



# FLORIDA GREEN LOCAL GOVERNMENT STANDARD

## *Reference Guide*

### Version 5

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The FGBC Green Local Government Standard designates green cities and green counties for outstanding environmental stewardship. It is expected that certified green cities and counties will realize reductions in operating costs and capital outlays, improvements in departmental communication and cooperation, and improved risk and asset management. In addition, the governments can realize a wealth of environmental benefits, including measurable CO<sub>2</sub> reductions, improved energy efficiency, water conservation, and increased awareness by residents to enhance sustainability throughout the community.

#### Steps to Becoming a Florida Green Local Government

- 1. Learn about the Florida Green Local Government Standard.**  
Review each of the standard documents and contact FGBC if you have any questions.
- 2. Designate an office, department, or individual as Project Coordinator.**  
The Project Coordinator will be the main link between the local government and FGBC. A project evaluator will be assigned to your team by FGBC.
- 3. Submit the Pre-Application Form along with a deposit.**  
The Registration Form is contained within the Application Tool (Excel file).
- 4. Determine what criteria apply to the local government.**  
Since the standard's criteria are organized in terms of generic local government functions, the Project Coordinator should perform an exercise to determine what criteria will apply to the local government. For example, if there is no public electric utility, certain criteria will not apply. The exercise will enable the Project Coordinator to determine the Maximum Applicable Points Total. The Project Coordinator will also determine which department is likely to perform each function, in order to distribute certification tasks effectively.
- 5. Conduct a local government assessment review in cooperation with departments.**  
After Application Tool criteria has been distributed to appropriate departments, individual departments review the criteria and indicate what has been done or is planned for implementation, and also indicate what is likely to be considered in the interest of achieving certification.
- 6. Conduct a local government evaluation.**  
The Project Coordinator collects all departmental information and determines the estimated points the local government has achieved related to the levels of certification outlined in the Standard. The Project Coordinator then prepares a summary report that is sent to all applicable local government departments.

**7. Schedule implementation meeting to outline path towards qualification.**

The Project Coordinator then assembles a meeting of departmental representatives to discuss the status in reference to the Standard. An interactive process then begins whereby areas of cooperation are explored, potential sustainable and green improvements are identified, and a plan is outlined with the intent of bringing the local government towards compliance with the Standard. Designation levels are awarded based on achieving percentages of the Maximum Applicable Points Total.

**8. Submit application and all necessary documentation to FGBC for evaluation.**

At which time the local government believes they have met the at least the minimum requirements of the standard, a Final Application is submitted to FGBC with necessary documentation so that the efforts can be reviewed, and the designation awarded.

**For More Information:**

Florida Green Building Coalition

407-777-4920

FAX: 850-671-4897

“Contact Us” on the FGBC webpage at:

[www.FloridaGreenBuilding.org](http://www.FloridaGreenBuilding.org)

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## A – ADMINISTRATION

This section is applicable to all sizes of local governments. The intent of the Administration section is to provide guidance that outlines some basic first steps beginning with establishing a commitment to sustainability. This section includes understanding the resources used within your local government, establishing a plan to reduce resource use and creating specific reduction goals. This section introduces staffing, education, building and maintenance minimum recommendations/standard. Throughout this Standard, you will find that many of the sections and credits require an ordinance to verify that the intended credit MUST be implemented. Although we recognize ordinances fall under the administration’s responsibility for organizational purposes, these items were better organized in their individual department/category.

### A1 LOCAL GOVERNMENT ENVIRONMENTAL COMMITMENT

**Requirement:**

- a) Write or re-write a vision statement to include the local government’s commitment to the environment. These statements should highlight efforts to enhance or preserve sustainability within the city/county. (1 points)
- b) Incorporate the mission statement into the local government’s comprehensive plan. (1 points)
- c) Incorporate sustainability into the local governments comprehensive plan with clear goals and metrics demonstrating accountability. (1 point)
- d) Formalize the local governments sustainability commitment through adopted ordinance, policy or mandate. (2 points)
- e) Adopt a sustainability plan that outlines principles, goals and actions for sustainability improvements for both internal operations and the community as a whole. (3 points)

**Submittal:** Copy of appropriate documents highlighting sustainability components. Provide the Vision statement, Mission statement, Comprehensive Plan, Policies/Ordinances and/or Sustainability plan documents.

**Benefit:** Formal commitments by leadership to sustainability principles and actions may unify support and justify many appropriate environmental, economic and social actions.

**Resources:** City of Portland, OR Sustainable City Principles  
<http://www.portlandonline.com/osd/index.cfm?c=41454>  
Sarasota County, FL Sustainability Resolution  
<https://www.scgov.net/home/showdocument?id=13365>  
[ICLEI Sustainability Planning Toolkit \(members only\) and other resources](http://iclei.org/members)  
<http://iclei.org/members>

### A2 DEDICATE PERSONNEL TO THE CITY/COUNTY SUSTAINABILITY PROCESS

**Requirement:**

- a) Create and maintain a designated office of sustainability or a sustainability coordinator. (2 points)

- b) Create and maintain a green team or task force of cross departmental staff to support and advance the local governments sustainability efforts. (3 points)
- c) Through ordinance, policy or mandate implement an ISO sustainable and/or resilient city standard, ISO 37120:2018, ISO 37122:2019, and/or ISO 37123:2019 or similar standard with sustainability, equity and resiliency indicators to help standardize activities for your organization. (3 points)
- d) Sustainability coordinator or green team conducts internal sustainability workshops. Workshop topics may include green building, green fleet training, green cleaning, environmentally preferable purchasing, and resource conservation. (2 points)

**Submittal:**

- a) Written documentation indicating role and responsibilities of sustainability staff.
- b) Provide information on the structure of the green team to include how the team was established (elected official, senior executive decision, etc.), a list of staff and represented departments on the team, and meeting information.
- c) Provide third party audit results of the ISO standard and a list of departments involved. Provide a list of the sustainability, equity, and resiliency indicators.
- d) Provide sample workshop materials, frequency of workshops and list of attendees

**Benefit:**

Assigning staff to the green local government process will ensure an efficient and coordinated approach within government operations, and within the community at large. A cross departmental green team serves to enhance and bolster the culture of sustainability throughout the local government. Environmental Management Systems provide ongoing assessments and goals for continuous improvement.

**Resources:**

Sustainable Sarasota  
<http://www.scgov.net/sustainability/>  
 Sustainable Alachua County  
<http://sustainac.org/>  
 Orange County Convention Center  
<http://www.occc.net/Community/green.asp>  
 ISO Environmental Management  
<https://www.iso.org/standard/68498.html>, <https://www.iso.org/standard/69050.html>,  
<https://www.iso.org/standard/70428.html>  
 Building resilient cities with new International Standard:  
<https://www.iso.org/news/ref2464.html>

**A3 INCREASE THE RESILIENCY OF THE LOCAL GOVERNMENT OPERATIONS AND THE COMMUNITY**

**Requirement:**

- a) Develop and implement a resiliency action plan that includes building resiliency standards. (1 point)
- b) Develop and implement initiatives to educate the public about resiliency including green building practices that include disaster mitigation policies to increase the structural integrity of buildings and reduce the potential for damage. (1 point)

- c) Develop and implement initiatives to educate elected officials and local government staff about resiliency and local planning efforts to increase community resilience. (1 point)

**Submittal:**

- a) Provide a copy of the resiliency plan and documentation that establishes that the plan is being implemented.
- b) Provide program outlines, schedules, educational materials
- c) Provide program outlines, schedules, educational materials

**Benefit:**

Increase resiliency and adaptation strategies of the local government by incorporating resiliency into all levels of local government operations. The goal is to reducing damage from natural disasters, including wind and water infiltration into properties, reduces the impact of severe weather events on the community. This also reduces the impact on residents and businesses within the local government jurisdiction.

**Resources:**

<https://gyr.fortlauderdale.gov/greener-government/climate-resiliency>  
<http://ftp.ecfrpc.org/Projects/East%20Central%20Florida%20Regional%20Resiliency%20Action%20Plan.pdf>

## **A4 LOCAL GOVERNMENT EQUITY COMMITMENT**

**Requirement:**

- a) Adopt an equity statement and or include an equity in the existing sustainability mission statement or sustainability planning documents. (1 points)
- b) Create an equity advisory committee or other convening body to guide, support and assess equity focused investments and decisions (1 points)
- c) Develop a diversity, equity and inclusion action plan. (1 point)

**Submittal:**

- a) Copy of appropriate documents highlighting equity components.
- b) Documentation of advisory committee including members and meeting schedule.
- c) Copy of action plan

**Benefit:**

Formal commitments by leadership to equity principles and actions may unify support and justify many appropriate environmental, economic and social actions.

**Resources:**

Racial Equity Action Plans: A How to Manual, Government Alliance for Racial Equity, 2016, JUST Program Overview, ILFI Website

## **A5 CONSERVATION BENCHMARKS AND PLANNING**

**Requirement:**

- a) Monitor and track local government energy use. Provide a listing of all facilities used, owned or leased by the local government and their corresponding energy use. Use meters, data from bills or work with the utility company to provide data for a minimum of 2 years. Cite trends and irregularities. (1 point)

- b) Develop a local government energy use reduction plan. Utilize baseline energy data to develop and implement a plan to reduce energy use by at least 10% within 5 years. (1 point)
- c) Monitor and track local government water use. Provide a listing of all facilities used, owned or leased by the local government and their corresponding water use. Use meters, data from bills or work with the utility company to provide data for a minimum of 2 years. Cite trends and irregularities. (1 point)
- d) Develop a local government water use reduction plan. Utilize baseline water data to develop and implement a plan to reduce water use by at least 10% within 5 years. (1 point)
- e) Monitor and track local government fuel use. Data should include all departments operated by the local government. This may include passenger, emergency, fleet or public transportation vehicles. Provide documentation of tracking fuel usage for a minimum of 2 years. Cite trends and irregularities. Use this fuel use baseline as an indicator for performance/future progress. (1 point)
- f) Develop a local government fuel use reduction plan. Utilize baseline fuel use data to develop and implement a plan to reduce fuel use by at least 10% within 5 years. (1 point) Implement a plan to reduce fuel use by at least 20% within 5 years (2 points)
- g) Monitor and track local government solid/hazardous waste use. Provide a minimum of 2 years of solid waste data. Cite trends and irregularities. (1 point)
- h) Develop a local government solid/hazardous waste reduction plan. Utilize baseline waste data to develop and implement a plan to reduce solid and hazardous waste by at least 10% within 5 years. (1 point)
- i) Develop an Environmentally Preferable Purchasing (EPP) program for the local government (1 point)
- j) Formal commitment to adopt EPP via ordinance, policy or mandate or in the procurement code (1 points)
- k) Provide staff education on EPP, reference materials on EPP or standardized procurement templates incorporating EPP (1 point)

**Submittal:** Provide baseline data for energy, water, fuel and or solid waste for a period of at least 2 years. Provide copies of reduction and implementation plans. Provide copy of EPP documentation.

**Benefit:** Monitoring current consumption sets a baseline upon which to improve. Undertaking monitoring activity and analyzing results often unveils opportunity for conservation. Local governments often spend a significant amount of their annual budget on energy, water, and waste. Successful plan/program implementation often yields economic as well as environmental benefits.

**Resources:**

**Water Efficiency and Self-Conducted Water Audits at Commercial and Institutional Facilities**

[https://floridawaterstar.com/pdfs/water\\_efficiency\\_improvement\\_self\\_assess\\_guide.pdf](https://floridawaterstar.com/pdfs/water_efficiency_improvement_self_assess_guide.pdf)

Portland, OR Energy Division Publications

<http://www.portlandonline.com/osd/index.cfm?c=41462>

US EPA EnergyStar for Government

[http://www.energystar.gov/index.cfm?c=government.bus\\_government](http://www.energystar.gov/index.cfm?c=government.bus_government)



Energy Star Portfolio Manager

[http://www.energystar.gov/index.cfm?c=evaluate\\_performance.bus\\_portfoliomanager](http://www.energystar.gov/index.cfm?c=evaluate_performance.bus_portfoliomanager)

Florida Water Management Districts

<http://www.dep.state.fl.us/secretary/watman/default.htm>

Florida DEP Waste Reduction Division

<http://www.dep.state.fl.us/waste/categories/wr/default.htm>

US EPA Environmentally Preferable Purchasing

<http://www.epa.gov/oppt/epp/index.htm>

US EPA Guiding Principles to EPP

<http://www.epa.gov/oppt/epp/pubs/guidance/finalguidance.htm>

## **A6 REDUCE GREENHOUSE GAS EMISSIONS**

### **Requirement:**

- a) Participate in the ICLEI Local Governments for Sustainability Climate Pathways program (formerly Cities for Climate Protection Campaign) and utilize the framework to develop a strategic agenda to reduce local air emissions. (1 point)
- b) Purchase a minimum of 1 alternative fuel vehicle (AFV) for local government use and evaluate performance such that similar vehicles can be purchased in the future. Evaluate the performance against traditional combustion vehicles used for same tasks. (1 point). Earn additional points for replacing a percentage the local government owned combustion passenger vehicles with AFV. Earn 1 point for each 10% of passenger vehicles replaced. (1-10 points)
- c) Conduct a greenhouse gas (GHG) inventory for emissions from **local government** operations that establishes a baseline from which emissions will be reduced. Baseline must quantify direct and indirect greenhouse gas emissions. (3 point).
- d) Conduct a greenhouse gas inventory for emissions that is **community wide** that establishes a baseline from which emissions will be reduced. The inventory should include, at a minimum, quantified emissions from transportation, electricity generation, industry, agriculture, commercial and residential buildings and any other significant contributors to GHG emissions. (5 point)
- e) Develop a local government greenhouse gas emission reduction plan. Utilize baseline emission data to develop and implement a plan to reduce greenhouse gas emissions by at least 10% within 5 years. (5 point)

### **Submittals:**

- a) Proof of participation in the ICLEI program, for example a copy of required resolution to join and participate.
- b) Proof of purchase such as invoice, photo and basic AFV specs.
- c) Provide a list of greenhouse gas (GHG) direct and indirect contributors.
- d) Provide inventory quantification.
- e) Submit the local government greenhouse gas reduction plan utilizing baseline GHG data to develop and implement a plan to reduce GHG emissions by at least 10% within 5 years.

**Benefit:** Embarking on strategies to plan and implement greenhouse gas emission reductions show the local government’s commitment to the global, as well as local environment. Reducing greenhouse gas emissions help combat global warming, and also improve local air quality, especially in urbanized areas.

**Resources:** International Council for Local Environmental Initiatives  
<http://www.iclei.org/us/ccp/>  
<https://icleiusa.org/ghg-protocols/>  
City of Gainesville Climate Protection Campaign  
<http://www.gru.com/OurEnvironment/AirQuality/ccpCampaign.jsp>  
US DOE Clean Cities Program  
<http://www.eere.energy.gov/cleancities/>  
Clean Cities Coalition  
<http://www.clean-cities.org/>  
Florida Space Coast Clean Cities Coalition  
<http://www1.eere.energy.gov/cleancities/>  
Florida Green Local Government Standard Fleet Management and Vehicle Maintenance Module  
[http://floridagreenbuilding.org/files/1/File/Standard\\_Govt/FleetManagement.pdf](http://floridagreenbuilding.org/files/1/File/Standard_Govt/FleetManagement.pdf)

## **A7 BUILD, RENOVATE AND LEASE GREEN GOVERNMENT BUILDINGS**

### **Requirement:**

- a) Become a member of the Florida Green Building Coalition (FGBC) under the Local Government membership category. (1 point)
- b) Become a member of USGBC. Join the US Green Building Council (USGBC) under the Local Government membership category. (1 point)
- c) Owned or Leased buildings: that are certified by the Florida Green Building Coalition (FGBC), Green Globes (GG) or US Green Building Council’s (USGBC) LEED Standards or Florida Water Star<sup>SM</sup> (FWS).
  - Earn 1 point for any owned building that is currently certified. For each 10% of the owned square footage that is certified green under a third-party program such as FGBC, GG, USGBC, or FWS earn 1 additional point for up to 10 points
  - Earn 2 points for an ordinance, policy or mandate requiring that all government operations are located in certified green buildings.
  - Earn 2 points for an ordinance, policy or mandate requiring that new buildings and renovations are certified by a third-party green building organization such as FGBC, GG, or USGBC.

### **Submittal:**

- a) Copy of membership information
- b) Copy of membership information
- c) Provide copy of ordinance, policy or mandate and copies of the building’s green certification.

**Benefit:** Green construction, maintenance, and operation practices ensure that buildings not only conserve natural resources, but that they are also affordable to operate and healthy places to work.

**Resources:** Florida Green Building Coalition  
<http://www.floridagreenbuilding.org/certification>  
US Green Building Council  
<http://www.usgbc.org>  
Florida DEP Pollution Prevention Division – Green Building  
<http://www.dep.state.fl.us/pollutionprevention/>  
US Environmental Protection Agency ~ Indoor Air Quality  
<http://www.epa.gov/iaq/voc.html>  
Green Seal  
<http://www.greenseal.org/Home.aspx>  
Creating Green and Profitable Work Environments  
<http://www.fsec.ucf.edu/en/consumer/buildings/commercial/cleaning.htm>  
[Florida Water Star](http://www.floridawaterstar.com/)  
<https://floridawaterstar.com/>

## **A8 GREEN LOCAL GOVERNMENT BUILDINGS - MAINTENANCE POLICIES**

### **Requirement:**

- a) Enact an ordinance, policy or mandate requiring that all owned or leased local government space use green cleaning/maintenance practices suggestions outlined in the Creating a Green and Profitable Work Environment Publication available from Florida Department of Environmental Protection Pollution Prevention Program and utilize cleaners with third party certification such as Green Seal, UL ECOLOGO and the EPA’s Safer Choice program. (2 points)
- b) Implement green cleaning/maintenance in government owned and leased buildings via contract with requirements as stated above. Earn 1 point for each 20% of the owned and leased space that contractually requires green cleaning and maintenance. (up to 5 points)
- c) Enact an ordinance, policy or mandate requiring that all owned or leased local government buildings use green landscaping/irrigation practices that require installed landscape and irrigation practices to meet Florida Friendly Landscape, FGBC or WaterStar certification criteria. (2 points)
- d) Implement green landscaping/irrigation practices requiring installed landscape and irrigation practices for new/existing buildings that meet FGBC, Florida-Friendly Landscaping™ recognition or Florida Water Star certification criteria in government owned and leased buildings via policy or contract. (5 points)
- e) Utilize renewable energy for government buildings, such as solar water heaters and solar photovoltaic systems on buildings that have previously implemented energy efficiency measures. Document energy efficiency with a baseline of energy use, Target Finder, an energy audit, or other method prior to installation. (1 point per building, maximum 5 points)

### **Submittal:**

- a) Provide a copy of the policy, purchase order or contract requiring that all owned or leased local government space use green cleaning/maintenance practices.

