

**CITY OF KEY WEST
MONTHLY ENERGY MANAGER REPORT**

Prepared By: Johnnie Yongue

Date: October 02, 2020

Total Energy Use for all City Facilities

Jan -Dec 2019

Month	MWh	Cost	\$/kWh
Jan	593	\$92,133	\$0.16
Feb	582	\$92,042	\$0.16
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 – Sept 2020

Month	MWh	Cost	\$/kWh
Jan	591	\$94,637	\$0.16
Feb	582	\$91,526	\$0.16
Mar	540	\$88,045	\$0.16
Apr	550	\$89,448	\$0.16
May	527	\$86,105	\$0.16
Jun	550	\$80,349	\$0.15
Jul	538	\$77,220	\$0.14
Aug	619	\$88,099	\$0.14
Sept	637	\$93,037	\$0.15

Overall Energy Consumption remains reduced from 2019 but a majority of the reduction due to COVID 19 accommodations has been eliminated

OMI Meter Usage

Mar 2019 – Jun 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
Mar	552	\$67,948	\$0.12
Apr	530	\$65,480	\$0.12
May	505	\$61,636	\$0.12
Jun	480	\$53,240	\$0.11
Jul	492	\$55,860	\$0.11
Aug	547	\$63,300	\$0.12
Sep	597	\$76,849	\$0.13

These accounts include totals of stormwater pumps, lift stations and sewer treatment plants.

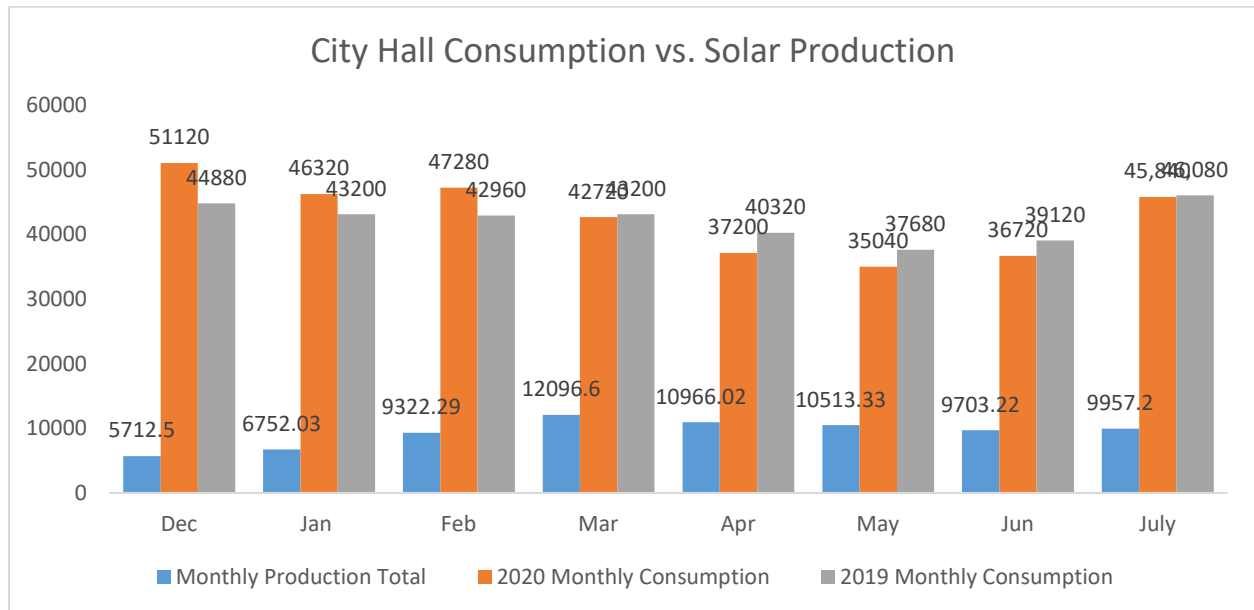
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City Hall at Glynn Archer

Month	kWh Billed	Solar	Total usage	% Energy Consumption
DEC:	51,120	5,712	56,832	10%
JAN:	46,320	6,752	53,072	13%
FEB:	47,280	9,322	56,602	16%
MAR:	42,720	12,096	54,816	22%
APR:	37,200	10,966	48,166	23%
MAY:	35,040	10,513	45,553	23%
JUN:	36,720	9,703	46,423	21%
JUL:	45,840	9,957	55,797	18%



*Solar Production is remaining constant as we go through summer, although City hall usage has spiked as was seen last year this time reducing the solar productivity to 18% from the previous month.

