

Flagler County Opportunity Assessment

April 4, 2016



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Agenda

- Understanding ESG
- Flagler County Objectives

FLAGLER COUNTY

- Evaluated Solutions
- Success Stories
- Process Timeline

ENERGY SYSTEMS GROUP More than \$2 billion in energy & infrastructure improvements green. Sustainable. Energy efficient solutions.

- Tradition of excellence since 1994
- Leading Energy Services Provider
- Subsidiary of Vectren Corporation (NYSE: VVC)
- Accredited by the National Association of Energy Service Companies (NAESCO)
- More than \$2 billion in energy & infrastructure improvement projects for 340+ customers
- More than \$450 million of multi-phase, repeat customer projects
- Customer-centric | Trusted Partner
- Renewable Energy & Waste-to-Energy Expertise
- Turnkey Sustainable Infrastructure Solutions
- Product Independent / Fuel Neutrality
- Leading Utility Energy Service Contract Partner

Many Florida municipals are implementing Aggressive Sustainability Measures to address Climate Change impacts



Flagler County can become a Leader in Sustainability

Objectives:

Flagler County Can Become a Leader in Sustainable Best Practices

 Evaluate non-traditional conservation measures for Administration Building

• Determine savings potential



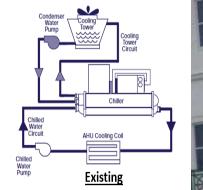
Geothermal Conversion

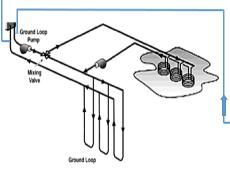
(Government Center Complex)

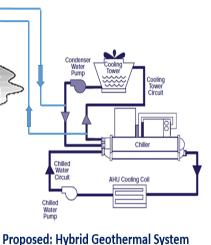
Benefits:

- Increases chiller energy efficiency by over 28%
- Decreased water usage by over 50% - 60%
- Extend life of cooling tower and delay replacement cost
- Water and electrical savings









Ice Storage (Government Center Complex)

Benefits:

- Reduces Peak Demand Costs by over 20%
- Substantial Electrical Savings

Demand Response

(Government Center Complex and Other Facilities)

Benefits:

 Significant Reduced Rate from Utility





Savings Potential

(Geothermal, Ice Storage, & Demand Response Measures)

Annual Energy & Operational Savings

Savings can fund over \$3.5M for the \$3.5 Million improvements

Term

15-20 Years

\$175K

Guaranteed

Fully Funded

FLAGLER COUNTY



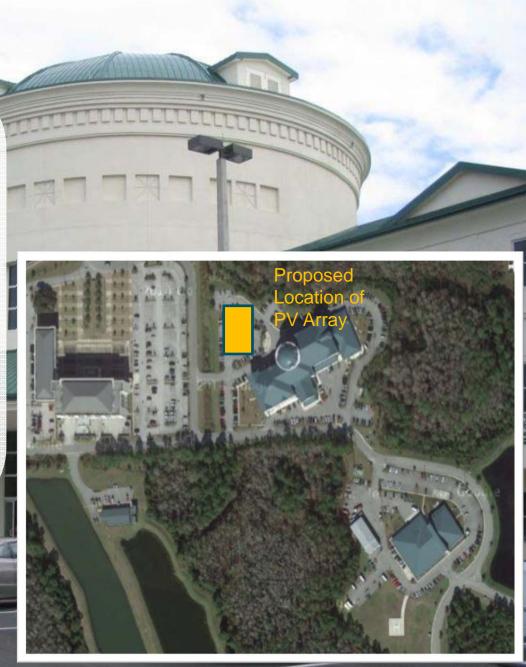
Other Options: Solar Parking Canopy

(Front of Administration Building)

Benefits:

- Reduce electrical costs
- 23% of electric usage can be produced by solar
- Reduce demand
- Parking shade
- Could accommodate EV charging stations
- Renewable energy





