

**CITY OF KEY WEST
MONTHLY ENERGY MANAGER (EM) REPORT**

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Date: March 13, 2019

Reporting for December, 2018–January, 2019.

Current vs. Baseline Energy Use for City-operated Facilities *(All City electrical meters):*

December 1-31, 2018

MWh used: 643

Energy cost: \$90,245

January 1-31, 2019

MWh used: 593

Energy cost: \$92,134

December 1-31, 2017

MWh used: 639

Energy cost: \$100,188

January 1-31, 2018

MWh used: 552

Energy cost: \$89,004

Current vs. Baseline Water Use for City-operated Facilities *(All City water meters):*

December 1-31, 2018

Gal used: 8.88M

Water cost: \$96,679

January 1-31, 2019

*Gal used: 1.68M

*Water cost: \$19,190

December 1-31, 2017

Gal used: 1.53M

Water cost: \$14,865

January 1-31, 2018

Gal used: 6.18M

Water cost: \$63,680

* *January 2019 billing incomplete, added to February 2019 billing.*

Street Lighting:

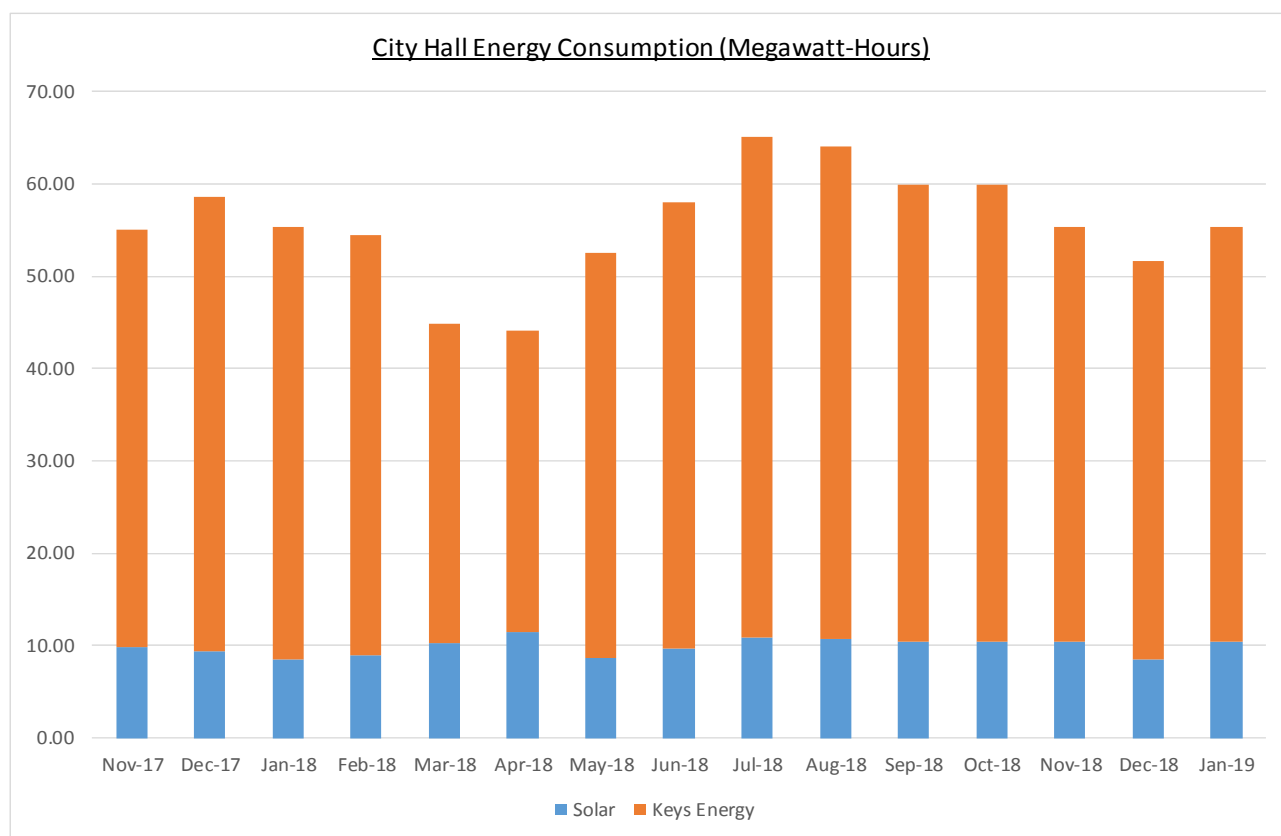
- Field trial approved by City. Keys Energy has ordered replacement Smathers Beach street lights with FWC-approved amber luminaires. These lights will remain in service year-round.

Vehicle Charging Stations:

- Revenue account and automatic billing for use of two vehicle charging station at City Hall has been approved by City Manager and SEMACONNECT has been notified.

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

- December 2018 electric usage (November 6 – December 6, 2018):
 - KEYS: 43,200 kWh 130kW Demand Cost: \$5,509
 - Solar: 8,469 kWh 16.4% of total energy consumption from solar.
- December 2017 electric usage:
 - KEYS: 49,200 kWh 127kW Demand Cost: \$6,506
 - Solar: 9,443 kWh 16% of total energy consumption from solar.
- January 2019 electric usage (December 7, 2018 – January 7, 2019):
 - KEYS: 44,880 kWh 146kW Demand Cost: \$5,298
 - Solar: 8,692 kWh 18.9% of total energy consumption from solar.
- January 2018 electric usage:
 - KEYS: 46,800 kWh 137kW Demand Cost: \$6,501
 - Solar: 8,574 kWh 15.5% of total energy consumption from solar.



- 12-month rolling energy averages to-date, February 2018 through January 2019:
 - Solar 10,060 kWh per month – 18.2% of total.
 - Utility 45,360 kWh per month – 81.8% of total.

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

December 2018 water usage:

67,849 gal Cost: \$672

December 2017 water usage:

212,726 gal Cost: \$2,150

January 2019 water usage:

14,314 gal Cost: \$221

January 2018 water usage:

26,628 gal Cost: \$281

2019 Objectives:

- Turtle-friendly lights installed on S. Roosevelt Blvd. at Smathers Beach. *Installation March '19.*
- Separate metering for athletic field lighting (due to account reclass and demand billing).
 - Estimated budget \$5,000 (funded in FY2019 budget).
- 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.
 - Supplement existing Building Automation System already capable of energy monitoring.
 - Estimated budget \$8,000 (funded in FY2019 budget).
 - Energy audit of City Hall.
- Execute quote for relocating irrigation pump to deeper of two cisterns.

Energy Manager Certification:

Energy Manager wishes to recognize and sincerely thank the Board for their support during this certification endeavor.

