

# CITY OF KEY WEST MONTHLY ENERGY MANAGER REPORT

Prepared By: Johnnie Yongue

Date: March 06, 2020

## Baseline Energy Use for City Occupied Buildings (see attached table):

### Jan 2018 – Feb 2020

Month	MWh	Cost	\$/kWh
Mar 19	539	\$86,273	\$0.16
Apr 19	593	\$92,156	\$0.16
May 19	544	\$90,623	\$0.17
Jun 19	631	\$98,236	\$0.16
Jul 19	645	\$97,625	\$0.15
Aug 19	701	\$104,558	\$0.15
Sept 19	683	\$101,550	\$0.15
Oct 19	674	\$101,075	\$0.15
Nov 19	648	\$98,689	\$0.15
Dec 19	665	\$100,797	\$0.15
Jan 20	590	\$94,637	\$0.16
Feb 20	582	\$91,526	\$0.16

### Jan 2018 – Feb 2019

Month	MWh	Cost	\$/kWh
Mar	504	\$87,386	\$0.17
Apr	564	\$85,778	\$0.15
May	528	\$83,172	\$0.16
Jun	575	\$87,493	\$0.15
Jul	618	\$92,328	\$0.15
Aug	650	\$94,843	\$0.15
Sept	661	\$96,565	\$0.15
Oct	662	\$90,933	\$0.14
Nov	639	\$89,540	\$0.14
Dec	642	\$90,245	\$0.14
Jan	593	\$92,133	\$0.16
Feb	582	\$92,042	\$0.16

### February 2020 Compared to February 2019

582,029-581,882 = 147 kWh increase from last year

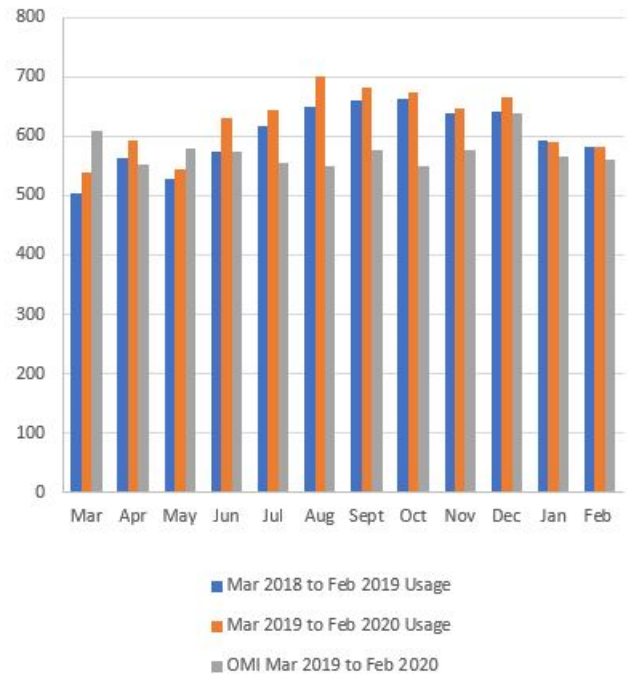
91,526-92,042 = \$516 reduction from last year

### OMI Meter Usage

#### Feb 2019 – Jan 2020

Month	MWh	Cost	\$/kWh
Mar	608	\$71,900	\$0.12
Apr	553	\$66,293	\$0.12
May	579	\$72,421	\$0.13
Jun	575	\$70,363	\$0.12
Jul	554	\$70,452	\$0.13
Aug	549	\$67,476	\$0.12
Sept	576	\$72,685	\$0.13
Oct	551	\$70,930	\$0.13
Nov	578	\$72,955	\$0.13
Dec	639	\$79,736	\$0.12
Jan	567	\$71,052	\$0.13
Feb	582	\$74,023	\$0.13

Monthly Energy Usage 2019



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## City Hall at Glynn Archer

### Monthly Electrical Usage

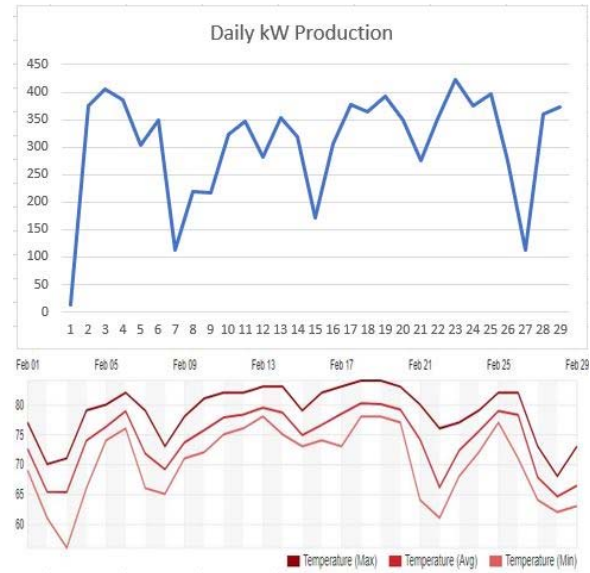
FEB: 42,960 kWh  
 MAR: 43,200 kWh  
 APR: 40,320 kWh  
 MAY: 37,680 kWh  
 JUN: 39,120 kWh  
 JUL: 46,080 kWh  
 AUG: 54,960 kWh  
 SEPT: 54,240 kWh  
 OCT: 48,960 kWh  
 NOV: 49,920 kWh  
 DEC: 51,120 kWh  
 JAN: 46,320 kWh  
 FEB: 47,280 kWh

