

Update Year	Major Islamorada Accomplishment(s)	New or Modified Goal(s)
2008	<ul style="list-style-type: none"> • Included energy and water efficient fixtures and equipment, motion-activated lighting and pervious pavers at Community Center, Fire Station 19 and marina restroom pavilions. • Installed cistern at Fire Station 20. • Adopted and implemented an Employee Sustainability Policy including an energy conservation program within Islamorada offices. • Completed two (2) waterfront landscape improvement projects. • Updated solid waste contract to include commercial and residential recycling initiatives. • Implemented mandatory recycling at events on Islamorada property. • Made recycling information available on website. • Adopted a Bicycle/Pedestrian Transportation Plan. • Completed one (1) cul-de-sac improvement. 	<p><u>New Goals:</u></p> <ul style="list-style-type: none"> • Create and implement an Environmental Sustainability Policy. • When possible, make arrangements for meetings to occur via conference call/Skype to avoid increasing vehicle miles travelled. • Revise Rights-of-way (“ROW”) ordinance for vegetated swales. • Utilize biodegradable bags at Islamorada offices and parks. • Utilize pool vehicles rather than individual vehicles. • Continued Clean Marina practices. • Improve community awareness and involvement in Islamorada sustainability initiatives. <p><u>Eliminated Goals:</u></p> <ul style="list-style-type: none"> • Goal to increase floor area ratio (“FAR”) in order to facilitate additional open space in other areas.
2009	<ul style="list-style-type: none"> • Continued to use energy and water efficient fixtures and equipment; cistern; biodegradable bags; as well as pervious pavers as part of new and renovated facility projects and parks. • Continued to implement Employee Sustainability Policies. • Installed pool cover at public pool. • Adopted Resolution 08-12-07 to waive building permit fees for solar system installations. • Reduced energy consumption by 11% in Islamorada offices and parks. • Applied for Energy Efficiency and Conservation Block Grant (“EECBG”). • Increased highway ROW sodding. • Began employee arborist training. • Acquired nine (9) acre Key Tree Cactus Preserve for conservation and recreation. • Completed two (2) new cul-de-sac improvements. • Planted only native plants at Administrative Center; no landscape irrigation required or installed. • Completed construction of paving and drainage improvements to Upper Matecumbe Key. • Purchased first hybrid vehicle. 	<p><u>New Goals:</u></p> <ul style="list-style-type: none"> • Encourage use of solar systems by property owners. • Reduce electrical consumption in government buildings and parks. • Seek funding to assist in energy reduction goals. • Phase out incandescent lighting in all government facilities. • Increase provision that ROW plantings be 100% Florida Friendly. <p><u>Eliminated Goals:</u></p> <ul style="list-style-type: none"> • Solar hot water heaters for affordable housing projects receiving Islamorada assistance. • Potential use of LEED certification standards as part of the BPAS as it was too difficult to implement.

	<ul style="list-style-type: none"> • Budgeted for inefficient fuel vehicle replacement program. • Auctioned six (6) inefficient Sheriff's Office vehicles. • Reduced municipal vehicle fleet by four (4) vehicles. • Added community education program to solid waste contract. • Information related to sustainability efforts and recommendations added to website. • Received 5-year Clean Marina award. 	
2010	<ul style="list-style-type: none"> • Retrofitted Anne's Beach and Library Beach restroom lighting. • Installed pervious parking area at Green Turtle Hammock Park. • Awarded EECBG funds. • Purchased and installed new recycling and trash bins at parks and along U.S. Highway 1 right-of-way. • Made additional recycling bins accessible to all vacation rental properties. • Updated BPAS scoring system to encourage solar hot water heater installs through additional points. 	<p><u>New Goals:</u></p> <ul style="list-style-type: none"> • Encourage recycling at vacation rental properties.
2011	<ul style="list-style-type: none"> • Installed energy efficient pool heat pumps and propane flash heater. • Installed solar street lights at Founders Park and Islamorada-owned property using EECBG. • Implemented paperless policies for staff, Council and the public. • Purchased two (2) bikes for parks and public works staff use. • Auctioned 17 inefficient vehicles. 	<p><u>Modified Goals:</u></p> <ul style="list-style-type: none"> • Utilize only native plants at all Islamorada properties. • Require staff to print double-sided and use electronic documents rather than printed. <p><u>Eliminated Goals:</u></p> <ul style="list-style-type: none"> • Replace neighborhood street lighting with solar lighting.
2012	<ul style="list-style-type: none"> • Removed/destroyed two (2) inefficient fleet vehicles. 	<p><u>New Goals:</u></p> <ul style="list-style-type: none"> • Promote voluntary use of reusable bags by businesses through "Got Your Bags" program.
2013	<ul style="list-style-type: none"> • Staff trained on exotic plant recognition and removal techniques; ongoing training to continue. • EnergyStar qualified appliances installed by developer at Wet Net Villas affordable housing project. • Only native plants installed at Wet Net Villas affordable housing project. • Replaced all incandescent lighting in Islamorada-owned buildings. • Completed Snake Creek Bridge beautification project. • Completed certification of Arborist on Public Works staff. 	<p><u>New Goals:</u></p> <ul style="list-style-type: none"> • Determine feasibility of canal restoration program based on County-wide Canal Management Master Plan.

