


Update City of Fort Lauderdale Energy Performance Contracting

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SUSTAINABILITY ACTION PLAN



-  **LEADERSHIP**
-  **AIR QUALITY**
-  **ENERGY** →
-  **WATER**
-  **BUILT & NATURAL ENVIRONMENT**
-  **TRANSPORTATION**
-  **WASTE & RECYCLING**
-  **PROGRESS TRACKING**

**REDUCE
ELECTRICITY
USE**

20%



BY 2020



PRESS PLAY FORT LAUDERDALE

Our City, Our Strategic Plan 2018

03 OBJECTIVE 3:
Provide safe, efficient and well-maintained vehicles, equipment and facilities and integrate sustainability into daily operations

| STRATEGIC INITIATIVES: | LEAD: | PARTNERS: |
|---|-----------------------------|--------------|
| 1. » Continue to use Florida-friendly and drought-tolerant landscaping at all City facilities to conserve water | Parks and Recreation (P&R) | |
| 2. » Reduce fuel consumption and maximize efficiencies in City vehicles and equipment | Public Works (PWD) | All Depts. |
| 3. Conduct water and energy conservation and efficiency audits | PWD | P&R |
| 4. Implement energy management systems to reduce energy consumption and save money | PWD | P&R |
| 5. Integrate energy efficient retro-fits and sustainable design elements in City facilities | PWD | P&R |
| KEY PERFORMANCE INDICATORS: | BASELINE: | 5-YR TARGET: |
| • Percent reduction in greenhouse gas emissions from City operations | 72,700 MT-CO ₂ e | 15% |
| • Percent reduction in electricity use in City owned and operated facilities | 106,011,000 kWh | 15% |
| • Number of Kilowatts (kW) generated by renewable energy | 16Kw | 100kW |
| • Percent of City facilities tracked through EPA's Portfolio Manager | 0% | 100% |
| • Percent of City facilities incorporating energy efficient upgrades | 5% | 15% |



GREENING OUR ROUTINE!



Water-Cooled Servers
Uses less energy



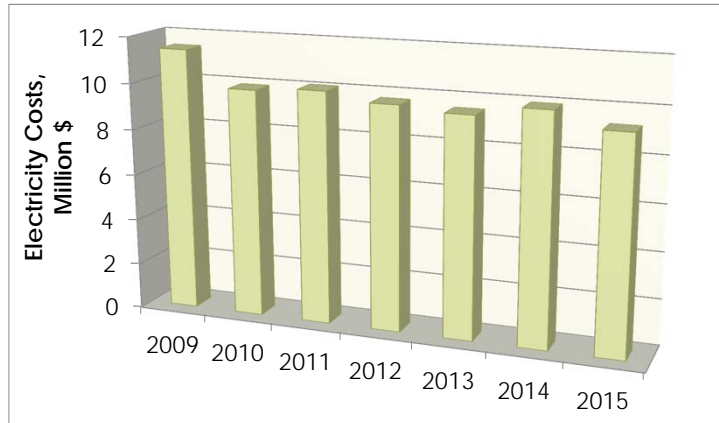
LED Lighting Retrofit
Reduced energy costs



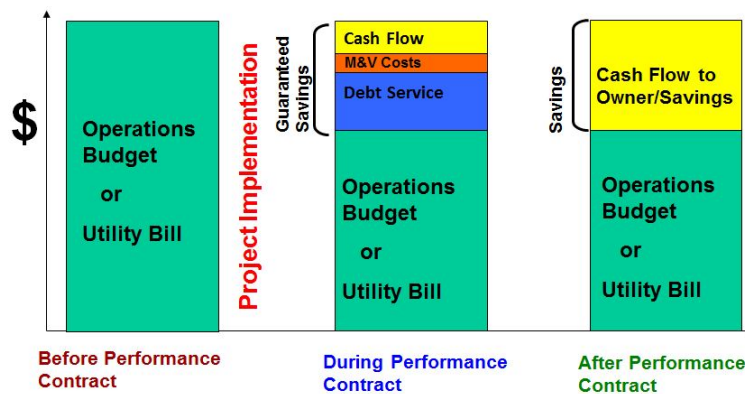
Behavioral Changes
Increase awareness
of energy use



CITY ELECTRICITY EXPENDITURES



Energy Service Company (ESCO) Performance Contracting Model



<http://efc.web.unc.edu/2015/08/13/energy-savings-performance-contracting/>

FORT LAUDERDALE ESCO STEPS

- Feb 2014 – RFQ for Performance Contracting
- July 2014 - Four firms qualified
- Jan 2015 – Facilities Assigned
- Aug 2015 - Two Industrial Audit (IGA) contracts awarded
- Sep 2015 – First IGAs Commence
- Jun 2016 – First audit recommendations finalized
- Aug 2016 - Third audit contract awarded
- Sept 2016 – First Performance Contract to Commission



FACILITIES SELECTED

| ESCO | Facility Name |
|-----------------|--------------------------------------|
| Honeywell | Fleet Fenceline |
| | City Parking Garage |
| | Streetlights |
| | Transportation and Mobility Building |
| BGA / ConEdison | Holiday Park |
| | Mills Pond Park |
| | Carter Park |
| | Osswald Park |
| Siemens | Water Metering System |
| Opterra | GTL Wastewater Treatment Plant |



BENEFITS OF ESCOs

- Financing Tool
- Turnkey Solution
 - Design, Contracting, and Construction
- Guaranteed Performance
- Savings to Exceed Project Cost



THANK YOU

