

CHUUK PUBLIC UTILITY CORPORATION



MONTHLY REPORT:

FY2019 – September 2019



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EXECUTIVE SUMMARY

SUMMARY OF KEY STATISTICS

	Sep-19	FY2019	US\$/kWh Sold		US\$/kWh generated	
	US\$	US\$	Sep-19	FY2019	Sep-19	FY2019
Revenue	631,154	7,736,766	0.510	0.519	0.441	0.448
Variable Costs	321,917	3,957,608	0.260	0.266	0.225	0.229
Fixed Costs	245,631	2,457,472	0.198	0.165	0.171	0.142
Total Expenses	567,548	6,415,080	0.458	0.430	0.396	0.372
Operating result	63,606	1,321,686	0.051	0.089	0.044	0.077
Power generation	1,432,266	17,267,831				
Diesel	1,356,393	16,910,468				
Solar	75,873	357,363				
Solar PV as % of Total Generation	5.3%	2.1%				
Avoided Cost of Fuel - US\$	16,068	78,510				
Tons of CO2 Avoided	52.1	244.4				
Government Sales	243,758	2,600,210	Feeder	Conns	Sep-19	FY2019
Commercial Sales	594,462	7,591,507	F1	507	336,964	3,893,759
Residential Sales	336,800	3,909,393	F2	488	104,991	1,214,353
Intercompany Sales	79,241	829,499	F3	404	343,851	4,314,626
Sales Accrual	-16,195	-28,820	F4	395	298,274	3,693,340
Total Sales	1,238,066	14,901,789	F5	499	136,997	1,623,610
Power Loss	13.6%	13.7%	Total	2,294	1,221,077	14,739,689
Operating ratio	0.90	0.83	NB - Error on Total and Feeder sales YTD is <1.0%; 17,698 kWh station use is not included			
Water Produced - Gallons	22,318,600	246,062,484				
Water Sold - Gallons	8,286,729	90,021,859				
Non Revenue Water	62.9%	63.4%				

Daily generated output in September was 47,742 kWh/day; 3.1% higher than August. Average daily sales were 41,269kWh/day – 1.6% higher than June. Total power loss was 13.6% (YTD 13.7%).

Average fuel efficiency for September was 14.80 kWh/gallon.

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

Government – 19.7%; Commercial – 48.0%; Residential – 27.2%; Intercompany 6.4%; Accrual -1.3%;

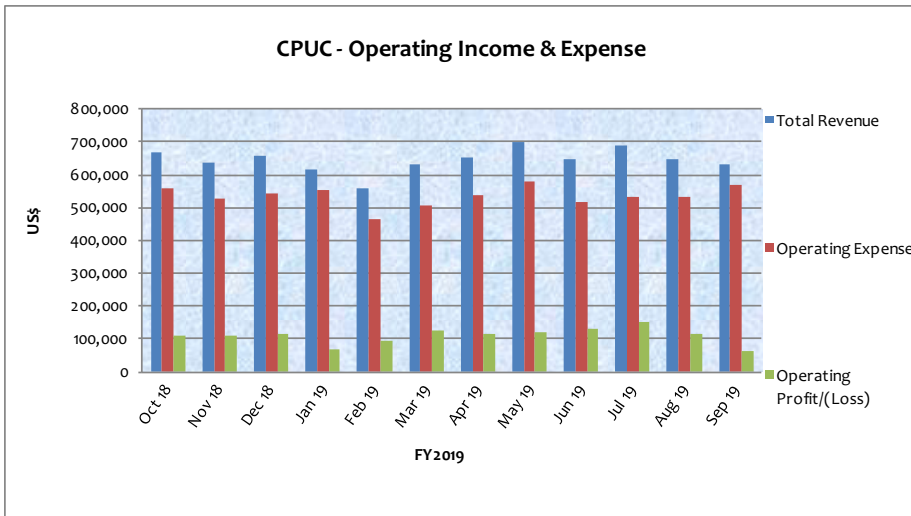
Solar PV generation in increased significantly in September to 75,873 kWh or 5.3% of total generation. This was due to the commissioning of 400 kWp of solar PV funded through World Bank energy program. The avoided cost of fuel was US\$16,068 and the amount of Carbon Dioxide avoided was 52.1 tons.

In the analysis of the financial result of September it was noticed that an error in tariff has been perpetuated since July 2018. The error led to an overstatement of tariff of 8% - a total of US\$702,328. CPUC management will be proposing a solution to this issue to the Board of CPUC for action within October.

The FY2019 operating result was US\$1,321,686 or 0.83; with a positive OR after depreciation and interest of US\$ 49,608 – this is the first time a positive OR after interest and Depreciation has been achieved. This is as a result of efficient cost control.

In relation to collections a significant reduction in Government arrears was achieved in September 2019 however commercial arrears increased by US\$115k from August to September significantly reducing the year end impact of the Government collection.

1 FINANCIAL PERFORMANCE GRAPHS

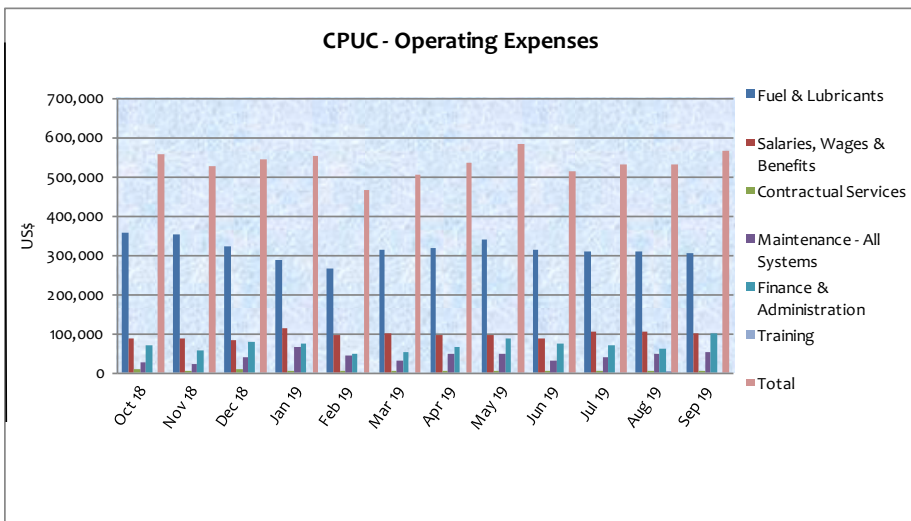


1.1 Key Points:

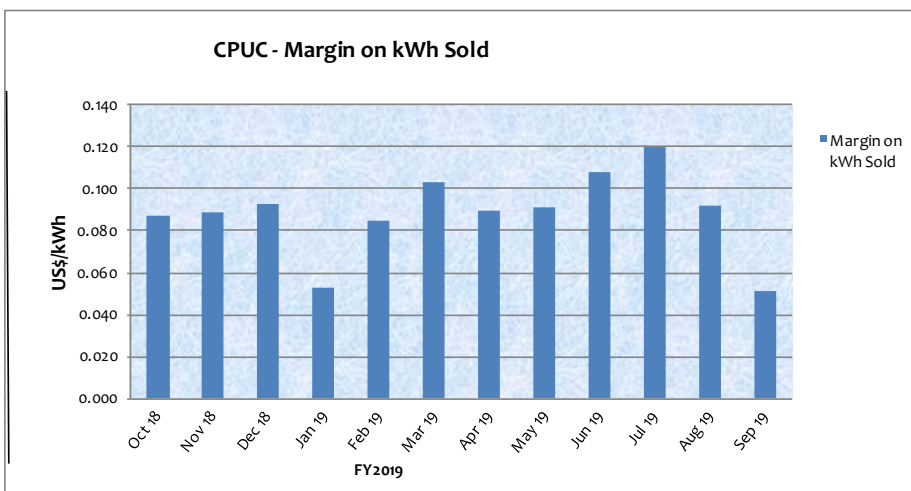
FY2018 Operating income before Depreciation & Interest :

FY2019 US\$2,023,869

Operating ratio: FY2019 0.76;

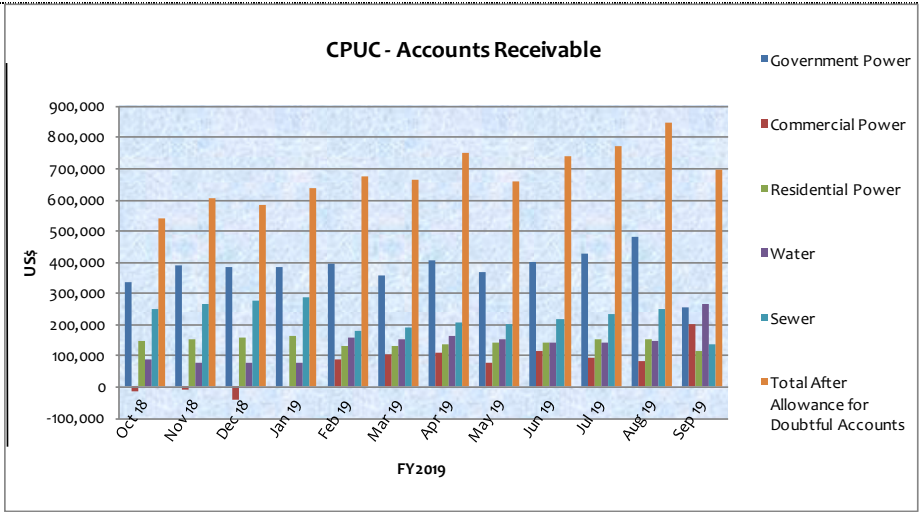


1.2 Key Points:



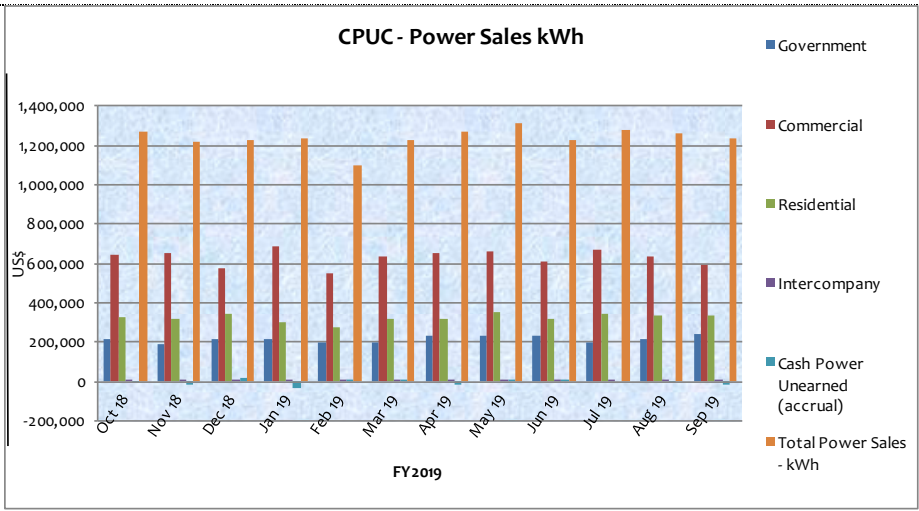
1.3 Key Points:

YTD US\$0.089 kWh sold.