	<ul style="list-style-type: none"> • Completed 224 total tree and greenery plantings. • Installed site specific native vegetation at all wastewater pump station sites. • Executed request for proposal (“RFP”) for solid waste contract including mandatory commercial recycling program in conjunction with new ordinance. • Participated in Canal Management Master Plan process with County to address existing water quality challenges through improved canal cleanliness. • Committed \$100,000 to Canal Restoration Demonstration Project that will assist in developing a streamlined permitting, design, and evaluation process that will be utilized for future planning and costing of canal water quality improvements. 	
2014	<ul style="list-style-type: none"> • Acquired three (3) additional properties for conservation. • Final six (6) old pool pumps replaced with higher efficiency units. • Proposed budget item to improve technology for remote meetings. • Added position of Environmental Resource Program Manager. • Executed Waste Management contract to include implementation of mandatory recycling for commercial customers; used motor oil and increased household hazardous waste collection. • Purchased reusable bags and promoted “Got Your Bags” program. • Received 10-year Clean Marina Award. • Began Canal Restoration Demonstration Project on Plantation Key canal, one (1) of the sixty-two (62) residential canals in Islamorada. • Entered into agreement to create an adaptation action plan for Islamorada. 	<p><u>New Goals:</u></p> <ul style="list-style-type: none"> • Implement a Climate Change Action Plan.
2015	<ul style="list-style-type: none"> • In June, 2015, staff submitted application for financial assistance to purchase additional cloth bags for Got Your Bags? Florida Keys initiative. Did not win grant award. • One Plantation Key property acquired for conservation during FY 14-15. • As of September 2015, a total of 65.3 acres of conservation property and 105 acres of Park property is owned by the Village. • Project to cultivate specialized native plants initiated through the Landscape 	<p><u>New Goals:</u></p> <ul style="list-style-type: none"> • Complete Village-wide wastewater collection and transmission system (Village-wide wastewater collection and transmission system to be completed by the end of calendar year 2015.) <p><u>Modified Goals:</u></p>

	<ul style="list-style-type: none">• Advisory Committee in May 2015. Plants to be utilized at Village properties.• During FY 14-15, improved measures to promote recycling with increased communication during registration renewals and laminated flyers encouraging recycling for posting at vacation rental properties.• Auctioned six inefficient fleet vehicles in 2014.• First canal restoration demonstration project implemented during FY 13-14 was completed and installed in November 2014.	<ul style="list-style-type: none">• Utilize trash bags made of recycled material at Village Parks and Village properties.• Utilize trash bags made of recycled material in Village Office Buildings.
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Environmental Sustainability Plan September 2007

Islamorada, Village of Islands

In order to contribute to a greener planet, the Village of Islamorada seeks to enact policies to reduce global warming pollution levels and provide economic and quality of life benefits such as reduced energy bills, green space preservation, air quality improvements and energy conservation.

This document includes actions that are currently in place and goals/actions that have been identified to be investigated for future implementation. The document is intended to be utilized as a tool to review sustainability actions that have been achieved and to identify and prioritize goals that may be accomplished in the next year and future years.

The document is designed to be reviewed annually each spring to add/remove/modify the goals, update the status of items that have been implemented and identify those items that could be considered during budget discussions and implemented in the following fiscal year.

