

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

Prepared By: T. Justice

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:**

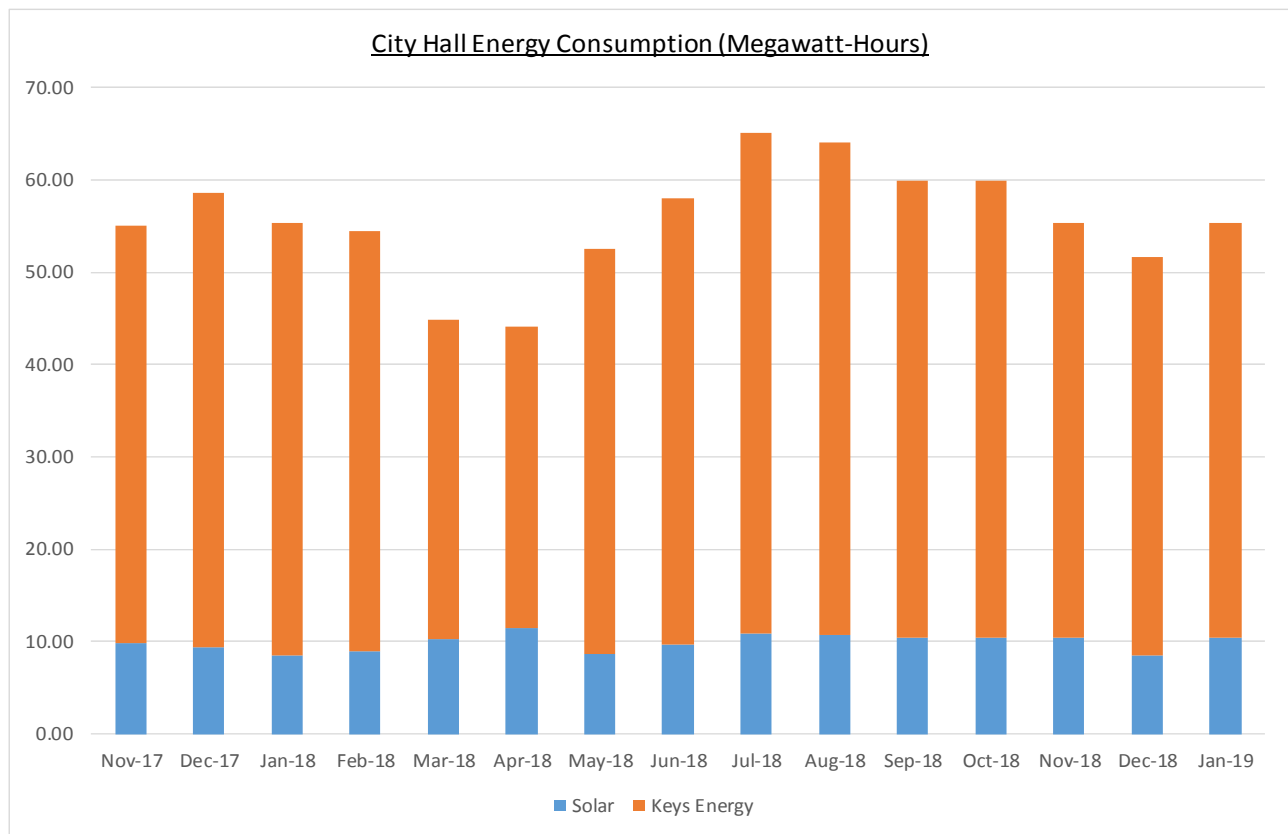
- Field trial approved by City. Keys Energy has ordered replacement Smathers Beach street lights with FWC-approved amber luminaires. These lights will remain in service year-round.

**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.