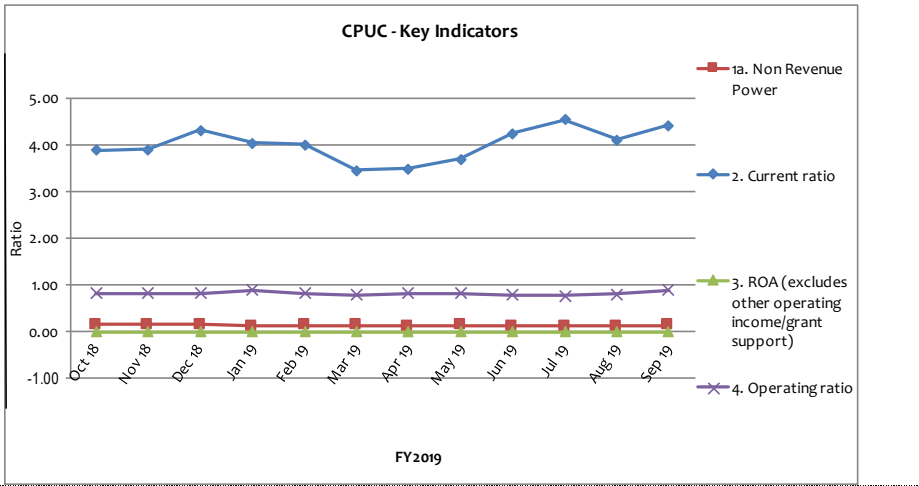


1.4 Key Points:

A large payment was received from Government in September 2019 significantly improving CPUC arrears position

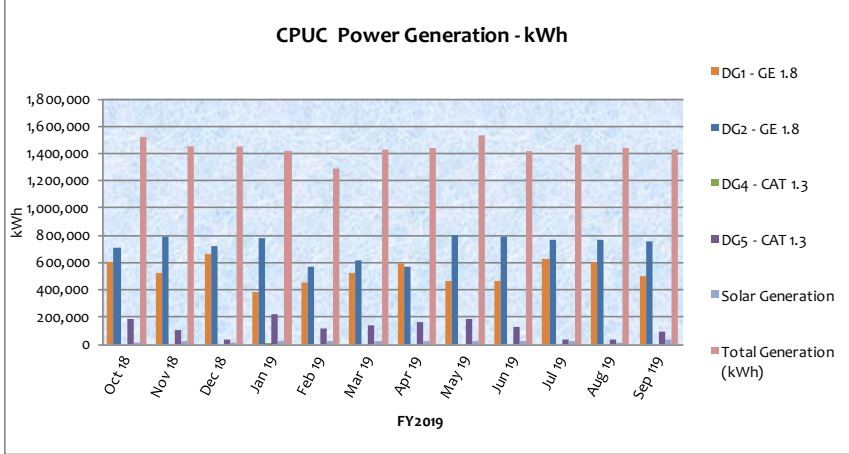


1.5 Key Points:

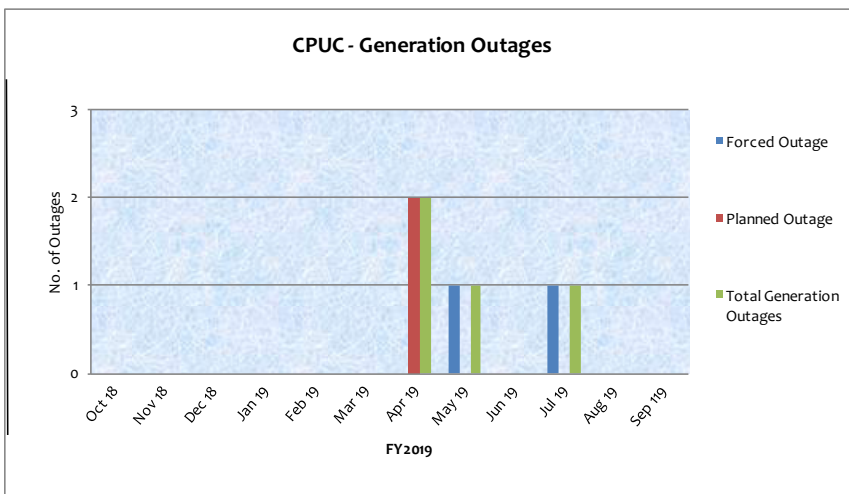


1.6 Key Points:

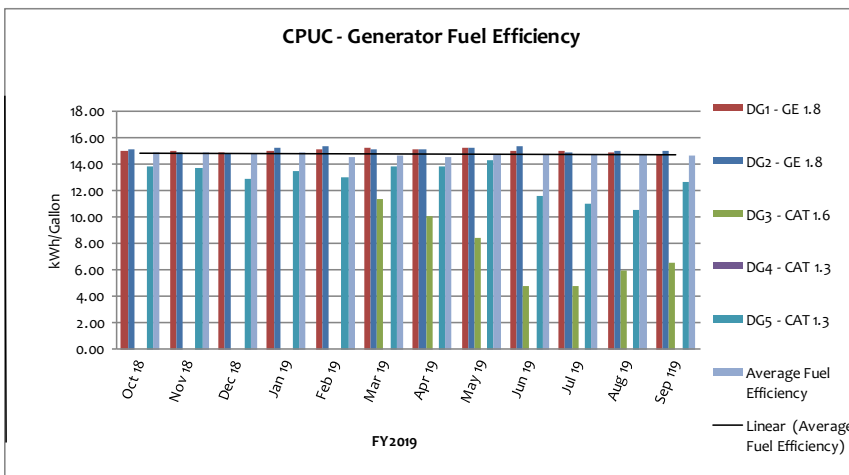
2 POWER GENERATION & DISTRIBUTION PERFORMANCE GRAPHS



2.1 Key Points:

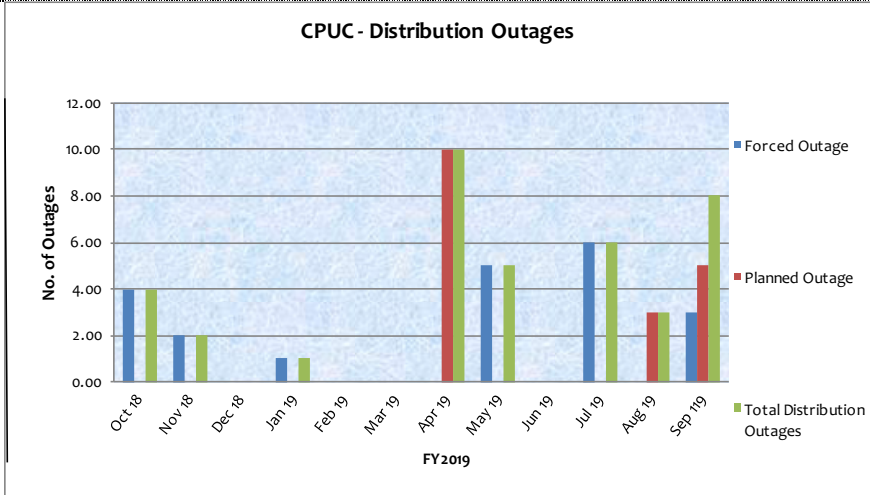


2.2 Key Points:

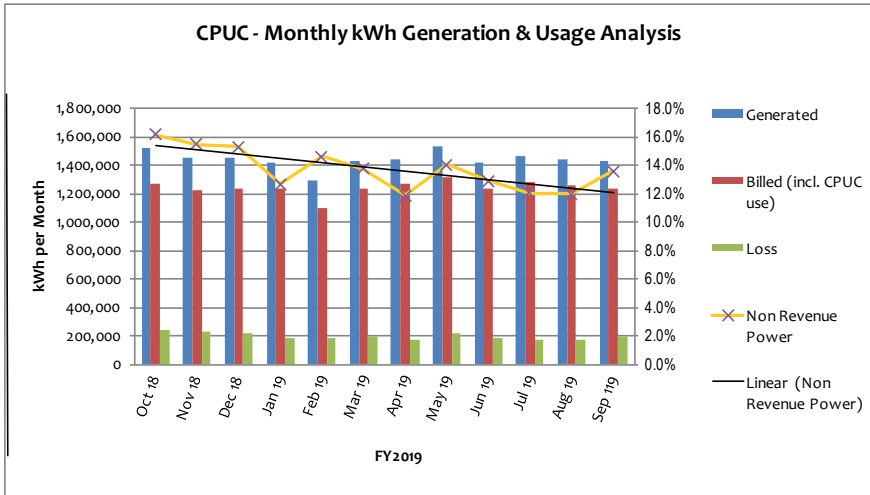


2.3 Key Points:

Avg fuel efficiency in FY2019 14.8 kWh/gall.

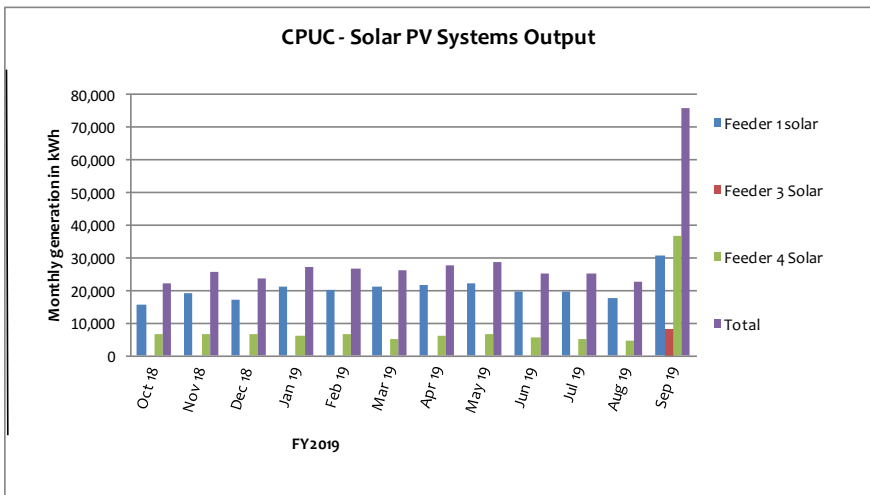


2.4 Key Points



2.5 Key Points:

Power loss for August 2019 – 12.0%;
YTD 13.7%



2.6 Key Points:

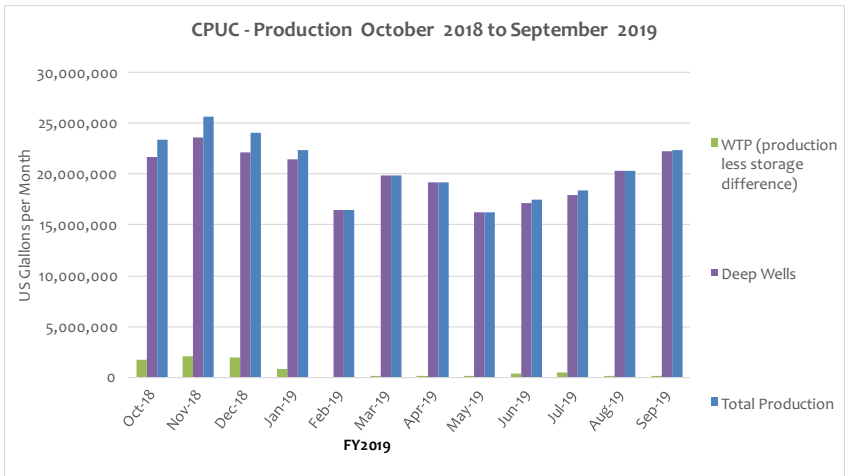
Following completion of the WB solar PV project (additional 400 kWp of solar PV)

Solar PV accounted for 5.3% of CPUC generation in September;

