update focus on GPA's current and near-future plans and additions to IWPS; progress on projects that lead toward controlling costs of energy to ratepayer homes, highlighting bid progress, results, award to build Guam's New 180MW Power Plant,
5. Compiling September newsletter;

## Accomplishments

1. Completed January, February, March, April, May, June and July and August *Insights* Ratepayer Newsletter
2. September issue planning; will meet deadline

## Risks and Issues

1. None to report;

## Resolution

## Financial

Budgeted for FY18

8/22/2018



No corrective action required



Legend:  
Near-term corrective action required



Requires immediate attention



# 2017 Annual Report



Overall Status	G	Risks & Issues	G	Schedule	G	Scope	G	Financial	G
----------------	---	----------------	---	----------	---	-------	---	-----------	---

## Status

1. Expected to approve for print on 10 August 2018
2. Completion date is August 2018

## Accomplishments

1. Bid Awarded for FY17 Annual Report to Card & Card Advertising;
2. Final edits in progress

## Risks and Issues

1. None to Report

## Resolution

## Financial

None to report

Within Budget

### Legend:



No corrective action required



Near-term corrective action required



Requires immediate attention

8/22/2018

3

# Special Projects – Web and Social Media



Overall Status	G	Risks & Issues	G	Schedule	G	Scope	G	Financial	G
----------------	---	----------------	---	----------	---	-------	---	-----------	---

## Status

1. Ongoing coordination with various departments for any updates to share on social media;

## Accomplishments

1. Customers citing recent Typhoon Maria recovery efforts and communication updates expressing their appreciation of GPA to have taken responsible actions to address issues or crises and for acknowledging the issues openly and honestly.

Risks and Issues	Resolution	Financial		
1. Timely Updates on Forced Outages and Scheduled Outages ;	1. Close monitoring of outages and trouble desk for updates;	Within budget		

8/22/2018



No corrective action required



Legend:  
Near-term corrective action required



Requires immediate attention

# Energy Sense Marketing



Overall Status	G	Risks & Issues	G	Schedule	G	Scope	G	Financial	G
----------------	---	----------------	---	----------	---	-------	---	-----------	---

## Status

1. Review ongoing of DSM Customer Service Survey and Focus Group Discussion for Energy Sense Marketing as part of Phase III implementation.
2. On track to with DSM Phase II Marketing Goals & Objectives
3. Adztech Advertising continuing Phase II DSM Marketing Plan Goals & Objectives;

## Accomplishments

1. Ad placements in print, radio and television as part of Phase II Marketing campaign.
2. DSM ad placement in SHRM-Guam Chapter publication.
3. Completed coordination with paid sponsorship and representation at Sorensen Media Group/Agana Shopping Center 2018 Home & Lifestyles Expo on 28 July 2018, promoting DSM and Guam Energy Sense; also featuring GPA 50<sup>th</sup> Anniversary logo. Collected customer inquiry cards for follow-up with CSRs and engaged public in promotion item giveaway opportunities.

## Risks and Issues

1. SPORD support pending additional funding;

## Resolution

PIO supporting DSM marketing in pending additional SPORD funding

## Financial

Budget Support for SPORD for Phase II

8/22/2018



No corrective action required



Legend:  
Near-term corrective action required



Requires immediate attention

# Prepaid & SMS (text) Project



Overall Status	G	Risks & Issues	G	Schedule	G	Scope	G	Financial	G
----------------	---	----------------	---	----------	---	-------	---	-----------	---

## Status

1. Text texting still in progress. No new information to report.

## Accomplishments

1. Completed coordination with local carriers (GTA, Docomo & IT&E for SMS Texting test);

## Risks and Issues

1. Pending review and acceptance from PSCC for testing and eventual rollout;

## Resolution

## Financial

None to report

8/22/2018



No corrective action required



Legend:  
Near-term corrective action required



Requires immediate attention

# Live Streaming of CCU Meetings & Work Sessions



Overall Status	G	Risks & Issues	G	Schedule	G	Scope	G	Financial	G
----------------	---	----------------	---	----------	---	-------	---	-----------	---

Status	Accomplishments
<ol style="list-style-type: none"> <li>GPA-016-18 sole source memorandum signed by GM and forwarded to Procurement for processing and award.</li> </ol>	<ol style="list-style-type: none"> <li>Technical specifications are detailed and team will continue forward with next steps following zero bid responses.</li> <li>Team to meet for final review of specifications</li> </ol>

Risks and Issues	Resolution	Financial
<ol style="list-style-type: none"> <li>None to report at this time</li> </ol>		Funding with IT Division & GWA for audio & video equipment & training

8/22/2018



No corrective action required



Near-term corrective action required



Requires immediate attention

# 50<sup>th</sup> Anniversary Activities



Overall Status	G	Risks & Issues	G	Schedule	G	Scope	G	Financial	G
----------------	---	----------------	---	----------	---	-------	---	-----------	---

## Status

1. List of events and programs connected to milestone 2018 GPA planned programs/business objectives already in place is under construction: PPA Signing, LEED Plaque on GBN Building Unveiling; Fadian Employee-Family Fun Day rescheduled due to TS Maria; 2018 Liberation Day Float(s) ongoing;
2. A GPA 50<sup>th</sup> Anniversary Steering Committee meeting weekly, with Communications-PIO serving as advisors.
3. Revisit budget items, (subject to change) to be presented to GM for approval.