Environmental Sustainability Goal/Action

Status

ENERGY

• Include LEED energy certification components in plans for new Village building projects.	
• Include LEED energy certification components in plans for Village building renovations.	
• Utilize energy efficient mechanical systems in building projects.	
• Energy saving standards are included in the BPAS scoring system.	In place prior to September 2007
• Investigate additional LEED energy certification standards for addition to the BPAS scoring system to promote increased energy savings in new development (i.e. solar hot water heating, "going off the FKEC grid").	To be investigated during FY 07-08

<ul style="list-style-type: none"> • Turn thermostats up during non-business hours in all Village Buildings. Set a minimum temperature standard for business hours, with limited exceptions (i.e. areas housing computer server systems). 	In place September 2007
<ul style="list-style-type: none"> • Install motion-sensing, auto-off light switches where appropriate at Village owned buildings. 	
<ul style="list-style-type: none"> • Create and distribute monthly employee newsletter; include sustainability issues/suggestions in each newsletter. 	To be implemented during FY 07-08
<ul style="list-style-type: none"> • Establish an energy conservation program/policy for all Village offices and buildings to include turning off lights and equipment when not in use. 	To be implemented during FY 07-08
<ul style="list-style-type: none"> • As new equipment and appliances are required, procure energy efficient products that are ENERGY STAR® qualified or that are certified under the Federal Energy Management Program unless the products are shown not to be cost-effective on a life-cycle cost basis. 	
<ul style="list-style-type: none"> • Update the Village purchasing policy and procedure to include the requirement of ENERGY STAR® qualified products or products that are certified under the Federal Energy Management Program unless the products are shown not to be cost-effective on a life cycle cost basis. 	
<ul style="list-style-type: none"> • Require affordable housing projects receiving Village assistance to install ENERGY STAR® qualified appliances. 	
<ul style="list-style-type: none"> • Purchase vehicles with the highest fuel efficiency that are appropriate for the assigned task. 	
<ul style="list-style-type: none"> • Auction retired Sheriff's Department vehicles that are not fuel efficient for Village tasks. 	
<ul style="list-style-type: none"> • Implement anti-idling policy throughout all Village departments. 	In place September 2007
<ul style="list-style-type: none"> • Replace Founders Park pool heat pumps with new conventional units. 	
<ul style="list-style-type: none"> • Convert Founders Park pool heating to a solar panel powered system. 	

• Replace Founders Park street lights with solar lighting.	
• Retrofit existing Founders Park light poles for conversion to solar lighting.	
• Replace existing neighborhood street lighting with solar lighting.	
• Require solar hot water heating for affordable housing projects receiving Village assistance.	
• Utilize solar power to light “Welcome to Islamorada” signs at the north and south entrances to the Village.	In place prior to September 2007
• Manage Founders Park street lights for lowest possible energy use.	In place September 2007
• Utilize state of the industry standards/practices for Founders Park field lighting.	In place September 2007
• Preserve properties from development through conservation easements and agreements with Monroe County and the State of Florida.	Over 35 acres of property acquired prior to September 2007

LAND

• Increase allowed Floor Area Ratio in Village Center zoning districts to preserve open space in other areas and create compact, walkable areas.	
• Maintain and expand healthy tree canopies over certain roadways to provide for greater shade to residential areas for energy savings and promote groundwater absorption.	In place prior to September 2007 and ongoing
• Coordinate with FDOT to re-sod US 1 highway rights-of-ways rather than placing compacted lime rock. The sod may need to be protected with hedge materials.	
• Acquire or train employee(s) to become certified arborist on roadways staff.	

<ul style="list-style-type: none"> • Replace asphalt with pervious pavers where possible on publicly held land. 	
<ul style="list-style-type: none"> • Add rain barrels/cisterns to key properties to capture rainwater, allowing the water to be used for landscaping. 	
<ul style="list-style-type: none"> • Ensure that swales are vegetated and kept free from debris and minimize traffic that would compact soils and reduce permeability. 	
<ul style="list-style-type: none"> • Preserve additional properties from development. 	
<ul style="list-style-type: none"> • Work with schools, various community agencies and citizens' advisory committees for the planting of trees and greenery at Plantation Hammock Preserve, Plantation Tropical Preserve and other Village parks. 	In place prior to September 2007 and ongoing
<ul style="list-style-type: none"> • Require businesses that use rights-of-way to plant or re-plant vegetation and trees. 	
<ul style="list-style-type: none"> • Work with utility companies to restore vegetation, including re-sodding and tree planting. 	
<ul style="list-style-type: none"> • Work with neighborhood associations with culs de sac or streets ending in water for potential planting ideas to install landscaping to improve barren areas. 	
<ul style="list-style-type: none"> • Provide more shaded walkable/bikeable lanes and communal parking by initiating the US Post Office / Townsite Supermarket proposed project as shown in the 2003 TSM Study for downtown Islamorada. 	
<ul style="list-style-type: none"> • Provide more shaded walkable/bikeable lanes by initiating the Worldwide Sportsman Store / Islamorada Fish Company proposed project as shown in the 2003 TSM Study for downtown Islamorada. 	
<ul style="list-style-type: none"> • Provide more shaded walkable/bikeable lanes and communal parking by initiating Village-wide parking along US Highway 1 proposed project as shown in the 2003 TSM Study for downtown Islamorada. 	