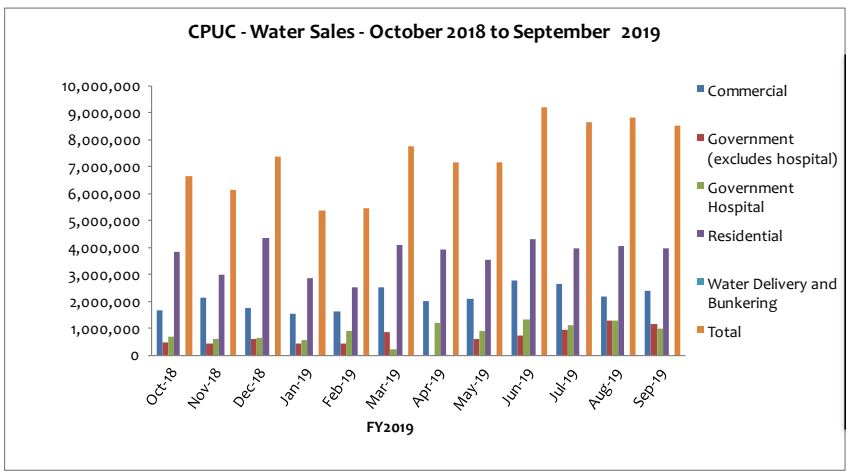
The avoided cost of fuel was:
US\$16,068

Avoided Tons of CO₂ was 52.1 Tons;

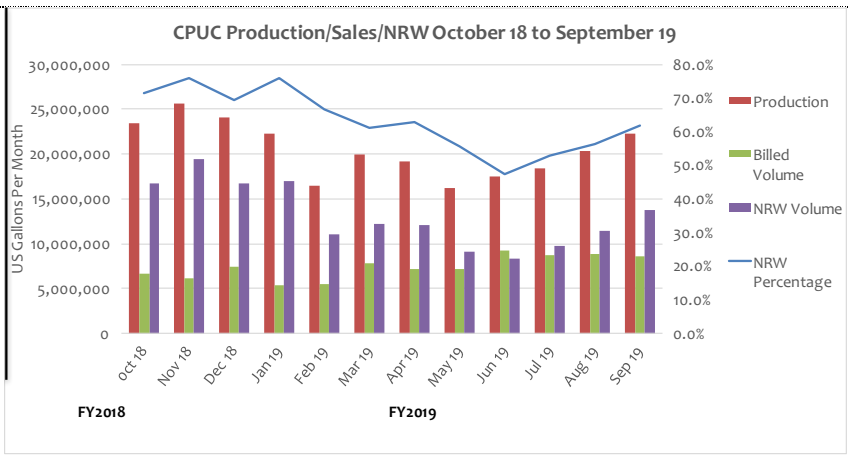
3 WATER PERFORMANCE GRAPHS



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



Key Points:



Key Points:

Financial Table1 P & L Statement – October 2018 to September 2019

	Oct 18	Nov 18	Dec 18	Jan 19	Feb 19	Mar 19	Apr 19	May 19	Jun 19	Jul 19	Aug 19	Sep 19	FY2018	FY2019
Revenue - US\$														
Operating revenue:														
a. Power Sales	617,375	592,153	601,650	571,992	506,873	568,002	594,657	623,984	584,423	607,271	586,974	563,399	7,058,632	7,018,756
b. Water Sales	24,496	23,247	28,617	18,234	18,457	28,961	30,872	28,118	36,051	33,606	33,808	32,751	273,716	337,219
c. Sewer Sales	12,204	13,274	13,201	11,845	12,625	14,646	15,832	14,636	18,024	15,388	16,516	13,810	145,333	172,002
d. Other operating revenue	12,939	8,920	13,651	15,090	21,352	20,829	9,348	34,898	10,349	30,511	9,708	21,194	108,961	208,790
Revenue - Total	667,014	637,595	657,120	617,162	559,307	632,439	650,709	701,637	648,847	686,776	647,007	631,154	7,586,642	7,736,766
Expenses - US\$														
Fuel & Lubricants	357,813	351,703	324,559	289,207	267,204	312,148	318,439	338,876	314,459	309,642	309,098	306,466	3,738,941	3,799,614
Salaries, Wages & Benefits	90,443	86,883	86,183	114,829	97,726	102,212	97,018	98,743	90,353	107,044	105,970	102,394	1,087,840	1,179,800
Contractual Services	10,274	8,120	8,934	5,039	4,723	5,762	4,996	5,316	5,077	5,298	5,372	4,992	105,293	73,902
O&M - Power Generation	2,592	2,796	9,175	44,696	32,945	5,747	10,542	21,962	14,283	18,010	22,190	24,300	205,681	209,237
O&M - Power Distribution	8,235	7,355	17,556	4,237	3,130	12,231	12,053	10,265	4,302	3,741	8,258	5,713	140,422	97,075
O&M - Water	2,591	4,668	787	3,616	220	5,726	5,154	3,710	996	1,551	2,026	10,659	59,845	41,704
O&M - Sewer	71	0	1,650	795	62	262	0	421	600	0	6,025	36	3,602	9,921
Finance & Administration Overheads	56,170	44,688	69,378	62,013	38,878	39,494	52,298	77,357	63,218	57,763	45,990	84,748	619,662	691,996
Vehicle & Eq. Fuel	12,698	8,928	11,732	14,678	10,798	9,244	23,045	13,952	10,860	17,865	11,034	12,789	180,871	157,624
CPUC Power Usage (incl. in O&M from Oct 15)	15,329	14,016	12,583	12,511	9,879	12,206	13,066	10,970	11,705	11,967	14,380	15,451	157,143	154,062
Training	0	0	0	0	0	0	0	0	0	0	146	0	9,601	146
Expense - Total	556,217	529,156	542,538	551,620	465,565	505,033	536,611	581,571	515,853	532,881	530,488	567,548	6,308,899	6,415,080
Operating Income/(Loss)	110,798	108,439	114,582	65,542	93,742	127,406	114,097	120,065	132,994	153,895	116,518	63,606	1,277,743	1,321,686
Non-Cash Expenses - US\$														
Depreciation	118,520	118,520	118,520	118,520	118,520	118,520	118,520	118,520	118,520	118,520	118,520	-115,228	1,467,491	1,188,491
Interest Expense	5,189	5,189	5,188	5,188	5,188	5,188	5,188	5,188	5,188	5,188	5,188	26,320	68,004	83,390
Non-Cash Expense - Total - US\$	123,709	123,709	123,708	123,708	123,708	123,708	123,708	123,708	123,708	123,708	123,708	-88,909	1,535,495	1,271,881
Income/(Loss) - excluding grant support - US\$	-12,911	-15,269	-9,126	-58,166	-29,966	3,698	-9,611	-3,643	9,286	30,187	-7,190	152,515	-257,752	49,806
Non-operating Income (Grant Support) - US\$	0	23	31	28	-1,417	0	26,571	-27,657	0	14,194	-4,802	154,012	416,122	160,983
Income/(Loss) - including grant support - US\$	-12,912	-15,246	-9,095	-58,139	-31,382	3,699	16,960	-31,300	9,286	44,381	-11,992	306,527	158,370	210,788

Financial Table 2 Cash Flow and A/R Report – October 2018 to September 2019

	Oct 18	Nov 18	Dec 18	Jan 19	Feb 19	Mar 19	Apr 19	May 19	Jun 19	Jul 19	Aug 19	Sep 19	FY2018	FY2019
Cash Flow Report - US\$														
Receipts	568,122	567,676	609,554	495,964	502,977	560,338	571,094	752,602	536,996	616,328	478,101	733,594	6,998,463	6,993,347
Disbursements	400,353	598,191	522,456	685,740	482,306	815,182	469,484	520,832	525,879	716,012	418,765	435,517	7,206,976	6,590,718
Net receipts/Disbursements	167,769	-30,515	87,098	-189,776	20,671	-254,844	101,610	231,770	11,117	-99,683	59,336	298,077	-208,513	402,629
Cash balance (beginning)	1,128,509	1,296,278	1,265,763	1,352,861	1,163,085	1,183,756	928,912	1,030,522	1,262,292	1,273,409	1,173,725	1,233,061	1,287,966	1,128,509
Cash balance (end)	1,296,278	1,265,763	1,352,861	1,163,085	1,183,756	928,912	1,030,522	1,262,292	1,273,409	1,173,725	1,233,061	1,531,138	1,096,437	1,262,292
Other Financial Data - US\$														
Cash in Hand	1,694	1,694	1,694	1,694	1,694	1,694	1,694	1,694	1,694	1,694	1,694	1,694	1,694	1,694
Cash in Banks (Bank Overdraft)	1,294,584	1,264,069	1,351,167	1,161,391	1,182,062	927,218	1,028,828	1,260,598	1,271,715	1,172,031	1,231,367	1,529,444	1,126,815	1,260,598
Stocks	1,174,400	1,304,315	1,336,202	1,365,090	1,166,243	1,044,682	1,095,392	1,085,816	1,203,022	1,230,406	1,283,714	1,195,812	1,150,298	1,085,816
Trade Receivable	540,583	604,738	582,092	638,014	674,256	665,151	751,264	661,176	740,830	770,425	847,090	698,514	557,173	661,176
Prepaid Lease	292,861	290,830	288,798	286,766	284,735	282,703	280,671	278,640	276,608	274,576	272,545	269,879	294,893	278,640
Collateral with Vital Inc.	647,590	649,881	649,881	649,881	649,881	649,881	649,881	649,881	649,881	649,881	649,881	649,881	634,300	649,881
Current Payables (Fuel, Taxes, Payable to Fed Gov't, etc.)	937,409	977,121	905,956	939,856	915,763	948,973	1,005,347	985,819	907,996	838,841	974,661	921,301	828,618	985,819
Loans Payable	4,093,785	4,089,687	4,085,588	3,933,976	3,936,453	3,936,453	3,927,640	3,927,640	3,940,136	3,777,534	3,773,435	3,855,776	4,097,884	3,927,640
Total Accounts Receivable (to date) - US\$														
Government Power	338,492	391,246	382,595	385,375	393,099	356,369	408,056	366,946	402,465	425,435	484,014	256,352	256,352	366,946
Commercial Power	-13,692	-10,461	-39,122	0	86,794	105,986	108,470	79,490	113,226	95,490	85,852	201,305	201,305	79,490
Residential Power	149,639	155,574	159,235	161,590	131,111	133,425	137,780	140,179	143,299	150,849	153,848	113,464	113,464	140,179
Water	91,005	79,986	77,789	77,608	160,233	151,706	163,463	150,682	139,937	141,361	149,569	265,746	265,746	150,682
Sewer	250,703	263,958	277,158	289,004	178,583	193,229	209,061	199,443	217,467	232,854	249,370	137,211	137,211	199,443
Allowance for Doubtful	-275,564	-275,564	-275,564	-275,564	-275,564	-275,564	-275,564	-275,564	-275,564	-275,564	-275,564	-275,564	-275,564	-275,564
Total	540,583	604,738	582,092	638,014	674,256	665,151	751,264	661,176	740,830	770,425	847,090	698,514	698,514	661,176