- b) Provide list of government owned and leased facilities identifying those that contractually requires green cleaning and maintenance.
- c) Provide copy of the policy requiring that all owned or leased local government space use green landscaping/irrigation that meet Florida Friendly Landscape, FGBC or WaterStar certification criteria - 2 points
- d) Provide proof of implementation such as contract or internal policy identifying required green practices.
- e) Provide energy baseline, list/proof of previously installed efficiency measures and proof of solar installation.

**Benefit:** Green construction, maintenance, and operation practices ensure that buildings not only conserve natural resources, but that they are affordable to operate and healthy places to work.

**Resources:** Florida Green Building Coalition  
<http://www.floridagreenbuilding.org>  
 US Green Building Council  
<http://www.usgbc.org>  
 Portland, OR LEED  
[http://www.sustainableportland.org/portland\\_leed.pdf](http://www.sustainableportland.org/portland_leed.pdf)  
 Florida DEP Pollution Prevention Division – Green Building  
<http://www.dep.state.fl.us/pollutionprevention/>  
 Green Seal  
<http://www.greenseal.org/Home.aspx>  
 Sarasota County Landscaping Ordinance  
<http://sarasota.extension.ufl.edu/Hort/WEL/ord/docs/ord.htm>  
 Florida Green Local Government Standard Environmental Landscaping Module and Video  
[http://floridagreenbuilding.org/files/1/File/Standard\\_Govt/LandscapeMaintenance.pdf](http://floridagreenbuilding.org/files/1/File/Standard_Govt/LandscapeMaintenance.pdf)  
 Florida Water Star  
<https://floridawaterstar.com/>

## **A9 COMMUNITY EDUCATION**

### **Requirement:**

- a) Budget for publicity/education related to the local government’s commitment to the Florida Green Local Government Standard, sustainability, resilience and equity. (1 point)
- b) Involve school students in green projects within the school. Students are exposed to green building through lesson plans such as by taking part in the Alliance to Save Energy Green Schools program or curricula developed by the Florida Solar Energy Center. (1 points)
- c) Involve students in green projects outside the school. Students can also be exposed to green building outside of lesson plans through field trips to green local government features and involvement in projects that enable school grounds to be certified by state and national programs. (1 points)
- d) Provide environmental training of teachers over the summer. Many organizations offer training modules for teachers, for example, Florida Farm Bureau’s Ag in the Classroom program (1 point)

**Submittal:**

- a) Submit documentation of budget allocation earmarked for this task and examples of promotional materials
- b) Provide copy of educational and project materials
- c) Provide copy of promotional and project materials
- d) Submit details of coursework offered to teachers.

**Benefit:**

Educating the community about the Green Local Government process may promote the local government's commitment to program aspects, and potentially foster community participation. Green building education can also fulfill part of the requirements for STEM curriculums.

**Resources:**

Alliance to Save Energy Green Schools Program  
<http://www.ase.org/section/program/greenschl/>  
Florida Solar Energy Center Education Resources  
<http://www.floridaenergycenter.org/en/education/k-12/index.htm>  
Alachua County Environmental Park Tours  
<http://www.co.alachua.fl.us/assets/uploads/images/pw/pk-tour.pdf>  
Utility Report Cards  
<http://www.utilityreportcards.com>  
Building Performance Matters  
<http://www.floridaenergycenter.org/en/education/k-12/curricula/index.htm>  
FDEP Education Resources  
<http://www.dep.state.fl.us/waste/categories/recycling/pages/educate.htm>  
Broward County School Recycling Program  
<http://www.broward.org/recycling/schoolsrecycling.htm>

## **A10 STAFF EDUCATION.**

**Requirement:**

- a) Organize various sustainability education opportunities for local government staff, provide general sustainability information and background, specific areas that the local government has a focus on, provide specific focuses on employees' roles in implementing adopted policies and behavior changes that would help achieve targets and goals. (1 point)
- b) Encourage innovation and recognize leaders through a sustainability award program for employees. (1 point).

**Submittal:**

List of educational programs, times offered and sample content. Provide copies of recognition program materials.

**Benefit:**

Staff training is important to stay abreast of current trends and techniques, and to gain new insights. Employee recognition helps keep employees motivated and shares success stories.

**Resources:**

Sustainable Sarasota  
<http://www.scgov.net/sustainability/>

## B – AGRICULTURE AND EXTENSION SERVICE

Each county government entity has a formal partnership with University of Florida and hosts a UF IFAS Extension Program. UF IFAS Extension offers a variety of programs designed to educate the public, businesses and government staff about agriculture and sustainable community development including subjects such as commercial agricultural production, Florida-Friendly Landscaping™ (FFL), Sustainable Floridians®, managing local ecosystems and community gardening. Individual program offerings are based on community needs as identified through local citizen advisory committees. While local governments do not have a UF IFAS Extension Office, they may offer similar programs independently or may partner with UF IFAS Extension to offer similar programs. Education and training is applicable to all governments while agriculture specific credits may be marked no applicable IF the local government does not have any land that is zoned for agriculture on their land use maps.

### B1 FLORIDA FRIENDLY LANDSCAPING™ PRINCIPLES ON GOVERNMENT OWNED PROPERTIES.

#### Requirement:

- a) Local Government staff are certified as a Florida Water Star Accredited Professional, certified by the Florida Nursery Growers Landscape Association (FNGLA), Green Infrastructure Certification (NGICP), have attend Green Industries Best Management Practices (GIBMP) training or is a Florida Friendly Landscaping™ Certified Professional. (Note that this credit is also available in Parks and Recreation, please claim in the appropriate location based on who has received the training.) (Earn up to 2 points, 1 for each individual or 1 for each type of certification). Earn an additional 2 points if the certified professionals are actively engaged in providing subject matter expertise to new or ongoing local government projects and provide training or outreach regularly.
- b) Provide education programs, workshop or tours conducted by staff, community partner with expertise or partner with the extension office to help staff, the public and landscape professionals understand how to implement Florida Friendly Landscaping™ (FFL) principles. (1 point)
- c) Construct and maintain a demonstration garden that provides community education on the Florida-Friendly Landscaping™ principles. (2 points)
- d) Working with UF/IFAS agents, FFL educators and/or Master Gardeners to have local government properties recognized as a Florida Friendly Landscape or achieve Florida Water Star certification. Provide signage, information on local government channel, web site information, pamphlets or other means of promotion showcasing the certified landscape. Earn points for any owned building or park, **with maintained landscapes**, that is currently recognized through FFL or FWS. One point is available for each 20% (calculated based on number of properties not acreage) of the maintained landscapes that are certified. (up to 5 points)
- e) Earn 2 points for an ordinance, policy or mandate requiring government building and parks with maintained landscape are certified using FFL or WS.

#### Submittal:

- a) Provide proof of certification.
- b) Provide a copy of educational materials, schedule of education programs and a list of attendees.

- c) Provide photos of demonstration garden and educational signage.
- d) Provide an inventory of maintained landscapes that are certified and provide the relevant Florida Friendly Landscape (FFL) or Florida Water Star (FWS) certificate. (GIS map and shape file identifying area and location and size of recognized FFL property within jurisdiction. Calculation of total landscaped property in jurisdiction and percent of acreage with FFL recognition).
- e) Pass an ordinance, policy or mandate requiring government buildings and parks with maintained landscapes are recognized as FFL or certified as FWS. (2 points).

**Benefit:** Florida friendly landscapes conserve water, minimize the use of potable water for irrigation, reduce the runoff of excess fertilizers and pesticides, have low maintenance requirements, provide habitats for wildlife, and are naturally pest resistant.

**Resources:** Florida Friendly Landscaping™ Program  
<https://ffl.ifas.ufl.edu/>  
 Florida-Friendly Landscaping™ Management Contract  
[https://ffl.ifas.ufl.edu/materials/Florida\\_Friendly\\_Landscaping\\_Maintenance\\_Contract\\_2018.docx](https://ffl.ifas.ufl.edu/materials/Florida_Friendly_Landscaping_Maintenance_Contract_2018.docx)  
 GI-BMP Training & Program Overview  
[https://ffl.ifas.ufl.edu/professionals/BMP\\_overview.htm](https://ffl.ifas.ufl.edu/professionals/BMP_overview.htm)  
 Florida Water Star  
<https://floridawaterstar.com/>  
 National Green Infrastructure Certification Program  
<https://ngicp.org/>

## **B2 OFFER COMMUNITY INCENTIVES.**

**Requirement:**

- a) Offer free or discounted green products to the public such as compost bins, native drought tolerant seedlings, environmentally friendly pesticides, rain barrels, low flow fixture replacement, etc. (2 points per product type offered for free, 1 point for each discounted product – maximum 6 points.)
- b) Offer recognition program for FFL participation in the community (individuals, homeowners, and/or businesses.) Work with local organizations to sponsor awards and recognition such as yard signs, newspaper article, website, etc. (1 point)

**Submittal:** Submit type of product supplied, estimated number distributed, and documentation of the recognition program.

**Benefit:** Simple, inexpensive products supplied at no or low cost to the community may help with resource conservation and community education helping to further green activity within the community.

**Resources:** Charlotte County discounted compost bins  
<http://www.charlottecountyfl.com/EnvironmentalServices/solidwaste/backyardcomposting.asp>  
Miami-Dade County Adopt-A-Tree program  
<http://www.miamidade.gov/derm/adoptatree.asp>

### **B3 ORGANIC LOCAL FOOD PRODUCTION**

**Requirement:**

- a) Offer incentives to create and maintain certified organic farms within the city/county. Example incentives include lower tax base for certified organic farms, assistance with organic certification fees, providing low interest loans for retrofit, assistance with promotion and marketing, providing land and/or establish organic community gardens. (1 point per incentive – maximum 5 points)
- b) Conduct courses and workshops on food production, organic and sustainable farming, food processing and/or tours of organic farming operations nearby. (1 point).
- c) Create , maintain ,fund and support community gardens on public land to increase access to fresh food. (1 point).
- d) Adopt ordinance, policy, mandate or appropriately modify the land development codes to support urban food production and other agricultural operations. Allow urban agriculture options such as small poultry flocks, landscape nurseries, community supported agriculture (CSA) and food production within urban zoning patterns (1 point)

**Submittal:**

- a) Provide details of incentives offered and approximate value. Include number of certified farms operating or planned within the city/county.
- b) Provide course/workshop agenda, and participant list.
- c) Identify locations of government sponsored community garden sites and government partnerships on private land.
- d) Submit documentation showing support of urban agriculture.

**Benefit:** Organic produce does not rely on chemical pesticides, which often results in lower product yield. Incentives can help organic farms compete in the marketplace. Demand for locally grown organic produce is growing in many areas, much of which is imported to Florida.

**Resources:** Sarasota County Extension Integrated Agricultural Management  
<http://sarasota.extension.ufl.edu/AG/ag.shtml>  
[UF IFAS Program for Resource Efficient Communities – Continuing Education](http://www.buildgreen.ufl.edu/continuing_education.htm)  
[http://www.buildgreen.ufl.edu/continuing\\_education.htm](http://www.buildgreen.ufl.edu/continuing_education.htm)

### **B4 OFFER COMMUNITY EDUCATION ON SUSTAINABLE AGRICULTURE AND LOCAL FOOD PRODUCTION or incorporate sustainable and water efficient agriculture**

**Requirement:**

- a) Offer sustainable and water efficient agriculture and food production education to residents in the community. Education topics can include best management practices for water quality



protection and water conservation, integrated pest management, composting, sustainable agriculture, permaculture, etc. This may be in partnership with UF IFAS Extension, vocational schools or similar programs. (1 point)

- b) Provide sustainable agriculture and food production education materials such as websites, local television programs, videos, printed material, etc. on sustainable agriculture and local food production. (1 point)
- c) Maintain an active outreach program to support local food production. Work with UF IFAS Extension to maintain active outreach programs such as Master Gardener, Master Conservationist, and/or Sustainable Floridians <sup>SM</sup>, etc. (1 point)

**Submittal:**

- a) Provide agenda and participation list for course(s).
- b) Supply examples of educational materials or other outreach efforts related to sustainable agriculture and food production.
- c) List name of program and key UF IFAS Extension staff members and describe level and type of funding and support.

**Benefit:**

Educating the community on sustainable agriculture issues helps to expand the local government commitment to public sector.

**Resources:**

Sustainable Sarasota  
<http://www.scgov.net/sustainability/>  
Florida Green Local Government Standard Environmental Landscaping Module  
[http://floridagreenbuilding.org/files/1/File/Standard\\_Govt/LandscapeMaintenance.pdf](http://floridagreenbuilding.org/files/1/File/Standard_Govt/LandscapeMaintenance.pdf)  
[UF IFAS Extension Green Industries Best Management Practices \(GI BMP\)](http://www.ifas.ufl.edu/extension/green_industries/best_management_practices/)  
[https://ffl.ifas.ufl.edu/professionals/BMP\\_overview.htm](https://ffl.ifas.ufl.edu/professionals/BMP_overview.htm)  
[UF IFAS Extension Master Gardener Program](http://www.ifas.ufl.edu/extension/master_gardener/)  
<http://gardeningsolutions.ifas.ufl.edu/mastergardener>  
[UF IFAS Extension Sustainable Living](http://www.ifas.ufl.edu/extension/sustainable_living/)  
[http://solutionsforyourlife.ufl.edu/sustainable\\_living/](http://solutionsforyourlife.ufl.edu/sustainable_living/)  
[Florida Energy Systems Consortium \(FESC\) Fact Sheets](http://www.floridaenergy.ufl.edu/?page_id=273)  
[http://www.floridaenergy.ufl.edu/?page\\_id=273](http://www.floridaenergy.ufl.edu/?page_id=273)

## **B5 AGRICULTURAL INDUSTRY EDUCATION**

**Requirement:**

- a) Offer promotion and education of water conservation within the agriculture sector. Develop, distribute, and market educational material on green agricultural issues. Examples include courses, seminars, websites, printed material, etc. (1 point)
- b) Offer industry education on principles and applications of organic farming, permaculture and sustainable agriculture. For example, mobile irrigation labs are another example that combines education with a technical assistance incentive. (1 point)

**Submittal:**

Submit details of the industry educational outreach such as course agendas, advertisements, or copies of printed material.

**Benefit:** Industry education and technical assistance may foster incorporation of green principles and help achieve local government goals.

**Resources:** Sarasota County Extension Integrated Agricultural Management  
<http://sarasota.extension.ufl.edu/AG/ag.shtml>

## C – BUILDING AND DEVELOPMENT

The intent of this section is to improve resource conservation, decrease energy use and reduce costs in the built environment. The goal is to improve in the built environment through awareness, education, and incentives.

### C1 MONITOR AND TRACK GREEN BUILDING WITHIN THE CITY/COUNTY.

**Requirement:**

- a) Create and maintain an electronic database of all building energy code compliance reports. Require an electronic submission of energy code calculations or manually enter data into a database. The intent of this credit is to provide a usable searchable database. (5 points)
- b) Enact a policy requiring annual energy use is disclosure and a database maintained for buildings over 50,000 square feet.(5 points)
- c) Create and maintain a searchable electronic database of all green building certifications. Obtain a hardcopy or PDF of the rating certificate(s) and indicate program and certification level qualified for in database. (2 points). Note, N1 provides points if green features are also recorded in information found on the property appraisers/tax information site for the property.

**Submittal:** Provide examples of the process and describe strategy used for tracking energy code compliance and green certifications.

**Benefit:** Data may be useful to determine effectiveness of any incentives, promotion, or incentives taking place towards the creation of green buildings.

**Resources:** Florida Green Building Coalition (FGBC)  
<http://www.floridagreenbuilding.org/index.cfm/go/public.certifiedProjects>  
Florida Home Energy Ratings  
[http://dbase.fsec.ucf.edu/pls/engauge/rating\\_search](http://dbase.fsec.ucf.edu/pls/engauge/rating_search)  
U.S. Department of Energy, EPA, Portfolio Manager  
<http://energystar.gov>

### C2 CITY/COUNTY GREEN BUILDING PROGRAM INCENTIVES

For tax related incentives see Category N, for affordable housing see Section G

**Requirement:**

- a) Adopt FGBC or other nationally recognized green building standards by ordinance, policy or mandate to reduce impacts on natural resources and increase community resiliency. To receive credit for adopting the standards the local government must offer a minimum of 2 education sessions per year to the general public discussing the benefits of sustainable development, green building and home certifications. (2 points)
- b) Offer an incentive(s) for FGBC, Energy Star, Green Globes, NGBS, or LEED certified **commercial** buildings. Example incentives include reduced permit, inspection or impact fees, fast track permitting, decreased connection fees and/or promotion/publicity. Incentive for commercial building must have a minimum value of \$1,000.(4 points)

- c) Offer an incentive(s) for FGBC, LEED, NGBS or Energy Star certified green **homes**. Incentives may be for builder/developer, or building owner, but must have a value of at least \$300 per home (4 points)
- d) Offer an incentive(s) for FGBC, LEED or NGBS certified green **developments** or communities. Incentives may be for builder/developer or building owners and must have a value of \$2500 per land development. (4 points)

**Submittal:** Provide copy of ordinance, policy, or mandate that indicates how the green standards are part of official city/county green building program. Provide details and conditions of incentive, along with approximate dollar value per applicant. The incentives must be quantified to receive credit.

**Benefit:** One of the largest energy consumers in the state of Florida are our buildings. Adopting a green building standard creates greater awareness of the benefits of green building and certifying programs. Primary benefits are health, comfort, safety, and affordability for occupants, as well as environmental protection and natural resource management. Incentive help shows the community that the local government strongly encourages participation from the general public.

