

# CHUUK PUBLIC UTILITY CORPORATION

## Monthly Operations Report

August 2016



**Issued:**

15 September 2016

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**EXECUTIVE SUMMARY**

**SUMMARY OF KEY STATISTICS**

	Aug-16	YTD 2016 US\$	US\$/kWh Sold		US\$/kWh generated	
			Aug-16	YTD 2016	Aug-16	2016 YTD
Revenue	545,910	5,554,848	0.490	0.493	0.406	0.406
Variable Costs	256,442	2,496,474	0.230	0.221	0.191	0.183
Fixed Costs	232,529	1,979,750	0.209	0.176	0.173	0.145
Total Expenses	488,971	4,476,224	0.439	0.397	0.364	0.327
Operating result	56,939	1,078,624	0.051	0.096	0.042	0.079
	<b>kWh</b>	<b>kWh</b>				
Power generation	1,344,374	13,669,544				
Diesel	1,314,860	13,341,030				
Solar	29,514	328,514				
Solar PV as % of Total Generation	2.2%	2.4%				
Avoided Cost of Fuel - US\$	5,504	62,216				
Tons of CO2 Avoided	20.3	234.8				
					<b>Sales</b>	
Government Sales	208,576	2,158,085	<b>Feeder</b>	<b>Conn's</b>	<b>Aug-16</b>	<b>2016 YTD</b>
Commercial Sales	606,952	6,085,680	F1	263	220,570	2,405,189
Residential Sales	252,741	2,470,327	F2	88	50,076	302,698
Intercompany Sales	52,058	572,833	F3	454	387,554	3,774,811
Sales Accrual	-6,155	-12,475	F4	749	392,778	4,210,748
<b>Total Sales</b>	<b>1,114,172</b>	<b>11,274,450</b>	F5	361	57,965	594,305
Power Loss	17.1%	17.5%	<b>Total</b>	<b>1,915</b>	<b>1,108,943</b>	<b>11,287,752</b>
Operating ratio	0.90	0.89	NB - Error on Total and Feeder sales YTD is <0.1%; within limits;			
Water Produced - Gallons	18,804,109	212,168,170				
Water Sold - Gallons	7,196,285	70,147,710				
Non Revenue Water	61.7%	66.9%				

Daily generated output in August was 43,367 kWh/day; 2.5% higher than July. Average daily sales were 35,941kWh/day; 3.1% higher than July. Total power loss decreased from 17.6% to 17.1%. FY2016 loss to date is 17.5%.

Average fuel efficiency in August returned, as anticipated, to pre overhaul levels at 14.7 kWh/gallon

The split of power users for total sales in August was as follows:

Government – 20.1%; Commercial – 54.5%; Residential –21.2%; Intercompany 4.7%; Accrual -0.5%;

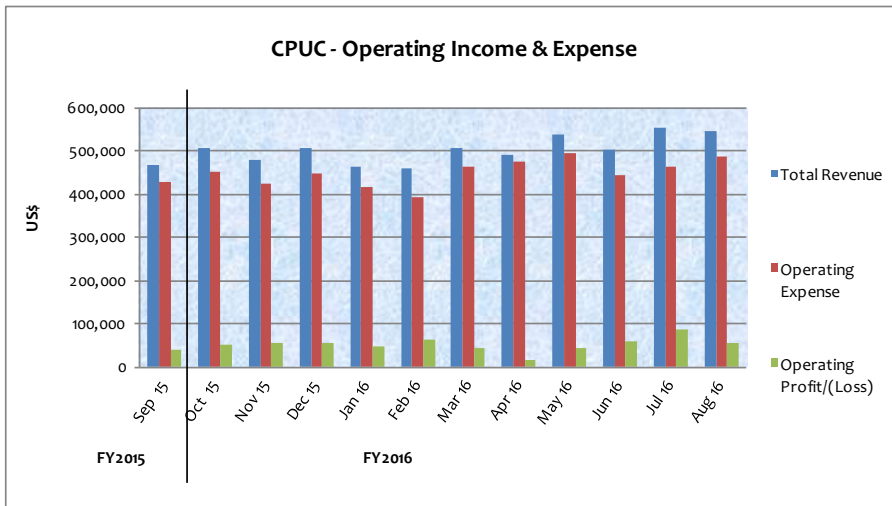
Solar PV generation in August was 29,514 kWh up by 10.5% on July figures and accounted for 2.2% of total generation; the avoided cost of fuel in the month is US\$5,504(US\$62,216 YTD); the amount of Carbon Dioxide avoided in the month was 20.3 tons (234.8 tons YTD).

Work on the power plant project is on schedule. GE engines and switchgear is being installed in their respective modular buildings; drainage infrastructure, fire-fighting water storage tanks and miscellaneous construction materials were shipped in August to arrive Chuuk the last week in September. The office building and storage refurbishment is on track – roofing materials were received in August and PLEC is on schedule for the work completion in October.

Rebuilding of the power distribution line from Sapuk Junction to Tunnuk is ongoing – this is approximately 30% complete and on schedule for completion by the end of December 2016.

CPUC Board approved an amendment of the Owner’s Engineer Contract with McMahon to include the design for Tonoas power generation plant – the design is expected to be complete by end October 2016.

# 1 FINANCIAL PERFORMANCE GRAPHS

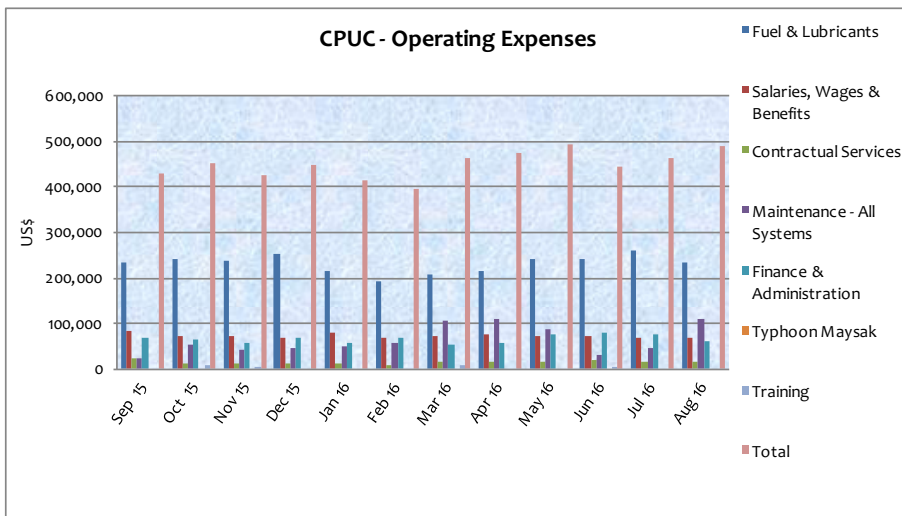


## 1.1 Key Points:

FY2016 Operating income before Depreciation & Interest :

August 2016  
US\$56,939

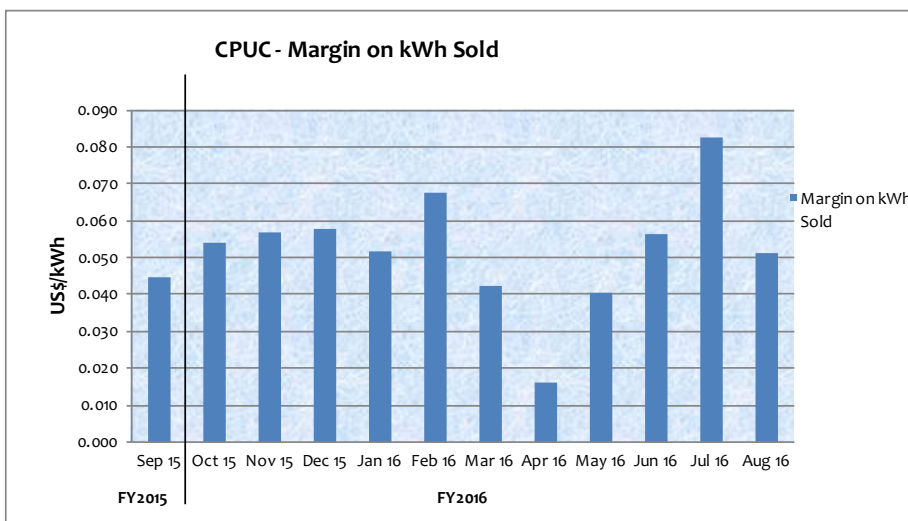
Operating ratio:  
0.89



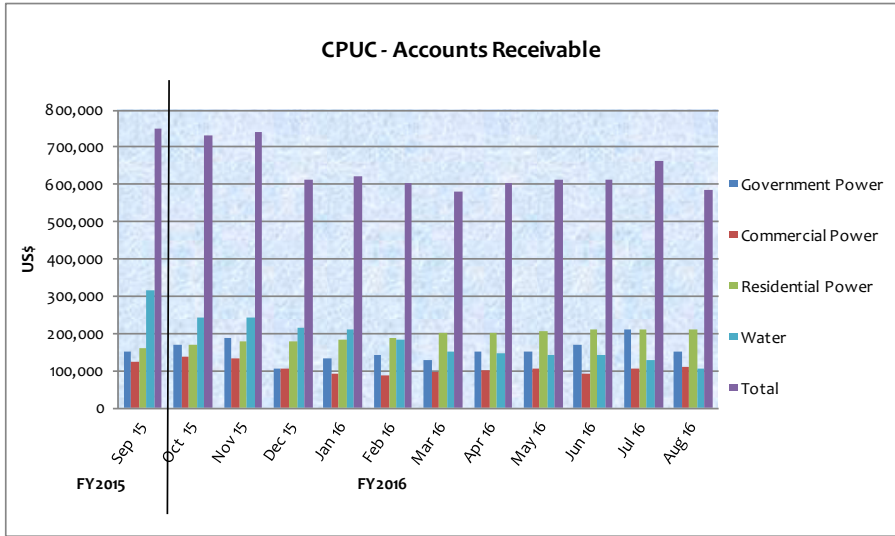
## 1.2 Key Points:

Price of Fuel in April:

US\$2.74/gallon;

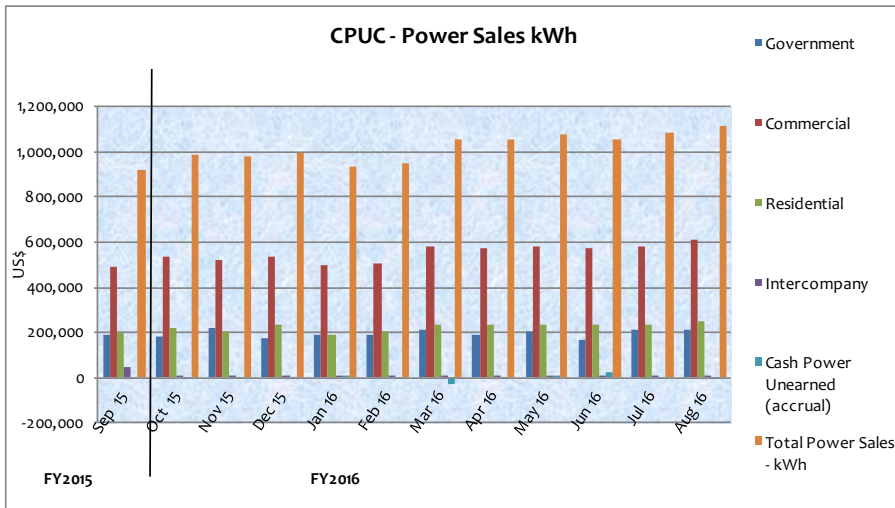


## 1.3 Key Points:

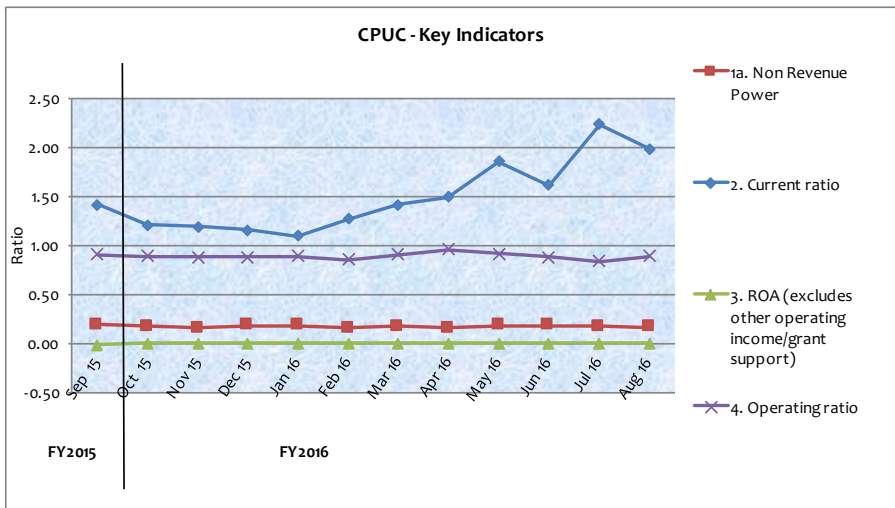


#### 1.4 Key Points:

A sustained effort is being made by the billing department to reduce water arrears; Initial indications are that the efforts are working; A collection target of 95% has been set for FY2016;

