

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

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Reporting for March and April 2018.

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

March 1-31, 2018

MWh used: 504

Energy cost: \$87,386

March 1-31, 2017

MWh used: 603

Energy cost: \$88,478

April 1-30, 2018

MWh used: 564

Energy cost: \$85,779

April 1-30, 2017

MWh used: 615

Energy cost: \$91,082

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

March 1-31, 2018

Gal used: 7.06M

Water cost: \$78,733

March 1-31, 2017

Gal used: 2.75M

Water cost: \$24,520

April 1-30, 2018

Gal used: 5.18M

Water cost: \$54,043

April 1-30, 2017

Gal used: 2.75M

Water cost: \$24,520

Note: Current water usage includes extensive irrigation and dust control associated with Truman Waterfront Park and Amphitheater construction. Seasonally dry conditions and initial establishment of sod and tree plantings are temporarily increasing consumption.

**Street Lighting:**

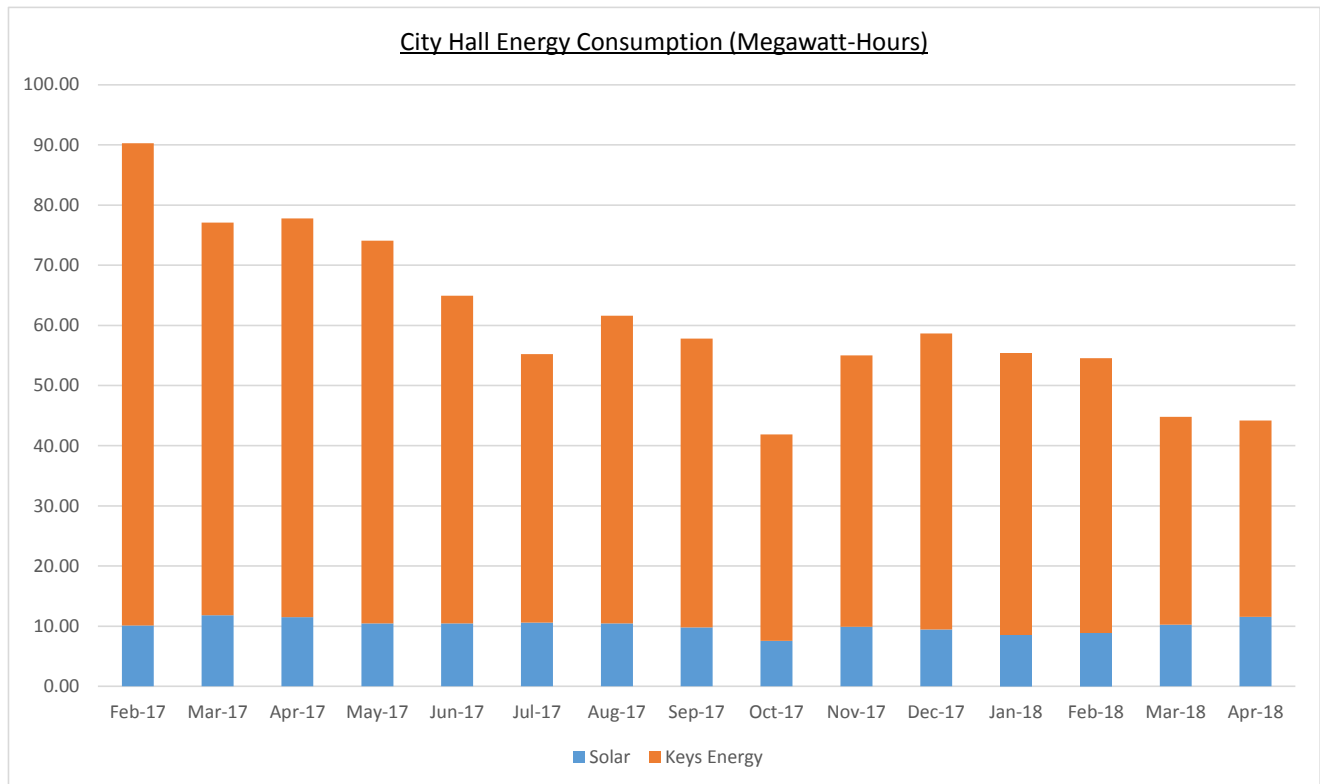
- Working with Keys Energy to transfer billing for South Roosevelt Blvd. lights east of Smathers Beach to FDOT. If FDOT produces documentation indicating City responsibility for lighting, fallback plan will be to install meter(s) and pay only for actual energy consumption.
- Working with Keys Energy to develop a plan for year-round turtle-friendly lighting along South Roosevelt Blvd. in Smathers Beach segment.

**Priority Assessments:**

- City Hall Commissioning (HVAC, Lighting Controls) is continuing. Estimated completion during June 2018.
- Sports Fields dedicated metering.

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

- March 2018 electric usage (February 7 – March 7, 2018):
  - KEYS: 34,560 kWh      138kW Demand      Cost: \$4,545
  - Solar: 10,647 kWh      23.6% of total energy consumption from solar.
- March 2017 electric usage:
  - KEYS: 65,280 kWh      168kW Demand      Cost: \$7,724
  - Solar: 10,253 kWh      13.6% of total energy consumption from solar.
- April 2018 electric usage (March 8 – April 6, 2018):
  - KEYS: 32,640 kWh      125kW Demand      Cost: \$4,319
  - Solar: 11,529 kWh      26.2% of total energy consumption from solar.
- April 2017 electric usage:
  - KEYS: 66,240 kWh      168kW Demand      Cost: \$7,814
  - Solar: 11,515 kWh      14.8% of total energy consumption from solar.



- Energy averages to-date – December 2016 through April 2018:
  - Solar 9,820kWh per month – 15.8% of total.
  - Utility 52,190 kWh per month – 84.2% of total.

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

- March 2018 water usage:
  - 26,628 gal      Cost: \$281
- March 2017 water usage:
  - 212,000 gal      Cost: \$2,100
- April 2018 water usage:
  - 10,460 gal      Cost: \$183
- April 2017 water usage:
  - 301,000 gal      Cost: \$3,116

**Fiscal Year 2018-2019 Priority Objectives:**

- Permanent energy monitoring equipment at City Hall at Glynn Archer.
  - Estimated budget \$8,000
- Separate metering for athletic field lighting (due to account reclass and demand billing).
  - Estimated budget \$5,000 (in-house electrician).
- Field trial retrofit LED sports field lighting.
  - Estimated budget \$60,000.
- Year-round turtle-friendly lighting along Smathers Beach.
  - Estimated budget TBD. (Keys Energy cooperating agency.)
- Modifications to Transit Facility electrical distribution to adequately load emergency generator.
  - Estimated budget \$30,000.
- Minor improvements to City Hall Lutron lighting control system.
  - Estimated budget \$2,000 (in-house electrician).