**Resources:** City of Gainesville Green Building Program  
[http://www.aia.org/static/state\\_local\\_resources/adv\\_sustainability/Model%20Language/Gainsville\\_ordinance.pdf](http://www.aia.org/static/state_local_resources/adv_sustainability/Model%20Language/Gainsville_ordinance.pdf)  
 Florida Green Building Coalition (FGBC)  
<http://www.floridagreenbuilding.org>  
 US Green Building Council (USGBC LEED)  
<http://www.usgbc.org>  
 Florida Home Energy Ratings  
[http://dbase.fsec.ucf.edu/pls/engauge/rating\\_search](http://dbase.fsec.ucf.edu/pls/engauge/rating_search)  
[Department of Energy, EPA Energy Star Portfolio Manager](http://energystar.gov)  
<http://energystar.gov>

### **C3 PRESERVE/ENHANCE NATIVE HABITAT AND NATURAL RESOURCES.**

**Requirement:**

- a) Require mitigation for consumption of natural habitat or resources through purchase and maintenance of similar amount of adjacent land with similar significance. If mitigation land exceeds 50 acres, require that an individual is dedicated to the successful preservation of natural features during the development. If mitigation land exceeds 1,000 acres, require the developer retains the position for at least 10 years. (2 points for first 10 acres or mitigation land, 1 point for each additional 10 acres or mitigated land– maximum 5 points)
- b) Require developers design, develop and certify land developments with the Florida Green Building Coalition Green Land Development Standard (10 points)
- c) Enact and enforce a tree preservation or land-clearing ordinance. Tree preservation/land clearing ordinance can be in form of protection, mitigation, canopy continuity, or % shading requirements. The ordinance, policy, mandate or land development code must require a tree

survey prior to any land clearing, must include financial penalty for removal of trees in addition to planting of new trees. (1 point)

- d) Reduce impervious parking surfaces – Review current LDC and decrease required parking. Allowed for parking reduction due to shared parking, proximity to mass transit extensive bike trails or other reasons as determined by staff. Where parking space reduction is not possible require a minimum of 50% of the parking spaces must be constructed from pervious materials (1 point.)

**Submittal:** Submit written documentation of all ordinances, policy, mandate or code for which credit is desired.

**Benefit:**

- a) Ecologically significant lands are important to be preserved in order to retain biodiversity and provide a means for aquifer recharge and storm water treatment.
- b) The FGBC Green Land Development Standard is a comprehensive approach to sustainable land development.
- c) Land development often completely removes existing vegetation and attempts to replace it post-construction. Replacement is often inadequate, and removal displaces wildlife, and leads to erosion, adding to storm water runoff and treatment concerns.
- d) Land dedicated for parking is often unnecessarily sized according to peak demand. Excessive impervious surface contributes to storm water runoff, and heat island effects.

**Resources:**

Florida Green Building Coalition

<http://www.floridagreenbuilding.org>

Brevard County aquifer protection ordinance

[http://www.brevardcounty.us/environmental\\_permitting/assets/documents/pdf/aquifer\\_protection.pdf](http://www.brevardcounty.us/environmental_permitting/assets/documents/pdf/aquifer_protection.pdf)

Brevard County land clearing and tree protection ordinance

[http://www.brevardcounty.us/environmental\\_permitting/documents/ARTICLEXIIIDIVISION3LandClearingandTreeProtection.pdf](http://www.brevardcounty.us/environmental_permitting/documents/ARTICLEXIIIDIVISION3LandClearingandTreeProtection.pdf)

Volusia County Tree Protection Ordinance

<http://www.volusia.org/environmental/permitting/trees/NewTreeOrd.pdf>

Sarasota County Canopy Road Ordinance

<http://www.scgov.net/sustainability/documents/canopyord2001041.pdf>

Alternatives to impervious pavement

<http://www.uri.edu/> Search: Impervious

## **C4 CONSERVE WATER RESOURCES**

**Requirement:** Through ordinance, resolution or policy:

- a) Require that all new automatic irrigation systems shall be controlled with a smart controller, weather-based or soil-moisture based. WaterSense-labelled controllers can comply. (2 points) Checklist says REQUIRED PRACTICE

- b) Require irrigation systems be designed according to the Landscape Irrigation & Florida-Friendly Design Standards. (5 points)
- c) Require that the landscapes contain 75% site-appropriate, drought tolerant plant species. (2 points)
- d) Require a minimum of 50% native vegetation. (2 points)
- e) Turfgrass must be selected based on the site conditions and location. See “turf table” (1 point).
- f) Require Turfgrass to be less than 50% of the landscaped area. (2 points).
- g) Include the Florida Friendly Landscaping 9 principles in landscape code documents. (3 points)
- h) Require abandoned septic tanks are cleaned and used for non- potable irrigation water. (5 points)
- i) Require indoor plumbing new construction standards meet EPA WaterSense specifications. (5 points)
- j) Enact an ordinance that requires renovation projects to adhere to EPA WaterSense specifications for plumbing fixtures. (2 points)

**Submittal:** Submit a copy of the ordinance, enforcement techniques and copies of recent violations.

**Benefit:**

- Sensors that automatically shut off irrigation save water.
- UF/IFAS Florida Friendly Landscaping™ standards focus on drought tolerant plant material grouped according to watering needs. Appropriate turf varieties are limited to pet, play, and entertainment needs. Native species planted in the right place are drought tolerant, low maintenance and provide wildlife, ornamental and historical value.
- Reduce demand for potable water for irrigation
- The Florida Building Code for plumbing references EPA 1992, a standard written over 15 years ago. Using high efficiency fixtures and Energy Star appliances can reduce water consumption by 20 - 30%.
- Retrofitting to more efficient indoor fixtures is a great way to achieve water conservation.

**Resources:** Volusia County rain sensor ordinance  
[http://www.volusia.org/environmental/pollution\\_abatement/Water%20Resources/Waterwise%20Ordinance%20final.pdf](http://www.volusia.org/environmental/pollution_abatement/Water%20Resources/Waterwise%20Ordinance%20final.pdf)  
 Brevard County landscaping ordinance  
[http://www.brevardcounty.us/environmental\\_permitting/documents/ARTICLEXIIIDIVISION2Landscaping.pdf](http://www.brevardcounty.us/environmental_permitting/documents/ARTICLEXIIIDIVISION2Landscaping.pdf)  
 Florida Green Local Government Standard Environmental Landscaping Module and Video  
[http://floridagreenbuilding.org/files/1/File/Standard\\_Govt/LandscapeMaintenance.pdf](http://floridagreenbuilding.org/files/1/File/Standard_Govt/LandscapeMaintenance.pdf)  
 2007 Florida Building Code: Appendix F  
<http://www.floridabuilding.org>  
 FDEP Landscape Irrigation and Florida Friendly Design Standards  
[http://www.dep.state.fl.us/water/waterpolicy/land\\_irr.htm](http://www.dep.state.fl.us/water/waterpolicy/land_irr.htm)

Miami Dade Water Efficiency Manual  
[http://www.miamidade.gov/conservation/new\\_construction.asp](http://www.miamidade.gov/conservation/new_construction.asp)  
[Florida Water Star](http://www.floridawaterstar.com/)  
<https://floridawaterstar.com/>

## **C5 STAFF EDUCATION.**

### **Requirement:**

- a) Require all code and building inspectors, reviewers, and supervisors complete four hours of CEU approved course in green building on an annual basis (1 point).
- b) Staff achieve certification as a FGBC Accredited Professional in appropriate departments, such as building or planning. (2 points)

**Submittal:** Research and provide list of applicable courses offered that employees may leverage. Approximate and submit budget based on average travel and course registration costs.

**Benefit:** In order for green building techniques to be implemented effectively and efficiently, staff should have a general comprehension of the benefits, and applicability.

**Resources:** University of Florida Build Energy Extension Service  
<http://www.energy.ufl.edu/>  
Florida Solar Energy Center Building Science Training and Certification Center  
[http://www.floridaenergycenter.org/en/education/cont\\_ed/bldg/index.htm](http://www.floridaenergycenter.org/en/education/cont_ed/bldg/index.htm)  
[http://www.fsec.ucf.edu/ed/contin\\_ed/bldg\\_sci.htm](http://www.fsec.ucf.edu/ed/contin_ed/bldg_sci.htm)

## **C6 INDUSTRY EDUCATION.**

### **Requirement:**

- a) Offers classes held in the building department or offered in conjunction with the local Home Builders Association to industry professionals that detail any green incentives or regulations present. (1 point)
- b) Promote, provide space for, collaborate with entities or offer incentives to offer green building education to local construction industry professionals. (1 point)
- c) Conduct a green building awards program independently or in conjunction with the local HBA or FGBC. (1 point)

### **Submittal:**

- a) Submit seminar schedule and agenda.
- b) Provide copies of collaboration and incentives.
- c) Describe framework of awards program including actual awards, and basis for qualification.

**Benefit:** Local governments can encourage implementation of green building by ensuring local industry is educated on techniques and benefits and acknowledged for their efforts.

**Resources:** City of Gainesville Green Building Program  
[http://www.aia.org/static/state\\_local\\_resources/adv\\_sustainability/Model%20Language/Gainesville\\_ordinance.pdf](http://www.aia.org/static/state_local_resources/adv_sustainability/Model%20Language/Gainesville_ordinance.pdf)

## **C7 COMMUNITY EDUCATION.**

**Requirement:** Publicize green building case studies through the local government's website, printed material television/radio commercials, or otherwise, create and distribute publicity for the city/county green building program (if in effect) and/or green projects within the city/county. (1 point)

**Submittal:** Provide narrative of plans to publicize green building within the community and provide at least one example or draft of example.

**Benefit:** When green building takes place, many persons and organizations both directly related to the project as well as indirectly benefit. It is important to publicize efforts towards green building, as an incentive for those involved, as well as an effort to gain support and interest of others.

**Resources:** City of Gainesville Green Building Program  
[http://www.aia.org/static/state\\_local\\_resources/adv\\_sustainability/Model%20Language/Gainesville\\_ordinance.pdf](http://www.aia.org/static/state_local_resources/adv_sustainability/Model%20Language/Gainesville_ordinance.pdf)



## D – ECONOMIC DEVELOPMENT / TOURISM

The intent of this section is to promote resource conservation and appreciation of natural resources through revitalization, historic preservation, green local business programs and eco-tourism

### D1 SPUR ECONOMIC DEVELOPMENT THROUGH ECO-TOURISM.

**Requirement:**

- a) Create an eco-tourism campaign. Identify environmental attractions of the local area and develop an eco-tourism campaign as a form of economic development. (1 point)
- b) Track economic impact and/or participation in eco-related activities. Track tourism through hotel surveys or otherwise for activities such as fishing, hiking, biking, or attendance at eco-related festivals. (1 point)
- c) Provide training programs to support eco-tourism businesses and tour guides. (1 point)

**Submittal:** Provide a survey of local environmental attractions (parks, beaches, lakes, trails, etc.) and describe plans to promote such attractions to people visiting the area. Submit details of how local eco-tourism activities are tracked. Submit proof of training programs offered.

**Benefit:** Ecotourism is a growing interest of national and international visitors alike, and a successful campaign can improve economic development through increased tourism. By creating economic benefit from natural features there should be increased support for resource protection.

**Resources:** Volusia County ECHO Tourism Campaign  
<http://echotourism.com/>  
Visit Gainesville  
<http://www.visitgainesville.net/>

### D2 DOWNTOWN REVITALIZATION

**Requirement:** Achieve Florida Main Street Designation. Undertake process and actions required to be designated a Florida Main Street. Counties may achieve points by assisting at least one city with the process. (1 point)

**Submittal:** Submit copy of Florida Main Street designation, completed application package or a checklist of the principles implemented.

**Benefit:** Becoming a Florida Main Street shows the local government's commitment to management of downtown historic areas, and acts to both preserve and promote this feature to the community.

**Resources:** Florida Main Street Program  
<http://dhr.dos.state.fl.us/preservation/architecture/mainstreet/>

### D3 LOCAL BUSINESS INCENTIVES

**Requirement:**

- a) Offer incentives for location of green businesses to locate within city/county. Combine promotion of participation in the Florida Green Local Government Program with eco-friendly

business incentives in order to attract sustainable industry or businesses that employ sustainable practices to the local area. (1 point)

- b) Offer special promotion for local eco-hotels. Provide marketing incentives for local eco-hotels that have met the Florida Department of Environmental Protection Green Lodging Criteria. (1 point)
- c) Create or promote a green business certification program. Provide recognition to local businesses that operate on green building principles. (1 point)

**Submittal:** Develop and submit documentation describing specific incentives available for establishment of businesses/non-profits that specialize in green building products, services, education, or outreach. Describe how local eco-hotels or businesses are given promotional incentives.

**Benefit:** Establishing business incentives help attract sustainable businesses to the community that foster implementation and acceptance of green building, attract sustainably minded employees, and provide for community wide economic and environmental benefits.

**Resources:** Sustainable Sarasota Green Business Development Assistance  
<http://www.scgov.net/GreenBusiness/>  
Florida DEP Green Lodging Program  
<http://www.dep.state.fl.us/GreenLodging/>

#### **D4 REVITALIZE DISTRESSED AREAS**

**Requirement:**

- a) Offer incentives for green redevelopment. Either through the creation of redevelopment agencies or otherwise, create and offer incentives (tax based, building based, land based, etc.) for redevelopment of distressed areas via green development. (2 points)
- b) Establish Commercial façade improvement program. Provide property owners with financial assistance grants to improve the appearance of their properties in designated areas. Encourage the use of locally sourced and/or sustainable building materials. (1 point)

**Submittal:** Copy of proposed incentives, management plan, and baseline requirements for eligibility. Façade improvement program guidelines, eligibility requirements and application form. For existing programs, please submit documentation of successful program projects.

**Benefit:** Green redevelopment generally involves the local community and shows that the city/county considers the distressed area an integral part of the community, and desires that redevelopment plans ensure the continued sustainability of the area. Façade improvement programs are successfully being employed by many communities to achieve relatively inexpensive “facelifts” for distressed commercial areas. Federal funding, including CDBG funds, is available to support such programs.

#### **D5 HISTORIC PRESERVATION**

**Requirement:**

- a) Develop a historic preservation ordinance. Develop a register of historic buildings within the city/county, and create an ordinance designed to protect such properties. (1 point)

- b) Develop funding mechanism to aid with historic preservation. As a next step, budget funds to aid with protection of historic properties. (1 point)

**Submittal:** Submit language for ordinance, and/or details regarding acquiring and maintaining historic preservation funds.

**Benefit:** Preserving a community's history through protection of historic properties maintains appropriate land use and provides educational opportunities.

**Resources:** Historic Preservation info from the Florida Department of State  
<http://dhr.dos.state.fl.us/preservation/>

## **D6 GREEN BUILDING DESIGN STANDARDS AND PATTERN BOOKS**

### **Requirement:**

- a) Incorporate green building principles, such as walkable communities, Low Impact Development (LID), transit-oriented development, pedestrian connectivity and street trees, into local pattern books and design standards. Local pattern books and design standards offer a valuable opportunity for community planners to challenge developers to incorporate green building and sustainability principles into their projects. (1 point)
- b) Develop and implement a program to reward commercial and residential developers who incorporate green building principles into their developments. Reward developers who rise to this challenge by establishing a program to celebrate their efforts through public recognition programs and/or tax/impact fee abatement incentives. (2 point)

**Submittal:** Copy of local pattern book(s) and/or design standards that incorporate green building and sustainability principles.

**Benefit:** Local communities who specify the types of value-added features they prefer to see in development projects are more likely to get them, particularly if they reward developers through public recognition programs.

## E – EMERGENCY MANAGEMENT / PUBLIC SAFETY

The intent of this section is to reduce greenhouse gas emissions thorough use of alternative fuels, alternative forms of transportation, and green fleets. This section also includes credits specific to emergency management that relate to preservation and conservation of natural resources, and public safety through green practices. These credits are specific to emergency management services (Note green fleets for public transportation is in Section O and green fleets for passenger vehicles is in Section A). Note that some local governments contract for service such as police and waste. In these instances, the contracts with these entities must contain the requirement to claim the credits.

### E1 REDUCE GREENHOUSE GAS EMISSIONS.

#### Requirement:

- a) Use of AFV, bicycle patrol, or other means of transportation for urban/neighborhood areas. Police departments/neighborhood watch employ alternative fueled vehicles (AFV) and/or bicycles for light duty patrols. (1 point)
- b) Use renewable energy as backup/emergency power. Shelters and roving disaster assistance employ photovoltaics for some percentage of backup power rather 100% supplied by fossil fuel generators. (1 point)

#### Submittal:

- a) Submit details of vehicles used for light duty patrols.
- b) Describe use of renewable energy as backup/emergency power.

#### Benefit:

All activities are geared towards reducing release of pollutants to the atmosphere. Along with reducing air pollution, alternative vehicles often make patrols more accessible to the public.

#### Resources:

Ft. Lauderdale Police Department Bicycle Patrol

<http://info.ci.ftlaud.fl.us/police/bicycle.html>

US DOE Clean Cities Program

<http://www.eere.energy.gov/cleancities/>

Florida Space Coast Clean Cities Coalition

<http://www.clean-cities.org/>

Florida Gold Coast Clean Cities Coalition

<http://www.sfrpc.com/fgcccc.htm>

Florida Green Local Government Standard Fleet Management and Vehicle Maintenance Module

[http://floridagreenbuilding.org/files/1/File/Standard\\_Govt/FleetManagement.pdf](http://floridagreenbuilding.org/files/1/File/Standard_Govt/FleetManagement.pdf)

Photovoltaics for Disaster Relief

<http://www.floridaenergycenter.org/en/consumer/disaster/index.htm>

### E2 REDUCE SOLID AND HAZARDOUS WASTE.

#### Requirement:

- a) Maintain green fleets. Incorporate at least 75% of the applicable best management practices outlined in chapters C-M of the Florida Green Local Government Standard Fleet Management

and Vehicle Maintenance Module. One point per fleet (police, fire, etc.) is available. (1-3 points)

- b) Firing ranges utilize non-lead bullets or trap and collect fragments. All firing ranges use non-lead (ceramic) bullets or employ a means to reclaim lead before entering ecosystem. (1 point)

**Submittal:**

- a) Describe the green fleet program used for emergency vehicle purposes.
- b) Submit documentation of strategy employed to reduce lead resulting from firing ranges.

**Benefit:**

Stewardship towards pollution prevention activities is often ignored in departments that deal with emergencies/public safety. Certain simplistic measures can be employed to improve the environmental performance of such departments.

**Resources:**

Florida Green Local Government Standard Fleet Management and Vehicle Maintenance Module and Posters

FL Department of Environmental Protection Lead Management at Florida Shooting Ranges  
<http://www.dep.state.fl.us/waste/categories/hazardous/pages/lead.htm>

US Army Environmental Center Small Arms Range Technology  
<http://aec.army.mil/usaec/technology/rangexxi03.html>

National Park Service Firing Range Waste Management  
<http://www.nps.gov/archive/grca/compliance/firing-ranges.htm>

US EPA Photo Processing Information  
<http://www.epa.gov/epaoswer/hazwaste/id/infocus/photofin.pdf>

FL DEP Photo Shop Hazardous Waste Management  
[http://www.dep.state.fl.us/waste/quick\\_topics/publications/shw/hazardous/photoshops04.PDF](http://www.dep.state.fl.us/waste/quick_topics/publications/shw/hazardous/photoshops04.PDF)

### **E3 FIRE DEPARTMENT TRAINING WATER CONSERVATION**

**Requirement:** Fire departments review training operations and conserve water where appropriate. Where procedure allows, training exercises are configured to collect and reuse water. Consider the use of wells and dry hydrants. (1 point)

**Submittal:**

Describe strategy, system, or operation that allows water collection and reuse during training activities.