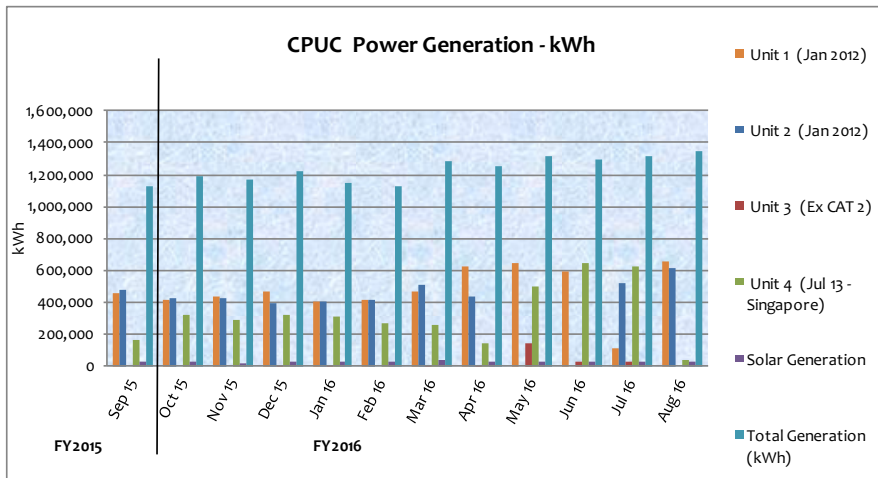


#### 1.5 Key Points:

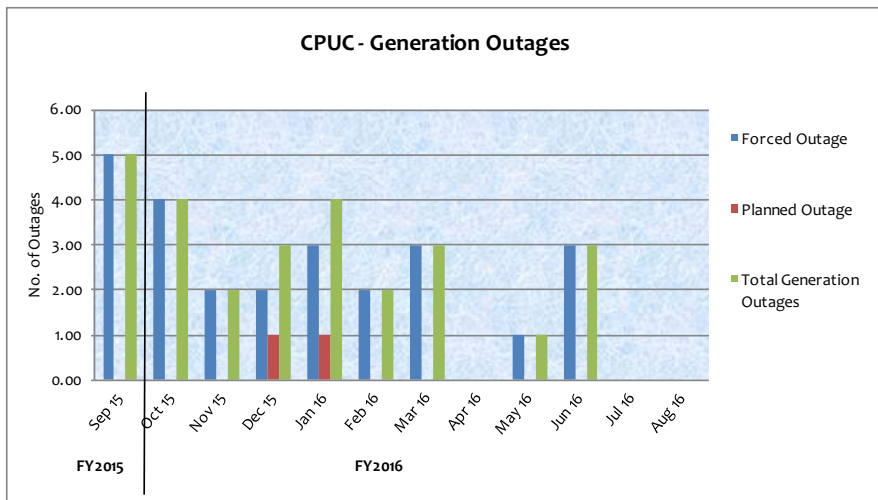


#### 1.6 Key Points:

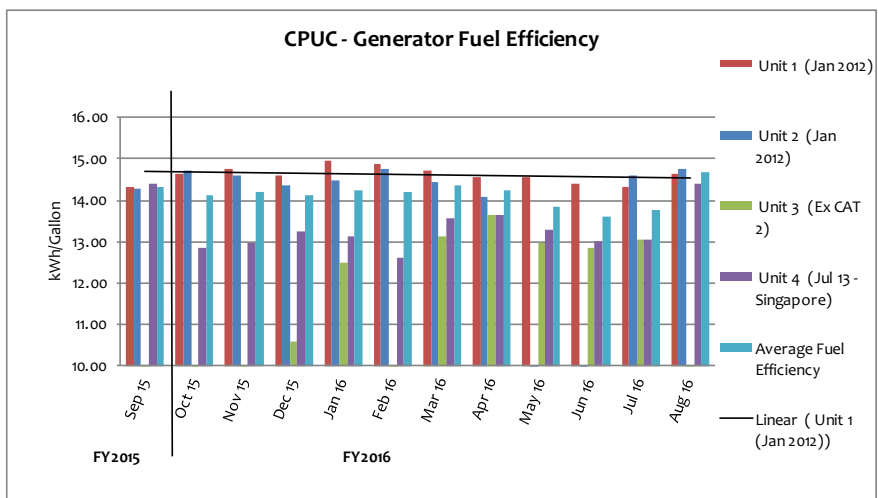
## 2 POWER GENERATION & DISTRIBUTION PERFORMANCE GRAPHS



### 2.1 Key Points:

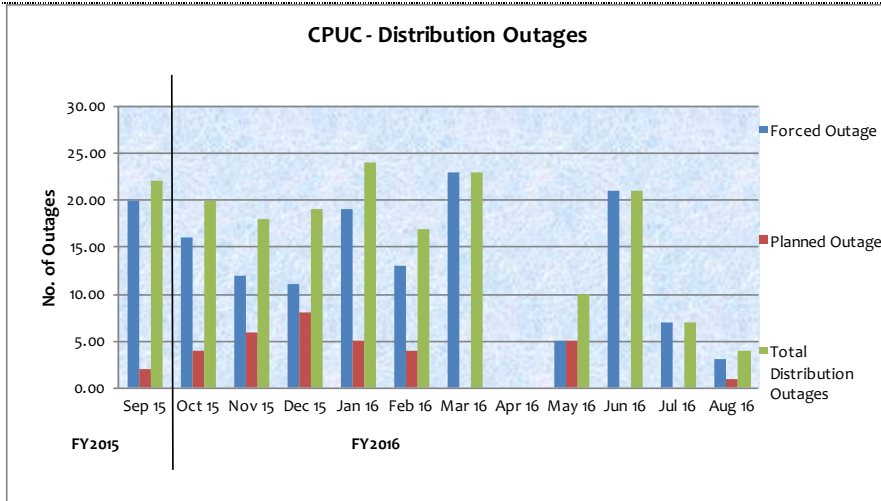


### 2.2 Key Points:

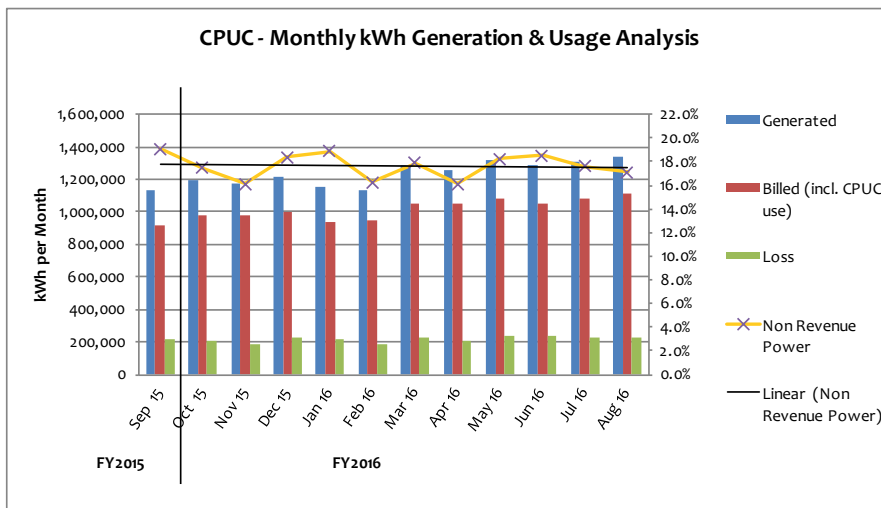


### 2.3 Key Points:

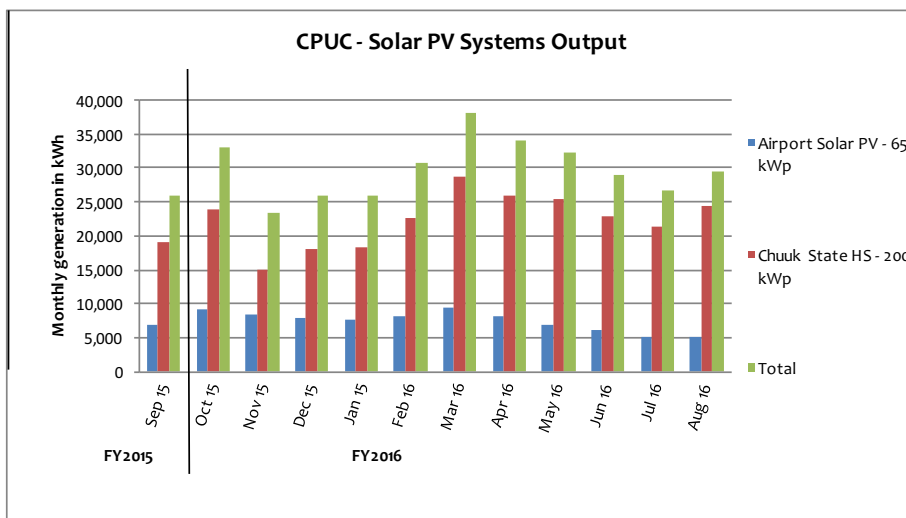
Avg fuel efficiency has increased back to pre overhaul levels as anticipated following completion of the overhaul of units 1 and 2.



