

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

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Reporting for October–November, 2018.

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

October 1-31, 2018

MWh used: 663

Energy cost: \$90,933

November 1-30, 2018

MWh used: 639

Energy cost: \$85,540

October 1-31, 2017

MWh used: 639

Energy cost: \$100,188

November 1-30, 2017

MWh used: 414

Energy cost: \$78,168

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

October 1-31, 2018

Gal used: 9.19M

Water cost: \$97,191

November 1-30, 2018

*Gal used: 1.73M

*Water cost: \$19,386

October 1-31, 2017

Gal used: 4.31M

Water cost: \$30,172

November 1-30, 2017

**Gal used: 2.99M

**Water cost: \$29,102

* *November 2018 billing incomplete, added to December 2018 billing.*

** *November 2017 billing incomplete.*

Street Lighting:

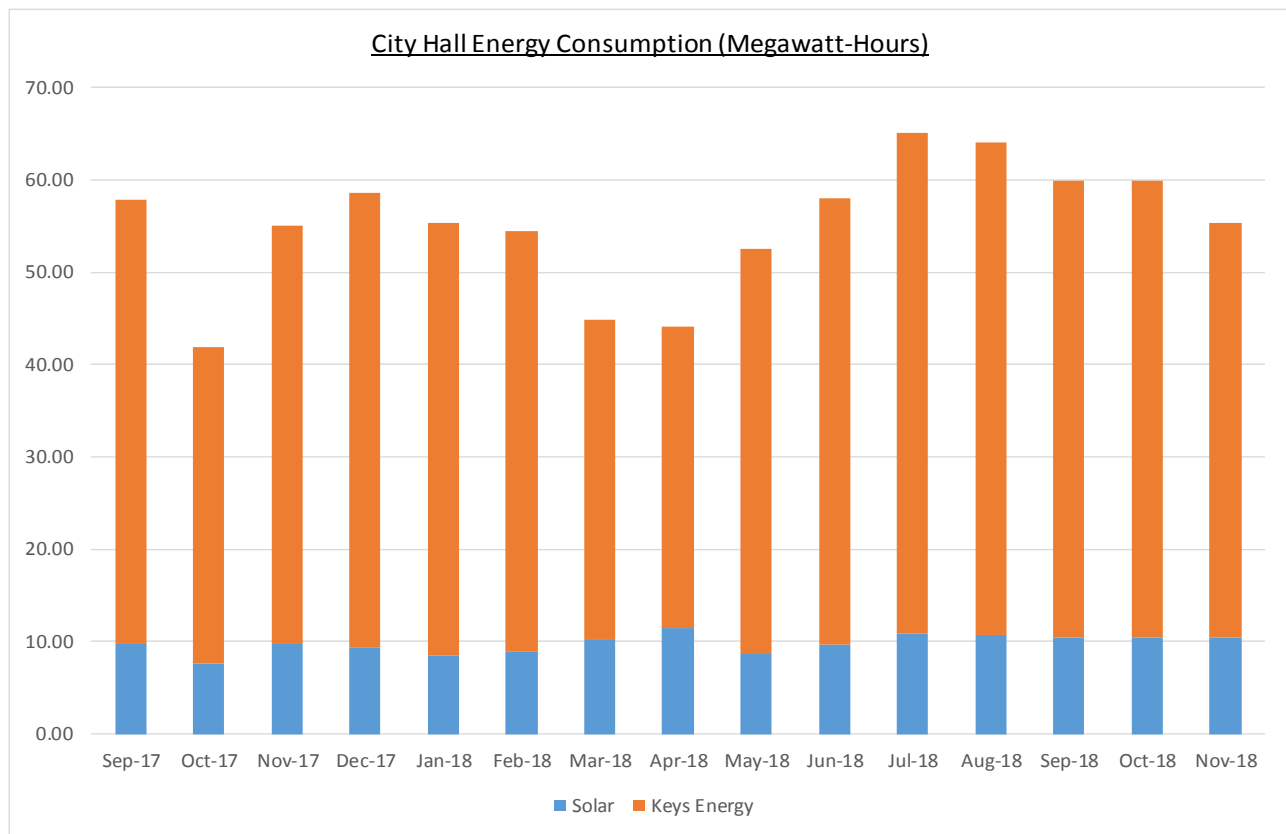
- Field trial approved by City. Keys Energy has ordered replacement Smathers Beach street lights with FWC-approved amber luminaires. These lights will remain in service year-round.

Priority Assessments:

- City Hall Commissioning is fully completed and LEED Platinum certification awarded.
- Sports Fields dedicated metering.
- Sports field LED trial(s) – first case will be Bocce Courts at Indigenous Park. Design completed and cost quotes requested.

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

- October 2018 electric usage (September 6 – October 5, 2018):
 - KEYS: 49,440 kWh 158kW Demand Cost: \$5,805
 - Solar: 10,416 kWh 17.4% of total energy consumption from solar.
- October 2017 electric usage:
 - KEYS: 34,320 kWh 182kW Demand Cost: \$5,379
 - Solar: 8,980 kWh 21% of total energy consumption from solar.
- November 2018 electric usage (October 6 – November 5, 2018):
 - KEYS: 44,880 kWh 146kW Demand Cost: \$5,298
 - Solar: 10,452 kWh 18.9% of total energy consumption from solar.
- November 2017 electric usage:
 - KEYS: 45,120 kWh 158kW Demand Cost: \$6,336
 - Solar: 9,880 kWh 18% of total energy consumption from solar.



- 12-month rolling energy averages to-date, December 2017 through November 2018:
 - Solar 9,988 kWh per month – 17.8% of total.
 - Utility 46,020 kWh per month – 82.2% of total.

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

October 2018 water usage:

148,685 gal Cost: \$1,438

October 2017 water usage:

44,700 gal Cost: \$307

November 2018 water usage:

138,437 gal Cost: \$1,427

September 2017 water usage:

221,539 gal Cost: \$1,646

2019 Objectives:

- Turtle-friendly lights 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).
 - ~~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.
 - 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.