**Benefit:**

Stewardship towards water conservation is often ignored in departments that deal with emergencies/public safety. Certain simplistic measures can be employed to improve the environmental performance of such departments.

**Resources:**

Virginia Department of Forestry: Dry Hydrants  
<http://www.dof.virginia.gov/fire/dry-hydrants.shtml>

## E4 INCENTIVES FOR DISASTER MITIGATION

**Requirement:** Emergency management teams with appropriate sources to offer rebates or low interest loans for mitigation upgrades applied to new and existing commercial and residential buildings. Example of disaster mitigation include sealing attics to mitigate water intrusion and uplift, anchoring exterior structures/equipment, improving tie downs of house trusses and foundation, bracing gable roofs, purchasing hurricane shutters, and adding secondary water protection when re-roofing (1 point).

**Submittal:** Submit details of incentive program and dollar amounts available.

**Benefit:** Providing a mechanism that assists the public enhance the durability of the built environment may lessen the local government's risk during disasters.

**Resources:** City of Deerfield Beach "Operation Open for Business Program"  
[http://www.floridadisaster.org/brm/Mit\\_Success/ms\\_broward\\_deerfield\\_beach\\_showc.htm](http://www.floridadisaster.org/brm/Mit_Success/ms_broward_deerfield_beach_showc.htm)

## E5 COMMUNITY EDUCATION

**Requirement:**

- a) Provide and promote resources for self-audits - to homes, businesses, and local government buildings to increase building durability. Alternatively, Emergency Management conducts free or low-cost audits of buildings to identify opportunities for mitigation. (1 point)
- b) Create an education campaign for mitigation to increase community knowledge of mitigation features. (1 point)

**Submittal:**

- a) Provide details of building audit program.
- b) Submit elements of education campaign including advertisements for courses, course agendas, or demonstration activities at local shelters.

**Benefit:** Providing outreach to the local community may assist with actual implementation of disaster mitigation within the local built environment.

**Resources:** City of Deerfield Beach "Operation Open for Business Program"  
[http://www.floridadisaster.org/brm/Mit\\_Success/ms\\_broward\\_deerfield\\_beach\\_showc.htm](http://www.floridadisaster.org/brm/Mit_Success/ms_broward_deerfield_beach_showc.htm)  
US FEMA Mitigation Division Education Information  
<http://www.fema.gov/about/divisions/mitigation.shtm>

## E6 STAFF TRAINING.

**Requirement:**

- a) Police and appropriate staff (such as planning departments) are trained in crime prevention through environmental design. Appropriate law enforcement personnel required to attend one-time course in crime prevention through environmental design (CPTED) and/or "Street Design Guidelines for Healthy Neighborhoods". Personnel should be available to answer

questions to the community and be available to advise on projects. The local government shall provide information and audit checklist for community use. (1-3 point).

- b) Public safety staff attends training on Healthy Street design. "Complete Street" Design encourages pedestrian access through the use of narrow streets while the design still enables access to emergency vehicles. (1 point)

**Submittal:** Details of courses provided, agendas, and instructor.

**Benefit:** Often, environmental stewardship is ignored when it comes to crime protection and public safety. With proper training and experience, knowledge of environmental issues can actually enhance crime prevention and public safety.

**Resources:** CPTED Handbook  
<http://www.cpted-watch.com/>  
CPTED training  
[http://www.nicp.net/cpted\\_conference.htm](http://www.nicp.net/cpted_conference.htm)  
FL Department of Transportation Walkable Communities: 12 steps to an Effective Program  
[http://www.dot.state.fl.us/safety/ped\\_bike/brochures/pdf/12STEPS.PDF](http://www.dot.state.fl.us/safety/ped_bike/brochures/pdf/12STEPS.PDF)  
Healthy Street Design Training  
<http://www.walkable.org/services.htm>  
Traffic Calming.org  
<http://www.trafficcalming.org/>

## F – ENERGY EFFICIENCY, CONSERVATION AND SUPPLY

### MUNICIPAL ELECTRIC UTILITIES

Local governments with their own municipal utilities shall make this section of the category applicable. Those local governments in the territory of an Investor Owned Utility (IOU) will make this category not applicable and instead complete the next section. The intent of this section is to improve the resource efficiency of power generators/utilities.

### F1 REDUCE GREENHOUSE GAS EMISSIONS THROUGH RENEWABLE ENERGY AND ENERGY EFFICIENCY

#### Requirement:

- a) Offer power generated from renewable resources. Acquire green power generation capability and offer to interested customers. (1 point for 1%, 2 points for 3% of generation; 3 points for 5% of generation)
- b) Certify renewable electricity products under Center for Resource Solutions. Additional points available for certification of green power under Center for Resource Solutions' Green-E program. (1 point)
- c) Voluntary funding of green power through customer billing. If in pursuit of green power capability, points are available for allowing customers to voluntarily fund efforts through bill donations. (1 point)
- d) Become an Energy Star partner. Points are also available for promoting energy efficiency on the demand side by becoming a US EPA Energy Star Partner. (1 point)

#### Submittal:

- a) Describe green power generation capacity and any cost difference to consumers compared to standard generation.
- b) Submit proof of participation in Green-E program.
- c) Describe elements of consumer funding effort to acquire future green power.
- d) Copy of EPA Energy Star ally application.

#### Benefit:

Many customers desire green power as an alternative to conventional power generation and are willing to contribute to the effort through monetary donations, or increased rates. Becoming an Energy Star partner shows the utility's commitment to reducing greenhouse gas emissions.

#### Resources:

U.S. Environmental Protection Agency – Green Power Partnership

<http://www.epa.gov/greenpower/buygp/index.htm>

U.S. Environmental Protection Agency – Green Power Market

<http://www.epa.gov/greenpower/gpmarket/index.htm>

Gainesville Regional Utilities Green Energy

<http://www.gru.com/OurEnvironment/GreenEnergy/gruGreen.jsp>

Green-E Renewable Energy Certification Program

[http://www.green-e.org/getcert\\_re.shtml](http://www.green-e.org/getcert_re.shtml)

Energy Star Partner Information for Regional Utilities

[http://www.energystar.gov/index.cfm?c=join.reps\\_agree](http://www.energystar.gov/index.cfm?c=join.reps_agree)



Database of State Incentives for Renewables & Efficiency

<http://www.dsireusa.org/>

Property-Assessed Clean Energy (PACE) Programs

<http://www1.eere.energy.gov/wip/solutioncenter/financialproducts/PACE.html>

## F2 REDUCE WASTE

### Requirement:

- a) Recycle waste ash and seek end users for waste products. Examples include partnering with the Southern Waste Information Exchange (SWIX). (1 point) Note: this point is not applicable if the utility does not have coal generation)
- b) Enable customers to make online bill payments or utilize recycled paper in billing documents. All customer billing should include post-consumer recycled content or allow customers to elect an online bill payment option whereby no paper mailing is sent. (1 point)

### Submittal:

- a) Describe recycling efforts.
- b) Provide internet site of online bill pay system or submit example paper.

### Benefit:

Pollution prevention and waste management activities can save money for the utility and minimize solid waste.

### Resources:

Southern Waste Information Exchange

<http://www.wastexchange.org>

Gainesville Regional Utilities Fly Ash Recycling

<http://www.gru.com/OurEnvironment/CorporateRecycling/flyash.jsp>

Jacksonville JEA Bill Pay Options

<http://www.jea.com/customer/payment/index.asp>

Gainesville Regional Utilities Bill Pay Options

<http://www.gru.com/YourHome/AboutYourBill/paymentoptions.jsp>

## F3 INCENTIVES TO REDUCE ENERGY USE.

### Requirement:

- a) Offer distributed generation incentives. Incentives and assistance should be made available for customers who wish to use photovoltaics, or other types of onsite energy production. Incentives include co-purchasing/co-ownership of equipment, net metering, etc. (1 point)
- b) Offer energy audits. Free/discounted energy audits should be made available either through in-house utility staff or outside contractors for qualifying commercial and residential customers. (1 point)
- c) Offer commercial building energy efficiency incentives. Commercial building incentives such as lighting incentives, insulation upgrades, efficient equipment rebates etc. should be made available to qualifying customers. (1 point)

- d) Offer residential building energy efficiency incentives. Residential building incentives such as lighting incentives, insulation upgrades, efficient equipment rebates etc. should be made available to qualifying customers. (1 point)
- e) Rate structures based on consumption. Structure usage rates to discourage over consumption by allowing charges to increase with increasing energy use. (1 point)

**Submittal:** Provide documentation of energy audits, incentives and rate structure.

**Benefit:** Offering incentives to the community to reduce energy usage can help provide energy security for the city/county.

**Resources:** Gainesville Regional Utilities Solar Rebate Program  
<http://www.gru.com/OurEnvironment/GreenEnergy/solar.jsp>  
 Gainesville Regional Utilities Dual Metering Program  
<http://www.gru.com/OurEnvironment/GreenEnergy/dualMetering.jsp>  
 Jacksonville JEA Solar Incentive Program  
<http://www.jea.com/services/electric/solar.asp>  
 New Smyrna Beach Utilities Commission Energy Audits  
<http://www.ucnsb.net/electric/energy-audit.aspx>

#### **F4 COMMUNITY EDUCATION.**

**Requirement:**

- a) Develop informative billing that educates customers about current and past usage. (1 point)
- b) Actively engage staff in promoting energy efficiency through speaking opportunities, or sponsor others to conduct workshops. (1 point)
- c) Develop and post emission information in an “environmental report” on a website that details process of power production including raw materials consumed, processing specifics, and emissions information. (1 point)
- d) Develop an online system whereby customers can track and analyze their usage via the internet, access account history and evaluate performance based on other users with similar characteristics. (1 point)
- e) Initiate a community-wide energy efficiency challenge and offer suggestions for users to reduce usage. Create or utilize a program such as EPA’s Energy Star Portfolio Manager to encourage energy management and conservation. Earn 1 point for a residential campaign and an additional point for a commercial challenge. (2 points)

**Submittal:**

- a) Submit copy of an example bill.
- b) Submit names and qualifications of utility employees willing to take part in a speakers bureau, and topics they would be willing to discuss, or examples of sponsored workshops.
- c) Provide internet link where one would find utility emissions info.
- d) Provide internet link to website where customers can gain access to energy usage information.

e) Provide a website link or a program description of the energy challenge.

**Benefit:** A strategic means to encourage conservation is to actively take part in consumer education.

**Resources:** Jacksonville JEA Billing information  
<http://www.jea.com/customer/mybill/page1-front.asp>  
Jacksonville JEA Workshops  
<http://www.jea.com/business/services/devandbuild/workshop.asp>  
Jacksonville JEA Speakers Bureau  
<http://www.jea.com/community/education/teacher/speaker.asp>  
Gainesville Regional Utilities Customer Account Information  
<http://www.jea.com/community/education/teacher/speaker.asp>  
BOMA: Building Owners and Managers Association  
<http://www.boma.org/getinvolved/7pointchallenge/Pages/default.aspx>  
EPA Energy Star Portfolio Manager  
[http://www.energystar.gov/index.cfm?c=evaluate\\_performance.bus\\_portfoliomanager](http://www.energystar.gov/index.cfm?c=evaluate_performance.bus_portfoliomanager)

## **F5 STAFF EDUCATION.**

**Requirement:**

- a) Send appropriate utility staff for training related to distributed generation. (1 point)
- b) Send appropriate utility staff for energy audit training. (1 point)

**Approach:** Such courses include Installation of Grid Connected Photovoltaics and Certified Energy Rater training.

**Submittal:** Submit details of courses to be attended, and names/numbers of personnel that have or will be trained by such courses.

**Benefit:** Having staff trained in such areas will streamline future adoption of various conservation programs.

**Resources:** Florida Solar Energy Center Continuing Education  
[http://www.floridaenergycenter.org/en/education/cont\\_ed/index.htm](http://www.floridaenergycenter.org/en/education/cont_ed/index.htm)

## **COMMUNITIES WITH AN INVESTOR OWNED UTILITY (IOU)**

Local governments in the territory of an investor owned utility shall make this section of the category applicable. Those local governments with a municipal electric utility will make this category not applicable and instead complete the section above. If you can show that the IOU or another organization provided these services, then the local government can make them not applicable by submitting documentation of that service.

## **F6 INCENTIVES TO REDUCE ENERGY USE**

**Requirement:**

- a) Offer financing assistance for improving energy efficiency and the installation of renewable energy sources on residential and/ or commercial properties. Incentives and assistance should be made available for customers who wish to use photovoltaics, or other types of onsite energy production. Incentives include co-purchasing/co-ownership of equipment, net metering, etc. (1 point)
- b) Offer free/discounted energy audits through in-house staff or outside contractors for qualifying commercial and residential customers. (1 point)
- c) Offer commercial building incentives such as lighting retrofit incentives, insulation upgrades, efficient equipment rebates etc. should be made available to qualifying customers. (1 point)
- d) Offer residential building incentives such as lighting efficiency incentives, insulation upgrades, efficient equipment rebates etc. to qualifying customers. (1 point)

**Submittal:** Provide list of incentives offered to commercial and residential structures, requirements to earn the incentives. Provide a list of energy auditors available and documentation of free or discounted program.

**Benefit:** Offering incentives to the community to reduce energy usage which can help provide energy security for the city/county.

## **F7 COMMUNITY EDUCATION**

### **Requirement:**

- a) Staff provides educational programs promoting energy conservation, energy efficiency and renewable energy. (1 point)
- b) Develop and post an “environmental report” on a website that details the investor owned utility’s process of power production including emissions information. (1 point)
- c) Create or utilize a challenge-based program to encourage energy management and conservation. Earn 1 point for a residential campaign and/or a point for a commercial challenge. Use of tools like EPA’s Energy Star Portfolio Manager could be valuable. (2 points)
- d) Points are also available for promoting energy efficiency on the demand side by becoming a US EPA Energy Star ally. (1 point)

### **Submittal:**

- a) Submit proof of speakers’ bureau program and/ or examples of workshops.
- b) Provide internet link where one would find utility emissions info.
- c) Provide a website link or a program description for energy challenge.
- d) Copy of EPA Energy Star ally application.

**Benefit:** A local government can play a role in energy education.

**Resources:** BOMA: Building Owners and Managers Association  
<http://www.boma.org/getinvolved/7pointchallenge/Pages/default.aspx>  
 EPA Energy Star Portfolio Manager  
[http://www.energystar.gov/index.cfm?c=evaluate\\_performance.bus\\_portfoliomanager](http://www.energystar.gov/index.cfm?c=evaluate_performance.bus_portfoliomanager)

Energy Star Partner Information for Regional Utilities  
[http://www.energystar.gov/index.cfm?c=join.reps\\_agree](http://www.energystar.gov/index.cfm?c=join.reps_agree)

## G – HOUSING AND HUMAN SERVICES

The intent of this section is to improve the resource efficiency of the affordable housing building stock by renovating or constructing green affordable housing. Local governments that do not own affordable housing units or do not provide 50% or more funding contribution to non-profit organizations building affordable housing, shall make the public construction and renovation components of this category inapplicable. If marking credits as not applicable, the local government will provide as a part of their submission an explanation of how affordable housing is provided in their community, the organizations/jurisdictions responsible with justification of why the submitting local government does not need to duplicate the other effort.

### G1 PROVIDE GREEN AFFORDABLE HOUSING TO THE COMMUNITY.

**Requirement:**

- a) Receive points for construction or renovation of affordable homes that achieve a third-party green home certification such as FGBC, NGBS or LEED. Renovated units must score at least 100 points on the Florida Green Home Standard or be certified by other applicable green standard. (1 point per for each 20% of affordable homes constructed over the previous 5 years that are certified green, maximum 5 points)
- b) Enact a policy requiring that any affordable homes are constructed and certified to achieve a third party green certification such as FGBC, NGBS or LEED (5 points for including all public and private affordable homes, 4 points for requiring any affordable housing project that received 50% or more city/county funding and 3 points for affordable housing constructed by the local government).
- c) Enact a policy requiring that any affordable homes are constructed to achieve a maximum confirmed HERS score of 70. (3 points for including all public and private affordable homes, 2 points for requiring any affordable housing project that received 50% or more city/county funding and 1 points for affordable housing constructed by the local government)

**Submittal:** Submit copies of Green Home Standard Certificates or completed Green Home Checklists for renovated units.

**Benefit:** Certified green homes help the local government’s environmental goals, and provide healthy, efficient, and durable living environments for the occupants.

**Resources:** Florida Green Home Standard Designation:  
<http://www.floridagreenbuilding.org/homes>  
Alachua County Housing Authority Green Affordable Home

### G2 INCENTIVIZE AFFORDABLE HOUSING

**Requirement:**

- a) Offer incentives for construction of certified green affordable housing. Example incentives include reduced impact or connection fees, tax incentives, permitting incentives or other incentives that equate to at least \$500 per housing unit. (1 point)
- b) Offer incentives (minimum equivalent of \$300) for location efficient affordable housing. Location efficient is defined as meeting the following criteria. Within ¼ mile of mass transit, within 1/8 mile of existing infrastructure tie ins, within ½ mile safe walk to existing basic

community services such as: grocery store, place of worship bank beauty shop, community center, fire station daycare, library, medical offices, school, etc. (1 point).

**Submittal:** Submit copy of incentive program.

**Benefit:** Certified green and location efficient homes not only help with the local government's environmental goals, but also provide healthy, efficient, and durable living environments for the occupants.

**Resources:** Florida Green Home Designation Standard  
<http://www.floridagreenbuilding.org/>  
City of Gainesville Green Building Program  
<http://fyn.ifas.ufl.edu/materials/gainesville%20-%20greenbuildingprogram.pdf>

### **G3 IMPROVE CURRENT STOCK OF AFFORDABLE HOUSING.**

**Requirement:** Remodeling of affordable housing mandated green. Mandate that the renovated units score at least 100 points on the Florida Green Home Standard. (1 point)

**Submittal:** Submit copy of mandate/ordinance/incentive program.

**Benefit:** Certified green and location efficient homes not only help with the local government's environmental goals, but also provide healthy, efficient, and durable living environments for the occupants.

**Resources:** Florida Green Home Designation Standard  
<http://www.floridagreenbuilding.org/homes>

### **G4 COMMUNITY EDUCATION.**

**Requirement:** Offer orientation classes for residents of affordable housing or refer to existing courses. Organize and deliver homeowner orientation class to be given to residents that covers important green maintenance and operational aspects of residential housing such as thermostat operation, HVAC filter replacement, and light bulb replacement. Alternatively, existing courses such as the Florida Energy Extension Service "Buy Green and Save" can be leveraged. (1 point)

**Submittal:** Submit copies of course agenda and attendance.

**Benefit:** True benefits of green housing are only realized when the occupants understand how their activities interact with the design of the building.