#### 2.4 Key Points



#### 2.5 Key Points:



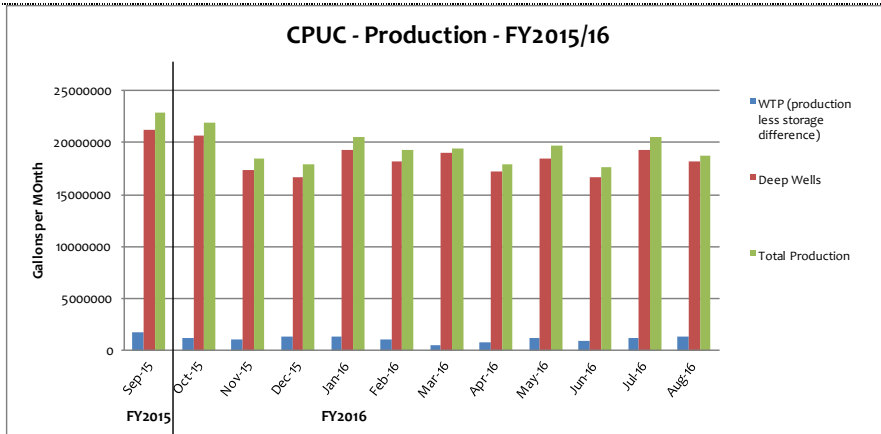
#### 2.6 Key Points:

Solar PV accounted for 2.2% of CPUC generation in Aug 16 (YTD 2.4%);

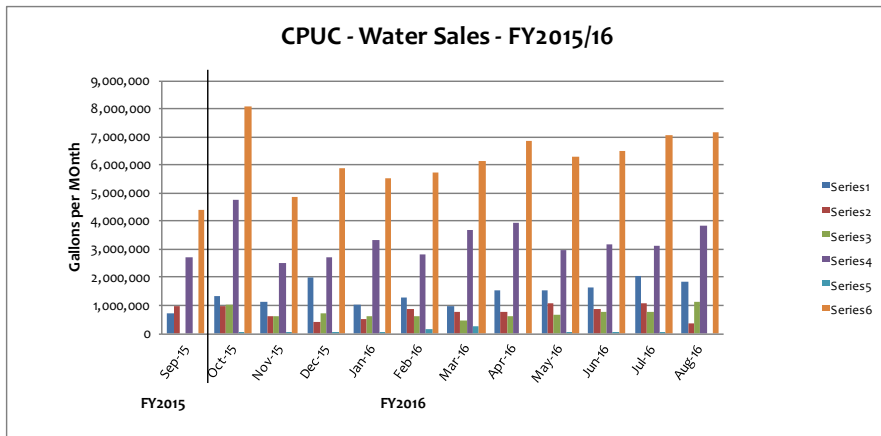
Avoided cost of fuel was:  
US\$5,504;  
(US\$62,216 YTD)

Avoided Tons of CO<sub>2</sub> YTD is 234.8 Tons.

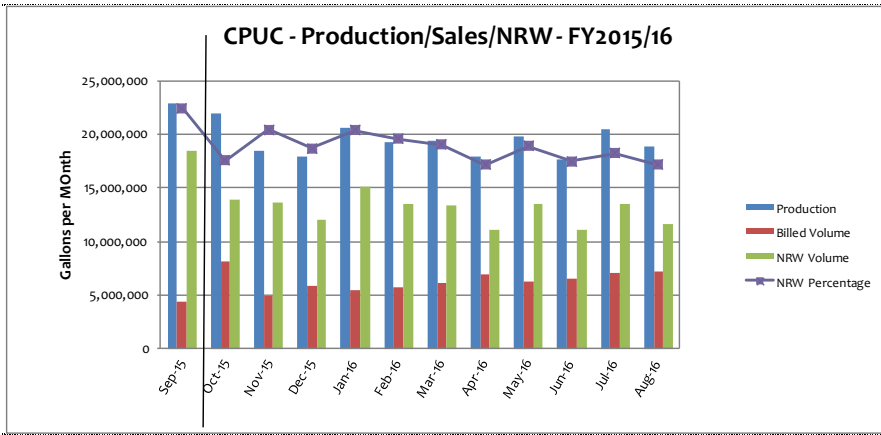
### 3 WATER PERFORMANCE GRAPHS



**1 Key Points:**  
 28 wells are capable of production; system in process of being optimized to balance production with demand;



**Key Points:**



**Key Points:**  
 The majority of the volume loss is in Zone 2. This area will be made the focus of NRW reduction activity for the remainder of the FY2015.



## Financial Table1 P & L Statement – September 2015 to August 2016

Revenue - US\$	Sep 15	Oct 15	Nov 15	Dec 15	Jan 16	Feb 16	Mar 16	Apr 16	May 16	Jun 16	Jul 16	Aug 16	FY 2015	FY 2016 YTD
<b>Operating revenue:</b>														
a. Power Sales	399,300	443,615	442,147	459,407	416,777	405,883	438,722	446,808	465,188	458,828	488,710	494,656	5,082,085	4,960,740
b. Water Sales	25,965	29,345	18,319	23,069	19,937	20,426	20,800	25,052	24,293	24,280	27,755	26,912	366,510	260,188
c. Sewer Sales		15,129	10,929	13,076	11,103	11,148	10,291	11,922	13,313	13,364	13,250	12,771		136,296
d. /company Power Sales (in Power Sales from Oct 15)	22,764	-	-	-	-	-	-	-	-	-	-	-	325,632	0
d.Other operating revenue	21,713	18,388	8,747	10,308	16,437	20,671	38,634	8,154	34,902	6,812	23,000	11,570	270,931	197,624
<b>Revenue - Total</b>	<b>469,742</b>	<b>506,477</b>	<b>480,143</b>	<b>505,860</b>	<b>464,254</b>	<b>458,127</b>	<b>508,447</b>	<b>491,935</b>	<b>537,697</b>	<b>503,285</b>	<b>552,715</b>	<b>545,910</b>	<b>6,045,158</b>	<b>5,554,848</b>
<b>Expenses - US\$</b>														
Fuel & Lubricants	232,533	241,803	236,880	252,887	213,491	192,177	206,275	213,943	242,003	242,754	258,693	235,811	3,044,499	2,536,717
Salaries, Wages & Benefits	84,308	74,375	73,686	67,242	81,706	69,513	74,336	75,794	72,072	72,323	68,383	67,328	694,839	796,758
Contractual Services	22,086	12,562	11,908	13,824	13,830	9,533	14,633	17,578	15,500	19,807	15,602	14,367	234,696	159,143
Typhoon Maysak Expenses	0	0	0	0	0	0	0	0	0	0	0	0	254,036	0
O&M - Power Generation	9,990	20,217	20,814	6,688	7,737	31,693	43,656	71,121	62,028	8,180	14,495	70,700	247,449	357,329
O&M - Power Distribution	635	6,016	6,646	16,453	18,917	8,431	17,486	14,144	2,585	6,687	11,544	9,002	36,504	117,911
O&M - Water	1,753	2,776	2,860	2,177	3,160	6,171	27,360	10,666	10,153	1,336	5,980	9,462	33,129	82,101
O&M - Sewer	-	2,776	0	0	1,630	229	3,596	0	338	928	743	873		11,112
Finance & Administration Overheads	44,515	44,579	43,045	48,065	39,127	49,753	33,698	36,115	53,901	58,610	54,129	41,962	523,013	502,985
Vehicle & Eq. Fuel	9,494	21,851	12,845	21,066	19,087	9,368	15,650	13,733	11,975	13,349	12,242	18,836	102,954	170,001
CPUC Power Usage (incl. in O&M from Oct 15)	22,764	19,268	15,602	19,792	17,285	17,305	19,697	21,656	23,394	19,713	21,858	20,631	325,632	216,199
Donation to Charity - Typhoon Maysak	0	0	0	0	0	0	0	0	0	0	0	0	3,891	0
Support to Energy Office	741	0	0	0	0	0	0	0	0	0	0	0	3,631	0
Training	0	7,102	141	0	0	0	7,232	0	0	465	0	0	0	14,940
<b>Expense - Total</b>	<b>428,816</b>	<b>453,324</b>	<b>424,427</b>	<b>448,193</b>	<b>415,970</b>	<b>394,172</b>	<b>463,619</b>	<b>474,748</b>	<b>493,951</b>	<b>444,153</b>	<b>463,668</b>	<b>488,971</b>	<b>5,504,274</b>	<b>4,965,196</b>
<b>Operating Income/(Loss)</b>	<b>40,925</b>	<b>53,153</b>	<b>55,716</b>	<b>57,667</b>	<b>48,284</b>	<b>63,954</b>	<b>44,828</b>	<b>17,187</b>	<b>43,746</b>	<b>59,132</b>	<b>89,047</b>	<b>56,939</b>	<b>540,884</b>	<b>589,653</b>
<b>Non-Cash Expenses - US\$</b>														
Depreciation	73,215	47,495	47,495	47,495	47,495	47,495	47,495	47,495	47,495	47,495	47,495	47,495	280,034	522,440
Interest Expense	10,266	10,381	10,381	10,381	10,381	10,381	10,381	10,381	10,381	10,381	10,381	10,381	61,598	114,187
<b>Non-Cash Expense - Total - US\$</b>	<b>83,482</b>	<b>57,875</b>	<b>57,875</b>	<b>57,875</b>	<b>57,875</b>	<b>57,875</b>	<b>57,875</b>	<b>57,875</b>	<b>57,875</b>	<b>57,875</b>	<b>57,875</b>	<b>57,875</b>	<b>341,632</b>	<b>636,627</b>
<b>Net Income/(Loss) - excluding grant support - US\$</b>	<b>-42,557</b>	<b>-4,722</b>	<b>-2,159</b>	<b>-208</b>	<b>-9,591</b>	<b>6,079</b>	<b>-13,047</b>	<b>-40,689</b>	<b>-14,129</b>	<b>1,257</b>	<b>31,171</b>	<b>-937</b>	<b>-110,529</b>	<b>-46,974</b>
<b>Non-operating Income (Grant Support) - US\$</b>	<b>0</b>	<b>5</b>	<b>10</b>	<b>9</b>	<b>2</b>	<b>42,615</b>	<b>36</b>	<b>157</b>	<b>5</b>	<b>-3</b>	<b>13</b>	<b>2</b>	<b>3,631,519</b>	<b>42,850</b>
<b>Net Income/(Loss) - including grant support - US\$</b>	<b>-42,557</b>	<b>-4,717</b>	<b>-2,150</b>	<b>-200</b>	<b>-9,589</b>	<b>48,694</b>	<b>-13,011</b>	<b>-40,532</b>	<b>-14,124</b>	<b>1,254</b>	<b>31,184</b>	<b>-934</b>	<b>3,520,991</b>	<b>-4,125</b>

## Financial Table 2 Cash Flow and A/R Report – September 2015 to August 2016

	Sep 15	Oct 15	Nov 15	Dec 15	Jan 16	Feb 16	Mar 16	Apr 16	May 16	Jun 16	Jul 16	Aug 16	FY 2015	YTD FY2016
<b>Cash Flow Report - US\$</b>														
Receipts	1,328,531	352,943	617,326	474,404	334,408	1,677,955	3,538,426	744,022	456,758	1,533,453	2,623,428	510,111	9,617,051	12,863,234
Disbursements	1,041,431	552,819	672,487	553,723	453,811	1,026,891	846,444	561,788	2,703,561	2,014,576	1,216,222	1,311,543	9,111,033	11,913,865
Net receipts/Disbursements	287,100	-199,876	-55,161	-79,319	-119,403	651,064	2,691,982	182,234	-2,246,803	-481,123	1,407,206	-801,432	506,018	949,369
Cash balance (beginning)	732,651	1,019,751	819,875	764,714	685,395	565,992	1,217,056	3,909,038	4,091,272	1,844,469	1,363,346	2,770,552	513,733	2,770,552
Cash balance (end)	1,019,751	819,875	764,714	685,395	565,992	1,217,056	3,909,038	4,091,272	1,844,469	1,363,346	2,770,552	1,969,120	1,764,166	1,969,120
<b>Other Financial Data - US\$</b>														
Cash in Hand	1,394	1,394	1,394	1,394	1,394	1,394	1,394	1,394	1,394	1,394	1,694	1,394	1,394	1,394
Cash in Banks (Bank Overdraft)	1,018,357	818,482	763,320	684,000	564,598	1,215,662	3,907,644	4,089,878	1,843,075	1,361,953	2,768,858	1,967,727	1,018,357	1,967,727
Stocks	1,180,345	1,198,547	2,102,746	2,086,581	2,062,995	1,233,096	1,242,951	1,370,376	1,369,145	1,413,151	1,262,914	1,400,721	1,180,345	1,400,721
Trade Receivable	423,882	497,847	515,527	394,707	423,790	412,339	402,274	438,968	458,402	473,195	604,139	469,410	423,882	469,410
Other Accounts Receivable (Due From)	1,891,427	1,904,624	1,021,502	1,019,925	1,034,558	1,037,199	1,030,719	1,024,240	1,034,026	1,123,706	1,133,795	1,125,760	1,891,427	1,125,760
Loans Payable	4,678,738	4,678,738	4,678,738	4,678,738	4,705,182	4,912,182	4,836,701	4,832,209	4,827,920	4,710,555	4,706,144	4,702,046	4,678,738	4,702,046
Payables to Suppliers & creditors	2,645,331	2,805,456	2,839,917	2,736,577	2,786,032	2,254,989	3,910,231	3,934,468	1,976,537	2,008,582	2,006,012	1,931,292	2,645,331	1,931,292
<b>Total Accounts Receivable (to date) - US\$</b>														
Government Power	150,219	172,357	186,584	108,529	134,897	142,271	128,921	150,509	151,591	169,124	212,279	152,998	151,180	151,591
Commercial Power	122,992	140,179	131,933	106,292	95,297	86,720	98,324	101,591	106,705	93,703	107,626	111,225	88,073	106,705
Residential Power	162,187	171,536	178,582	180,865	184,460	187,587	201,722	204,364	208,539	209,443	210,534	211,923	184,404	208,539
Water	316,114	245,746	243,101	215,951	209,690	185,167	152,422	149,696	145,446	141,440	130,913	107,757	332,698	145,446
Sewer	-	95,271	100,972	106,769	115,942	127,090	137,381	144,508	157,821	171,186	254,487	197,207	-	157,821
Allowance for Doubtful	-327,630	-327,241	-325,645	-323,698	-316,495	-316,495	-316,495	-311,700	-311,700	-311,700	-311,700	-311,700	-327,630	-311,700
<b>Total</b>	<b>423,882</b>	<b>497,847</b>	<b>515,527</b>	<b>394,707</b>	<b>423,790</b>	<b>412,339</b>	<b>402,274</b>	<b>438,968</b>	<b>458,402</b>	<b>473,195</b>	<b>604,139</b>	<b>469,410</b>	<b>428,724</b>	<b>458,402</b>

