CITY OF KEY WEST MONTHLY ENERGY MANAGER (EM) REPORT

	Prepared By:	T. Justice	
	Date:0	October 31, 2018	
Reporting for August–September, 2018.			
Current vs. Baseline Energy Use for City-oper	rated Facilities (All City meters):	:	
<u>August 1-31, 2018</u>	August 1-31, 2017	<u>August 1-31, 2017</u>	
MWh used: 650	MWh used: 623	MWh used: 623	
Energy cost: \$94,844	Energy cost: \$99,579	Energy cost: \$99,579	
September 1-30, 2018	September 1-30, 2017	September 1-30, 2017	
MWh used: 661	MWh used: 647	MWh used: 647	
Energy cost: \$96,566	Energy cost: \$102,131		
Current vs. Baseline Water Use for City-operative	ated Facilities (All City meters):		
<u>August 1-31, 2018</u>	August 1-31, 2017		
*Gal used: 1.88M	Gal used: 6.19M		
*Water cost: \$25,615	Water cost: \$61,653		
September 1-30, 2018	September 1-30, 2017		
*Gal used: 11.5M	**Gal used: 2.23M		
*Water cost: \$74,450	**Water cost: \$21,651		
* August 2018 billing incomplet	e, added to September 2018 billin	<i>g</i> .	
** September 2017 billing incom	pplete.		

Street Lighting:

• Request has been issued for Keys Energy to replace Smathers Beach/S Roosevelt street lights with FWC-approved amber luminaires that will remain in service year-round.

Priority Assessments:

- City Hall Commissioning (HVAC, Lighting Controls) is completed and functional test report received from commissioning agent.
- Sports Fields dedicated metering.
- Sports field LED trial(s) first case will be Bocce Courts at Indigenous Park. Design completed and cost quotes requested.

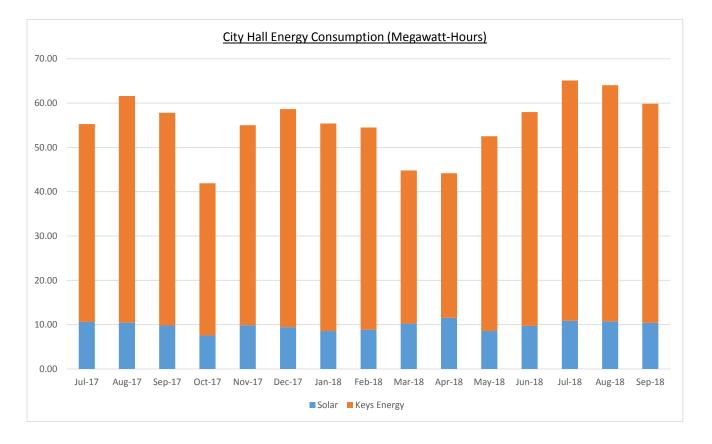
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City Hall at Glynn Archer Electrical (4302373-00):

- August 2018 electric usage (August 6 September 5, 2018):
 - o KEYS: 53,280 kWh 166kW Demand Cost: \$6,201
 - Solar: 10,727 kWh 16.8% of total energy consumption from solar.
- August 2017 electric usage:
 - o KEYS: 51,120 kWh 180kW Demand Cost: \$7,171
 - Solar: 10,470 kWh 17 % of total energy consumption from solar.
- September 2018 electric usage (September 6 October 5, 2018):
 - o KEYS: 49,440 kWh 158kW Demand Cost: \$5,805
 - Solar: 10,416 kWh 17.4% of total energy consumption from solar.
- September 2017 electric usage:

0

- KEYS: 48,000 kWh 180kW Demand Cost: \$6,834
- Solar: 10,208 kWh 18.7% of total energy consumption from solar.



- 12-month rolling energy averages to-date, October 2017 through September 2018:
 - o Solar 9,703 kWh per month -17.8% of total.
 - Utility 44,780 kWh per month 82.2% of total.

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City Hall at Glynn Archer Water (FKAA 500521-021545):

August 2018 water usa	ge:		August 2017 water usage:	
28,255 gal	Cost:	\$298	212,029 gal Cost: \$2,100	
September 2018 water usage:			September 2017 water usage:	
174,019 gal	Cost:	\$1,682	207,607 gal Cost: \$2,040	

4th Quarter Objectives:

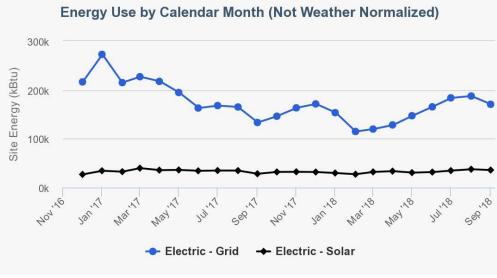
- Energy audit utilizing monitoring equipment at City Hall at Glynn Archer.
- Energy Manager certification. Passed exam.
- Turtle-friendly lights installed S. Roosevelt Blvd. / Smathers Beach. Request issued to KEYS.
- Separate metering for athletic field lighting (due to account reclass and demand billing).
 - Estimated budget \$5,000 (funded in FY2019 budget).
 - o Design & photometrics completed and quotes requested for Bocce Court lighting.
- Minor controls additions to City Hall Lutron lighting control system.
 - Estimated budget \$2,000 (funded in FY2019 budget).
- Install permanent energy monitoring equipment at City Hall at Glynn Archer.
 - o Supplement existing Building Automation System already capable of energy monitoring.
 - Estimated budget \$8,000 (funded in FY2019 budget).
- Obtain quotes for relocating irrigation pump to deeper of two cisterns.

The following two graphics depict that both water and power usage reporting has been brought fully upto-date in **portfoliomanager.energystar.gov**, a commitment made as part of the new facility's LEED submittal. LEED application has been submitted.

Note that:

On August 27, 2018 performance metrics in Portfolio Manager were updated for U.S. buildings to reflect current market data. You may notice a change in your current and historic 1-100 ENERGY STAR score or other metrics.

This update has apparently lowered City Hall's Energy Star score from a qualifying **83** to an ineligible **65**. Further research will be conducted to determine whether this major downgrade is warranted.



KEY WEST CITY HALL – ENERGY