Financial Table 3 Power Sales Report – October 2018 to September 2019

	Oct 18	Nov 18	Dec 18	Jan 19	Feb 19	Mar 19	Apr 19	May 19	Jun 19	Jul 19	Aug 19	Sep 19	FY2018	FY2019
Power Sales Report														
Power Sales US\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
Government - Post Paid	78,982	73,888	69,157	87,369	73,785	78,489	89,656	89,941	86,253	78,496	76,883	81,013	857,283	963,911
Government - Pre Paid (Cash Power)	46,381	34,127	50,728	33,519	34,643	29,986	42,001	40,141	39,592	26,309	35,142	45,122	504,164	457,692
Government Streetlights	3,083	2,940	3,083	3,083	3,083	3,083	2,940	3,038	2,941	3,038	3,038	2,940	30,496	36,293
Solar	3,998	3,998	3,998	3,998	3,998	3,998	3,998	3,998	3,998	3,998	3,998	3,998	46,311	47,979
Government Scratchcard	0	0	0	0	0	0	0	0	0	0	0	0	584	0
Government Total	132,444	114,954	126,966	127,969	115,510	115,556	138,596	137,118	132,784	111,841	119,062	133,074	1,438,838	1,505,875
Commercial - Post Paid	250,934	268,716	223,874	265,051	211,671	239,394	255,743	258,844	240,595	267,872	240,669	230,215	2,751,357	2,953,579
Commercial - Pre Paid (Cashpower)	94,573	92,193	96,160	88,719	70,336	90,016	90,529	94,978	90,697	93,796	99,586	78,824	992,414	1,080,406
Commercial - Scratchcard	0	0	0	0	0	0	0	0	0	0	0	0	8,095	0
Commercial Total	345,507	360,909	320,034	353,770	282,008	329,410	346,272	353,822	331,292	361,668	340,255	309,039	3,751,866	4,033,986
Residential - Post Paid	4,820	8,569	7,568	6,237	6,070	7,327	7,085	5,880	4,501	3,973	5,380	6,211	69,808	73,621
Residential - Pre Paid (Cashpower)	151,808	146,347	155,168	132,124	114,831	136,588	137,594	156,856	141,797	155,624	149,087	145,643	1,453,847	1,723,466
Residential Scratch Card Sales	13,863	13,495	20,857	11,435	17,956	13,746	15,623	16,637	15,382	16,674	15,302	17,543	124,156	188,513
Residential Total	170,490	168,410	183,593	149,796	138,857	157,661	160,302	179,373	161,680	176,271	169,769	169,397	1,647,811	1,985,600
Trade Power Sales Total	648,441	644,273	630,593	631,536	536,375	602,627	645,170	670,313	625,756	649,780	629,087	611,510	6,838,516	7,525,461
Intercompany - CPUC Office	1,461	1,294	1,503	1,131	1,188	1,417	1,417	1,520	1,434	1,443	1,730	1,428	14,914	16,965
Intercompany - CPUC Power Operation	3,060	2,733	2,639	3,034	3,101	3,461	3,517	3,252	3,324	3,633	3,163	3,090	38,604	38,006
Intercompany - CPUC Water Operations	5,910	6,332	6,363	5,834	4,371	5,075	6,720	5,641	5,412	5,477	5,885	6,105	62,774	69,124
Intercompany - CPUC Sewer Operations	9,420	7,684	6,220	6,677	5,508	7,131	6,346	5,329	6,293	6,490	8,495	9,346	88,568	84,938
Cash Power UnEarned	-2,371	-10,945	12,262	-15,070	8,515	6,464	-7,116	1,248	1,182	2,070	-1,101	-8,550	9,455	-13,411
Tariff Overcharge Adjustment	-48,545	-59,218	-57,929	-61,149	-52,185	-58,173	-61,397	-63,319	-58,977	-61,621	-60,285	-59,530		-702,328
Total Power Sales - US\$	617,375	592,153	601,920	571,992	506,873	568,002	594,657	623,984	584,423	607,271	586,974	563,399	7,052,831	7,018,756
Power Sales kWh	kWh	kWh	kWh	kWh	kWh	kWh	kWh	kWh	kWh	kWh	kWh	kWh	kWh	kWh
Government - Post Paid	128,300	122,835	114,868	143,735	125,383	132,491	149,022	152,036	154,814	140,930	139,618	151,356	1,531,838	1,655,387
Government - Pre Paid (Cash Power)	82,440	58,207	88,223	61,133	64,309	54,779	75,583	71,680	70,486	47,515	63,919	82,025	975,797	820,299
Government - Street Lights	10,377	10,377	10,377	10,377	10,377	10,377	10,377	10,377	10,377	10,377	10,377	10,377	122,514	124,524
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	0	1,160	0
Government Total	221,117	191,419	213,467	215,245	200,069	197,647	234,982	234,094	235,676	198,822	213,914	243,758	2,631,309	2,600,210
Commercial - Post Paid	470,232	494,277	407,901	519,204	419,500	463,469	488,861	487,611	442,981	493,900	448,454	445,765	5,684,451	5,582,156
Commercial - Pre Paid (Cashpower)	174,360	162,798	173,260	167,933	135,601	170,678	168,992	175,885	167,430	175,747	187,969	148,697	1,995,954	2,009,351
Commercial Scratchcard	0	0	0	0	0	0	0	0	0	0	0	0	16,680	0
Commercial Total	644,592	657,075	581,161	687,137	555,101	634,148	657,853	663,496	610,411	669,647	636,423	594,462	7,697,085	7,591,507
Residential - Post Paid	9,408	16,193	14,025	12,874	12,412	14,671	13,976	11,492	8,802	7,774	10,643	12,675	149,898	144,944
Residential - Pre Paid (Cashpower)	296,326	272,933	295,614	265,203	235,021	274,659	272,140	307,620	277,165	309,023	298,353	291,286	3,109,297	3,395,343
Residential Scratch Card Sales	24,966	31,292	39,434	26,220	28,717	27,348	32,598	32,434	32,142	30,657	30,460	32,839	264,699	369,106
Residential Total	330,700	320,418	349,072	304,297	276,150	316,678	318,714	351,546	318,109	347,454	339,456	336,800	3,523,893	3,909,393
Trade Power Sales Total	1,196,409	1,168,912	1,143,700	1,206,680	1,031,320	1,148,473	1,211,548	1,249,136	1,164,196	1,215,922	1,189,793	1,175,020	13,852,288	14,101,110
Intercompany - CPUC Office	5,797	5,135	5,963	4,488	4,714	5,624	5,624	6,031	5,689	5,727	6,864	5,665	58,756	67,321
Intercompany - CPUC Power Operation	12,142	10,845	10,472	12,039	12,305	13,735	13,955	12,906	13,189	14,415	12,553	12,263	153,619	150,819
Intercompany - CPUC Water Operations	23,451	25,126	25,250	23,152	17,345	20,139	26,666	22,385	21,476	21,733	23,354	24,226	272,124	274,303
Intercompany - CPUC Sewer Operations	37,380	30,492	24,681	26,495	21,857	28,296	25,183	21,147	24,973	25,754	33,711	37,087	351,460	337,056
Cash Power Unearned (accrued)	-1,558	-17,254	20,020	-33,182	14,290	14,106	-11,940	3,183	2,497	0	-2,787	-16,195	35,099	-28,820
Total Power Sales - kWh	1,273,621	1,223,256	1,230,086	1,239,672	1,101,831	1,230,373	1,271,036	1,314,788	1,232,020	1,283,551	1,263,488	1,238,066	14,723,346	14,901,789

Financial Table 4 Water Sales Report – October 2018 to September 2019

	Oct 18	Nov 18	Dec 18	Jan 19	Feb 19	Mar 19	Mar 20	May 19	Jun 19	Jul 19	Aug 19	Sep 19	FY2018	FY2019
Water/Sewer Sales Report														
Water Sales US\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
Government	5,708	4,836	6,313	4,945	6,628	5,740	10,312	8,252	11,075	10,159	12,735	10,722	64,292	97,425
Commercial	9,379	10,650	11,402	6,239	8,195	12,287	10,538	11,067	13,812	12,413	10,018	10,925	107,226	126,928
Residential	9,409	7,761	10,902	7,050	3,634	10,933	10,022	8,799	11,163	11,034	11,055	11,104	105,891	112,866
Provision for Billing Errors	0	0	0	0	0	0	0	0	0	0	0	0	-3,693	0
Total	24,496	23,247	28,617	18,234	18,457	28,961	30,872	28,118	36,051	33,606	33,808	32,751	273,716	337,219
Sewer Sales - US\$														
Government	2,739	2,295	3,015	2,341	3,193	2,621	4,903	3,888	5,212	4,737	6,085	5,082	30,340	46,111
Commercial	6,753	8,223	7,211	6,981	7,093	9,172	8,109	8,109	9,972	9,335	8,176	7,065	45,250	96,201
Commercial with No Water	0	0	0	0	0	0	0	0	0	0	0	0	44,261	0
Residential	2,712	2,756	2,975	2,523	2,340	2,853	2,820	2,638	2,840	1,316	2,255	1,663	7,167	29,690
Residential with No Water	0	0	0	0	0	0	0	0	0	0	0	0	21,372	0
Provision for Billing Errors	0	0	0	0	0	0	0	0	0	0	0	0	-3,057	0
Sewer Sales	12,204	13,274	13,201	11,845	12,625	14,646	15,832	14,636	18,024	15,388	16,516	13,810	145,333	172,002
Total Water & Sewer Sales	36,700	36,522	41,818	30,079	31,082	43,607	46,703	42,754	54,075	48,994	50,324	46,562	419,049	509,221
Water Sales - Gallons														
Government	1,163,478	989,349	1,289,270	1,017,996	1,581,229	1,171,324	2,082,353	1,676,591	2,820,480	2,062,463	2,573,732	2,168,805	13,253,730	20,597,070
Commercial	1,959,674	2,220,194	2,354,520	1,741,160	1,475,740	2,527,990	2,172,440	2,290,800	2,240,915	2,541,618	2,071,859	1,991,420	22,148,259	25,588,330
Residential	3,533,710	3,227,530	4,021,600	2,627,420	2,720,160	4,090,082	3,757,416	3,337,700	4,136,772	4,067,450	4,190,115	4,126,504	39,930,226	43,836,459
Water Delivery & Bunkering	0	0	0	0	0	0	0	0	0	0	0	0	49,325	0
Total	6,656,862	6,437,073	7,665,390	5,386,576	5,777,129	7,789,396	8,012,209	7,305,091	9,198,167	8,671,531	8,835,706	8,286,729	75,381,540	90,021,859