### Financial Table 3 Power Sales Report – September 2015 to August 2016

Power Sales Report	Sep 15	Oct 15	Nov 15	Dec 15	Jan 16	Feb 16	Mar 16	Apr 16	May 16	Jun 16	Jul 16	Aug 16	FY 2015	YTD 2016
<b>Power Sales US\$</b>	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
Government - Post Paid	56,581	58,819	59,435	58,401	56,990	52,208	54,406	54,139	54,197	57,194	59,896	60,659	850,363	626,346
Government - Pre Paid (Cash Power)	32,842	27,398	37,837	24,745	29,746	31,550	35,951	29,019	35,491	17,714	36,814	34,759	383,753	341,024
Government Streetlights	2,596	2,596	2,596	2,596	2,596	2,596	2,596	2,596	2,596	2,596	2,596	0	31,152	25,960
Solar	2,876	2,661	2,661	2,661	2,855	2,855	2,855	3,750	3,750	3,750	3,836	3,836	34,515	35,468
Government Scratchcard	0	0	0	0	0	0	0	0	0	0	0	19	0	19
<b>Government Total</b>	<b>94,896</b>	<b>91,474</b>	<b>102,529</b>	<b>88,403</b>	<b>92,187</b>	<b>89,209</b>	<b>95,808</b>	<b>89,504</b>	<b>96,034</b>	<b>81,254</b>	<b>103,142</b>	<b>99,272</b>	<b>1,299,784</b>	<b>1,028,816</b>
Commercial - Post Paid	167,976	182,069	175,780	182,152	165,977	157,130	179,614	182,275	187,413	188,850	200,224	203,442	2,055,368	2,004,927
Commercial - Pre Paid (Cashpower)	59,949	64,632	58,778	66,141	53,762	57,023	61,326	59,985	60,522	61,869	61,710	66,060	697,472	671,808
Commercial - Scratchcard	0	0	0	0	0	0	0	0	0	0	0	232	0	232
<b>Commercial Total</b>	<b>227,925</b>	<b>246,701</b>	<b>234,558</b>	<b>248,293</b>	<b>219,739</b>	<b>214,153</b>	<b>240,941</b>	<b>242,260</b>	<b>247,935</b>	<b>250,718</b>	<b>261,934</b>	<b>269,735</b>	<b>2,752,841</b>	<b>2,676,967</b>
Residential - Post Paid	5,825	5,947	5,152	5,484	4,827	5,607	4,486	4,725	6,483	3,249	3,518	3,721	53,049	53,200
Residential - Pre Paid (Cashpower)	78,994	86,978	80,669	95,131	73,192	75,512	84,283	88,158	87,855	92,204	91,805	95,859	986,009	951,647
Residential Scratch Card Sales	0	0	0	0	0	0	0	0	0	0	4,836	5,279	0	10,115
<b>Residential Total</b>	<b>84,819</b>	<b>92,925</b>	<b>85,822</b>	<b>100,615</b>	<b>78,019</b>	<b>81,120</b>	<b>88,769</b>	<b>92,883</b>	<b>94,338</b>	<b>95,452</b>	<b>100,160</b>	<b>104,860</b>	<b>1,039,057</b>	<b>1,014,962</b>
<b>Trade Power Sales Total</b>	<b>407,640</b>	<b>431,101</b>	<b>422,908</b>	<b>437,311</b>	<b>389,945</b>	<b>384,481</b>	<b>425,518</b>	<b>424,647</b>	<b>438,308</b>	<b>427,245</b>	<b>465,235</b>	<b>473,866</b>	<b>5,091,681</b>	<b>4,720,745</b>
Intercompany - CPUC Office	22,764	1,566	1,608	1,566	1,264	1,462	1,374	1,428	1,348	1,534	1,533	1,533	325,632	15,921
Intercompany - CPUC Power Operation	-	2,255	2,462	2,365	2,060	1,725	1,544	1,852	1,559	1,374	2,052	1,558	-	20,805
Intercompany - CPUC Water Operations	-	11,061	9,479	12,219	11,648	11,035	11,953	12,830	11,227	9,768	10,823	10,556	-	122,600
Intercompany - CPUC Sewer Operations	-	8,206	6,123	7,573	5,637	6,270	7,744	8,825	12,167	9,944	11,035	10,075	-	93,599
Cash Power UnEarned	-8,340	-10,575	-433	-1,628	6,224	-910	-9,410	-2,775	579	8,783	-1,968	-2,618	-9,596	-14,732
<b>Total Power Sales - US\$</b>	<b>422,064</b>	<b>443,615</b>	<b>442,147</b>	<b>459,407</b>	<b>416,777</b>	<b>404,062</b>	<b>438,722</b>	<b>446,808</b>	<b>465,188</b>	<b>458,828</b>	<b>488,710</b>	<b>494,675</b>	<b>5,407,717</b>	<b>4,958,938</b>
<b>Power Sales kWh</b>	kWh	kWh	kWh	kWh	kWh	kWh	kWh	kWh	kWh	kWh	kWh	kWh	kWh	kWh
Government - Post Paid	116,213	122,558	134,591	121,595	122,835	117,113	125,273	121,938	119,622	123,826	126,964	128,975	1,648,805	1,365,290
Government - Pre Paid (Cash Power)	67,480	57,092	78,991	51,887	63,900	71,170	82,743	65,477	78,468	38,357	78,128	74,863	737,415	741,077
Government - Street Lights	4,698	4,698	4,698	4,698	4,698	4,698	4,698	4,698	4,698	4,698	4,698	4,698	56,376	51,678
Solar	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Government Scratchcard	0	0	0	0	0	0	0	0	0	0	0	40	0	40
<b>Government Total</b>	<b>188,391</b>	<b>184,347</b>	<b>218,280</b>	<b>178,180</b>	<b>191,433</b>	<b>192,981</b>	<b>212,714</b>	<b>192,113</b>	<b>202,789</b>	<b>166,881</b>	<b>209,790</b>	<b>208,576</b>	<b>2,442,596</b>	<b>2,158,085</b>
Commercial - Post Paid	360,437	396,695	391,336	390,672	375,069	368,695	434,428	429,926	438,350	436,251	442,069	457,726	4,146,250	4,561,216
Commercial - Pre Paid (Cashpower)	128,454	140,535	128,056	144,761	120,677	134,710	147,953	141,740	140,000	140,038	136,768	148,684	1,398,702	1,523,923
Commercial Scratchcard	0	0	0	0	0	0	0	0	0	0	0	541	0	541
<b>Commercial Total</b>	<b>488,891</b>	<b>537,230</b>	<b>519,392</b>	<b>535,433</b>	<b>495,746</b>	<b>503,405</b>	<b>582,381</b>	<b>571,666</b>	<b>578,350</b>	<b>576,289</b>	<b>578,837</b>	<b>606,952</b>	<b>5,544,952</b>	<b>6,085,680</b>
Residential - Post Paid	13,432	13,837	14,048	10,833	11,822	13,855	12,015	12,001	13,839	10,019	8,315	8,857	114,588	129,441
Residential - Pre Paid (Cashpower)	180,929	202,369	188,084	222,894	176,196	192,045	219,258	224,264	218,436	223,958	218,013	231,433	2,100,803	2,316,950
Residential Scratch Card Sales	0	0	0	0	0	0	0	0	0	0	11,485	12,451	0	23,936
<b>Residential Total</b>	<b>194,361</b>	<b>216,206</b>	<b>202,132</b>	<b>233,727</b>	<b>188,019</b>	<b>205,901</b>	<b>231,273</b>	<b>236,265</b>	<b>232,275</b>	<b>233,977</b>	<b>237,812</b>	<b>252,741</b>	<b>2,215,391</b>	<b>2,470,327</b>
<b>Trade Power Sales Total</b>	<b>871,643</b>	<b>937,783</b>	<b>939,804</b>	<b>947,340</b>	<b>875,198</b>	<b>902,287</b>	<b>1,026,367</b>	<b>1,000,044</b>	<b>1,013,414</b>	<b>977,147</b>	<b>1,026,439</b>	<b>1,068,269</b>	<b>10,202,938</b>	<b>10,714,092</b>
Intercompany - CPUC Office	48,776	3,405	3,503	3,428	2,838	3,453	3,314	3,327	3,119	3,162	3,398	2,749	651,629	35,696
Intercompany - CPUC Power Operation	-	4,903	5,363	5,177	4,623	4,075	3,725	4,313	3,607	3,133	4,547	3,463	-	46,929
Intercompany - CPUC Water Operations	-	24,051	20,652	26,744	26,145	26,069	28,837	29,887	25,971	22,277	23,987	23,457	-	278,077
Intercompany - CPUC Sewer Operations	-	17,844	13,339	16,575	12,653	14,812	18,682	20,557	28,145	22,678	24,457	22,389	-	212,131
Cash Power Unearned (accrual)	-4,607	-4,855	-1,163	-4,095	11,165	-3,190	-25,164	-3,912	4,194	22,873	-2,173	-6,155	-9,717	-12,475
<b>Total Power Sales - kWh</b>	<b>915,812</b>	<b>983,131</b>	<b>981,498</b>	<b>995,169</b>	<b>932,622</b>	<b>947,506</b>	<b>1,055,761</b>	<b>1,054,216</b>	<b>1,078,450</b>	<b>1,051,270</b>	<b>1,080,655</b>	<b>1,114,172</b>	<b>10,844,850</b>	<b>11,274,450</b>