Solar Canopy Examples



Energy Savings Performance Contracting

Benefits:

- Comprehensive Approach to Facility and Infrastructure Upgrades
- Funded from Existing Utility and Operational Costs
- Savings are Guaranteed
- Governed by Statute fs489.145

Florida Success Stories

- City of Hollywood
- US Naval Air Station Jacksonville
- City of Brooksville
- Leon County
- City of Inverness
- City of Ocala
- City of West Palm Beach

FLAGLER COUNTY

City of Marathon

Metropolitan Nashville Airport

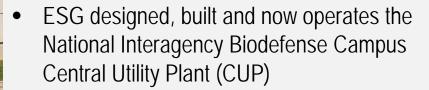


- Reduce electricity usage by 1.3 million kWh annually
- Reduce annual potable water consumption by 30 million gallons

City of Brooksville, Florida

- \$5.1 Million Total Savings and Revenue Enhancement
- 2,225,480 kWh Saved -- Equivalent to 1,535 Metric Tons of CO²
- HVAC Replacements, Lighting Improvements, and Water Conservation Measures at City Facilities and in Parks
- AMR Water Meter Conversion

Fort Detrick MRMC, Maryland

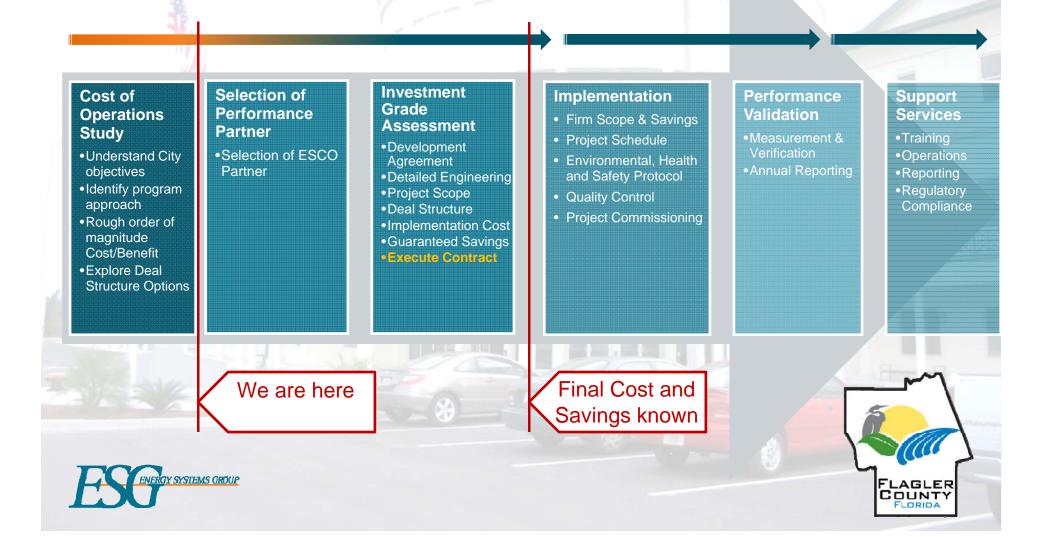


 The CUP produces and delivers steam and chilled water via a looped underground utility and power conditioning services and emergency power via underground duct banks

City of Hollywood, Florida

- 140kW Solar Arrays at 4 City Facilities
- 5kW Wind Turbine
- Project Branding: "Green Sweep"
- Customized Website for Renewable Energy on City's Website

Procurement Process



Timeline

Date	Activity
5/1/16	Selection of Energy Company from State List
6/1/16	Audit Contract Signed – Audit Commences
10/1/16	Audit Completed
11/1/16	Review completed by Flagler County
12/1/16	Implementation Contract Signed
12/2/16	Construction and Implementation Commences



Advanced Technical Design Cost Effective Installation Energy & Operational Savings Maximized Efficiency

Leader in Sustainable Best Practices





Thank You www.energysystemsgroup.com





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