Financial Table 5 Key Performance Indicators – October 2018 to September 2019

	Oct 18	Nov 18	Dec 18	Jan 19	Feb 19	Mar 19	Apr 19	May 19	Jun 19	Jul 19	Aug 19	Sep 19	FY2019
1a. Non Revenue Power	16.2%	15.5%	15.3%	12.7%	14.6%	13.8%	11.9%	14.0%	12.9%	12.0%	12.0%	13.6%	13.7%
Total Power Generated - kWh	1,519,270	1,447,320	1,451,890	1,419,536	1,290,507	1,426,566	1,442,047	1,529,633	1,414,079	1,458,882	1,435,835	1,432,266	17,267,831
Total Power Billed - kWh	1,273,621	1,223,256	1,230,086	1,239,672	1,101,831	1,230,373	1,271,036	1,314,788	1,232,020	1,283,551	1,263,488	1,238,066	14,901,789
Generation Loss (actual from Jun 17)	24,755	22,609	23,184	22,614	23,842	24,392	25,454	25,480	24,504	25,321	24,268	93,801	360,224
Distribution Loss Derived - kWh	182,912	165,272	162,322	121,762	132,571	136,137	109,505	151,124	122,203	113,538	112,183	64,592	1,574,122
Commercial Loss (assumed 2.5%) - kWh	37,982	36,183	36,297	35,488	32,263	35,664	36,051	38,241	35,352	36,472	35,896	35,807	431,696
Total Loss - kWh	245,648	224,064	221,804	179,864	188,675	196,193	171,011	214,846	182,058	175,330	172,348	194,200	2,366,042
Distribution loss %	12.0%	11.4%	11.2%	8.6%	10.3%	9.5%	7.6%	9.9%	8.6%	7.8%	7.8%	4.5%	9.1%
1b. Non Revenue Water	71.5%	74.9%	68.1%	76.1%	64.9%	60.6%	58.0%	55.0%	48.7%	52.9%	56.4%	62.9%	63.4%
Water Produced (million gallons)	23.32	25.65	24.06	22.50	16.48	19.79	19.07	16.25	17.93	18.41	20.28	22.32	246
Water Billed (million gallons)	6.66	6.44	7.67	5.39	5.78	7.79	8.01	7.31	9.20	8.67	8.84	8.29	90
2. Current ratio	3.90	3.91	4.33	4.06	4.01	3.47	3.51	3.71	4.26	4.56	4.12	4.42	4.42
	3.69	3.70	4.13	3.86	3.77	3.22	3.24	3.46	3.98	4.29	3.85	4.18	4.18
	8.69	7.89	7.72	6.64	12.31	9.69	10.56	11.28	12.16	10.33	11.54	11.52	11.52
	7.90	9.40	8.25	8.42	6.85	6.73	8.14	7.89	8.56	7.98	7.67	4.68	4.68
3. ROA (excludes other operating income/grant support)	0.15%	0.19%	0.21%	0.01%	0.09%	0.26%	0.22%	0.25%	0.28%	0.38%	0.22%	0.88%	3.1%
Power Business	0.52%	0.52%	0.55%	0.41%	0.34%	0.59%	0.56%	0.61%	0.56%	0.74%	0.55%	0.36%	6.2%
Water Business	-1.18%	-1.10%	-0.85%	-2.07%	-0.30%	-0.75%	-0.98%	-0.88%	-0.24%	-0.36%	-0.50%	5.25%	-3.1%
Sewer Business	-1.01%	-0.86%	-0.98%	-1.09%	-0.90%	-0.91%	-0.96%	-1.05%	-0.84%	-1.05%	-1.08%	1.69%	-9.2%
4. Operating ratio	0.78	0.76	0.76	0.81	0.76	0.73	0.75	0.76	0.73	0.71	0.75	0.82	0.76
Power Business	0.73	0.72	0.72	0.74	0.73	0.69	0.71	0.72	0.70	0.67	0.71	0.76	0.71
Water Business	1.11	1.06	0.95	1.63	0.75	0.93	1.01	0.97	0.75	0.82	0.83	1.23	0.98
Sewer Business	2.66	2.06	2.44	2.93	2.17	1.98	2.08	2.38	1.66	2.32	2.29	2.79	2.28
5. Days in Accounts Receivable	23.08	26.37	24.90	28.86	34.28	29.79	32.07	27.17	31.86	32.20	36.43	31.30	30.98
Power Business	14.63	17.54	16.04	18.70	24.05	20.86	22.62	18.68	23.14	22.93	26.15	20.38	19.36
Water Business	73.82	70.91	55.35	89.17	184.88	111.12	116.22	113.47	84.88	92.95	100.14	174.56	206.27
Sewer Business	408.19	409.81	427.49	511.16	301.23	279.85	289.84	288.55	263.83	334.37	341.78	213.74	208.80

Power Table 1 Power Operation Indicators – October 2018 to September 2019

	Oct 18	Nov 18	Dec 18	Jan 19	Feb 19	Mar 19	Apr 19	May 19	Jun 19	Jul 19	Aug 19	Sep 19	FY2018	FY2019 YTD
Generation Statistics														
Diesel Generation - kWh	1,496,930	1,421,593	1,428,107	1,392,221	1,263,683	1,400,164	1,414,321	1,501,140	1,388,955	1,433,851	1,413,110	1,356,393	17,122,425	16,910,468
Peak Generation - kW	2,906	2,943	2,829	2,622	2,644	2,752	2,936	2,882	2,893	2,789	2,768	2,890	2,941	2,943
Fuel Consumption - Gallons	100,623	95,533	96,308	93,404	86,913	95,213	97,160	101,610	94,006	96,592	95,451	92,186	1,143,186	1,145,000
Average Fuel Price (\$/Gallon)	3.62	3.63	3.37	3.03	3.00	3.13	3.17	3.27	3.27	3.13	3.15	3.12	3.33	3.88
Load Factor (%)	69%	65%	68%	72%	67%	68%	65%	70%	65%	69%	69%	62%	67%	66%
Capacity Factor (%)	52%	53%	51%	47%	47%	49%	52%	51%	52%	50%	49%	52%	40%	40%
Availability Factor (%)	100%	100%	100%	100%	100%	100%	100%	600%	700%	800%	900%	1000%	100%	100%
Reserve Plant Margin (%)	168%	165%	176%	197%	195%	183%	166%	171%	170%	180%	182%	170%	165%	168%
Solar PV Generation - kWh	22,340	25,727	23,783	27,315	26,824	26,402	27,726	28,493	25,124	25,031	22,725	75,873	318,905	357,363
Solar Generation %	1.5%	1.8%	1.6%	1.9%	2.1%	1.9%	1.9%	1.9%	1.8%	1.7%	1.6%	5.3%	1.8%	2.1%
Peak PV Generation -kW	175	201	186	213	210	206	217	223	196	196	178	593	153	1713
Avoided Fuel - Gallons	1,502	1,729	1,604	1,833	1,845	1,795	1,905	1,929	1,700	1,686	1,535	5,157	21,293	24,197
Avoided Cost of Fuel - US\$	5,439	6,279	5,405	5,543	5,535	5,612	6,044	6,306	5,564	5,278	4,832	16,068	70,922	78,510
Tons of CO2 avoided	15.2	17.5	16.2	18.5	18.6	18.1	19.2	19.5	17.2	17.0	15.5	52.1	215.1	244.4
Labour Productivity (kWh/Emp/d)	1,671	1,587	1,594	1,554	1,410	1,563	1,578	1,675	1,550	1,600	1,577	1,514	1,466	1,448
SFOC (kWh/gal)	14.88	14.88	14.83	14.91	14.54	14.71	14.56	14.77	14.78	14.84	14.80	14.71	14.98	14.77
DG1 - GE 1.8	15.00	15.00	14.93	15.04	15.12	15.31	15.20	15.24	15.02	14.99	14.89	14.82	15.36	15.04
DG2 - GE 1.8	15.15	14.98	14.85	15.29	15.37	15.19	15.21	15.30	15.43	14.97	15.03	15.08	15.01	15.15
DG3 - CAT 1.6	0.00	0.00	0.00	0.00	0.00	11.45	10.12	8.42	4.81	4.81	5.99	6.55	0.00	10.29
DG4 - CAT 1.3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.24	12.45
DG5 - CAT 1.3	13.83	13.72	12.93	13.51	13.05	13.88	13.88	14.33	11.64	11.02	10.54	12.75	14.09	13.28
SLOC (kWh/gal)	5,780	1,932	4,698	5,396	2,344	2,174	1,811	5,342	4,891	1,565	3,758	3,237	3,747	2,917
DG1 - GE 1.8	4,249	1,461	4,304	3,105	4,448	1,242	2,986	3,257	3,538	1,322	3,211	2,263	3,655	2,409
DG2 - GE 1.8	5,987	2,091	4,855	6,150	1,670	4,854	0	0	0	0	0	0	3,211	3,157
DG3 - CAT 1.6	0	0	0	0	0	0	0	0	0	0	0	0	0	1,183
DG4 - CAT 1.3	0	0	0	0	0	0	0	0	0	0	0	0	0	42
DG5 - CAT 1.3	0	0	0	0	0	0	0	0	0	0	0	0	0	1,283
CAT #3 - Retired May 2017	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Forced Outage Factor (%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.04%	0.00%	0.01%	0.0%	0.0%	0.00%	0.00%
Planned Outage Factor (%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.0%	0.0%	0.00%	0.00%
Distribution														
Customers/Employee	25	25	25	25	25	25	25	25	25	25	25	25	25	25
Transformer Utilisation (%)	27.4%	27.7%	26.6%	24.7%	24.9%	25.9%	27.6%	27.1%	27.2%	26.2%	26.0%	27.2%	27.7%	27.4%
Distribution Losses (%)	12.0%	11.4%	11.2%	8.6%	10.3%	9.5%	7.6%	9.9%	8.6%	7.8%	0.0%	0.0%	7.8%	13.8%
SAIDI (hours/consumer)	0.07	0.09	0.00	0.04	0.00	0.00	0.01	0.06	0.00	0.10	0.20	0.13	2.94	0.70
SAIFI	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.024	0.024
Average Cost (\$/kWh)	0.24	0.24	0.22	0.20	0.20	0.21	0.21	0.22	0.22	0.21	0.21	0.20	0.22	0.22

Power Table 2 Power Generation Statistics – October 2018 to September 2019

	Oct 18	Nov 18	Dec 18	Jan 19	Feb 19	Mar 19	Apr 19	May 19	Jun 19	Jul 19	Aug 19	Sep 19	FY2018	FY2019 YTD
Generation - Engine Output (kWh)														
DG1 - GE 1.8	599,140	526,088	667,180	388,078	453,676	523,052	591,227	462,521	470,551	631,714	606,787	497,801	8,772,077	6,417,815
DG2 - GE 1.8	706,479	786,323	723,362	781,079	571,171	621,248	566,575	807,131	786,294	768,085	769,655	755,515	4,466,850	8,642,917
DG3 - CAT 1.6	3,050	0	0	0	116,914	112,399	94,643	48,041	3,059	337	419	5,687	663	384,549
DG4 - CAT 1.3	0	0	0	249	0	0	0	0	0	0	0	0	1,632,075	249
DG5 - CAT 1.3	188,261	109,182	37,565	222,815	121,922	143,465	161,876	183,447	129,051	33,715	36,249	97,390	2,250,760	1,464,938
CAT #3 - Retired May 2017	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diesel Generation Total (kWh)	1,496,930	1,421,593	1,428,107	1,392,221	1,263,683	1,400,164	1,414,321	1,501,140	1,388,955	1,433,851	1,413,110	1,356,393	17,122,425	16,910,468
PP Solar F1	0	0	0	0	0	0	0	0	0	0	0	11,753	0	11,753
High School Solar F1	15,524	19,098	17,034	21,228	20,001	21,369	21,851	21,950	19,498	19,852	17,874	18,982	249,206	234,261
PP Solar F3	0	0	0	0	0	0	0	0	0	0	0	8,289	0	8,289
Airport Roof F4	6,816	6,629	6,749	6,087	6,823	5,033	5,875	6,543	5,626	5,179	4,851	5,835	69,699	72,046
Airport Carpark F4	0	0	0	0	0	0	0	0	0	0	0	15,455	0	15,455
VVWTP F4	0	0	0	0	0	0	0	0	0	0	0	15,559	0	15,559
Solar PV Generation Total (kWh)	22,340	25,727	23,783	27,315	26,824	26,402	27,726	28,493	25,124	25,031	22,725	75,873	318,905	357,363
Total Generation (kWh)	1,519,270	1,447,320	1,451,890	1,419,536	1,290,507	1,426,566	1,442,047	1,529,633	1,414,079	1,458,882	1,435,835	1,432,266	17,441,330	17,267,831
Maximum Demand (kW)	2,906	2,943	2,829	2,622	2,644	2,752	2,936	2,882	2,893	2,789	2,768	2,890	2,941	2,943
Engine Rating kW (at 0.8 PF)														
DG1 - GE 1.8	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800
DG2 - GE 1.8	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800
DG3 - CAT 1.6	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600
DG4 - CAT 1.3	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	1,300
DG5 - CAT 1.3	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	1,300
CAT #3 - Retired May 2017	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	1,200
Station Services (kWh)	12,142	10,845	10,472	12,039	12,305	13,735	13,955	12,906	13,189	14,415	12,553	12,263	153,619	150,819
Running Hours														
DG1 - GE 1.8	545	499	652	391	417	563	408	415	459	620	614	495	7,588	6,078
DG2 - GE 1.8	622	705	680	654	476	512	489	701	710	706	723	690	4,073	7,668
DG3 - CAT 1.6	7	0	0	0	188	179	263	44	3	3	2	7	2	696
DG4 - CAT 1.3	0	0	0	0	0	0	0	0	0	0	0	0	2,064	0
DG5 - CAT 1.3	253	182	56	330	190	229	257	302	219	63	73	163	2,960	2,317
CAT #3 - Retired May 2017	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Hours	1,427	1,386	1,388	1,375	1,271	1,483	1,417	1,462	1,391	1,392	1,412	1,355	16,687	16,759