### Financial Table 4 Water Sales Report – September 2015 to August 2016

Water/Sewer Sales Report	Sep 15	Oct 15	Nov 15	Dec 15	Jan 16	Feb 16	Mar 16	Apr 16	May 16	Jun 16	Jul 16	Aug 16	FY 2015	YTD 2016
<b>Water Sales US\$</b>	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
Government	4,685	9,688	5,867	5,759	5,509	7,214	5,778	6,648	8,567	8,111	9,239	7,340	72,366	79,721
Commercial	3,340	6,456	5,364	9,624	4,882	5,956	4,489	7,524	7,458	8,031	9,901	8,978	52,489	78,664
Residential	8,158	14,120	7,484	7,847	9,770	8,242	10,533	11,039	8,269	8,858	8,615	10,725	115,704	105,502
Provision for Billing Errors	-288	-919	-396	-162	-223	-986	0	-160	0	-721	0	-132	-14,583	-3,699
<b>Total</b>	<b>15,895</b>	<b>29,345</b>	<b>18,319</b>	<b>23,069</b>	<b>19,937</b>	<b>20,426</b>	<b>20,800</b>	<b>25,052</b>	<b>24,293</b>	<b>24,280</b>	<b>27,755</b>	<b>26,912</b>	<b>225,977</b>	<b>260,188</b>
<b>Sewer Sales - US\$</b>														
Government	-	4,800	2,909	2,857	2,731	3,574	2,762	3,240	4,174	3,949	4,504	3,557	-	39,058
Commercial	-	2,871	2,221	4,360	2,170	2,387	1,840	3,014	3,433	3,697	3,301	3,261	-	32,554
Commercial with No Water	-	4,048	3,819	3,254	3,355	3,355	3,394	3,394	3,345	3,345	3,345	3,345	-	37,998
Residential	-	1,456	639	641	1,638	392	794	1,019	672	749	683	970	-	9,653
Residential with No Water	-	2,060	2,000	2,010	1,950	1,900	1,820	1,740	1,690	1,720	1,680	1,670	-	20,240
Provision for Billing Errors	-	-106	-659	-46	-741	-460	-319	-486	0	-96	-263	-31	-	-3,206
<b>Sewer Sales</b>	<b>10,069</b>	<b>15,129</b>	<b>10,929</b>	<b>13,076</b>	<b>11,103</b>	<b>11,148</b>	<b>10,291</b>	<b>11,922</b>	<b>13,313</b>	<b>13,364</b>	<b>13,250</b>	<b>12,771</b>	<b>140,533</b>	<b>136,296</b>
<b>Total Water &amp; Sewer Sales</b>	<b>25,965</b>	<b>44,474</b>	<b>29,248</b>	<b>36,144</b>	<b>31,040</b>	<b>31,573</b>	<b>31,091</b>	<b>36,974</b>	<b>37,606</b>	<b>37,644</b>	<b>41,005</b>	<b>39,683</b>	<b>366,510</b>	<b>396,484</b>
<b>Water Sales - Gallons</b>														
Government	959,590	1,960,850	1,202,440	1,175,100	1,124,520	1,473,790	1,188,240	1,360,480	1,739,350	1,655,110	1,870,270	1,496,260	14,741,265	16,246,410
Commercial	727,476	1,353,064	1,127,860	1,994,655	1,028,560	1,275,610	969,055	1,558,890	1,548,440	1,652,090	2,032,980	1,844,190	11,251,173	16,385,395
Residential	2,736,952	4,737,307	2,520,050	2,703,599	3,315,674	2,830,819	3,716,880	3,950,419	2,979,876	3,176,732	3,130,328	3,844,835	39,880,995	36,906,519
Water Delivery & Bunkering	0	38,000	15,086	2,000	39,000	138,000	267,000	0	45,300	26,000	28,000	11,000	0	609,386
<b>Total</b>	<b>4,424,018</b>	<b>8,089,221</b>	<b>4,865,436</b>	<b>5,875,354</b>	<b>5,507,754</b>	<b>5,718,219</b>	<b>6,141,175</b>	<b>6,869,789</b>	<b>6,312,966</b>	<b>6,509,932</b>	<b>7,061,578</b>	<b>7,196,285</b>	<b>65,873,433</b>	<b>70,147,710</b>

## Financial Table 5 Key Performance Indicators – September 2015 to August 2016

	Sep 15	Oct 15	Nov 15	Dec 15	Jan 16	Feb 16	Mar 16	Apr 16	May 16	Jun 16	Jul 16	Aug 16	FY2015	YTD FY2016
<b>1a. Non Revenue Power</b>	<b>19.1%</b>	<b>17.4%</b>	<b>16.1%</b>	<b>18.4%</b>	<b>18.9%</b>	<b>16.3%</b>	<b>17.9%</b>	<b>16.1%</b>	<b>18.2%</b>	<b>18.6%</b>	<b>17.6%</b>	<b>17.1%</b>	<b>18.9%</b>	<b>17.5%</b>
Total Power Generated - kWh	1,131,634	1,190,660	1,170,401	1,219,033	1,149,837	1,131,783	1,285,499	1,256,621	1,318,947	1,290,700	1,311,689	1,344,374	13,380,232	13,669,544
Total Power Billed - kWh	915,812	983,131	981,498	995,169	932,622	947,506	1,055,761	1,054,216	1,078,450	1,051,270	1,080,655	1,114,172	10,844,850	11,274,450
Generation Loss (assumed 6%) - kWh	67,898	71,440	70,224	73,142	68,990	67,907	77,130	75,397	79,137	77,442	78,701	80,662	802,814	820,173
Distribution Loss Estimate - kWh	119,633	106,323	89,419	120,246	119,478	88,076	120,470	95,592	128,387	129,720	119,540	115,931	1,398,062	1,233,183
Commercial Loss (assumed 2.5%) - kWh	28,291	29,767	29,260	30,476	28,746	28,295	32,137	31,416	32,974	32,268	32,792	33,609	334,506	341,739
Street Light Usage	2,063	2,063	2,063	2,063	2,063	2,063	2,063	2,063	2,063	2,063	2,063	2,063	24,750	22,688
Total Loss - kWh	215,822	207,529	188,903	223,864	217,215	184,277	229,738	202,405	240,497	239,430	231,034	230,202	2,535,382	2,395,094
Distribution loss %	10.6%	8.9%	7.6%	9.9%	10.4%	7.8%	9.4%	7.6%	9.7%	10.1%	9.1%	8.6%	10.4%	9.0%
<b>1b. Non Revenue Water</b>	<b>80.7%</b>	<b>63.1%</b>	<b>73.6%</b>	<b>67.2%</b>	<b>73.2%</b>	<b>70.3%</b>	<b>68.4%</b>	<b>61.7%</b>	<b>68.1%</b>	<b>63.0%</b>	<b>65.6%</b>	<b>61.7%</b>	<b>75.3%</b>	<b>66.9%</b>
Water Produced (million gallons)	22.9	21.9	18.4	17.9	20.6	19.3	19.4	18.0	19.8	17.6	20.5	18.8	266.2	212.2
Water Billed (million gallons)	4.42	8.09	4.87	5.88	5.51	5.72	6.14	6.87	6.31	6.51	7.06	7.20	65.9	70.1
<b>2. Current ratio</b>	<b>1.42</b>	<b>1.21</b>	<b>1.19</b>	<b>1.16</b>	<b>1.10</b>	<b>1.27</b>	<b>1.42</b>	<b>1.50</b>	<b>1.86</b>	<b>1.62</b>	<b>2.24</b>	<b>1.99</b>	<b>1.42</b>	<b>3.39</b>
<b>3. ROA (excludes other operating income/grant support)</b>	<b>-1.508%</b>	<b>-0.009%</b>	<b>-0.004%</b>	<b>0.000%</b>	<b>-0.019%</b>	<b>0.012%</b>	<b>-0.023%</b>	<b>-0.073%</b>	<b>-0.025%</b>	<b>0.002%</b>	<b>0.052%</b>	<b>0.000%</b>	<b>-0.041</b>	<b>-0.013</b>
<b>4. Operating ratio</b>	<b>0.91</b>	<b>0.90</b>	<b>0.88</b>	<b>0.89</b>	<b>0.90</b>	<b>0.86</b>	<b>0.91</b>	<b>0.97</b>	<b>0.92</b>	<b>0.88</b>	<b>0.84</b>	<b>0.90</b>	<b>0.911</b>	<b>0.894</b>

## Power Table 1 Power Operation Indicators – September 2015 to August 2016

	Sep 15	Oct 15	Nov 15	Dec 15	Jan 16	Feb 16	Mar 16	Apr 16	May 16	Jun 16	Jul 16	Aug 16	FY2015	YTD 2016
<b>Generation Statistics</b>														
Diesel Generation - kWh	1,105,620	1,157,640	1,147,050	1,193,140	1,123,850	1,101,070	1,247,490	1,222,520	1,286,650	1,261,770	1,284,990	1,314,860	13,092,590	13,341,030
Peak Generation - kW	2,200	2,290	2,280	2,260	2,180	2,170	2,407	2,334	2,320	2,505	2,450	2,481	2,250	2,290
Fuel Consumption - Gallons	77,238	81,980	80,668	84,576	78,908	77,460	86,920	85,744	92,892	92,635	93,319	89,499	891,055	944,601
Average Fuel Price (\$/Gallon)	2.94	2.89	2.94	2.86	2.65	2.70	2.33	2.47	2.55	2.70	2.81	2.74	3.37	29.64
Load Factor (%)	65%	66%	65%	68%	67%	66%	67%	68%	72%	65%	68%	68%	64%	128%
Capacity Factor (%)	39%	41%	41%	40%	39%	39%	43%	42%	41%	45%	44%	44%	40%	41%
Availability Factor (%)	100%	100%	100%	100%	100%	100%	100%	200%	300%	400%	500%	600%	100%	100%
Reserve Plant Margin (%)	143%	143%	143%	143%	143%	143%	143%	143%	143%	143%	143%	143%	-100%	145%
Solar PV Generation - kWh	26,014	33,020	23,351	25,893	25,987	30,713	38,009	34,101	32,297	28,930	26,699	29,514	287,642	328,514
Solar Generation %	2.3%	2.8%	2.0%	2.1%	2.3%	2.7%	3.0%	2.7%	2.4%	2.2%	2.0%	2.2%	2.1%	2.4%
Peak PV Generation -kW	190	241	170	189	189	224	277	249	235	211	195	215	225	241
Avoided Fuel - Gallons	1,817	2,338	1,642	1,835	1,825	2,161	2,648	2,392	2,332	2,124	1,939	2,009	19,559	23,245
Avoided Cost of Fuel - US\$	5,343	6,758	4,828	5,249	4,835	5,834	6,171	5,908	5,946	5,735	5,448	5,504	65,680	62,216
Tons of CO2 avoided	18.4	23.6	16.6	18.5	18.4	21.8	26.7	24.2	23.6	21.5	19.6	20.3	197.5	234.8
Labour Productivity (kWh/Emp/d)	1,115	1,167	1,156	1,203	1,133	1,110	1,258	1,232	1,297	1,272	1,295	1,325	1,121	1,371
<b>SFOC (kWh/gal)</b>														
Unit 1 (Jan 2012)	14.33	14.65	14.76	14.62	14.95	14.90	14.72	14.55	14.55	14.39	14.33	14.66	14.75	14.64
Unit 2 (Jan 2012)	14.27	14.71	14.62	14.36	14.48	14.74	14.46	14.09	0.00	0.00	14.62	14.75	14.68	14.54
Unit 3 (Ex CAT 2)	0.00	0.00	0.00	10.60	12.50	-	13.14	13.64	12.97	12.86	13.07	0.00	12.72	12.91
Unit 4 (Jul 13 - Singapore)	14.40	12.84	12.98	13.26	13.15	12.63	13.57	13.66	13.28	13.02	13.07	14.40	14.40	13.12
<b>SLOC (kWh/gal)</b>														
Unit 1 (Jan 2012)	4,840.0	3,607.5	3,621.8	4,900.4	3,282.6	3,927.2	2,337.0	4,625.4	4,607.4	4,506.2	1,177.5	6,890.9	4,269	3,858
Unit 2 (Jan 2012)	5,027.7	3,857.6	2,573.6	2,086.2	2,967.3	2,652.2	2,035.3	2,891.1	0.0	1.0	1.0	1.0	4,255	2,876
Unit 3 (Ex CAT 2)	0.0	0.0	0.0	75.9	0.0	0.0	0.0	0.0	14,076.0	0.0	0.0	0.0	0	2,049
Unit 4 (Jul 13 - Singapore)	0.0	3,352.0	3,029.5	1,800.1	3,288.9	-	2,765.2	1,548.4	2,636.1	3,393.2	3,279.2	0.0	0	3,047
Forced Outage Factor (%)	0.1%	0.0%	0.1%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.34%	0.34%
Planned Outage Factor (%)	0.0%	0.0%	0.0%	0.4%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.05%	0.79%
<b>Distribution</b>														
Customers/Employee	25	25	25	25	25	25	25	25	25	25	25	25	25	25
Transformer Utilisation (%)	18.7%	24.1%	24.0%	23.8%	22.9%	22.8%	25.3%	24.6%	24.4%	26.4%	25.8%	26.1%	21.8%	24.1%
Distribution Losses (%)	10.6%	8.9%	7.6%	9.9%	10.4%	7.8%	9.4%	7.6%	9.7%	10.1%	9.1%	8.6%	12.6%	99.1%
SAIDI (hours/consumer)	0.14	0.66	0.86	1.44	1.24	0.50	0.10	0.00	0.27	1.05	0.06	0.13	11.60	6.30
SAIFI	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.01	0.01	0.00	0.00	0.09	0.10
Average Cost (\$/kWh)	0.20	0.20	0.20	0.20	0.18	0.18	0.16	0.17	0.18	0.19	0.20	0.18	0.22	0.19