### Solar Production Dec. 31, 2019 to Jan 30, 2020

Avg Daily output: **225 kWh**  
 Total kWh for December 2019: **6,984 kWh**  
 % of demand: **14.77%**

### Solar Production Jan. 31, 2020 to Feb 28, 2020

Avg Daily output: **307 kWh**  
 Total kWh for December 2019: **8,913 kWh**  
 % of demand: **18.85%**



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FKAA Potable Water Use

Month	Gallons	Cost	Avg \$ / 1,000 gal
Jan 18	6,176,271	\$63,679	\$10.31
Feb 18	1,505,538	\$15,483	\$10.28
Mar 18	7,063,654	\$78,733	\$11.15
Apr 18	5,176,753	\$54,042	\$10.44
May 18	4,645,323	\$47,375	\$10.19
Jun 18	5,560,607	\$57,790	\$10.39
Jul 18	5,857,795	\$61,471	\$10.49
Aug 18	1,878,061	\$25,615	\$13.64
Sept 18	11,520,322	\$74,449	\$6.46
Oct 18	9,190,732	\$97,990	\$10.66
Nov 18	1,730,610	\$19,386	\$11.20
Dec 18	8,883,983	\$96,678	\$10.88
Jan 19	1,677,653	\$19,190	\$11.44
Feb 19	6,212,266	\$68,314	\$11.01
Mar 19	4,084,622	\$46,666	\$11.43
Apr 19	7,851,998	\$86,147	\$10.97
May 19	1,579,744	\$19,435	\$12.31
Jun 19	10,009,520	\$121,898	\$12.18
Jul 19	7,345,184	\$83,960	\$11.43
Aug 19	1,672,489	\$22,094	\$13.21
Sept 19	8,535,301	\$97,327	\$11.40
Oct 19	1,196,744	\$14,833	\$12.39
Nov 19	5,141,280	\$62,863	\$12.23
Dec 19	5,762,341	\$67,697	\$11.75
Jan 20	1,184,581	\$15,332	\$12.95
Feb 20	4,135,549	\$48,797	\$11.80

Quarterly Average

2018

Q1: 4,915,154

Q2: 5,127,561

Q3: 6,418,725

Q4: 6,601,775

2019

Q1: 3,991,514

Q2: 6,480,421

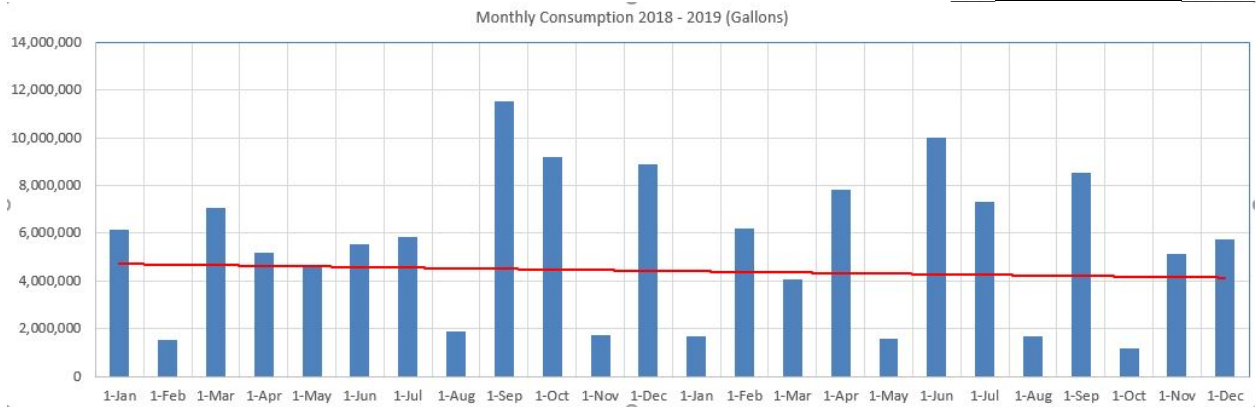
Q3: 5,850,991

Q4: 5,089,095

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## Priorities

1. Reviewing reports of High energy usage on City electric accounts. Performing on site reviews of existing meters and properties where services are growing that are resulting in higher usage.
2. Determined that excessive power demand from the Ashby and Catherine Street pump station was the result of king tides. Peak demand for the month of October on this meter alone was over 120kW.
3. Additional high demands on City accounts so far appear to be the result of aging equipment, ACs, pumps, etc and higher use at Fleet, the Ferry Terminal, Garrison Bight Marina and the Historic Seaport.
4. Continuing to review street lights for redundant or eliminated accounts and recommend removal of failing or redundant street lights.
5. Higher energy production from the City Hall Solar array demonstrates solar activity with respect to the weather and temperature.