Power Table 3 Fuel & Lube Oil Statistics – October 2018 to September 2019

	Oct 18	Nov 18	Dec 18	Jan 19	Feb 19	Mar 19	Apr 19	May 19	Jun 19	Jul 19	Aug 19	Sep 19	FY2018	FY2019 YTD
Fuel Consumption (Gallons)														
DG1 - GE 1.8	39,939	35,076	44,685	25,803	30,014	34,166	38,892	30,358	31,330	42,152	40,751	33,581	571,208	426,748
DG2 - GE 1.8	46,617	52,498	48,718	51,088	37,158	40,895	37,254	52,747	50,955	51,311	51,193	50,096	297,646	570,529
DG3 - CAT 1.6	450	0	0	0	10,400	9,813	9,352	5,705	636	70	70	868	51	37,364
DG4 - CAT 1.3	0	0	0	20	0	0	0	0	0	0	0	0	114,582	20
DG5 - CAT 1.3	13,616	7,960	2,905	16,493	9,341	10,339	11,661	12,800	11,086	3,059	3,438	7,641	159,700	110,339
CAT #3 - Retired May 2017	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Fuel Consumption (Gals)	100,623	95,533	96,308	93,404	86,913	95,213	97,160	101,610	94,006	96,592	95,451	92,186	1,143,186	1,145,000
Average Fuel Price (\$/Gallon)	3.62	3.63	3.37	3.03	3.00	3.13	3.17	3.27	3.27	3.13	3.15	3.12	3.33	3.24
Lube Oil Consumption (Gallons)														
DG1 - GE 1.8	0	265	0	0	0	265	0	0	0	265	0	0	1,258	795
DG2 - GE 1.8	0	265	0	0	265	0	265	0	0	265	0	0	823	1,060
DG3 - CAT 1.6	0	0	0	0	0	95	95	0	0	0	0	0	0	190
DG4 - CAT 1.3	0	0	0	0	0	0	0	0	0	0	0	0	25	0
DG5 - CAT 1.3	0	0	0	0	95	0	95	0	0	0	0	0	109	190
CAT #3 - Retired May 2017	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total LO Consumption (Gals)	0	530	0	0	360	360	455	0	0	530	0	0	2,215	2,235
Oil Change Log (75 Gal/Change)														
DG1 - GE 1.8	141	95	155	125	102	156	198	142	133	213	189	220	1,142	1,869
DG2 - GE 1.8	118	111	149	127	77	128	128	130	151	173	187	199	568	1,678
DG3 - CAT 1.6	0	0	0	0	0	0	0	9	0	0	0	0	0	9
DG4 - CAT 1.3	0	0	0	6	0	0	0	0	0	0	0	0	190	6
DG5 - CAT 1.3	0	0	0	0	0	0	0	0	0	0	0	0	455	0
CAT #3 - Retired May 2017	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Oil Change Volume (Gals)	259	206	304	258	179	284	326	281	284	386	376	419	2,355	3,562

Power Table 4 Distribution Feeder Statistics - October 2018 to September 2019

	Oct 18	Nov 18	Dec 18	Jan 19	Feb 19	Mar 19	Apr 19	May 19	Jun 19	Jul 19	Aug 19	Sep 19	2018 YTD	2019 YTD
Feeder 1 Load	393,189	378,169	368,423	363,908	332,213	362,910	370,578	392,382	372,240	369,423	384,699	355,402	4,606,622	4,443,536
Feeder 2 Load	128,796	123,570	125,549	119,343	108,647	120,877	121,341	131,055	115,761	121,066	122,901	119,729	1,455,155	1,458,635
Feeder 3 Load	454,583	435,762	439,710	425,879	378,375	369,016	371,308	451,818	425,513	444,707	428,584	410,423	5,114,975	5,035,678
Feeder 4 Load	356,511	326,282	337,042	327,462	291,736	327,599	327,958	355,720	329,687	323,485	322,614	299,499	4,394,447	3,925,595
Feeder 5 Load	161,436	160,928	157,982	160,330	155,694	221,772	225,408	173,178	146,374	174,880	152,769	153,412	1,588,184	2,044,163
Total Feeder Load (kWh)	1,494,515	1,424,711	1,428,706	1,396,922	1,266,665	1,402,174	1,416,593	1,504,153	1,389,575	1,433,561	1,411,567	1,338,465	17,159,383	16,907,607
													0	0
Feeder 1 Sales	346,801	316,668	343,035	310,536	286,347	309,811	329,490	339,789	324,497	316,825	332,997	336,964	3,961,355	3,893,759
Feeder 2 Sales	95,219	103,615	109,677	92,743	90,199	108,059	102,802	103,369	100,886	95,926	106,867	104,991	1,170,347	1,214,353
Feeder 3 Sales	371,324	362,552	341,229	377,205	333,026	349,196	371,166	383,050	351,041	378,385	352,601	343,851	4,399,688	4,314,626
Feeder 4 Sales	322,152	300,896	299,126	309,193	276,496	301,636	312,730	333,010	312,561	309,279	317,987	298,274	3,766,831	3,693,340
Feeder 5 Sales	129,824	138,109	120,489	141,257	117,478	126,995	139,094	138,207	132,854	165,865	136,441	136,997	1,260,670	1,623,610
Total Feeder Sales (kWh)	1,265,320	1,221,840	1,213,555	1,230,934	1,103,546	1,195,698	1,255,282	1,297,424	1,221,840	1,266,279	1,246,893	1,221,077	14,558,891	14,739,689
Feeder 1 Loss - kWh	46,388	61,501	25,388	53,372	45,866	53,099	41,088	52,593	47,743	52,598	51,702	18,438	645,267	549,777
Feeder 2 Loss - kWh	33,577	19,955	15,872	26,600	18,448	12,818	18,539	27,686	14,875	25,140	16,034	14,738	284,808	244,282
Feeder 3 Loss - kWh	83,259	73,210	98,481	48,674	45,349	19,820	142	68,768	74,472	66,322	75,983	66,572	715,287	721,052
Feeder 4 Loss - kWh	34,359	25,386	37,916	18,269	15,240	25,963	15,228	22,710	17,126	14,206	4,627	1,225	627,616	232,255
Feeder 5 Loss - kWh	31,612	22,819	37,493	19,073	38,216	94,777	86,314	34,971	13,520	9,015	16,328	16,415	327,514	420,553
Total Feeder Loss - kWh	229,195	202,871	215,151	165,988	163,119	206,476	161,311	206,729	167,735	167,282	164,674	117,388	2,600,492	2,167,918
Feeder 1 Loss - %	11.8%	16.3%	6.9%	14.7%	13.8%	14.6%	11.1%	13.4%	12.8%	14.2%	13.4%	5.2%	14.0%	12.4%
Feeder 2 Loss - %	26.1%	16.1%	12.6%	22.3%	17.0%	10.6%	15.3%	21.1%	12.8%	20.8%	13.0%	12.3%	19.6%	16.7%
Feeder 3 Loss - %	18.3%	16.8%	22.4%	11.4%	12.0%	5.4%	0.0%	15.2%	17.5%	14.9%	17.7%	16.2%	14.0%	14.3%
Feeder 4 Loss - %	9.6%	7.8%	11.2%	5.6%	5.2%	7.9%	4.6%	6.4%	5.2%	4.4%	1.4%	0.4%	14.3%	5.9%
Feeder 5 Loss - %	19.6%	14.2%	23.7%	11.9%	24.5%	42.7%	38.3%	20.2%	9.2%	5.2%	10.7%	10.7%	20.6%	20.6%
Total Feeder Loss - %	15.3%	14.2%	15.1%	11.9%	12.9%	14.7%	11.4%	13.7%	12.1%	11.7%	11.7%	8.8%	15.2%	12.8%

Power Table 5 Customer Energy Use By Category and By Feeder - September 2019

Feeder	kWh/Connection		
	Residential	Commercial	Government
F01	269	1,287	7,814
F02	186	1,905	3,168
F03	239	2,080	2,123
F04	197	3,348	2,771
F05	157	3,016	1,052
Total	210	2,327	3,386

Power Table 6 Power Distribution Statistics – October 2018 to September 2019

	Oct 18	Nov 18	Dec 18	Jan 19	Feb 19	Mar 19	Apr 19	May 19	Jun 19	Jul 19	Aug 19	Sep 19	2018 YTD	2019 YTD
Number of Outages (Frequency)														
Forced - Generation	0	0	0	0	0	0	0	1	0	1	0	0	5	2
Planned - Generation	0	0	0	0	0	0	2	0	0	0	0	0	0	2
Total Number of Outages (Gen)	0	0	0	0	0	0	2	1	0	1	0	0	5	4
Forced - Distribution	4	2	0	1	0	0	0	5	0	6	0	3	29	21
Feeder 1	0	0	0	0	0	0	0	1	0	1	0	0	5	2
Feeder 2	0	0	0	1	0	0	0	1	0	2	0	0	6	4
Feeder 3	0	0	0	0	0	0	0	1	0	1	0	3	5	5
Feeder 4	1	1	0	0	0	0	0	1	0	1	0	0	6	4
Feeder 5	3	1	0	0	0	0	0	1	0	1	0	0	7	6
Planned - Distribution	0	0	0	0	0	0	10	0	0	0	3	5	10	18
Feeder 1	0	0	0	0	0	0	2	0	0	0	1	1	2	4
Feeder 2	0	0	0	0	0	0	2	0	0	0	0	1	6	3
Feeder 3	0	0	0	0	0	0	2	0	0	0	1	1	0	4
Feeder 4	0	0	0	0	0	0	2	0	0	0	0	1	2	3
Feeder 5	0	0	0	0	0	0	2	0	0	0	1	1	0	4
Total Number of Outages (Dist)	4	2	0	1	0	0	10	5	0	6	3	8	39	39