## Power Table 2 Power Generation Statistics – September 2015 to August 2016

	Sep 15	Oct 15	Nov 15	Dec 15	Jan 16	Feb 16	Mar 16	Apr 16	May 16	Jun 16	Jul 16	Aug 16	FY 2015	FY 2016 YTD
<b>Generation - Engine Output (kWh)</b>														
Unit 1 (Jan 2012)	459,800	414,860	434,610	465,540	410,320	420,210	467,400	622,120	645,040	590,310	111,860	654,640	6,489,250	5,236,910
Unit 2 (Jan 2012)	477,630	424,340	424,640	396,380	400,580	411,090	514,930	440,900	0	0	525,020	619,050	6,339,820	4,156,930
Unit 3 (Ex CAT 2)	0	0	0	7,210	500	0	2,470	12,400	140,760	26,750	25,060	0	95,330	215,150
Unit 4 (Jul 13 - Singapore)	168,190	318,440	287,800	324,010	312,450	269,770	262,690	147,100	500,850	644,710	623,050	41,170	168,190	3,732,040
<b>Diesel Generation Total (kWh)</b>	<b>1,105,620</b>	<b>1,157,640</b>	<b>1,147,050</b>	<b>1,193,140</b>	<b>1,123,850</b>	<b>1,101,070</b>	<b>1,247,490</b>	<b>1,222,520</b>	<b>1,286,650</b>	<b>1,261,770</b>	<b>1,284,990</b>	<b>1,314,860</b>	<b>13,092,590</b>	<b>13,341,030</b>
Airport Solar Panel	6,856	9,064	8,396	7,927	7,723	8,145	9,316	8,112	6,995	6,110	5,231	5,072	84,370	82,091
High School Solar Grid Connect	19,158	23,956	14,955	17,966	18,264	22,568	28,693	25,989	25,302	22,820	21,468	24,442	203,272	246,423
<b>Solar PV Generation Total (kWh)</b>	<b>26,014</b>	<b>33,020</b>	<b>23,351</b>	<b>25,893</b>	<b>25,987</b>	<b>30,713</b>	<b>38,009</b>	<b>34,101</b>	<b>32,297</b>	<b>28,930</b>	<b>26,699</b>	<b>29,514</b>	<b>287,642</b>	<b>328,514</b>
<b>Total Generation (kWh)</b>	<b>1,131,634</b>	<b>1,190,660</b>	<b>1,170,401</b>	<b>1,219,033</b>	<b>1,149,837</b>	<b>1,131,783</b>	<b>1,285,499</b>	<b>1,256,621</b>	<b>1,318,947</b>	<b>1,290,700</b>	<b>1,311,689</b>	<b>1,344,374</b>	<b>13,380,232</b>	<b>13,669,544</b>
<b>Maximum Demand (kW)</b>	<b>2,200</b>	<b>2,290</b>	<b>2,280</b>	<b>2,260</b>	<b>2,180</b>	<b>2,170</b>	<b>2,407</b>	<b>2,334</b>	<b>2,320</b>	<b>2,505</b>	<b>2,450</b>	<b>2,481</b>	<b>2,250</b>	<b>2,290</b>
<b>Engine Rating kW (at 0.8 PF)</b>														
Unit 1 (Jan 2012)	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	14,300
Unit 2 (Jan 2012)	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	14,300
Unit 3 (Ex CAT 2)	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	13,200
Unit 4 (Jul 13 - Singapore)	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	0	17,600
Unit 5 (Ex CAT 3)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Station Services (kWh)</b>	<b>3,180</b>	<b>3,405</b>	<b>3,503</b>	<b>3,428</b>	<b>2,838</b>	<b>3,453</b>	<b>3,314</b>	<b>3,327</b>	<b>3,119</b>	<b>3,162</b>	<b>3,398</b>	<b>0</b>	<b>52,826</b>	<b>32,947</b>
<b>Running Hours</b>														
Unit 1 (Jan 2012)	564	469	493	519	486	496	551	717	739	717	140	736	8,168	6,062
Unit 2 (Jan 2012)	608	486	494	479	489	492	611	550	0	0	674	711	8,151	4,985
Unit 3 (Ex CAT 2)	0	0	0	11	1	0	6	20	199	39	38	0	132	314
Unit 4 (Jul 13 - Singapore)	192	259	207	223	242	215	249	153	550	688	653	36	192	3,474
Unit 5 (Ex CAT 3)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Hours</b>	<b>1,364</b>	<b>1,214</b>	<b>1,194</b>	<b>1,231</b>	<b>1,218</b>	<b>1,203</b>	<b>1,417</b>	<b>1,439</b>	<b>1,488</b>	<b>1,444</b>	<b>1,505</b>	<b>1,483</b>	<b>16,642</b>	<b>14,834</b>

### Power Table 3 Fuel & Lube Oil Statistics – September 2015 to August 2016

	Sep 15	Oct 15	Nov 15	Dec 15	Jan 16	Feb 16	Mar 16	Apr 16	May 16	Jun 16	Jul 16	Aug 16	FY 2015	FY 2016 YTD
<b>Fuel Consumption (Gallons)</b>														
Unit 1 (Jan 2012)	32,091	28,325	29,443	31,848	27,441	28,210	31,751	42,769	44,339	41,031	7,804	44,661	439,986	357,622
Unit 2 (Jan 2012)	33,464	28,848	29,047	27,609	27,661	27,889	35,619	31,293	0	0	35,916	41,979	431,893	285,862
Unit 3 (Ex CAT 2)	0	0	0	680	40	0	188	909	10,853	2,080	1,918	0	7,493	16,668
Unit 4 (Jul 13 - Singapore)	11,683	24,807	22,178	24,439	23,765	21,361	19,362	10,772	37,700	49,524	47,681	2,859	11,683	284,449
Unit 5 (Ex CAT 3)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Fuel Consumption (Gals)</b>	<b>77,238</b>	<b>81,980</b>	<b>80,668</b>	<b>84,576</b>	<b>78,908</b>	<b>77,460</b>	<b>86,920</b>	<b>85,744</b>	<b>92,892</b>	<b>92,635</b>	<b>93,319</b>	<b>89,499</b>	<b>891,055</b>	<b>944,601</b>
<b>Average Fuel Price (\$/Gallon)</b>	<b>2.94</b>	<b>2.89</b>	<b>2.94</b>	<b>2.86</b>	<b>2.65</b>	<b>2.70</b>	<b>2.33</b>	<b>2.47</b>	<b>2.55</b>	<b>2.70</b>	<b>2.81</b>	<b>2.74</b>	<b>3.37</b>	<b>2.69</b>
<b>Lube Oil Consumption (Gallons)</b>														
Unit 1 (Jan 2012)	0	20	25	0	30	12	10	40	45	36	0	0	0	218
Unit 2 (Jan 2012)	0	15	70	95	40	60	63	58	0	0	0	0	65	401
Unit 3 (Ex CAT 2)	0	0	0	0	0	0	0	0	10	0	0	0	0	10
Unit 4 (Jul 13 - Singapore)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Unit 5 (Ex CAT 3)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total LO Consumption (Gals)</b>	<b>0</b>	<b>35</b>	<b>95</b>	<b>95</b>	<b>70</b>	<b>72</b>	<b>73</b>	<b>97</b>	<b>55</b>	<b>36</b>	<b>0</b>	<b>0</b>	<b>65</b>	<b>628</b>
<b>Oil Change Log (75 Gal/Change)</b>														
Unit 1 (Jan 2012)	95	95	95	95	95	95	190	95	95	95	95	95	1,520	1,140
Unit 2 (Jan 2012)	95	95	95	95	95	95	190	95	0	0	190	95	1,425	1,045
Unit 3 (Ex CAT 2)	0	0	0	95	0	0	0	0	0	0	0	0	0	95
Unit 4 (Jul 13 - Singapore)	0	95	95	180	95	0	95	95	190	190	190	0	0	1,225
Unit 5 (Ex CAT 3)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Oil Change Volume (Gals)</b>	<b>190</b>	<b>285</b>	<b>285</b>	<b>465</b>	<b>285</b>	<b>190</b>	<b>475</b>	<b>285</b>	<b>285</b>	<b>285</b>	<b>475</b>	<b>190</b>	<b>2,945</b>	<b>3,505</b>



**Power Table 4 Power Distribution Statistics – September 2015 to August 2016**

	Sep 15	Oct 15	Nov 15	Dec 15	Jan 16	Feb 16	Mar 16	Apr 16	May 16	Jun 16	Jul 16	Aug 16	YTD 2015	YTD 2016
<b>Number of Outages (Frequency)</b>														
Forced - Generation	5	4	2	2	3	2	3	0	1	3	0	0	14	20
Planned - Generation	0	0	0	1	1	0	0	0	0	0	0	0	1	2
<b>Total Number of Outages (Gen)</b>	<b>5</b>	<b>4</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>2</b>	<b>3</b>	<b>0</b>	<b>1</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>15</b>	<b>22</b>
Forced - Distribution	20	16	12	11	19	13	23	0	5	21	7	3	115	130
Feeder 1	5	3	2	3	4	2	4	0	1	3	0	0	13	22
Feeder 2	5	4	2	2	3	2	4	0	1	4	1	0	30	23
Feeder 3	5	3	3	2	4	2	5	0	1	3	3	1	35	27
Feeder 4	5	3	5	2	3	5	4	0	1	5	1	1	37	30
Feeder 5		3	0	2	5	2	6	0	1	6	2	1		
Planned - Distribution	2	4	6	8	5	4	0	0	5	0	0	1	36	33
Feeder 1	0	2	0	1	1	0	0	0	1	0	0	0	3	5
Feeder 2	1	1	2	4	1	3	0	0	1	0	0	0	3	12
Feeder 3	1	0	0	1	1	0	0	0	1	0	0	0	14	3
Feeder 4	0	0	2	2	1	1	0	0	1	0	0	1	16	8
Feeder 5		1	2	0	1	0	0	0	1	0	0	0	0	5
<b>Total Number of Outages (Dist)</b>	<b>22</b>	<b>20</b>	<b>18</b>	<b>19</b>	<b>24</b>	<b>17</b>	<b>23</b>	<b>0</b>	<b>10</b>	<b>21</b>	<b>7</b>	<b>4</b>	<b>151</b>	<b>163</b>