**Resources:** Florida Energy Extension Service  
<http://www.energy.ufl.edu/>

## **G5 STAFF EDUCATION.**

**Requirement:** All housing related staff to complete equivalent of four hours of CEU approved course in green building on a semi-annual basis. (Note these points are offered in Section L: Planning and zoning and may only be claimed in both locations if individuals from both departments comply.) Several green building courses are offered on a regular basis throughout the state such as the University of Florida's Build Green and Profit course, and the Florida Solar Energy Center's Failure Proof Building series. This course, as well as others, can also be brought to your specific location. (1 point)

**Submittal:** Submit titles and agendas of courses taken, and number of staff who attended.

**Benefit:** Educating staff on green building can assist with implementation of the techniques when projects are specified, and staff can assist with necessary occupant education.

**Resources:** University of Florida Build Energy Extension Service  
<http://www.energy.ufl.edu/>  
Florida Solar Energy Center Building Science Training and Certification Center  
[http://www.floridaenergycenter.org/en/education/cont\\_ed/bldg/index.htm](http://www.floridaenergycenter.org/en/education/cont_ed/bldg/index.htm)



## H – HUMAN RESOURCES

The intent of this section is to improve the communication and implementation of resource efficient practices in local government operations. This section is structured --- to ensure staff are aware of internal policies and training opportunities available to them that will positively impact a local governments sustainability.

### H1 REDUCE GREENHOUSE GAS EMISSIONS

**Requirement:** Alternative commuting incentives for local government employees. Examples include acquiring free or discounted public transportation fees for local government employees, offering preferred (such as covered) parking for carpool users, or instituting a bonus system for employees who utilize alternative transportation, such a commuting via bicycle. A parking cash out program commuters who are offered subsidized parking are also offered the cash equivalent if they use alternative travel modes. (2 points) Additionally, earn 1 point for each 10% of employees allowed to telecommute. (up to 5 points)

**Submittal:** Describe the local government’s approach to providing an alternative commuting incentive.

**Benefit:** Providing an incentive for alternative commuting will encourage an increase of employees that participate, furthering goals of reducing air pollution.

**Resources:** Employer’s Commuting Guide  
<http://www.sfbike.org/?employers#incentives>  
California’s Parking Cash-Out Law  
<http://www.arb.ca.gov/planning/tsaq/cashout/cashout.htm>  
[FDOT ReThink Your Commute](http://www.rethinkyourcommute.com)  
<http://www.rethinkyourcommute.com>

### H2 REDUCE SOLID AND HAZARDOUS WASTE

**Requirement:**

- a) Provide new and existing employees with a reusable mug and water bottle. Do not provide disposable cups for employees.(1 point)
- b) Stock employee break room area with reusable dinnerware and utensils. Purchase reusable plates, bowls and utensils. Encourage the use of the reusable dinnerware during staff meetings and other employee gatherings (1 point)

**Submittal:** Provide photo of beverage container provided to employees.

**Benefit:** This strategy will enable employees to take an active role in the local government’s waste reduction goals.

### H3 STAFF EDUCATION.

**Requirement:**

- a) New employee orientation includes information on the local governments commitment to sustainability, details the local government’s commitment to the environment including

ordinances, policies and mandates, internal operations, and the Florida Green Local Government program (1 point)

- b) Conduct or refer to special training on one or more green local government programs. Require training specific to one or more of the local government's green programs such as an environmentally preferable purchasing (EPP) program, solid and hazardous waste management and recycling, or green fleet management. (1 point per required training program attended by department specific staff (or show how employee trained services multiple departments, maximum 5 points.)

**Submittal:** Provide copies of any printed material used for above mentioned education purposes or provide agenda to courses employees are referred to.

**Benefit:** New employees should be aware of local government's environmental goals and should be encouraged to participate.

**Resources:** North Carolina Department of Environment and Natural Resources Sustainability Orientation  
<http://www.enr.state.nc.us/files/policy-program.pdf>  
US EPA EPP Training Tool  
<http://www.epa.gov/epp/pubs/eppupdates/update7.pdf>

#### **H4 REWARD INNOVATION**

**Requirement:** Develop and promote a program for employee environmental innovation in local government operations. Create a forum/mechanism by which employees can make suggestions to enhance the environmental performance of operations, along with an awards or incentive program. (1 point)

**Submittal:** Describe the operation of the forum/mechanism.

**Benefit:** Often, due to their constant field involvement, employees can generate interesting and innovative ideas geared towards environmental stewardship that decision makers may overlook.

## I – INFORMATION SERVICES

The intent of the Information Services section is to promote efficiency in equipment and to increase the outreach of the local governments commitment to green practices through electronic means.

### I1 CONSERVE ENERGY AND RESOURCES THROUGH POLICY.

**Requirement:**

- a) Enact local government policy or IT Power Management system whereby all computer/ancillary equipment are turned off when not in use. Do not allow computers, copiers, printers, monitors, etc. to remain on when the equipment is not planned for use for at least 3 hours. Make use of graduated power reduction options (example: automatically turn off the monitor and hard drive after 10-20 minutes, then place the device in standby mode, and then full hibernation) (1 point)
- b) Institute an equipment purchasing policy requiring that at least 90% of purchases and leases must be EnergyStar or EPEAT® registered electronics, where device categories exist. Ensure all purchased equipment includes the latest conservation features and that these features are enabled. Prior to purchasing or leasing equipment, consult the EPEAT® online database and rating system for greener electronics. EPEAT®, the Electronic Product Environmental Assessment Tool, is a Department of Energy-endorsed global rating system for greener electronics that combines strict, comprehensive criteria for design, production, energy use and recycling with ongoing verification of manufacturer claims. (1 point)
- c) Institute a policy to centralize printing, thereby reducing equipment purchases and power usage. (1 point)

**Submittal:** Provide copies of applicable policies and provide verification that power-saving settings have been enabled by default on equipment.

**Benefit:** A significant amount of energy can be saved by purchasing or leasing equipment with energy conservation features and ensuring that they are utilized to their fullest extent. Networking and centralizing printing capability reduces equipment purchases and power use. EPEAT® is an easy-to-use resource that helps users identify environmentally preferable devices.

**Resources:** Energy Star for Government  
[http://www.energystar.gov/index.cfm?c=government.bus\\_government](http://www.energystar.gov/index.cfm?c=government.bus_government)

### I2 COMMUNITY EDUCATION

**Requirement:**

- a) Operate website dedicated to the green local government program. As a part of the local government website, dedicate a section, page, or area that details the local government's involvement in the green local government standard. At a minimum, the content should link to the standard documents, and detail what criteria is being incorporating to comply with the standard. (1 point)
- b) Develop environmental education content for city/county websites, TV programs, etc. Develop educational outreach elements for the local community, such as television programs, or website content. (1 point)

**Submittal:**

- a) Provide link to the green city/county program website.
- b) Provide examples of educational material.

**Benefit:**

Keeping citizens informed of the city/county's environmental progress will help with education and involvement of the local community.

**Resources:**

Sustainable Sarasota

<http://www.scgov.net/sustainability/>

Sustainable Alachua County

<http://www.sustainac.org/>

Miami-Dade Department of Environmental Resources Management

<http://www.co.miami-dade.fl.us/derm/>

Florida Green Local Government Standard Environmental Landscaping Video

### **13 STAFF EDUCATION.**

**Requirement:** Conduct regular education in partnership with Human Resources on energy use/energy savings modes for in-house computers and ancillary equipment. Conduct training on computer policy for new employees and develop printed material/web-based content that updates policy as features/needs change. Conservation features are effective only if used properly. (1 point)

**Submittal:**

Provide copy of memo, website, or other means used to educate employees on proper equipment usage.

**Benefit:**

Often times conservation features of equipment are not used properly, virtually negating their benefit.

**Resources:**

Energy Star for Government

[http://www.energystar.gov/index.cfm?c=government.bus\\_government](http://www.energystar.gov/index.cfm?c=government.bus_government)

## J – NATURAL RESOURCES MANAGEMENT / ENVIRONMENTAL PROTECTION

This section is applicable to all local governments and focuses on environmental protection.

### J1 PRESERVE/ENHANCE HABITAT.

**Requirement:**

- a) Become a designated Waterfronts Florida community. (1 point)
- b) Become an Audubon Sustainable Community. (1 point)
- c) Create an endangered lands conservation/purchasing program. Create a program that identifies and focuses on the preservation and/or purchase of endangered lands. (1 point)
- d) Certify community under National Wildlife Federation Wildlife Habitat program. (1 point)
- e) Develop and implement a plan for the removal of invasive species throughout public lands in the city/county. (1 point)

**Submittal:**

- a, b, d) Provide documentation of designation or certification in programs.
- c, e) Provide a description of the program/plan.

**Benefit:**

Habitat should be preserved and enhanced for the benefit of maintaining biodiversity, and for the general benefit of the community, and visitors to the community.

**Resources:**

Waterfronts Florida Partnership Program

<http://www.dca.state.fl.us/fdcp/dcp/waterfronts/index.cfm>

Audubon International Sustainable Communities

<http://www.auduboninternational.org/scp/>

Brevard County Environmentally Endangered Lands Program

<http://www.eelbrevard.com>

National Wildlife Federation Community Wildlife Habitat Program

<http://www.nwf.org/backyardwildlifehabitat/certifyyourcommunity.cfm>

Cool Houston! Urban Heat Islands Reduction Program

<http://www.epa.gov/heatislands/pilot/houston.html>

Brevard County Invasive Exotic Plant Removal

[http://www.brevardcounty.us/environmental\\_management/plants\\_nnips\\_home.cfm](http://www.brevardcounty.us/environmental_management/plants_nnips_home.cfm)

### J2 ENGAGE AND LEARN FROM OTHER SIMILAR DEPARTMENTS.

**Requirement:** Become a member of the Florida Local Environmental Resource Agencies (FLERA). Participate with the FLDEP in their environmental crimes task force. (1 point)

**Submittal:** Submit proof of membership /participation.

**Benefit:** Participating in such groups allows a local government to learn from the endeavors and activities of others.

**Resources:** Florida Local Environmental Resource Agencies  
<http://www.flera.org>

### **J3 MINIMIZE GREENHOUSE GAS EMISSIONS AND PRESERVE AIR QUALITY.**

**Requirement:**

- a) Create an incentive for alternative fueled vehicles (AFV) registered within county of at least \$100 per vehicle. (1 point)
- b) Enact automobile emissions regulations for vehicles registered in county. (1 point)
- c) Reduce emissions through retrofit of diesel vehicles. Require all gas stations within jurisdiction to utilize vapor controls on pumps. (1 point) Offer incentives to retrofit diesel vehicles such as buses and heavy equipment to reduce their emissions. Alternatively, offer incentives or purchase and install auxiliary power units (APUs) on older model Class 8 diesel trucks with sleeper berths.(1 point)
- d) Enact open burning regulations prohibiting the burning of yard wastes, household refuse, and recyclable material. (1 point)

**Submittal:** Submit copies of appropriate legislation, ordinance, mandate, project etc.

**Benefit:** Incentives, ordinances and leadership at the local level can be an effective way of curbing air pollution and can help prevent an area from being classified as non-attainment by the EPA.

**Resources:** Electric Vehicle Incentive Legislation  
[http://www.afdc.energy.gov/afdc/vehicles/hybrid\\_electric\\_laws.html](http://www.afdc.energy.gov/afdc/vehicles/hybrid_electric_laws.html)  
Sarasota County Open Burning  
<http://www.scgov.net/burnmap/burnmap.aspx>  
Florida Green Local Government Standard Green Fleet Management Module  
[http://floridagreenbuilding.org/files/1/File/Standard\\_Govt/FleetManagement.pdf](http://floridagreenbuilding.org/files/1/File/Standard_Govt/FleetManagement.pdf)  
Orange County School Bus Retrofits  
<http://www.orangecountyfl.net/cms/orangemedia/countynews/stories/1-29-09+-+Mayor+Crotty's+clean+school+bus+initiative.htm>  
Auxiliary Power Units  
[http://www.dep.state.fl.us/air/msc/mobile\\_sources.htm](http://www.dep.state.fl.us/air/msc/mobile_sources.htm)

### **J4 PRESERVE/ENHANCE HABITAT**

**Requirement:**

- a) Coastal areas enact and enforce a sea turtle ordinance dealing with appropriate lighting and controls. (1 point)
- b) Enact a manatee protection plan. (1 point)

- c) Develop a boat facility siting plan that evaluates all marinas on the basis of preservation of key habitat and endangered species (sea grass beds, manatees, etc.). (1 point)
- d) Adopt and implement a Green Infrastructure plan/manual to reduce the impacts of non-point source pollution on ground and surface water and the effects of flooding and storm surge on communities. (1 point)

**Submittal:** Submit copies of the ordinance/plan and verification of implementation.

**Benefit:** Such strategies will help the local government be a steward for marine wildlife and habitat.

**Resources:** Florida Fish and Wildlife Commission Sea Turtle Protection Program  
<http://www.myfwc.com/seaturtle/>  
 Florida Fish and Wildlife Commission Manatee Protection Program  
<http://www.floridaconservation.org/>  
 Sarasota County Manatee Protection Plan  
<http://www.co.sarasota.fl.us/EnvironmentalServices/ResourceProtection/MPP.asp>  
 Florida Fish and Wildlife Commission Boat Facility Siting Guide  
<http://www.dca.state.fl.us/fdcp/DCP/marinasiting/Boatsite0800.pdf>

## **J5 CONSERVE WATER**

**Requirement:**

- a) Collect and appropriately treat rainwater so that it may be used in lieu of municipally supplied potable water to replenish water using features such as public pools, fountains and water features. (2 points) **(Required practice)**
- b) Install automatic shut off connected to wind sensor that turns water features off in high winds. (1 point) Additionally, enact an ordinance, policy, mandate or code requiring all water features such as fountains have automatic shut offs connected to wind sensors. (1 point)
- c) Use astrological clock or timer to turn water features off during overnight hours. (1 point). Additionally, enact an ordinance, policy, mandate or code is enacted requiring all water features such as fountains have automatic shut offs connected to wind sensors. (1 point)

**Submittal:** Submit copies of appropriate ordinance, policy, mandate or code.

**Benefit:** By developing or implementing existing conservation strategies for such end uses of water, a significant amount of water can be saved.

**Resources:** Texas Water Utilities Association Vehicle Washing Tips  
[http://www.twua.org/p2/Tips/Vehicle\\_Washing.html](http://www.twua.org/p2/Tips/Vehicle_Washing.html)  
 US Environmental Protection Agency Source Water Protection Practices Bulletin  
[http://www.epa.gov/safewater/sourcewater/pubs/fs\\_swpp\\_deicinghighway.pdf](http://www.epa.gov/safewater/sourcewater/pubs/fs_swpp_deicinghighway.pdf)

## **J6 COMMUNITY EDUCATION.**

### **Requirement:**

- a) Make environmental GIS data and other data such as aerial photographs available on local government website. Include data such as the data points where water or air quality samples are collected and resulting water or air quality results. (1 point).
- b) Make available Air Quality Index on local government website (1 point)
- c) Make available water quality testing results on local government website. (1 point).
- d) Operate an environmental demonstration / learning center. Construct and operate a building/complex that focuses on education of environmental issues and ecosystem services. (1 point)

### **Submittal:**

- a-c) Submit appropriate web links to information.
- e) Provide a detailed description of the learning center, and educational programs/exhibits contained within.

### **Benefit:**

Educating the community on various environmental issues may increase awareness and public participation.

### **Resources:**

Sarasota County GIS Info

<http://gis.co.sarasota.fl.us>

St. Johns River Water Management District GIS Data

<http://www.sjrwmd.com/programs/data.html>

Sarasota County Air Quality Index

<http://www.scgov.net/aqi/aqi.aspx>

Orange County Water Quality

<http://www.orangecountyfl.net/topics/Lakes/Default.asp>

Brevard County Environmental Field Station

[http://www.brevardcounty.us/environmental\\_management/edu\\_field\\_station.cfm](http://www.brevardcounty.us/environmental_management/edu_field_station.cfm)

Florida House Learning Center

<http://sarasota.extension.ufl.edu/FHLC/FlaHouseHome.shtml>



## K – PARKS AND RECREATION

This section is applicable if the local government owns public green space and/or sports facilities. The intent is to improve the overall environmental performance and features of public green space while also providing education to the staff and community.

### K1 GREEN PUBLIC AMENITIES.

#### Requirement:

- a) Employ a system that continually monitors the chlorine concentration in public swimming pool so that the quantity of chlorine uses is minimized while complying with Department of Health regulations. The credit may also be used if the local government operates splash pads or other recreational water features. Credit not applicable if the local government does not own and operate such features. (1 point)
- b) Install appropriate bicycle racks at all applicable public amenities. (1 point)
- c) Certify municipally owned public golf courses using Audubon International. Credit is not applicable if the local government does not own a golf course. Alternatively, credit may be earned for a policy requiring that the private sector certifies new golf courses. (1 point for at least 1 course certified, 2 points for 100% of courses certified)
- d) Implement BMP green landscaping and irrigation standards, Florida Friendly Landscaping proper waterfront considerations, and integrated pest management at public amenities. (1 point)
- e) Minimize heat island effect / stormwater runoff of recreational areas through trees, highly reflective materials, or pervious surface. Choose pervious and/or reflective materials for parking lots, walkways, or other hardscape and utilize tree canopy. (1 point)
- f) Public beaches adhere to Blue Wave Campaign criteria listed below. Credit not applicable if the local government does not operate a public beach. (1 point)

#### 7 Blue Wave Ethics include:

- 1. Leave no trace (what you carry in, carry out)
  - 2. Move your body (walk, run or swim)
  - 3. Don't tread the dunes (use a walkover or walk-thru)
  - 4. Know your limits (swim, surf and boat safely)
  - 5. You are what you eat (eat healthy seafood)
  - 6. Feed your mind. (read a book)
  - 7. Respect the Ocean (riptides, storms, natural resources)
  - 8. Mind your space (observe social distancing)
- g) Implement recycling stations for plastic, glass, and aluminum beverage containers at all recreational areas. Place recycling containers adjacent to all trash receptacles. (1 point)
  - h) Implement energy efficient lighting and controls for outdoor stadiums, courts, parks, and playfields. Utilize energy efficient bulbs and fixtures. Lighting must be LED or induction lighting and install proper timer controls to ensure public field and stadium lights are not left on overnight. To claim this credit, a majority (>50%) of the facilities must use efficient lighting. (1 point).

#### Submittal:

- a) Provide cut sheet of alternative system used and how chlorine use is reduced.