Power Table 7 Power Outage Statistics – October 2018 to September 2019

	Oct 18	Nov 18	Dec 18	Jan 19	Feb 19	Mar 19	Apr 19	May 19	Jun 19	Jul 19	Aug 19	Sep 19	2018 YTD	2019 YTD
Duration of Outages (Hrs)														
Forced - Generation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.1	0.0	0.0	0.3	0.4
Planned - Generation	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Total Duration Gen Outage (Hrs)	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.0	0.1	0.0	0.0	0.3	0.4
Forced - Distribution	2.0	2.5	0.0	1.1	0.0	0.0	0.0	1.6	0.0	2.7	0.0	3.2	40.3	13.0
Feeder 1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.1	0.0	0.0	0.5	0.4
Feeder 2	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.3	0.0	2.4	0.0	0.0	7.9	3.8
Feeder 3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.1	0.0	3.2	1.0	3.6
Feeder 4	0.1	0.3	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.1	0.0	0.0	1.6	0.8
Feeder 5	1.9	2.2	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.1	0.0	0.0	29.3	4.5
Planned - Distribution	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	5.3	0.4	39.8	6.0
Feeder 1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	1.7	0.1	9.1	1.8
Feeder 2	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	27.4	0.1
Feeder 3	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	1.8	0.1	0.0	1.9
Feeder 4	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	3.3	0.1
Feeder 5	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	1.9	0.1	0.0	2.0
Total Duration Dist Outage (Hrs)	2.0	2.5	0.0	1.1	0.0	0.0	0.3	1.6	0.0	2.7	5.3	3.6	80.1	19.0

Water Table 1 Water Production & Sales Data Statistics – October 2018 to September 2019

COMPANY WIDE DATA	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	FY2019
Water Production (Gallons)													
WTP Production	1,727,500	2,053,700	1,900,500	824,300	0	13,300	800	8,500	365,400	422,700	800	72,800	7,390,300
Pink Apartment Volume start of Month	518,700	581,400	582,000	582,000	582,000	582,000	582,000	582,000	582,000	582,000	582,000	582,000	6,920,100
Pink Apartment Volume end of Month	581,400	582,000	582,000	582,000	582,000	582,000	582,000	582,000	582,000	582,000	582,000	582,000	6,983,400
Pink Apartment Vol in to Supply/(Storage)	-62,700	-600	0	0	0	0	0	0	0	0	0	0	-63,300
Tankered volume for billing	0	0				113,300	113,400						226,700
Well Production (into supply)	21,656,400	23,599,000	22,162,684	21,498,700	16,480,600	19,887,600	19,183,200	16,238,900	17,152,000	17,991,200	20,278,600	22,245,800	238,374,684
Volume into network	23,321,200	25,652,100	24,063,184	22,323,000	16,480,600	19,787,600	19,070,600	16,247,400	17,517,400	18,413,900	20,279,400	22,318,600	245,474,984
Water Volume (Billed)													
Commercial	1,667,764	2,141,584	1,759,840	1,535,470	1,619,430	2,538,480	2,025,220	2,081,700	2,796,980	2,648,668	2,196,369	2,393,810	25,405,316
Government (excludes hospital)	471,488	431,839	626,300	446,046	435,389	874,404	0	620,021	756,715	950,953	1,275,962	1,183,295	8,072,412
Government Hospital	679,500	598,200	643,300	546,400	896,100	242,900	1,197,200	917,200	1,315,500	1,102,200	1,288,200	977,300	10,404,000
Residential	3,838,110	2,986,070	4,364,060	2,846,350	2,531,840	4,100,542	3,932,696	3,565,580	4,328,972	3,969,710	4,075,175	3,992,124	44,531,229
Water Delivery and Bunkering	0	0	0	0	0	0	0	0	0	0	0	0	0
Water Adjustment													0
Total	6,656,862	6,157,693	7,393,500	5,374,266	5,482,759	7,756,326	7,155,116	7,184,501	9,198,167	8,671,531	8,835,706	8,546,529	88,412,957
NRW													
Volume	16,664,338	19,494,407	16,669,684	16,948,734	10,997,841	12,031,274	11,915,484	9,062,899	8,319,233	9,742,369	11,443,694	13,772,071	157,062,027
Percentage	71.5%	76.0%	69.3%	75.9%	66.7%	60.8%	62.5%	55.8%	47.5%	52.9%	56.4%	61.7%	64.0%
Invoiced Water (Value)													
Water Delivery and Bunkering													0
Commercial	\$9,438	\$10,685	\$11,474	\$8,378	\$8,223	\$12,287	\$10,538	\$11,088	\$13,812	\$12,413	\$10,018	\$10,925	129,281
Government (includes hospital)	\$5,708	\$4,836	\$6,314	\$4,945	\$6,628	\$5,740	\$10,312	\$8,252	\$11,075	\$10,159	\$12,736	\$10,722	97,426
Residential	\$9,409	\$8,480	\$11,186	\$7,051	\$7,096	\$10,963	\$10,022	\$8,799	\$11,163	\$11,034	\$11,351	\$11,104	\$117,656
Total	\$24,554	\$24,000	\$28,974	\$20,374	\$21,947	\$28,990	\$30,871	\$28,139	\$36,051	\$33,606	\$34,105	\$32,751	\$344,363
Sewer Charges													
Commercial	\$3,068	\$4,538	\$3,526	\$3,296	\$3,407	\$5,719	\$4,629	\$4,900	\$6,551	\$5,885	\$4,726	\$4,540	\$54,785
Commercial - w/o water	\$3,685	\$3,685	\$3,685	\$3,685	\$2,652	\$2,447	\$2,447	\$2,447	\$2,447	\$2,447	\$2,447	\$2,379	\$34,453
Government	\$2,739	\$2,295	\$3,015	\$2,341	\$3,193	\$2,621	\$4,903	\$3,888	\$5,212	\$4,737	\$6,085	\$5,082	\$46,111
Residential	\$642	\$693	\$1,005	\$533	\$532	\$917	\$864	\$698	\$929	\$891	\$928	\$858	\$9,490
Residential w/o water	\$2,070	\$2,060	\$1,990	\$1,990	\$2,040	\$2,064	\$2,036	\$1,940	\$1,940	\$1,920	\$1,920	\$1,910	\$23,880
Total	\$12,204	\$13,271	\$13,221	\$11,845	\$11,823	\$13,769	\$14,878	\$13,873	\$17,080	\$15,879	\$16,105	\$14,769	\$168,718

Water Table 2 Water/Sewer Connection Data – October 2018 to September 2019

COMPANY WIDE DATA	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	FY2019
Water Connection Data (No. of Connections)	481	481	478	479	479	444	447	468	479	485	478	478	478
Commercial - Billed	76	77	76	76	77	72	73	78	83	81	81	81	81
Commercial - Disconnected	8	8	8	8	0	0	0	0	0	0	0	0	0
Commercial - Meter Pulled	0	0	0	0	0	0	0	0	0	0	0	0	0
Commercial Avg Consumption - Gall/conn/mth	21,944	27,813	23,156	20,204	21,032	35,257	27,743	26,688	33,699	32,700	27,116	29,553	313,646
Government - Billed	18	18	14	18	16	18	19	19	19	21	18	19	19
Government - Disconnected	7	7	7	7	1	1	1	1	1	1	1	1	1
Government - Meter Pulled	0	0	0	0	0	0	0	0	0	0	0	0	0
Government Avg Consumption - Gall/conn/mth	26,194	23,991	44,736	24,780	27,212	48,578	0	32,633	39,827	45,283	70,887	62,279	424,864
Hospital - Billed	1	1	1	1	1	1	1	1	1	1	1	1	1
Hospital - Disconnected	0	0	0	0	0	0	0	0	0	0	0	0	0
Hospital - Meter Pulled	0	0	0	0	0	0	0	0	0	0	0	0	0
Hospital Avg Consumption - Gall/conn/mth	679,500	598,200	643,300	546,400	896,100	242,900	1,197,200	917,200	1,315,500	1,102,200	1,288,200	977,300	10,404,000
Residential - Billed	386	385	387	384	385	353	354	370	376	382	378	377	377
Residential - Disconnected	104	104	104	104	5	4	4	3	3	3	3	3	3
Residential - Meter Pulled	93	93	93	93	4	2	2	2	3	0	1	1	1
Residential Avg Consumption - Gall/conn/mth	9,943	7,756	11,277	7,412	6,576	11,616	11,109	9,637	11,513	10,392	10,781	10,589	118,120
Sewer Connection Data (No. of Connections)	505	508	483	518	501	480	462	491	489	490	487	484	484
Commercial Billed	42	47	39	44	42	40	42	47	46	46	48	47	47
Commercial Billed w/o water	54	54	54	54	54	43	41	43	43	43	43	43	43
Government Billed	17	16	13	17	15	17	18	19	18	20	17	18	18
Residential Billed	193	189	180	206	194	182	181	189	189	190	188	186	186
Residential Billed w/o water	199	202	197	197	196	198	180	193	193	191	191	190	190
STP Inflow (MG/month)	24.8	14.4	12.1	13.0	12.0	12.5	13.0	12.5	13.0	13.0	16.0	17.0	173
SEWER OVERFLOW W/O's													
North Zone	1	2	1	1	1	1	2	1	1	1	1	1	14
South Zone	1	1	1	1	2	1	1	1	1	2	2	1	15
ZONAL STATISTICS													
Total No. of active meters	481	481	478	479	479	444	447	468	479	485	478	478	478
Total No. of disconnected meters	119	119	119	119	6	5	5	4	4	4	4	4	4
Total No. of pulled meters	93	93	93	93	4	2	2	2	3	-	1	1	1
Volume Billed (gallons)													
Zone 1													
Total Production	999,100	1,026,100	1,014,500	1,000,800	651,000	96,000	96,000	96,000	48,000	48,000	48,000	48,000	5,171,500

Water Table 3 Zonal Water Use Statistics – FY2019

ZONAL NRW - September 2019					ZONAL NRW - FY2019 YTD				
Zone	Production	Sales	NRW		Zone	Production	Sales	NRW	
	Gallons	Gallons	Gallons	%		Gallons	Gallons	Gallons	%
1	48,000	29,616	18,384	38%	1	5,171,500	625,073	4,546,427	88%
2	17,987,400	6,130,374	11,857,026	66%	2	191,529,200	62,158,245	129,370,955	68%
3	0	0	0	0%	3	5,078,884	189,540	4,889,344	96%
4	1,157,800	212,890	944,910	82%	4	10,718,100	2,483,740	8,234,360	77%
5	10,000	9,300	700	0%	5	130,000	12,900	117,100	90%
6	2,090,600	1,542,270	548,330	26%	6	25,920,700	18,175,910	7,744,790	30%
7	100,000	92,120	7,880	8%	7	832,000	1,600,800	-768,800	-92%
8	924,800	529,965	394,835	43%	8	6,983,200	3,887,045	3,096,155	44%
Total	22,318,600	8,546,535	13,772,065	61.7%	Total	246,363,584	89,133,253	157,230,331	63.8%

ZONAL WATER CONSUMPTION - September 2019					ZONAL WATER CONSUMPTION - FY2019 YTD				
Zone	Avge Use - Gallons/Connection/Month				Zone	Avge Use -Gallons/Connection			
	Commescial	Govesnment	Hospital	sesidential		Commercial	Government	Hospital	Residential
1	0	0	-	4,935	1	0	0	-	101,110
2	31,620	54,486	-	10,160	2	333,663	446,294	-	104,762
3	0	0	-	0	3	39,000	0	-	0
4	0	0	-	15,206	4	0	0	-	177,410
5	0	0	-	9,300	5	0	0	-	12,900
6	8,785	0	977,300	478	6	107,325	0	10,404,000	173,853
7	0	0	-	13,160	7	0	0	-	228,686
8	0	84,097	-	10,827	8	0	508,899	-	131,259
Total	40,405	138,583	977,300	64,066	Total	313,646	424,864	10,404,000	118,120