**Power Table 5 Power Outage Statistics – September 2015 to August 2016**

	Sep 15	Oct 15	Nov 15	Dec 15	Jan 16	Feb 16	Mar 16	Apr 16	May 16	Jun 16	Jul 16	Aug 16	YTD 2015	YTD 2016
<b>Duration of Outages (Hrs)</b>														
Forced - Generation	0.6	0.2	0.4	0.2	0.5	0.3	0.3	0.0	0.1	0.4	0.0	0.0	29.6	2.5
Planned - Generation	0.0	0.0	0.0	3.2	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	5.7
<b>Total Duration Gen Outage (Hrs)</b>	<b>0.6</b>	<b>0.2</b>	<b>0.4</b>	<b>3.4</b>	<b>3.0</b>	<b>0.3</b>	<b>0.3</b>	<b>0.0</b>	<b>0.1</b>	<b>0.4</b>	<b>0.0</b>	<b>0.0</b>	<b>33.6</b>	<b>8.2</b>
Forced - Distribution	0.6	1.0	3.8	1.5	12.5	3.5	2.8	0.0	0.7	21.0	1.6	0.6	226.7	49.0
Feeder 1		0.3	0.3	0.7	2.5	0.3	0.4	0.0	0.0	3.0	0.0	0.0		7.5
Feeder 2		0.2	0.3	0.2	2.5	0.3	0.4	0.0	0.0	4.0	0.4	0.0		8.3
Feeder 3		0.2	0.5	0.2	2.5	0.2	0.6	0.0	0.0	3.0	0.5	0.2		7.9
Feeder 4		0.2	2.8	0.2	2.5	2.5	0.8	0.0	0.6	5.0	0.3	0.2		15.0
Feeder 5		0.2	0.0	0.2	2.5	0.2	0.6	0.0	0.0	6.0	0.5	0.2		10.4
Planned - Distribution	3.4	16.9	19.7	37.7	21.2	10.0	0.0	0.0	6.7	7.5	0.0	3.0	89.1	122.6
Feeder 1		7.8	0.0	3.4	2.3	0.0	0.0	0.0	1.3	0.4	0.0	0.0		15.1
Feeder 2		2.1	9.2	20.7	0.8	7.5	0.0	0.0	1.3	1.0	0.0	0.0		42.5
Feeder 3		0.0	0.0	6.1	0.6	0.0	0.0	0.0	1.3	0.4	0.0	3.0		11.5
Feeder 4		0.0	7.8	4.1	0.6	2.5	0.0	0.0	1.5	4.3	0.0	0.0		20.8
Feeder 5		7.0	2.7	3.4	16.9	0.0	0.0	0.0	1.3	1.4	0.0	0.0		32.7
<b>Total Duration Dist Outage (Hrs)</b>	<b>3.9</b>	<b>18.8</b>	<b>27.3</b>	<b>40.7</b>	<b>46.2</b>	<b>17.0</b>	<b>5.6</b>	<b>0.0</b>	<b>8.1</b>	<b>49.5</b>	<b>3.2</b>	<b>4.1</b>	<b>315.8</b>	<b>171.6</b>

## Water Table 1 Water Production & Sales Data Statistics September 2015 to August 2016

COMPANY WIDE DATA	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16
<b>Production (Gallons)</b>												
WTP Production	1,713,500	1,233,400	1,122,500	1,284,900	1,293,700	1,026,100	458,800	795,000	1,248,300	865,000	1,200,900	1,380,700
Water into Supply												688,600
Water Into Storage												(692,100)
Well Production (into supply)	21,207,500	20,691,800	17,321,000	16,603,776	19,293,792	18,243,591	18,974,336	17,164,066	18,524,248	16,718,126	19,300,026	18,115,509
	22,921,000	21,925,200	18,443,500	17,888,676	20,587,492	19,269,691	19,433,136	17,959,066	19,772,548	17,583,126	20,500,926	18,804,109
<b>Volume Billed (Gallons)</b>												
Commercial	727,476	1,353,064	1,127,860	1,994,655	1,028,560	1,275,610	969,055	1,558,890	1,548,440	1,652,090	2,032,980	1,844,190
Government (excludes hospital)	959,590	955,350	601,640	432,500	495,720	856,790	746,340	750,280	1,077,050	872,510	1,088,270	374,960
Government Hospital		1,005,500	600,800	742,600	628,800	617,000	441,900	610,200	662,300	782,600	782,000	1,121,300
Residential	2,736,952	4,737,307	2,520,050	2,703,599	3,315,674	2,826,759	3,707,730	3,950,419	2,979,876	3,176,732	3,130,328	3,844,835
Water Delivery and Bunkering		38,000	15,086	2,000	39,000	138,000	267,000	-	45,300	26,000	28,000	-
<b>Total</b>	<b>4,424,018</b>	<b>8,089,221</b>	<b>4,865,436</b>	<b>5,875,354</b>	<b>5,507,754</b>	<b>5,714,159</b>	<b>6,132,025</b>	<b>6,869,789</b>	<b>6,312,966</b>	<b>6,509,932</b>	<b>7,061,578</b>	<b>7,185,285</b>
<b>NRW</b>												
Volume	18,496,982	13,835,979	13,578,064	12,013,322	15,079,738	13,555,532	13,301,111	11,089,277	13,459,582	11,073,194	13,439,348	11,618,824
	80.7%	63.1%	73.6%	67.2%	73.2%	70.3%	68.4%	61.7%	68.1%	63.0%	65.6%	61.8%
<b>Invoiced Water Value (USD)</b>												
Water Delivery and Bunkering				50	\$2,430	\$7,350	\$15,175	\$0	\$2,265	\$1,450	\$1,886	
Commercial	2,815	6,704	5,564	9,840	\$5,051	\$6,153	\$4,582	\$7,525	\$7,484	\$8,035	\$9,917	\$8,987
Government (includes hospital)	4,283	9,688	5,867	5,759	\$5,509	\$7,214	\$5,778	\$6,648	\$8,567	\$8,111	\$9,239	\$7,340
Residential	7,408	14,120	7,484	7,847	\$9,770	\$8,241	\$10,533	\$11,040	\$8,269	\$8,858	\$8,615	\$10,687
	14,506	30,512	18,915	23,447	\$20,330	\$21,608	\$20,893	\$25,213	\$24,320	\$25,004	\$27,770	\$27,014
<b>Sewer Charges(USD)</b>												
Commercial	1,372	2,871	2,221	4,360	\$2,170	\$2,387	\$1,840	\$3,014	\$3,433	\$3,697	\$3,367	\$3,327
Commercial - w/o water	4,130	4,048	3,819	3,254	\$3,355	\$3,355	\$3,394	\$3,394	\$3,345	\$3,345	\$3,345	\$3,279
Government	2,324	4,800	2,909	2,857	\$2,731	\$3,574	\$2,762	\$3,240	\$4,174	\$3,949	\$4,504	\$3,586
Residential	704	1,456	639	641	\$931	\$609	\$794	\$1,019	\$672	\$749	\$683	\$970
Residential w/o water	1,540	2,060	2,000	2,010	\$1,950	\$1,900	\$1,820	\$1,740	\$1,690	\$1,720	\$1,680	\$1,670
	10,069	15,235	11,589	13,122	\$11,137	\$11,825	\$10,610	\$12,408	\$13,313	\$13,460	\$13,579	\$12,832

## Water Table 2 Water/Sewer Connection Data – September 2015 to August 2016

COMPANY WIDE DATA	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16
<b>Water Connection Data (No. of Connections)</b>												
Commercial - Billed	63	64	65	65	66	69	70	66	66	68	67	68
Commercial - Disconnected	8	6	5	2	3	2	3	4	4	5	6	6
Commercial - Awaiting Connection	3	3	3	3	3	3	2	2	2	2	2	2
Commercial Avge Consumption - Gall/conn/mth	11,547	21,142	17,352	30,687	15,584	18,487	13,844	23,620	23,461	24,295	30,343	27,120
Government - Billed	14	16	15	15	13	19	19	17	15	19	14	13
Government - Disconnected	2	2	2	1	1	2	2	2	2	2	5	3
Government - Awaiting Connection	0	0	0	0	-	-	-	-	-	-	-	-
Government Avge Consumption - Gall/conn/mth	68,542	59,709	40,109	28,833	38,132	45,094	39,281	44,134	71,803	45,922	77,734	28,843
Hospital - Billed		1			1	1	1	1	1	1	1	1
Hospital - Disconnected		0			-	-	-	-	-	-	-	-
Hospital - Awaiting Connection		0			-	-	-	-	-	-	-	-
Hospital Avge Consumption - Gall/conn/mth		1005500			628800	617000	441900	610200	662300	782600	782000	1121300
Residential - Billed	334	340	343	340	337	348	357	353	348	351	331	334
Residential - Disconnected	126	119	119	119	118	118	113	120	118	122	143	137
Residential - Awaiting Connection	62	63	61	64	65	62	59	60	65	70	73	76
Residential Avge Consumption - Gall/conn/mth	8,194	13,933	7,347	7,952	9,839	8,123	10,386	11,191	8,563	9,051	9,457	11,511
<b>Sewer Connection Data (No. of Connections)</b>												
Commercial Billed	31	24	23	30	25	35	39	37	38	38	37	33
Commercial Billed w/o water	53	53	53	53	53	53	53	53	53	53	53	53
Government Billed	8	11	10	10	13	18	18	16	14	18	13	12
Residential Billed	134	127	136	135	139	140	158	169	160	160	146	154
Residential Billed w/o water	144	198	193	177	195	190	183	173	169	172	168	167
STP Inflow (MG/month)												16.5
<b>SEWER OVERFLOWS</b>												
North Zone	1	0	1	0	0	0	0	0	0	4	0	2
South Zone	1	1	0	0	1	0	0	0	0	1	4	1

**Water Table 3 Zonal Water Use Statistics – FY2016**

ZONAL NRW - August 2016					ZONAL NRW - FY2016 YTD				
Zone	Production	Sales	NRW		Zone	Production	Sales	NRW	
	Gallons	Gallons	Gallons	%		Gallons	Gallons	Gallons	%
1	2,455,384	374,010	2,081,374	85%	1	14,912,263	4,700,940	10,211,323	68%
2	11,618,000	4,417,862	7,200,138	62%	2	139,028,642	43,817,388	95,211,254	68%
3	953,979	118,220	835,759	88%	3	13,606,995	2,763,060	10,843,935	80%
4	1,106,200	139,510	966,690	87%	4	10,847,747	1,352,279	9,495,468	88%
5	0	6,350	-6,350	-	5	1,869,400	53,730	1,815,670	-
6	2,283,868	1,897,143	386,725	17%	6	24,696,817	14,602,783	10,094,034	41%
7	19,323	126,990	-107,667	-	7	355,616	490,040	-134,424	-
8	13,100	105,200	-92,100	-703%	8	6,190,904	2,317,490	3,873,414	63%
<b>Total</b>	<b>18,449,854</b>	<b>7,185,285</b>	<b>11,264,569</b>	<b>61%</b>	<b>Total</b>	<b>211,508,384</b>	<b>70,097,710</b>	<b>141,410,674</b>	<b>67%</b>
ZONAL WATER CONSUMPTION - August 2016					ZONAL WATER CONSUMPTION - FY2016 YTD				
Zone	AWge Use -Gallons/ConnecUion				Zone	Avge Use -Gallons/Connection			
	Commercial	GoWernment	Hospital	Residential		Commercial	Government	Hospital	Residential
1	7,360	13,600	-	10,788	1	27,135	37,291	-	8,377
2	0	36,621	-	8,896	2	18,094	58,540	-	9,386
3	0	23,130	-	3,763	3	0	16,898	-	13,561
4	10,550	0	-	9,636	4	7,699	0	-	9,357
5	0	0	-	1,312	5	0	0	-	1,047
6	31,268	0	1,121,300	0	6	55,994	0	726,818	13,521
7	0	0	-	23,224	7	0	0	-	9,333
8	0	15,087	-	7,133	8	8,964	33,329	-	6,672
<b>Total</b>	<b>30,343</b>	<b>77,734</b>	<b>782,000</b>	<b>9,457</b>	<b>Total</b>	<b>21,906</b>	<b>57,702</b>	<b>726,818</b>	<b>10,042</b>