- b) List all public amenities and representative number of photos indicate where bicycle racks are placed.
- c) Provide listing of all municipally owned public golf courses and provide certificates for ones that are Audubon certified. Alternatively, provide copy of policy requiring new private sector golf courses to get certified.
- d) Provide landscaping policy or application methods.
- e) Describe strategy to reduce the heat island effect and example photos.
- f) Submit policy and signage used to promote at beaches.
- g) Provide photo of appropriate recycling stations and locations.
- h) Submit appropriate policies for outdoor lighting purchasing and operations targeted at achieving energy conservation goals through appropriate outdoor lighting. Provide documentation/photos of current facility compliance.

**Benefit:** By “greening” public amenities, local government environmental goals are achieved, and the public is made aware of many of the strategies that can be used on their own private property.

**Resources:** University of Florida IFAS Starting a Community Garden  
<http://edis.ifas.ufl.edu/EP124>  
 Sarasota County Community Garden  
<http://sarasota.extension.ufl.edu/Hort/commgarden.shtml>  
 Salt Water Pool Systems  
[http://www.poolplaza.com/pool-school/salt\\_pools.shtml](http://www.poolplaza.com/pool-school/salt_pools.shtml)  
 Audubon International Signature Golf Course  
<http://www.auduboninternational.org/programs/acss/golf.htm>  
 Florida Friendly Landscaping Program  
<http://fyn.ifas.ufl.edu/>  
 Florida-Friendly Design Standards  
[http://www.floridaagwaterpolicy.com/PDF/Landscape\\_Irrigation\\_Florida\\_Friendly\\_Dsign.pdf](http://www.floridaagwaterpolicy.com/PDF/Landscape_Irrigation_Florida_Friendly_Dsign.pdf)  
 Florida Green Local Government Standard Environmental Landscaping Module  
[http://floridagreenbuilding.org/files/1/File/Standard\\_Govt/LandscapeMaintenance.pdf](http://floridagreenbuilding.org/files/1/File/Standard_Govt/LandscapeMaintenance.pdf)  
 Green Industries Best Management Practices  
<https://eces.ifas.ufl.edu/gibmp/>  
 Sarasota County Landscaping Ordinance  
<http://sarasota.extension.ufl.edu/Hort/WEL/ord/docs/ord.htm>  
 Cool Neighborhoods: The measurement of small scale heat islands  
<http://www.fsec.ucf.edu/en/publications/html/FSEC-PF-363-01/index.htm>  
 Alternatives to impervious pavement  
<http://www.uri.edu/> Search: Impervious  
 Blue Wave Campaign  
<http://www.cleanbeaches.org/bluewave/bluewave.cfm>

Energy Efficient Lighting

<http://www1.eere.energy.gov/consumer/tips/lighting.html>

Dark Sky Association

<http://www.darksky.org>

## **K2 STAFF EDUCATION**

**Requirement:** Each staff member trained in an area related to their function on a semi-annual basis. Take advantage of the multitude of green education offered by a local extension service by requiring staff attend courses and achieve applicable certification where available. Applicable courses and certifications include but are not limited to green building courses, Florida Friendly Landscape, and Green Industries Best Management Practices. (1 point)

**Submittal:** Submit names of staff members and title/agenda for courses they are scheduled for.

**Benefit:** Training staff in “green building” will enable them to design and implement green strategies in their daily activity.

## **K3 COMMUNITY EDUCATION**

**Requirement:** Place informative educational signs and/or brochures at green features in public amenities detailing their benefits. Individual signs/placards may be placed at each feature, or a collection of information can be made available in a central area or on a website for the amenity. (1 point)

**Submittal:** Submit examples of material of photos of material.

**References:** Florida Green Local Government Standard Environmental Landscaping posters

## L – PLANNING AND ZONING

This section is applicable to all local governments. The intent is to incorporate sustainability into the planning process and zoning requirements.

### L1 MONITOR AND TRACK GREEN BUILDING WITHIN THE CITY/COUNTY.

**Requirement:**

- a) Work with the sustainability coordinator or the green team to develop a system of a minimum of 10 sustainable community indicators that are specific to your local government/region. Example indicators include vehicle miles traveled per day, number of pedestrian trips made per day (no automobile used), pedestrian network coverage, percentage of green certified building, quantity of renewable energy in use, number of electric vehicles, proper solar orientation of streets, etc. (1 point)
- b) Link indicators to a GIS system. Achieve additional points for linking the indicators to a Geographic Information System for ease in assessing areas in need of attention. If linking via GIS is not appropriate for chosen indicators, provide other means of tracking and quantifying the indicators. (1 point).
- c) Assist other departments with the tracking of indicators related to their function. Utilize capabilities to assist other departments with the creation, tracking, and use of functionally related indicators. (1 point per department – max 5 points).

**Submittal:** Submit list of indicators used, and how they are used for planning purposes. Describe whether a GIS system is used in conjunction with those indicators, and whether the knowledge about such a system for planning has been extended to other departments.

**Benefit:** Tracking indicators related to green building can assist in setting future goals related to environmental stewardship within the city/county.

**Resources:** City of Jacksonville Community Indicators Report  
<http://www.jcci.org/>  
Florida Planning Toolbox  
<http://www.cues.fau.edu/toolbox/subchapter.asp?SubchapterID=97&ChapterID=2>

### L2 ENHANCE PEDESTRIAN TRAVEL WITHIN THE CITY/COUNTY TO REDUCE GREENHOUSE GAS

**Requirement:**

- a) Maintain a bicycle/pedestrian coordinator on staff. Bicycle pedestrian coordinator to be a full-time staff position and individual should be involved with review of all city/county planning. (1 point)
- b) Implement FDOT “12 Steps Towards Walkable Communities” into planning process. Minimize stormwater runoff and reduce greenhouse gas emissions by encouraging walkability and minimizing street width through adoption of FDOT program and/or “Street Design Guidelines for Healthy Neighborhoods” from Walkable Communities, Inc. (2 points).
- c) Healthy street design is official local government policy. Apply 8 of the 12 steps (1 point), and apply all 12 steps of a walkable community. (1 point)

**Submittal:**

- a) Submit name of staff member and brief job description.
- b) Describe how the FDOT recommendations are considered for planning purposes.
- c) Submit a description and examples of implemented practices, of “Street Design Guidelines for Healthy Neighborhoods”.

**Benefit:** By providing appropriate means of pedestrian travel, vehicle miles can be reduced, thereby assisting with prevention of air pollution.

**Resources:** Brevard County Bicycle/Pedestrian Program  
[http://www.brevardmpo.com/bike-ped-trails/Bike\\_Ped.htm](http://www.brevardmpo.com/bike-ped-trails/Bike_Ped.htm)  
FL Department of Transportation Walkable Communities: 12 steps to an Effective Program  
[http://www.dot.state.fl.us/safety/ped\\_bike/brochures/pdf/12STEPS.PDF](http://www.dot.state.fl.us/safety/ped_bike/brochures/pdf/12STEPS.PDF)  
Healthy Street Design  
<http://www.walkable.org/>

### **L3 GREEN BUILDING INCORPORATED INTO CITY/COUNTY PLANNING PROCESS.**

**Requirement:**

- a) Develop urban area boundaries. Limit sprawl by developing an urban area boundary that limits city infrastructure. (1 point) Maintain the urban service boundary without amendments between Comprehensive Plan cycles. (3 points)
- b) Encourage mixed-use zoning / development. Do not allow single-use zoning or subdividing for projects over 10 acres. (1 point)
- c) Maintain or reduce net impervious surface area through zoning decisions. Do not allow re-zoning that will increase the amount of impervious surface through new parking lots, etc., or permit the activity along with appropriate mitigation/controls. (1 point)

**Submittal:**

- a) Submit current and historical urban service boundary maps.
- b-c) Submit ordinance, policy, mandate or code related to mixed-use zoning and impervious surface.

**Benefit:** Making appropriate decisions when it comes to zoning and re-zoning can help achieve green local government goals by limiting sprawl, land clearing, wildlife habitat destruction and greenhouse gas production.

### **L4 STAFF EDUCATION**

**Requirement:** Organize green building seminars and/or training sessions for planning and zoning staff and elected officials to attend on a semi-annual basis or send staff to external courses. Arrange for speakers from other local governments or professional organizations to give in-house seminars or leverage other green building training opportunities for staff. These programs must be specific to implementing sustainability into planning and zoning. (1 point)

**Submittal:** Submit overview of seminars, including location, speakers, and agenda.

**Benefit:** Staff education on green building issues can foster new thinking when it comes to local planning.

**Resources:** Healthy Street Design Training  
<http://www.walkable.org/services.htm>  
Traffic Calming.org  
<http://www.trafficcalming.org>

## M – WATERWAY ACCESS

### PORTS AND MARINAS

Local governments that operate ports, marinas, public boat ramps and or parks with water access shall make this section of the category applicable. Applicability will vary depending on property and amenities owned by the local government.

#### M1 PRESERVE AQUATIC HABITAT.

**Requirement:**

- a) Become a designated Florida Clean Marina. Certify marinas under the Florida Department of Environmental Protection FLDEP Division of Law Enforcement Florida Clean Marina Program. (1 point)
- b) Implement advanced storm water controls and waterfront considerations such as landscaping for erosion control at ports, marinas and boat launches. Examples include pervious parking and other proper waterfront considerations such as landscaping for erosion control and contamination runoff at ports, marinas and boat launches. (1 point)

**Submittal:**

- a) Submit evidence of certification or completed program application.
- b) Submit details of advanced controls, and locations where implemented.

**Benefit:**

Designated Clean Marinas promote stewardship that protect the health and cleanliness of waterways in a manner that imposes less process on the effective operation of the marine industry.

**Resources:**

Florida’s Clean Marina Program  
<http://www.dep.state.fl.us/CleanMarina/>  
Florida Friendly Landscaping Program  
<http://fyn.ifas.ufl.edu/>  
[Management Measures for Marinas and Recreational Boating](http://water.epa.gov/polwaste/nps/czara/ch5-1.cfm)  
<http://water.epa.gov/polwaste/nps/czara/ch5-1.cfm>

#### M2 LOW POLLUTING ENGINES

**Requirement:** Offer incentives for customers using low polluting engines with environmental controls such as 4-stroke engines, or direct injection 2-stroke engines. For municipalities that harbor ports of call, incentives offered for vessel speed reduction of ships, enforcement of regulations for excessive smokestack emissions, incentives offered for ships using electrical power at berth (also called shore power or cold ironing) in lieu of diesel burning engines, incentives for ships to use low sulfur (0.2 percent sulfur or less) Marine Gas Oil (MGO) or Marine Diesel Oil (MDO) in main engines during their approach or departure, out to 20 or 40 nautical miles (nm) from Point Fermin, etc. Incentives could include reduced dockage rates, reduced port of call fees, priority debarkation, etc. (1 point)

**Submittal:** Provide details of incentive, including approximate dollar amount or equivalent, the emission reductions quantified and/or projected, and participation in the program.

**Benefit:** Tangible incentives can help offset the cost of advanced equipment encountered by end users.

**Resources:** [Port of Long Beach, CA Green Port Program](#)  
<http://www.polb.com/environment/air/vessels/>  
Clean Vessel Act  
<http://www.dep.state.fl.us/cleanmarina/CVA/default.htm>

### **M3 BOATER EDUCATION**

**Requirement:** Host boater education classes, display Clean Boating posters (or similar), provide information online and provide environmental educational materials or signage for boaters at waterway access points. Classes can include the DEP Florida Clean Marina Program, or elements thereof, endangered/threatened species protection, and protection of crucial habitat such as sea grass beds. Participate in National Marina Day or include a marina specific event during Earth Day. (1 point)

**Submittal:** Provide information on classes including speakers, agenda, and attendance figures. Submit electronic copy of posters or educational materials link/s, documentation, and photos regarding where materials have been posted or shared.

**Benefit:** In order to extend principles incorporated by the city/county, the public should be aware of various programs, and what roles they can play in ensuring success. Promote environmental stewardship.

**Resources:** Florida's Clean Marina Program  
<http://www.dep.state.fl.us/Cleanmarina/>  
[National Marina Day](#)  
<http://www.nationalmarinaday.org/>  
[Volusia County Environmental Management](#)  
<http://www.volusia.org/services/growth-and-resource-management/environmental-management/natural-resources/florida-manatee/>  
<http://www.volusia.org/services/growth-and-resource-management/environmental-management/natural-resources/marine-environment/>



## N – PROPERTY APPRAISER / TAX COLLECTOR

This section is applicable to all local governments that collect taxes on the built environment. The intent is to offer incentives for property owners to incorporate green building and sustainable development features.

### N1 MONITOR AND TRACK GREEN BUILDINGS FEATURES

**Requirement:** Include green features/ratings of homes, commercial buildings and/or developments in database. Include an indicator of environmental certification for each building within the public database and include specific features of the buildings or developments in the database. (2 points)

**Submittal:** Describe what features of homes, commercial building and development are identified in the database.

**Benefit:** Green features increase the market value of homes, commercial buildings and developments are beginning to influence home buyer decisions.

**Resources:** Florida Green Building Coalition Project Database  
<http://www.floridagreenbuilding.org/index.cfm/go/public.certifiedProjects>  
Florida Home Energy Ratings  
[http://dbase.fsec.ucf.edu/pls/engauge/rating\\_search](http://dbase.fsec.ucf.edu/pls/engauge/rating_search)

### N2 INCENTIVES FOR GREEN BUILDINGS AND DEVELOPMENTS.

**Requirement:**

- a) Offer tax incentives for certified green homes, commercial buildings and developments. When determining an assessed value of a home, an “environmental exemption” could be offered for homes and buildings certified under green or Energy Star standards such that the tax base is lowered, acting as an incentive. (2 points)
- b) Offer tax incentives for lands qualifying as historic, high water recharge, greenbelt, etc. (2 points)

**Submittal:** Describe how the “environmental exemption” and/or tax incentives are structured.

**Benefit:** Green homes benefit the entire community, due to their environmental performance. Tax based incentives is one way to foster construction/renovation of green homes within the community.

**Resources:** Florida Green Building Coalition Project Database  
<http://www.floridagreenbuilding.org/index.cfm/go/public.certifiedProjects>  
Florida Home Energy Ratings  
[http://dbase.fsec.ucf.edu/pls/engauge/rating\\_search](http://dbase.fsec.ucf.edu/pls/engauge/rating_search)

### **N3 INDUSTRY EDUCATION.**

**Requirement:** Green education to local lending / real estate industry. Offer courses to city and county officials, realtors, bank appraisers, and or other local lending professionals on the benefits of green features and green properties. (1 point).

**Submittal:** Provide details of courses developed in house, or external courses referred to.

**Benefit:** Realty, appraisal and lending professionals need to know the inherent benefits of green features, to accurately account for their value in the marketplace.

**Resources:** Appraisal Journal Article on Market Value of Energy Efficiency  
<http://www.appraisalinstitute.org/library/bok/highperformance.pdf>  
Appraisal Institute Form 820.04: Residential Green and Energy Efficient Addendum  
<http://www.appraisalinstitute.org/education/downloads/ai-reports/AI-82004-res-green-energy-eff-addendum.pdf>  
Florida Energy Extension Service  
[http://www.floridaenergy.ufl.edu/?page\\_id=278](http://www.floridaenergy.ufl.edu/?page_id=278)

### **N4 ENGAGEMENT WITH PROPERTY APPRAISER/TAX COLLECTOR BY LOCAL GOVERNMENT**

**Requirement:** Conduct an annual workshop with Property Appraiser/Tax Collector staff to encourage advancement of sustainability efforts. (1 point)

**Approach:** Organize regularly conducted meetings with Property Appraiser/Tax Collector to build communication channels that encourage tracking green buildings, promote incentives for green certification, and foster collaboration on implementing the goals of this Standard and educating the Property Appraiser/Tax Collector staff on the benefits of sustainability.

**Submittal:** Minutes and attendance roster of annual meeting

**Benefit:** Communication and collaboration among local government entities to advance shared sustainability goals.

## O – PUBLIC TRANSPORTATION

This section is applicable to all local governments. Some points may be not applicable if specific services, such as busses, are not provided by the government entity. If the government contracts a service from a private provider, the credits are applicable.

### O1 REDUCE GREENHOUSE GAS EMISSIONS.

#### Requirement:

- a) Utilize alternative fuels for fleets that serve public transportation. Operate and maintain a bus fleet that runs on an alternative fuel such as CNG or biodiesel. At least 5% of the total bus fleet must run on alternative fuel to qualify under this activity. Systems in which 5%-25% of buses utilize alternative fuel qualify for 1 point; fleets where alternative fuel vehicles comprise greater than 25%. (2 points)
- b) Institute a bicycle sharing program. Develop and maintain a free or low-cost bicycle-sharing program for select areas of the community. Program must provide a minimum of 30 bicycles daily for public use. (1 point)
- c) Make provisions for transit vehicles to accommodate bicycles. Ensure that a minimum of 50% of the transit vehicles in the public transportation fleet can store bicycles on board. (1 point)
- d) Engage in carpool/vanpool assistance. Provide a well-advertised service that facilitates ride sharing within the city/county, such as carpool or vanpool assistance that includes local transit service and park-and-ride schedule information. (1 point)
- e) Implement and enforce carpool or express bus lanes. (1 point) Additionally, dedicate a lane of traffic for vehicles with multiple passengers during peak hours and/or exclusive bus lanes, with a system of enforcement for these lanes (1 point)
- f) Provide express bus service to the suburbs. Provide satellite transit for suburban areas to travel downtown via express bus. (1 point)
- g) Operate a full-service public transportation system. Operate and maintain a public transportation system consisting, at a minimum, of 20 full-size buses. Transit systems with 20-100 buses = 1 point; greater than 100 buses = 2 points; fixed rail passenger service = 3 points.
- h) Provide a local trolley-type service for your community. Trolley service must comprise 5 or more transit vehicles operating a minimum of 5 days/week. Route system should link governmental, medical, shopping and major employment centers in the community, plus make every effort to connect with regional transit stations/stops. (1 point)

#### Submittal:

- a) Submit number and types of vehicles using alternative fuels, and fuel type chosen. Also size of entire transit fleet.
- b) Describe elements of bicycle-sharing program including bicycle station locations, days/hours of service, # of bicycles available for daily use, and # of bicycles used per month in past 12 months
- c) Submit photo of features that allow public transportation to accommodate bicycles. Also, total fleet size and # of buses capable of transporting bicycles.

- d) Submit a website link or flyer detailing ride sharing programs and # of riders using the programs within the past 12 months. Also, summary of media outlets utilized and # of published notices advertising program availability to the community.
- e) Provide photographs of the subject lanes and signage along with area map showing the location of all carpool and/or exclusive bus lanes. In addition, submit hours of operation, enforcement system description and information addressing enforcement effectiveness.
- f) Provide operational details for the suburban-to-downtown express bus service.
- g) Submit documentation of the transit system history, current route system, # of vehicles and ridership in the past year.
- h) Provide documentation of the trolley system history, current route system, # of vehicles and ridership in the past year.