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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
Mar 20	3,957,564	\$46,690	\$11.79
Apr 20	961,958	\$13,214	\$13.74
May 20	7,923,619	\$96,551	\$12.18
Jun 20	7,363,813	\$88,689	\$12.04
Jul 20	1,094,485	\$14,194	\$12.97
Aug 20	7,182,855	\$16,905	\$12.69
Sep 20	4,110,428	\$49,020	\$11.93

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

2020

Q1: 3,092,564

Q2: 5,416,463

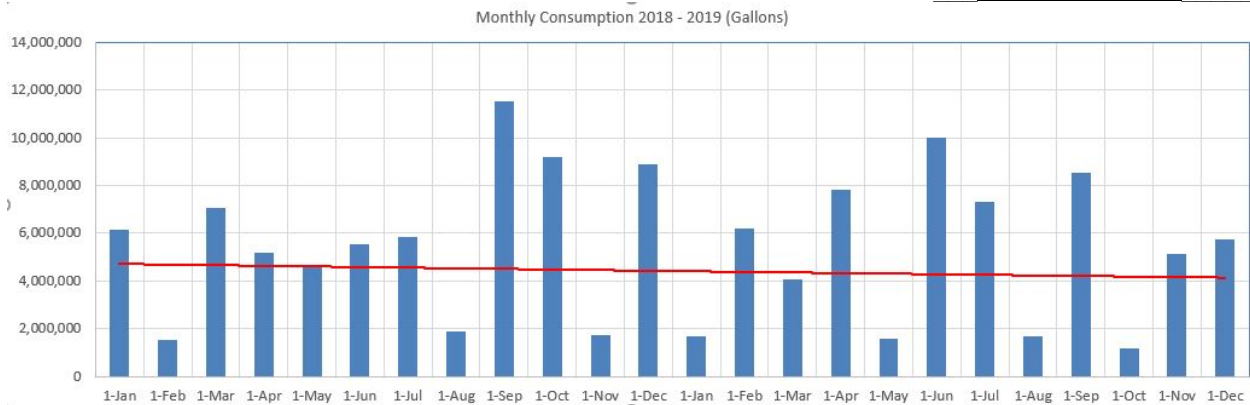
Q3: 4,129,256

There is a 22% reduction between First quarter and a 16% reduction in the second quarter of 2019 and 2020. This reduction can be directly attributed to reduced demand caused by Coronavirus impacts.

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Priorities

1. The Energy Manager has asked for funding for a LED Lighting retrofit in the Police Station at 1600 N Roosevelt which will cost \$8,000 to purchase and can be installed by employees, the energy savings is expected to pay for the retrofit in 27 months.
2. Energy manager has asked for \$1,000 in the 2021 Fiscal Year budget for an Infrared camera to identify leaks, insulation damage, and monitor City buildings and systems.
3. City staff are coordinating a City Hall hardening project that will include upgrades to the Cistern, under City Hall and return service from the Cistern to the employee bathrooms for toilet flushing in the downstairs of Building A as a trial period. If successful, the service from the Cistern can be expanded to include other bathrooms in City Hall.
4. Energy Manager and City Engineer are coordinating with Keys Energy Service(KES) to establish cost, savings, and payment options for an LED Street Light Relamping project. Staff hopes to have new costs and projected savings to recommend to the new budget and KES Contract with the City in FY2021.
5. Energy Manager and Sustainability Coordinator have prepared a DRAFT 10 year Energy Management Plan for the City of Key West. The plan establishes, capital and policy goals for the Fiscal years of 2021 to 2030, with a revisit of the priorities in 2025.