# Administration Table 1 H&S Statistics – August 2016 & FY 2016



## HEALTH & SAFETY REPORT: FY2016 - August 2016

### 1. ACCIDENT REPORT

DEPARTMENT	Number of Staff	August 2016						YEAR TO DATE - FY2016					
		Hours Worked	FA	MT	LTC	LTD	FAT	Hours Worked	FA	MT	LTC	LTD	FAT
Power Generation	9	1,631	0	0	0	0	0	17,753	0	0	0	0	0
Maintenance	7	1,215	0	0	0	0	0	15,167	0	0	0	0	0
Power Distribution - Line	20	3,468	0	0	0	0	0	38,621	0	0	0	0	0
Power Distribution - Contractors	13	2,399	0	0	0	0	0	24,481	0	0	0	0	0
Water & Sewer	11	1,794	0	0	0	0	0	20,808	0	0	0	0	0
Water & Sewer Contractors	13	2,747	0	0	0	0	0	26,031	0	0	0	0	0
Fin, Admin, Cust Care	18	2,764	0	0	0	0	0	27,615	0	0	0	0	0
<b>TOTAL</b>	<b>91</b>	<b>16,019</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>170,475</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

FA - Number of First Aid cases

Total Hours Without Incident: - Whole Company

299,976

MT - Number of Medical Treatment cases

LTC - Number of Lost time cases

LTD - Number of Lost time days

FAT - Number of Fatalities

### 2. SICK LEAVE REPORT

DEPARTMENT	Number of Staff	August 2016		
		Total Hours Sick	Accident Related	Poor Health
Power Generation	9	71	0	71
Maintenance	7	53	0	53
Power Distribution - Line	20	247	0	247
Power Distribution - Customer	13	43	0	43
WSS _ Treatment/Prod	11	28	0	28
WSS Networks	13	0	0	0
Finance, Admin Cust Coord	18	303	0	303
<b>TOTAL</b>	<b>91</b>	<b>745</b>	<b>0</b>	<b>745</b>

Year To Date FY2016		
Total Hours Sick	Accident Related	Poor Health
1,011	0	1,011
550	0	550
2,814	0	2,814
399	0	399
920	0	920
25	0	25
2,936	0	2,936
<b>8656</b>	<b>0</b>	<b>8656</b>

Sick Hours as Percentage of Total Hours Worked	4.6%	0.0%	4.6%
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5.1%	0.0%	5.1%
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DEPARTMENT	Number of Staff	August 2016		
		Total Hours Sick	Accident Related	Poor Health
Sick Hours as Percentage of Total Hours Worked				
Power Generation	9	4.3%	0.0%	4.3%
Maintenance	7	4.4%	0.0%	4.4%
Power Distribution - Line	20	7.1%	0.0%	7.1%
Power Distribution - Customer	13	1.8%	0.0%	1.8%
WSS _ Treatment/Prod	11	0.0%	0.0%	0.0%
WSS Networks	13	0.0%	0.0%	0.0%
Finance, Admin Cust Coord	18	11.0%	0.0%	11.0%
<b>TOTAL</b>	<b>91</b>	<b>4.6%</b>	<b>0.0%</b>	<b>4.6%</b>

## Administration Table 2 Attendance Summary – August 2016 & FY 2016

DEPARTMENT	August 2016								YEAR TO DATE - FY2016							
	Number of Staff	Hours Worked		National Holiday	Sick Leave	Annual Leave	Total Hours Claimed	AWOL	Hours Worked		National Holiday	Sick Leave	Annual Leave	Total Hours Claimed	AWOL	Sick Leave As % of Hours claim
		Regular	Overtime						Regular	Overtime						
Power Generation	9	1,425	206	0	71	93	1,795	2	14,107	2,232	170	1,011	513	18,033	34	5.6%
Maintenance	7	1,080	135	0	53	117	1,384	0	13,401	1,766	474	550	814	17,005	49	3.2%
Power Distribution - Line	20	3,065	404	0	247	221	3,936	7	31,379	7,242	1,171	2,814	1,880	44,487	142	6.3%
Power Distribution - Contractors	13	2,294	105	0	43	0	2,442	0	23,984	497	188	399	114	25,183	0	1.6%
Water & Sewer	11	1,552	243	0	28	165	1,987	27	17,301	3,506	410	920	1,319	23,457	35	3.9%
Water & Sewer Contractors	13	2,745	2	0	0	0	2,747	0	25,641	390	203	25	204	26,462	20	0.1%
Fin, Admin, Cust Care	18	2,549	216	0	303	324	3,391	13	24,979	2,636	965	2,936	3,572	35,086	316	8.4%
<b>TOTAL</b>	<b>91</b>	<b>14,709</b>	<b>1,310</b>	<b>0</b>	<b>745</b>	<b>919</b>	<b>17,682</b>	<b>49</b>	<b>150,792</b>	<b>18,268</b>	<b>3,581</b>	<b>8,656</b>	<b>8,416</b>	<b>189,714</b>	<b>596</b>	<b>4.6%</b>
Hours as % of Total Hours Claimed		83.2%	7.4%	0.0%	4.2%	5.2%		0.3%	79.5%	9.6%	1.9%	4.6%	4.4%		3.4%	

## CAPEX Table 1 Major Capex Project Summary – End August 2016

CPUC POWER PLANT PROJECT							
INITIAL GRANT FUNDS	7,690,000						
<b>PART 1</b>							
	Original Budget	Spend to End May		Balance of Budget			
PART 1 Spend Total	1,193,500	1,193,500		0			
Balance of Grant for PART 2	6,496,500			6.5%			
<b>PART 2</b>							
	Original Budget	Revised Budget - May 16	Revised Budget - June 16	Revised Budget - Sep 16	Variance on Original Budget	Spend to End August 16	Spend To Completion
Power Plant Project - RJE	6,237,928	6,237,928	6,237,928	6,237,928	0	4,544,413	1,693,515
<b>Agreed Variations</b>							
AV1. Radiator coating upgrade			6,500	6,500	-6,500	0	6,500
AV2. Teleporter				35,000	-35,000	0	35,000
AV3. Electratherm - Waste Heat To Energy Eng Study				11,000	-11,000	0	11,000
<b>Potential Variations</b>							
PV1. Fuel Storage Option				151,550	-151,550	0	151,550
PV2. CCTV and Gates Option				149,500	-149,500	0	149,500
Power Plant - McMahon Amendment #1	196,500	196,500	225,000	225,000	-28,500	140,890	84,110
Power Plant Office - CPUC	216,000	216,000	150,000	135,000	81,000	48,607	86,393
Import Duties - CPUC	160,000	172,042	160,000	172,042	-12,042	0	172,042
Miscellaneous Support	0	50,000	81,000	81,000	-81,000	15,831	65,169
<b>Expenditure</b>	<b>6,810,428</b>	<b>6,872,470</b>	<b>6,860,428</b>	<b>7,238,620</b>	<b>-428,192</b>	<b>4,749,741</b>	<b>2,488,879</b>
<b>Available Funds Pre-drawdown</b>							
	<b>Funding Commitments</b>					<b>Drawn</b>	<b>Balance</b>
Drawdown From Compact Grant	6,496,500	6,496,500	6,496,500	6,496,500		6,206,500	290,000
Supplement from WWTP Project	228,000	247,948	247,948	247,948		0	247,948
Supplement from Emergency Generation Project	85,969	85,969	85,969	85,969		0	85,969
Supplement from Contingency Support (under approval)				500,000		0	500,000
	<b>6,810,469</b>	<b>6,830,417</b>		<b>7,330,417</b>		<b>6,206,500</b>	<b>1,123,917</b>
<b>WWTP REHABILITATION PROJECT</b>							
<b>Component 1 - Local</b>							
<b>Component 2 - International</b>							
Both grants closed out in August 2016 and transfer of excess funds to CPUC Power Plant Grant is approved by Statae and OIA.							
Balance payable to CCB Envico On D/L Completion in March 2017:	£	17,930					
<b>ADB ODP PROJECT - POWER DISTRIBUTION IMPROVEMENT - Loan Drawdown Completed - Loan Closed End June 2016</b>							

## CAPEX Table 2 Capex Summary Sheet – End August 2016

Chuuk Public Utility Corporation Capex Summary Sheet as of July 31, 2016									
	A	A1	B	C	D (B-C)	E (A+A1-B)	F	(A+A1-F)	G (F-C)
	Total Value	(Deobligate) Obligate	Commitment	Expended	Commitment Balance	Uncommitted (Fun By Ops/Other Gra	Cash Drawdown	OIA Balance	Cash Balance
<b>ADB Loan</b>									
OCR	2,800,000		2,788,915	2,788,915	0	11,085	2,788,915	0	0
ADF	2,694,256		2,694,256	2,694,256	0	0	2,694,256	0	0
<b>ADB Grant - Project Completed in December 2013</b>									
JFPR	980,000		980,000	963,000	17,000	0	963,000	0	0
<b>Compact Grant</b>									
CRISP - D11AF00015	2,360,200		2,306,200	2,306,200	0	54,000	2,306,200	0	0
CRISP - D11AF00084	2,121,440		2,165,889	2,165,889	0	-44,449	2,121,440	0	0
<b>CRISP TOTAL</b>	<b>4,481,640</b>		<b>4,472,089</b>	<b>4,472,089</b>	<b>0</b>	<b>9,551</b>	<b>4,427,640</b>	<b>0</b>	<b>0</b>
OMIP	250,000		251,427	251,427	0	-1,427	250,000	0	0
OIDPMatchPower Plant GR970170	7,690,000	374,039	7,783,975	5,352,133	2,431,842	280,064	7,400,000	664,039	2,047,867
Smoke Detection	60,000	-4,686	55,314	55,314	0	0	60,000	-4,686	4,686
Power Security grant D15AFF0020	470,000	-85,969	384,031	384,031	0	0	384,400	-369	369
FY 2014 professional Managt D14F0009-00020	762,400		751,000	751,000	0	11,400	751,000	11,400	0
Fy 2015 professional - D15F00015-00020	280,800		280,800	280,800	0	0	280,800	0	0
FY 2016 Professional - D16AF00023-00020	525,800		424,740	261,627	163,113	101,060	390,450	135,350	128,823
WWTP Phase 1 D14AF00042	955,000	-48,117	906,883	906,883	0	0	909,000	-2,117	2,117
WWTP Phase 2 D14AF00048	3,700,000	-235,267	3,464,733	3,414,233	50,500	50,500	3,456,497	8,236	42,264
FY 2016 Scratched Card - D16AF00017-00010	140,000		140,000	140,000	0	0	140,000	0	0
FY 2016 Tonoas Water System - D16AF00017-00010	750,000		0	0	0	0	0	750,000	0
FY 2016 - CPUC Office / Warehouse - D16AF00017-00010	350,000		0	0	0	0	0	350,000	0
<b>Total</b>	<b>26,889,896</b>	<b>0</b>	<b>25,378,162</b>	<b>22,715,708</b>	<b>2,662,455</b>	<b>462,233</b>	<b>24,895,958</b>	<b>1,911,853</b>	<b>2,226,126</b>