## Accomplishments

1. GPA 50<sup>th</sup> Anniversary t-shirts distributed to all GPA employees and IPP partners (500 shirts)
2. Highlighted GPA 50<sup>th</sup> Anniversary Milestone on 2018 Liberation Day Float – GPA's entry won 3<sup>rd</sup> Place. Media photos, video and mention in print publications, electronic and social media. Photo and caption featured in August *Insights* ratepayer newsletter
3. LIVE coverage promotion via PBS live (television) streaming of Liberation Day Parade. Included 50<sup>th</sup> anniversary logo imprinted on t-shirt giveaways.
4. LIVE coverage promotion via KStero live (radio) broadcast of Liberation Day Parade. Included 50<sup>th</sup> anniversary logo and Guam Energy Sense logo imprinted on 500 t-shirt giveaways.

## Risks and Issues

1. None to report at this time

## Resolution

## Financial

None to report

### Legend:



No corrective action required



Near-term corrective action required



Requires immediate attention

8/22/2018

8

# Award Nomination Opportunities (various)



Overall Status	G	Risks & Issues	G	Schedule	G	Scope	G	Financial	G
----------------	---	----------------	---	----------	---	-------	---	-----------	---

## Status

1. 2018 GovGuam MagPRO Awards – (1) Department of the Year (large agency); (5) Photo of the Year; and (7) National Recognition Citation nominations
2. APPA 2018 Excellence in Public Power Communications Awards – for Web and Social Media, Video and Print and Digital nominations
3. Guam Daily Post and 2018 MagPRO Awards Committee added 'Department of the Decade' category to 2018 GovGuam MagPRO awards – details only released 06 August 2018; GPA nomination write up pending

## Accomplishments

1. GPA is Gold \$5,000 sponsor
2. (13) GovGuam MagPRO Award nominations submitted in advance of deadline
3. (3) APPA Award nominations submitted in advance of deadline
4. Attended meeting on 08 August 2018 regarding 'Department of the Decade' category added to 2018 GovGuam MagPRO awards

Risks and Issues	Resolution	Financial
<ol style="list-style-type: none"> <li>1. Missed opportunity if GPA does not submit entries</li> <li>2. APPA – high level competition across USA</li> <li>3. Department of the Decade – combines agency accomplishments judged by panel of 3; AND reader's choice (Guam Daily Post)</li> </ol>	<ol style="list-style-type: none"> <li>1. GPA will participate and is worthy of recognition(s)</li> </ol>	<ol style="list-style-type: none"> <li>1. GovGuam awards - \$5000 Gold MagPRO Sponsorship</li> <li>2. APPA - \$35 per entry; \$105 total</li> <li>3. Department of the Decade-none</li> </ol>

### Legend:



No corrective action required



Near-term corrective action required



Requires immediate attention

8/22/2018

9

# Miscellaneous Activities



Overall Status	G	Risks & Issues	G	Schedule	G	Scope	G	Financial	G
----------------	---	----------------	---	----------	---	-------	---	-----------	---

## Status

1. GPA Web page redesign work online and updated as necessary
2. Monitoring of CS Business Centers
3. Completed 'Net Metering' Public Meeting advertisements to announce; public meeting completed on 18 July 2018. GM recommendation planned for August CCU Meeting; anticipate further information dissemination with public(s) and posting of recommendation/plan of action
4. Standard Media Releases for scheduled and emergency outage reporting is ongoing
5. Support for Sagua Managu Children's Carnival on 18 August 2018 - outreach
6. Education Outreach – random requests; ongoing

## Accomplishments

1. 4<sup>th</sup> Cycle GPA Apprentices Graduate to Journeymen photo with story caption in Construction News Bulletin Magazine (CNB) July issue
2. Completed draft, editing and print production of FY17 Citizen Centric Report (CCR). Update announcement in *Insights* newsletter to advise ratepayers they can request/receive a copy; nominated for APPA Excellence in Public Power Communications Award (Print category)
3. Redesigned GPA website online; nominated for APPA Excellence in Public Power Communications Award (Web and Social Media category)
4. Updated GPA 50<sup>th</sup> Anniversary Prelude video; ; nominated for APPA Excellence in Public Power Communications Award (Video category)

Risks and Issues	Resolution	Financial
1. None to report at this time;		None to report

### Legend:



No corrective action required



Near-term corrective action required



Requires immediate attention

8/22/2018

10