Work Order Summary – End September 2019

Work Order Performance September 2019						
Work Order Type	WO at Start of Period	New	Printed	Despatched	Completed	WO at End of Period
INTERNAL MAINTENANCE	3	1	1	0	2	2
INTERNAL POWER	1	1	1	0	0	2
INTERNAL SEWER	0	0	0	0	0	0
INTERNAL WATER	0	0	0	0	0	0
POWER	7	18	18	0	0	25
REVENUE	23	8	10	0	6	25
SEWER	11	13	13	0	14	10
WATER	107	103	107	0	89	121
TOTAL ALL WORK ORDERS	152	144	150		111	185

Work Order Type	WO Outstanding at Start	New WO	Completed as % of Outstanding and New	WO Outstanding At End
INTERNAL MAINTENANCE	2.0%	0.7%	-	1.1%
INTERNAL POWER	0.7%	0.7%	-	1.1%
INTERNAL SEWER	0.0%	0.0%	-	0.0%
INTERNAL WATER	0.0%	0.0%	-	0.0%
POWER	4.6%	12.5%	0.0%	13.5%
REVENUE	15.1%	5.6%	19.4%	13.5%
SEWER	7.2%	9.0%	58.3%	5.4%
WATER	70.4%	71.5%	42.4%	65.4%
TOTAL ALL WORK ORDERS			37.5%	

Administration Table 1 H&S Statistics – September 2019



HEALTH & SAFETY REPORT: FY2019 - September 2019

1. ACCIDENT REPORT

DEPARTMENT	Number of Staff	September 2019						YEAR TO DATE - FY2019					
		Hours Worked	FA	MT	LTC	LTD	FAT	Hours Worked	FA	MT	LTC	LTD	FAT
Power Generation	22	3,700	0	0	0	0	0	34,647	0	0	0	0	0
Maintenance	7	1,021	0	0	0	0	0	11,178	0	0	0	0	0
Power Distribution - Line	22	3,495	0	0	0	0	0	40,513	0	0	0	0	0
Power Distribution - Contractors	0	0	0	0	0	0	0	7,118	0	0	0	0	0
Water & Sewer	26	4,403	0	0	0	0	0	45,439	0	0	0	0	0
Water & Sewer Contractors	0	0	0	0	0	0	0	5,353	0	0	0	0	0
Fin, Admin, Cust Care	19	2,711	0	0	0	0	0	31,562	0	0	0	0	0
Tonoas Contractors	7	1,089	0	0	0	0	0	1,089	0	0	0	0	0
TOTAL	103	16,418	0	0	0	0	0	176,900	0	0	0	0	0

FA - Number of First Aid cases

Total Hours Without Incident: - Whole Company

853,622

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	September 2019		
		Total Hours Sick	Accident Related	Poor Health
Power Generation	22	148	0	148
Maintenance	7	8	0	8
Power Distribution - Line	22	183	0	183
Power Distribution - Contractors	0	0	0	0
Water & Sewer	26	157	0	157
Water & Sewer Contractors	0	0	0	0
Fin, Admin, Cust Care	19	144	0	144
Tonoas Contractors	7	0	0	0
TOTAL	96	640	0	640

Year To Date FY2019		
Total Hours Sick	Accident Related	Poor Health
1,363	0	1,363
204	0	204
1,610	0	1,610
16	0	16
1,382	0	1,382
64	0	64
2,119	0	2,119
0	0	0
6,757	0	6,757

Sick Hours as Percentage of Total Hours Worked	3.9%	0.0%	3.9%
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3.8%	0.0%	3.8%
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DEPARTMENT	Number of Staff	September 2019		
		Sick Hours as Percentage of Total Hours Worked	Accident Related	Poor Health
Power Generation	22	4.0%	0.0%	4.0%
Maintenance	7	0.8%	0.0%	0.8%
Power Distribution - Line	22	5.2%	0.0%	5.2%
Power Distribution - Contractors	0	-	-	-
Water & Sewer	26	0.0%	0.0%	0.0%
Water & Sewer Contractors	0	-	-	-
Fin, Admin, Cust Care	19	5.3%	0.0%	5.3%
Tonoas Contractors	7	0.0%	0.0%	0.0%
TOTAL	96	3.9%	0.0%	3.9%

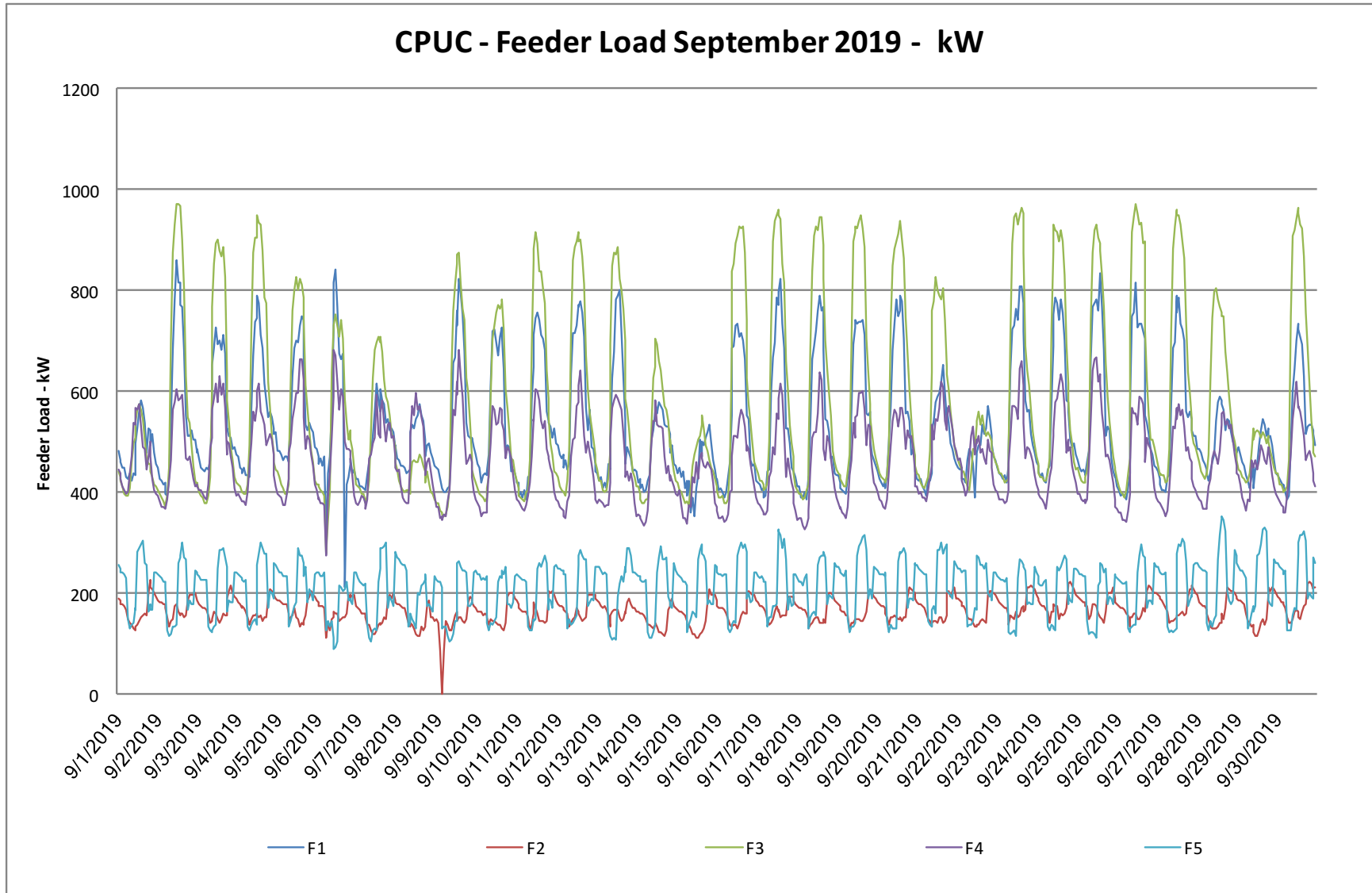
Administration Table 2 Attendance Summary – September 2019 & FY 2019

DEPARTMENT	September 2019								YEAR TO DATE - FY2019							
DEPARTMENT	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 claimed
		Regular	Overtime						Regular	Overtime						
Power Generation	22	3,342	358	0	148	183	4,031	8	31,923	2,724	324	1,363	1,663	37,997	627	3.6%
Maintenance	7	974	47	0	8	54	1,083	0	10,494	684	269	204	440	12,091	19	1.7%
Power Distribution - Line	22	3,202	293	0	183	262	3,940	21	37,663	2,850	1,174	1,610	2,730	46,026	337	3.5%
Power Distribution - Contractors	0	0	0	0	0	0	0	0	7,113	5	0	16	8	7,142	0	0.2%
Water & Sewer	26	4,077	326	0	157	205	4,764	0	40,832	4,607	773	1,382	1,916	49,510	423	2.8%
Water & Sewer Contractors	0	0	0	0	0	0	0	0	5,353	0	165	64	0	5,582	0	1.1%
Fin, Admin, Cust Care	19	2,529	181	0	144	266	3,121	15	29,581	1,982	854	2,119	3,089	37,625	158	5.6%
Tonoas Contractors	7	1,080	9	0	0	0	1,089	0	1,080	9	0	0	0	1,089	0	0.0%
TOTAL EMPLOYEES	103	15,204	1,215	0	640	970	18,028	44	164,038	12,853	3,559	6,757	9,846	195,973	1,565	3.4%
REGULAR STAFF	96	14,124	1,205	0	640	970	16,939	44	150,492	12,847	3,394	6,677	9,838	183,249	1,565	
Hours as % of Total Hours Claimed		83.4%	7.1%	0.0%	3.8%	5.7%		0.3%	82.1%	7.0%	1.9%	3.6%	5.4%		0.9%	
CONTRACT STAFF	0	0	0	0	0	0	0	0	12,466	5	165	80	8	12,724	0	
Hours as % of Total Hours Claimed		-	-	-	-	-	-	-	98.0%	0.0%	1.3%	0.6%	0.1%		0.0%	

CAPEX Table 1 Capex Summary Sheet - September 2019

Chuuk Public Utility Corporation Capex Summary Sheet as of September 30, 2019								
	A	B	C	D (B-C)	E (A-B)	F	(A+A1-F)	G (F-C)
	Total Value	Commitment	Expended	Commitment Balance	Uncommitted	Cash Drawdown	OIA Balance	Cash Balance
FY 2018 Professional management - D18AF00029	266,298	266,298	266,298	0	0	266,298	0	0
FY 2016 Tonoas Water System - D16AF00017-00010	750,000	369,572	369,572	0	380,428	415,000	335,000	45,428
FY 2019 Professional management - D19AF0008	204,400	204,400	124,271	80,129	0	89,268	115,132	-35,003
Total	1,016,298	840,270	760,140	80,129	380,428	770,566	450,132	10,426

Graph Showing Feeder Loads in kW – September 2019



Graph Showing Generation Output in kW - September 2019