**Benefit:** Alternative fuels significantly reduce the amount of air pollution generated by a city/county. Encouraging bicycle transportation and carpooling can help reduce traffic, private vehicle miles traveled and air pollutants. Public transportation systems and local trolley services are much more energy efficient in terms of moving people than the automobile and vital to the local transit-dependent population.

**Resources:** Florida Green Local Government Standard Fleet Management and Vehicle Maintenance Module  
[http://floridagreenbuilding.org/files/1/File/Standard\\_Govt/FleetManagement.pdf](http://floridagreenbuilding.org/files/1/File/Standard_Govt/FleetManagement.pdf)  
 Portland, OR Community Cycling Center Programs  
<http://www.communitycyclingcenter.org/index.php/on-the-road-with-cycle-oregon008-2/>  
 MN Bike Sharing Program  
<https://www.niceridemn.org/>  
 Gainesville Bikes on Buses  
<http://www.go-rts.com/bikes.html>  
 Space Coast Area Transit Car Pool Matching  
[http://www.ridescat.com/forms/commuter\\_info\\_request.php](http://www.ridescat.com/forms/commuter_info_request.php)  
 Commuter Financial Incentives  
<http://www.vtpi.org/tm/tm8.htm>

## O2 ANALYZE TRANSPORTATION ROUTES

### Requirement:

- a) Using GIS or other means, analyze the public transportation route system to determine connectivity to the bicycle and pedestrian network (1 point)
- b) Prepare and adopt a bicycle and pedestrian network improvement plan. The plan should include a specific 5-year capital improvement program with realistic funding sources identified. Make bicycle and pedestrian paths available to at least 50% of neighborhoods to business districts and to schools and colleges (1 point)
- c.) Implement the bicycle and pedestrian network capital improvement plan. Completion of 10%-50% plan projects in terms of new route miles (1 point); greater than 50% completion (2 points)

- d) Provide weather-resistance shelters at a minimum of 10% of total bus stops. If 10%-50% of stops have weather-resistant shelters, then 1 point is applicable; greater than 50% = 2 points.

**Submittal:**

- a) Submit overview of study, and degree of connectivity to bicycle and pedestrian network. In addition, provide a map showing deficiencies in the network.
- b) Copy of bicycle and pedestrian network improvement plan.
- c) Documentation of capital projects completed; miles of new bicycle and pedestrian routes; # of new route miles proposed by the entire 5-year capital program.
- d) Provide information showing # and location of all bus stops, and # equipped with weather-resistant shelters. In addition, submit pictures of the shelters and details on weather resistant features.

**Benefit:**

Sometimes small changes in public transportation routes can enhance ridership, especially if stops are easily accessible on foot or bicycle. Weather-resistant bus shelters can make the transit experience more comfortable and healthier for riders, plus increase ridership.

**Resources:**

City of Tallahassee Bicycle/Pedestrian Program  
<http://www.crtpa.org/html2/bikeped06.htm>

### **O3 GREEN FLEET SOLID AND HAZARDOUS WASTE REDUCTION**

**Requirement:** Public transportation fleet incorporate at least 75% of the applicable best management practices outlined in chapters C-M of the Florida Green Local Government Standard Fleet Management and Vehicle Maintenance Module into the public transportation fleet. (1 point)

**Submittal:**

Green Fleet checklist and a copy of the green fleet management plan highlighting applicable practices.

**Benefit:**

Green fleets significantly reduce the generation of solid and hazardous waste by the local government.

**Resources:**

Florida Green Local Government Standard Fleet Management and Vehicle Maintenance Module  
[http://floridagreenbuilding.org/files/1/File/Standard\\_Govt/FleetManagement.pdf](http://floridagreenbuilding.org/files/1/File/Standard_Govt/FleetManagement.pdf)

### **O4 COMMUNITY EDUCATION.**

**Requirement:**

- a) Provide public transportation route searching via the internet. Operate a website where routes are displayed. Another approach would allow citizens to determine an available public transportation route by entering a starting point and ending destination. (2 point)
- b) Provide information about alternative commuting on website. Provide content that suggests and explains other methods of commuting, such as bicycle commuting or carpools (1 point)
- c) Conduct school workshops on benefits of alternative transportation options. Make presentations and/or conduct workshops in the schools to inform young people about the

benefits of alternative transportation modes. A minimum of 4 presentations and/or workshops must be completed within the most recent 24-month period (1 point)

**Submittal:** a-b) Submit website address.  
c) Documentation of presentations and/or workshops given including total # of students reached.

**Benefit:** Access to public transportation routes over the internet allows for easier planning for riders when using the system for both routine and non-routine journeys. Our young population can be the largest user of alternative transportation and early education regarding its benefits can only increase future usage.

**Resources:** Gainesville Area Regional Transit System Routes and Schedules  
<http://www.go-rts.com/>  
Space Coast Area Transit Bicycle Commuting Information  
[http://www.ridescat.com/forms/bicycle\\_info\\_request.php](http://www.ridescat.com/forms/bicycle_info_request.php)

## P – PUBLIC WORKS AND ENGINEERING

This section is applicable to all local governments. The intent is to improve overall green practices throughout the community in public works projects

### **P1 MINIMIZE SOLID AND HAZARDOUS WASTE THROUGH RECYCLING AND REUSE.**

#### **Requirement:**

- a) Develop a construction project waste management/recycling plan to be implemented prior to undertaking any construction project (roads, buildings, etc.). (3 points)
- b) Operate a local government material/chemical reuse/redistribution center. Plan should call for environmental and economic evaluation of various recycling, reuse, and disposal alternatives for waste generated by project. Oversee a center whereby surplus equipment/material/chemicals are made available for reuse to local government staff or the community. (1 point). (Note a reuse center for electronic is located in R6)
- c) Operate a community tool lending library. Oversee a community tool lending library. (1 point)
- d) Spearhead efforts to maintain green fleets for public works vehicles within the local government by incorporating at least 75% of the applicable best management practices outlined in chapters C-M of the Florida Green Local Government Standard Fleet Management and Vehicle Maintenance Module. (2 points) or entire local government (4 points).
- e) Incorporate a system of Integrated Pest Management (IPM) for use at all local government buildings, landscapes, and facilities. (1 point)

#### **Submittal:**

- a) Copy of plan implementation procedures.
- b-c) Provide location of center and/or library, and hours of operation.
- d) Provide details of green fleet program.
- e) Submit elements of IPM program.

#### **Benefit:**

Employing various recycling and reuse strategies reduced the amount of solid and hazardous waste that must be disposed of.

#### **Resources:**

California Department of Resources Recycling and Recovery

<http://www.calrecycle.ca.gov/LGcentral/Library/Innovations/CnDRecycle/>

US Dept of Environmental Protection Waste & Recycling Information

<http://www.epa.gov/wastes/conserve/rrr/imr/cdm/>

Sarasota County Recycled Paint

<http://www.scgov.net/environmentalservices/solidwaste/HazardousWaste/HouseholdHazardousWaste.asp>

City of Berkeley, CA Tool Lending Library

[http://berkeleypubliclibrary.org/services\\_and\\_resources/tool\\_lending\\_library/](http://berkeleypubliclibrary.org/services_and_resources/tool_lending_library/)

Florida Green Local Government Standard Fleet Management and Vehicle Maintenance Module

[http://floridagreenbuilding.org/files/1/File/Standard\\_Govt/FleetManagement.pdf](http://floridagreenbuilding.org/files/1/File/Standard_Govt/FleetManagement.pdf)

Sarasota County Integrated Pest Management  
<http://sarasota.extension.ufl.edu/IPM/ipm.shtml>

## **P2 MINIMIZE GREENHOUSE GAS EMISSIONS.**

**Requirement:**

- a) Operate and maintain a local government alternative fueling station if a local government fleet operates on alternative fuel. (1 point)
- b) Earn waste reduction credit through the production of clean-burning fuels. County governments get waste reduction credits for using yard clippings, clean wood waste, or paper waste as feedstocks for the production of clean-burning fuels such as ethanol. (1 point)

**Submittal:** Submit location of station, and fuel type. Describe clean-burning fuel production feedstock and process.

**Benefit:** Alternative fuels conserve resources and minimize vehicular emissions to the atmosphere.

**Resources:** Florida Green Local Government Standard Fleet Management and Vehicle Maintenance Module  
[http://floridagreenbuilding.org/files/1/File/Standard\\_Govt/FleetManagement.pdf](http://floridagreenbuilding.org/files/1/File/Standard_Govt/FleetManagement.pdf)  
Florida Statute 403.706  
[http://www.flsenate.gov/Statutes/index.cfm?mode=View%20Statutes&SubMenu=1&App\\_mode=Display\\_Statute&Search\\_String=&URL=CH0403/Sec706.HTM](http://www.flsenate.gov/Statutes/index.cfm?mode=View%20Statutes&SubMenu=1&App_mode=Display_Statute&Search_String=&URL=CH0403/Sec706.HTM)

## **P3 MINIMIZE LOCAL GOVERNMENT ENERGY USE.**

**Requirement:**

- a) Use LED traffic lights. Develop a plan for replacing conventional traffic and streetlights with energy efficient models such as LED or induction lighting. (1 point)
- b) Utilize solar or other energy efficient streetlights and/or solar pedestrian crosswalks. (1 point)

**Submittal:** Submit details of light replacement plan, or dates that lights were retrofitted to more efficient technology.

**Benefit:** Significant savings can be achieved by upgrading various light fixtures to more efficient models.

**Resources:** Florida Traffic Engineering Research Lab LED Traffic Signal Testing  
[http://potentia.eng.fsu.edu/terl/areas\\_of\\_work\\_led\\_traffic\\_signals.htm](http://potentia.eng.fsu.edu/terl/areas_of_work_led_traffic_signals.htm)  
City of St. Cloud success with LED Traffic Lights  
<http://www.stcloud.org/index.asp?SID=445>

## **P4 ENHANCE STORM WATER CONTROL AND WATER CONSERVATION**

**Requirement:**



- a) Local government to comply with requirements of National Pollutant Discharge Elimination System (NPDES) permit through street sweeping maintenance activities. (Required practice)
- b) Local government to comply with requirements of National Pollutant Discharge Elimination System (NPDES) permit through storm sewer maintenance activities. (Required practice)
- c) Utilize the green landscaping practices consistent with the Florida Friendly Landscape program for local governments to reduce the need for pesticides and fertilizers. (1 point)

**Submittal:**

- a-b) Provide details of street sweeping and storm sewer maintenance schedule.
- c) Provide details of landscaping activities and landscape fertilizer plan (include type of fertilizers used, method of application, and application schedule).

**Benefit:**

The pollutant load that stormwater places on natural and artificial treatment systems can be reduced through various strategies.

**Resources:**

- City of Tampa Street Sweeping Operations  
[http://www.tampagov.net/appl\\_Stormwater\\_Street\\_Sweeping/mappage.asp?cscRedirectID=490](http://www.tampagov.net/appl_Stormwater_Street_Sweeping/mappage.asp?cscRedirectID=490)
- City of Tampa Storm Sewer Maintenance  
[http://www.tampagov.net/dept\\_stormwater/programs\\_and\\_services/storm\\_sewer\\_maintenance.asp](http://www.tampagov.net/dept_stormwater/programs_and_services/storm_sewer_maintenance.asp)
- Florida Green Local Government Standard Environmental Landscaping Module  
[http://floridagreenbuilding.org/files/1/File/Standard\\_Govt/LandscapeMaintenance.pdf](http://floridagreenbuilding.org/files/1/File/Standard_Govt/LandscapeMaintenance.pdf)
- Wisconsin Department of Natural Resources Rain Gardens  
<http://www.dnr.state.wi.us/runoff/rg>
- Florida Yards and Neighborhoods Handbook  
<http://fyn.ifas.ufl.edu/homeowners/publications.htm>

**P5 PRESERVE/ENHANCE STREET TREE COVERAGE.**

**Requirement:**

Become a Tree City USA. Fulfill the requirements of this National Arbor Day Foundation. (1 point)

**Submittal:**

Submit official certification, or application for certification.

**Benefit:**

Tree City USA often involves the entire community in the planting of trees for many environmental benefits including shade value and wildlife habitat.

**Resources:**

- National Arbor Day Foundation Tree City USA Program  
<http://www.arborday.org/programs/treeCityUSA/index.cfm>

## P6 REWARD INNOVATION

**Requirement:** Develop a reward/incentive program for employee environmental innovation in public works. Create a forum/mechanism by which employees can make suggestions to enhance the environmental performance of public works functions, along with an awards or incentive program. (1 point)

**Submittal:** Describe the operation of the forum/mechanism.

**Benefit:** Often times, due to their constant field involvement, employees can generate interesting and innovative ideas geared towards environmental stewardship that decision makers may overlook.

## P7 STAFF EDUCATION.

**Requirement:**

- a) Offer green fleet management training to all applicable departments. (1 point)
- b) Train and certify select staff as certified arborists. Select staff to undertake necessary training to become a certified arborist by the International Society of Arboriculture. (1 point)

**Submittal:** Submit materials that describe the type of training/outreach offered. Submit copies of individual certifications.

**Benefit:** Generally, public works has the necessary equipment, staff, and facilities to operate a green fleet program, and is best suited to extend the program to other departments. Certain public works staff should be trained in arboriculture such that tree planting, trimming, and preservation are carried out in an effective fashion.

**Resources:** Florida Green Local Government Standard Fleet Management and Vehicle Maintenance Module  
[http://floridagreenbuilding.org/files/1/File/Standard\\_Govt/FleetManagement.pdf](http://floridagreenbuilding.org/files/1/File/Standard_Govt/FleetManagement.pdf)  
International Society of Arboriculture  
<http://www.isa-arbor.com/home.asp>

## P8 COMMUNITY EDUCATION

**Activity:** Place informative stickers or use stenciling on important aspects of storm water management systems (outfall pipes, drains, impervious surface, etc.) throughout the city/county. Contact the local water management district as they may offer assistance. (1 point)

**Submittal:** Submit examples or photos of stickers or stencils.

**Benefit:** Stormwater conveyance marking may help educate the public about the path stormwater takes through the community, and may help them to respect, and not negatively impact the system.

**Resources:** UF Clean Water Campaign: Stormwater Stenciling  
<http://campuswaterquality.ifas.ufl.edu/water/drainlabels.html>

## R – SOLID WASTE

The intent of this section is to increase reuse and recycling and reduce solid waste.

### R1 REDUCE LOCAL GOVERNMENT SOLID WASTE

#### Requirement:

- a) Become a partner in the EPA waste wise program. (1 point)
- b) City/County wide chemical/hazardous waste collection. Provide **curbside** pickup at least twice a year for items such as paint, chemicals, mercury, antifreeze, batteries, electronic equipment etc. and Encourage drop-off/collection of items such as spent rechargeable batteries takes place via bins where new product are sold. (1 point)
- c) Operate public reuse store / swap shop. Community members can drop off /purchase reusable materials/equipment, or partner with a local Habitat for Humanity affiliate to maintain a Habitat ReStore. (1 point)
- d) Institute separation of reusable items such as wood, pallets, metals, cardboard, carpet padding, brick, cement, etc. at C&D landfill either for recycling or for resale. (1 point)
- e) Conduct in house or contracted paint collection and recycling and offer recycled paint back to the community. (1 point)
- f) Institute landfill gas recovery at landfills and utilize for heat or power. (1 point)
- g) Develop and implement a disaster waste management plan that involves recovery of reusable materials. (1 point)

#### Submittal:

- a) Submit copy of Waste Wise partner application.
- b) Provide flyer or website link about the program.
- c) Submit location and hours of operation for reuse store / swap shop.
- d) Describe types and amounts of items separated out of general waste stream at landfill.
- e) Provide example of material used to educate the public about the availability of recycled paint.
- f) Provide overview of landfill gas recovery system and end use of energy recovered.
- g) Describe waste management efforts and recovery plan in the event of a disaster.

#### Benefit:

Several opportunities exist to reduce the amount of material entering the landfill, thereby extending their useful life. A marketing campaign about hazardous waste and local collection programs increases participation rates and reduces the amount of hazardous waste improperly disposed of.

#### Resources:

US EPA Waste Wise Program

<http://www.epa.gov/wastewise/>

Sarasota County Project Green Sweep

<http://www.co.sarasota.fl.us/EnvironmentalServices/SolidWaste/HazardousWaste/ProjectGreenSweep.asp>

Alachua County Hazardous Waste Collection

<http://www.alachuacounty.us/government/depts/epd/pollution/householdwaste.aspx>

Habitat for Humanity ReStore Directory

[http://www.habitat.org/env/restore\\_detail.aspx?place=88](http://www.habitat.org/env/restore_detail.aspx?place=88)

Orange and Seminole Counties Drywall Recycling Pilot

<http://www.americanrecycler.com/02florida03.html>

Sarasota County Recycled Paint

<http://www.co.sarasota.fl.us/EnvironmentalServices/SolidWaste/HazardousWaste/RecycledPaint.asp>

US EPA Disaster Debris Document

<http://www.epa.gov/epaoswer/non-hw/muncpl/debris.htm>

The Rebuilding Center, Portland OR

<http://www.rebuildingcenter.org/>

State of Florida DEP Recycling Homepage:

<http://www.dep.state.fl.us/waste/categories/recycling/default.htm>

State of Florida DEP Electronics Scrap Management Homepage

<http://www.dep.state.fl.us/waste/categories/electronics/default.htm>

State of Florida DEP C&D Recycling Page

<http://www.dep.state.fl.us/waste/categories/recycling/pages/canddmain.htm>

State of Florida DEP Green Lodging Program

<http://www.dep.state.fl.us/greenlodging/>

## **R2 MONITOR AND PROMOTE RECYCLING.**

### **Requirement:**

- a) Offer curbside recycling for homes diverting materials such as cardboard, paper, glass, plastic, steel and aluminum from the waste stream. **(Required practice)**
- b) Offer and promote recycling collection services and an education program for businesses. Monitor participation rates for commercial recycling and develop a strategy to increase participation. (1 point)
- c) Provide and promote recycling collection services and an education program to residents living in multi-family dwellings (apartments, condos, duplexes) Monitor participation rates for residential recycling and develop a strategy to increase participation. (1 point per waste stream, 5 points maximum).
- d) Monitor types and amounts of material entering landfill and develop programs to identify areas where minimization improvements are needed.(1 point)

### **Submittal:**

- a) Submit recycling schedule and types of bins used / commodities recycled.
- b) Provide educational material and description of recycling program.
- c) Provide educational material and description of recycling program.
- d) Explain strategy for monitoring material entering landfill and include some data.

**Benefit:** Curbside recycling may enhance recycling participation. By monitoring types and amounts of material entering landfill, it can be used as an indicator to help decide where to target solid waste reduction efforts.

**Resources:** Polk County Municipal Solid Waste Reduction and Reuse Measurement Guide  
[http://www.dep.state.fl.us/waste/quick\\_topics/publications/shw/recycling/InnovativeGrants/IG\\_year5/PolkCountyWasteReductionGrantFinal.pdf](http://www.dep.state.fl.us/waste/quick_topics/publications/shw/recycling/InnovativeGrants/IG_year5/PolkCountyWasteReductionGrantFinal.pdf)

State of Florida DEP C&D Recycling Page  
<http://www.dep.state.fl.us/waste/categories/recycling/pages/canddmain.htm>

California Integrated Waste Management Board  
<http://www.ciwmb.ca.gov/ConDemo/>

Alachua County Waste Collection  
<http://www.alachuacounty.us/government/depts/epd/pollution/crnews.aspx>

State of Florida DEP Recycling  
<http://www.dep.state.fl.us/waste/categories/recycling/default.htm>

State of Florida DEP Electronics Scrap Management Homepage  
<http://www.dep.state.fl.us/waste/categories/electronics/default.htm>

Solid Waste Authority of Palm Beach County, School Recycling Program  
[http://www.swa.org/site/recycling/school\\_recycling\\_education/school\\_recycling\\_and\\_education.htm](http://www.swa.org/site/recycling/school_recycling_education/school_recycling_and_education.htm)

City of Tallahassee, Commercial Recycling  
<http://www.talgov.com/customer/gr.cfm>

City of Ft. Lauderdale, Multi-family Recycling  
<http://ci.ftlaud.fl.us/recycle/athome.htm>

City of St. Petersburg, Drop-off Program  
<http://www.stpete.org/recmap.htm>

### **R3 PRESERVE/ENHANCE HABITAT.**

**Requirement:** Return closed landfill to productive use. Redevelop closed landfills so that the land can be used as a community amenity such as a park. (1 point)

**Submittal:** Submit closed landfill management plan and data monitoring.

**Benefit:** Proper management of closed landfills allows for the land to be used as a community amenity.

**Resources:** Landfill Closure: End Uses  
[http://www.forester.net/msw\\_9909\\_landfil\\_closure.html](http://www.forester.net/msw_9909_landfil_closure.html)

### **R4 LOCAL BUSINESS INCENTIVES/REGULATIONS**

**Requirement:**

- a) Offer incentives to local business who require EPP or other solid waste reduction strategy. Develop an incentive of at least \$200 per business for those that employ environmentally preferable purchasing (EPP) or other solid waste reduction strategy. (1 point)

- b) Ordinance, policy or mandate that requires and enforces recycling of typical recyclables for homes and businesses. (1 point)
- c) Mandatory recycling program for large volumes (wood, cardboard, metal, concrete, etc.) of construction and demolition (C&D) debris targeting building, contractors, and developers. (2 points)
- d) Offer waste assessments to businesses. (1 point)

**Submittal:**

- a) Submit details of incentive and any application materials.
- b) Submit language of ordinance or mandate.
- c) Submit language of ordinance or mandate.
- d) Provide promotional material with description of the program.

**Benefit:**

Offering some kind of incentive may increase participation of local businesses in the communities EPP program or could encourage them to develop one of their own. Enforcing a recycling mandate will help ensure that solid waste management goals are met.

**Resources:**

Hawaii Green Business Program  
<http://hawaii.gov/dbedt/info/energy/resource/greenbusiness>

**R5 MINIMIZE SOLID WASTE GENERATION.**

**Requirement:**

- a) Institute collection/disposal rates, based on volume, for all customers and/or elevated rates for special collections. (1 point)
- b) Offer mulched yard waste back to the community. (1 point)
- c) Require recycling at all local government buildings and develop a mechanism to ensure recycling is occurring properly.(1 point)
- d) Develop a program for composting food waste. (1 point)
- e) Develop a program of yellow and/or brown grease recycling. Utilize the food waste from cafeterias, grocery stores or restaurants for composting or grease recycling. (1 point)

**Submittal:**

- a) Provide details of rate structure.
- b) List pick up locations for mulched yard waste.
- c) Provide appropriate ordinance or policy. Develop a procedure for regularly checking recycling is being done properly by staff and janitorial staff.
- d) Submit a website link or flyer about the program.
- e) Submit a website link or flyer about the program

**Benefit:**

Volume based rates may inherently encourage waste minimization. Offering free mulch not only relieves the local government of a source of waste, but also promotes water-wise landscapes.

Ensure that available mulch is generated from appropriate species/sources. Recycling reduces the amount of the solid waste stream and has salvageable value as a resource. Reducing improper grease disposal also relieves blockage problems it generates in sewage systems and treatment plants, which often leads to the use of harsh chemicals.

**Resources:** Reason Public Policy Institute Variable Rates for Municipal Solid Waste  
<http://www.reason.org/ps295polsum.pdf>  
Wisconsin volume based fee collection guide  
<http://www.p2pays.org/ref/21/20329.pdf>  
Brevard County Yard Waste Collection and Mulching  
<http://brevardcounty.us/swr/yardwaste.cfm>

## **R6 INFORMATION TECHNOLOGY RECYCLING AND WASTE REDUCTION**

### **Requirement:**

- a) Operate local government computer and equipment reuse center. A computer and electronic equipment reuse center will arrange for collection of surplus equipment and make the inventory available to all local government departments. (1 point) (Credit for a reuse center for other materials is located in P1)
- b) Recycle of end-of-life electronic equipment. Develop a recycling program for end-of-life electronic equipment. (1 point)
- c) Refill or Recycle empty toner and ink cartridges. (1 point)
- d) Recycle batteries, especially rechargeable/UPS batteries, which contain mercury (1 point)
- e) Work with departments to increase use of electronic materials exchange/paperless processes. For example, allow electronic signatures, use on line meeting packets, on line document sharing, on line permitting process, etc. (1 point) Additionally, enact an ordinance, policy or mandate requiring electronic materials exchange in lieu of paper. (2 points)

**Submittal:** Provide a copy of a brochure, flyer, or web page that is distributed to local government departments explaining the operation of the reuse center. Provide details of recycling effort. Submit proof of recycling, such as vendor contract or receipts for a one-year period, or submit a statement by the Information Technology Director

**Benefit:** Computers and equipment considered obsolete for certain purposes may be very capable of performing other tasks within the city/county and may be in great demand by other employees. If there is no expected need, the equipment should be donated to approved organizations or auctioned. Materials in toner/ink cartridges and depleted batteries can be recycled for use in new products. When at true end-of-life, proper recycling is an appropriate way to deal with this hazardous waste stream.

**Resources:** Palm Beach County Solid Waste Authority Business Equipment Reuse Center  
[http://www.dep.state.fl.us/waste/quick\\_topics/publications/shw/recycling/InnovativeGrants/IGyear4/finalreport/PalmCountyBERCFinalReportMay2004.pdf](http://www.dep.state.fl.us/waste/quick_topics/publications/shw/recycling/InnovativeGrants/IGyear4/finalreport/PalmCountyBERCFinalReportMay2004.pdf)  
Florida's Strategy for End-Of-Life electronics  
<http://www.dep.state.fl.us/waste/categories/electronics/default.htm>  
Alachua County Computer Reuse Page

<http://www.alachuacounty.us/government/depts/epd/pollution/computers.aspx>

EPA Waste Wise Update: Electronics Reuse and Recycling

<http://www.epa.gov/epaoswer/non-hw/reduce/wstewise/pubs/wwupda14.pdf>

Sarasota County Electronic Disposal Program

<http://www.co.sarasota.fl.us/EnvironmentalServices/SolidWaste/Electronics.asp>

## **R7 COMMUNITY EDUCATION.**

### **Requirement:**

- a) Promote the EPA's Environmental Preferable Purchasing (EPP) program, recycling and other waste reduction strategies to **local businesses**. (1 point)
- b) Develop education program for solid waste management. Provide education and outreach on environmentally preferable purchasing (EPP) and other solid waste reduction approaches to the **local community**. (1 point)
- c) Offer educational materials and technical assistance on recycling to schools, businesses and special events (arenas, stadiums, convention centers) to increase recycling program participation (2 points).
- d) Educate the community about securely wiping financial and other data from electronic devices prior to recycling. Post information on the website or publish a brochure to educate citizens about securely wiping personal data from their PCs and electronic data storage devices prior to recycling. Alternatively, give a description of the technique(s) and physical security measures used by the recycling partner (e.g., physical shredding of equipment). (1 point)

### **Submittal:**

Submit details of courses or other components of education program. Provide a link to the information as posted on city/county recycling website, and/or provide a copy of the educational material

### **Benefit:**

One of the barriers to EPP and solid waste management for local businesses is a lack of knowledge of available products, waste reduction techniques, and their environmental and economic benefits. Sharing strategies and procedures on successful recycling programs including monitoring strategies help direct the program toward success and higher participation rates. This information should ease residents' minds about recycling old computer equipment.

### **Resources:**

Alachua County Waste Watchers

<http://www.alachuacounty.us/government/depts/pw/waste/watchers/>

US EPA EPP Training Tool

<http://www.epa.gov/epp/pubs/eppupdates/update7.pdf>

Microsoft article about safe disposal of computers and other devices:

<http://www.microsoft.com/security/online-privacy/safely-dispose-computers-and-devices.aspx>

Darik's Boot and Nuke bootable drive erasure:

<http://dban.org/>



## **R8 STAFF EDUCATION.**

**Requirement:** Conduct a customer waste survey. Conduct a voluntary study whereby customers are able to indicate problematic waste sources (such as junk mail) to be used to gauge development of waste reduction programs and outreach. (1 point)

**Submittal:** Submit copy of survey/study instrument.

**Benefit:** Results from such a study can be used to tailor development of waste reduction programs and outreach such that they target the most problematic components of the waste stream.

**Resources:** Polk County Municipal Solid Waste Reduction and Reuse Measurement Guide  
[http://www.dep.state.fl.us/waste/quick\\_topics/publications/shw/recycling/InnovativeGrants/IGyear5/PolkCountyWasteReductionGrantFinal.pdf](http://www.dep.state.fl.us/waste/quick_topics/publications/shw/recycling/InnovativeGrants/IGyear5/PolkCountyWasteReductionGrantFinal.pdf)

University of Central Florida Report: Incentives for Recycling  
[http://www.hinkleycenter.com/publications/shapek\\_90-6.pdf](http://www.hinkleycenter.com/publications/shapek_90-6.pdf)

# S – WATER AND WASTEWATER

## S1 PLANT OPERATIONS AIMED AT ENVIRONMENTAL PERFORMANCE

### Requirement:

- a) Seek FLDEP plant operations excellence award. Consideration for the Florida Department of Environmental Protection (FLDEP) award is based on maintenance, compliance, innovative treatment, waste reduction, pollution prevention, conservation, recycling, or other special achievement. Example approach would be to recycle lime removed from drinking water. (2 points)
- b) Create a reclaimed water infrastructure. Water treatment facility has the capacity to provide reclaimed water and the piping infrastructure is available for use. Earn points based on capacity as a percentage of coverage area within the service area the treatment facility services. Earn 1 point for each 20% coverage up to 5 points.
- c) Implement a procedure for sanitary sewer overflow abatement. Reduce sanitary sewer wet and dry weather overflows into surface waters as measured by EPA acceptable limits. (2 points)

### Submittal:

- a) Submit award certificate or completed award application.
- b) Map of infrastructure or directive to create one. Map must show service limits for potable and reclaimed water with percentage calculation
- c) After performing a self-assessment, develop and supply a copy of the maintenance, operations, and management plan (MOM).

### Benefit:

The FLDEP plant operations excellence award shows the community that the local government is committed to environmental stewardship. Reclaimed water provides a “sink” for treated wastewater other than surface discharge or underground injection, and conserves potable and shallow aquifer resources. An overflow abatement program will highlight any weak areas in a city’s sewer system and help to mitigate/prevent dangerous overflows.

### Resources:

FL Dept of Environmental Protection (FLDEP) Awards

<http://www.dep.state.fl.us/secretary/ed/>

FL DEP Water Reuse Program

<http://www.dep.state.fl.us/water/reuse/index.htm>

City of Clearwater, FL Reclaimed Water Division

[http://www.clearwater-fl.com/gov/depts/pwa/public\\_utils/divisions/reclaimed/index.asp](http://www.clearwater-fl.com/gov/depts/pwa/public_utils/divisions/reclaimed/index.asp)

US EPA Sanitary Sewer Overflow

<http://www.epa.gov/ebtpages/waterstormsanitaryseweroverflowssos.html>

## S2 REDUCE ENERGY USE

### Requirement:

- a) Conduct energy audit of treatment facilities. Leverage a utility or other existing program to conduct an energy audit of water/wastewater treatment facilities to identify potential areas where energy efficiency can be enhanced. (1 point)
- b) Use cogeneration. Develop a system for cogeneration, such as utilizing digester gas as a form of cogeneration and an end use for the heat/electricity generated. (2 point)

**Submittal:**

- a) Submit summary of audit results and recommendations that were generated.
- b) Describe the method of cogeneration and intended end use.

**Benefit:**

There are many opportunities within water/wastewater treatment plants for energy conservation.

**Resources:**

US Department of Energy Building America Program  
[http://www1.eere.energy.gov/buildings/building\\_america/about.html](http://www1.eere.energy.gov/buildings/building_america/about.html)  
 Louisiana Department of Natural Resources Rural Water Energy Conservation  
<http://www.dnr.state.la.us/SEC/EXECDIV/TECHASMT/programs/industrial/ruralwater.htm>  
 Iowa Association of Municipal Utilities: How to save energy and money in your water and wastewater systems  
<http://www.iamu.org/services/water/resources.htm>  
 California Energy Commission: Process Energy  
<http://www.energy.ca.gov/process/water/index.html>  
 City of Santa Cruz, CA solar photovoltaic and electrical cogeneration upgrade project  
<http://www.cityofsantacruz.com/index.aspx?page=1192>

**S3 REDUCE SOLID AND HAZARDOUS WASTE**

**Requirement:** Use online bill pay or recycled paper for billing content. Return envelopes sent to customers should contain post-consumer recycled content. (Required practice)

**Submittal:** Submit billing content or website link.

**Benefit:** Goals for solid waste reduction can be set for every local government department, and many innovative strategies can be employed to achieve those goals

**S4 REDUCE WATER USE**

**Requirement:**

- a) Utilize rate structures based on consumption. Restructure residential and commercial water rates to promote conservation. (1 point)
- b) Low flow fixture rebates. Offer low flow fixture rebates or replacement assistance for existing fixtures. (1 point)
- c) Enforce watering restrictions during meter reads or law enforcement patrols. (1 point)

- d) Require via ordinance, policy or mandate the metering of shallow aquifer removal and sub-metering of multi-family housing. Require additional metering and sub-metering and track as indicators of performance. (1 point)
- e) Adopt policies to encourage alternative onsite wastewater and water reuse technologies and approaches. (1 point)
- f) Adopt Appendix C of the Florida Building Code related to gray water. Encourage gray water and rainwater harvesting through cisterns and/or rain barrels. Encourage the reuse of a/c condensate. (1 point)

**Submittal:**

- a) Submit details of how rates are structures.
- b) Provide information regarding rebate, including any advertising to make consumers aware.
- c) Provide strategy of how restrictions will be enforced.
- d) Provide copy of ordinance, policy or mandate.
- e) Submit copies of the appropriate ordinances or policies.
- f) Submit copies of the appropriate ordinances or policies.

**Benefit:**

Various strategies exist to promote water conservation – some incentive based, and some enforcement based. Choosing one, the other, or both may help achieve water conservation goals. Some, such as the shallow well metering program suggested, may simply educate water users on the amount of water used for certain purposes, such as irrigation. Water users should be educated to the fact that all sources of water are a scarce commodity in Florida, not just potable water.

**Resources:**

Florida Water Conservation Initiative Final Report: Water Pricing Chapter  
[http://www.dep.state.fl.us/water/waterpolicy/docs/WCI\\_2002\\_Final\\_Report.pdf](http://www.dep.state.fl.us/water/waterpolicy/docs/WCI_2002_Final_Report.pdf)  
 Georgia issues in water pricing  
[http://www.h2opolicycenter.org/pdf\\_documents/water\\_workingpapers/2004-011.pdf](http://www.h2opolicycenter.org/pdf_documents/water_workingpapers/2004-011.pdf)  
 City of Melbourne, FL plumbing retrofit programs  
<http://www.melbournefl.org/watercon/plumbing.htm>

**S5 COMMUNITY EDUCATION.**

**Requirement:**

- a) Implement informative billing that educates customers about current and past usage. (1 point)
- b) Distribute printed material or create internet content detailing wastewater source, quality, treatment process. Develop and post an “environmental report” on a website or in printed form that details the process of water/wastewater treatment including raw materials consumed, processing specifics, water quality and emissions information. (1 point)
- c) Create an education campaign for water use reduction (Florida friendly landscaping, rainwater, etc.). Team with an extension service on a demand side water conservation educational program (1 point) Earn 1 additional point if these materials are freely available online. Consider offering or requiring conservation courses for watering violations. (1-2 points)

- d) Maintain an on-call program for water quality that answers questions and conducts field investigations in response to citizen concern of water pollution incidents. (1 point)
- e) Become a partner in the national groundwater guardian program or similar groundwater protection program. (1 point)
- f) Train staff to conduct home and business water audits to identify areas of potential conservation opportunities for example a mobile irrigation labs. (1 point)
- g) Enable customers to track and analyze their usage via the internet. Develop an online system whereby customers can access account history and evaluate performance based on other users with similar characteristics. Offer suggestions for users to reduce usage.(1 point)

**Submittal:**

- a) Submit copy of sample bill.
- b) Provide copies of educational material, or website link.
- c) Provide details of education campaign including descriptions of any courses offered.
- d) Provide operational overview of on-call program.
- e) Submit certificate of participation or completed program application.
- f) Describe audit services made available.
- g) Provide website whereby customers can gain access to usage information.

**Benefit:**

Many strategies exist to educate the public on the importance of water conservation, and education, combined with outreach and tools can help the local government achieve their water conservation goals.

**Resources:**

City of Melbourne, FL Water Quality Report  
<http://www.melbournefl.org/pub/pub-pdf/waterquality.pdf>  
 Groundwater Guardian Program  
<http://www.groundwater.org/gg/learnmore.html>  
 Sarasota County Environmental Education: Water Resources  
<http://www.sarasota.wateratlas.usf.edu/education/>  
 Palm Beach Soil and Water Conservation District Mobil Irrigation Lab  
<http://www.pbswcd.org/mblirrlab.htm>  
 Sarasota County H2O2GO Program  
<https://h2o2go.scgov.net/Index.jsp>