AIR QUALITY/CO2 REDUCTION

<ul style="list-style-type: none"> • Identify locations to strategically plant native canopy trees that would provide ample shade with its canopy to cool temperatures and reduce air pollution and plant six trees per year in public parks and rights-of-way. 	In place prior to September 2007 and ongoing
<ul style="list-style-type: none"> • Require additional landscaping and buffers for projects requiring development orders. 	In place prior to September 2007
<ul style="list-style-type: none"> • Increase the amount of landscaping required for new development. 	

STORMWATER

<ul style="list-style-type: none"> • Village's stormwater master plan completed in 2001 and transmitted to officials at FDOT and FDEP. 	In place prior to September 2007
<ul style="list-style-type: none"> • Meet with FDOT on a regular basis to coordinate and review work performed by the FDOT. 	In place prior to September 2007 and ongoing
<ul style="list-style-type: none"> • Make requests to FDOT for improvement projects. 	
<ul style="list-style-type: none"> • Complete remainder of the paving and drainage improvements on Upper Matecumbe Key. 	In progress September 2007
<ul style="list-style-type: none"> • Utilize Stormwater Best Management Practices for drainage improvements. 	In place prior to September 2007 and ongoing
<ul style="list-style-type: none"> • Require swales as part of the work to install driveway connections to local roads in order to promote infiltration 	
<ul style="list-style-type: none"> • As part of right of way permitting, require xeriscape plant materials for plantings in right-of-way. 	

WATER

<ul style="list-style-type: none"> • Low flow plumbing fixtures are in place in the Founders Park pool complex and Fire Station 20. 	In place prior to September 2007
<ul style="list-style-type: none"> • LEED certification components (i.e. waterless toilets) could be utilized for additional water savings in new municipal building projects. 	
<ul style="list-style-type: none"> • Utilize the minimum level of water necessary for Founders Park fields and landscaping to be properly maintained for use and for the pool and other facilities to function properly. 	In place September 2007
<ul style="list-style-type: none"> • Utilize treated re-use water for field and greenery as it becomes available. 	
<ul style="list-style-type: none"> • Water savings standards are currently included in the BPAS scoring system. 	In place prior to September 2007
<ul style="list-style-type: none"> • Investigate additional LEED certification standards for BPAS scoring system. 	

WASTE

<ul style="list-style-type: none"> • Create and post additional recycling information on website. 	To be implemented during FY 07-08
<ul style="list-style-type: none"> • Provide standard recycling bins at all public parks in Village. 	To be implemented beginning of FY 07-08
<ul style="list-style-type: none"> • Provide three-recycling-bin set up at public parks in Village. 	
<ul style="list-style-type: none"> • Include alternatives for recycling in FY 08-09 solid waste contract. 	
<ul style="list-style-type: none"> • Establish a recycling program at all Village offices and encourage recycling by all staff and visitors. 	In place September 2007
<ul style="list-style-type: none"> • Encourage Village staff to print and copy double-sided when possible. 	In place September 2007

<ul style="list-style-type: none"> • Encourage Village staff to utilize electronic documents rather than printed documents when appropriate. 	In place September 2007
<ul style="list-style-type: none"> • Distribute Village meeting packets electronically or as double-sided prints when appropriate. 	In place September 2007

TRANSPORTATION

<ul style="list-style-type: none"> • Develop a Bicycle/Pedestrian Transportation Master Plan (Comprehensive Plan Policy 2-1.5.1). 	In progress September 2007
<ul style="list-style-type: none"> • Coordinate with FDOT to pave or sod specific areas along bike path within FDOT right-of-way to minimize impact to bike lanes from highway traffic. 	
<ul style="list-style-type: none"> • Seek funding for a Transit (Bus) Pull-off Facility Preliminary Design. 	
<ul style="list-style-type: none"> • Work with the FDOT as well as the Miami-Dade Transit Authority and Monroe County to plan and construct bus stops. 	In progress September 2007
<ul style="list-style-type: none"> • Work with Monroe County and other governmental entities to encourage transportation companies to use clean fuel sources. This would likely need to be combined with an effort from Dade County and the City of Miami to be effective. 	
<ul style="list-style-type: none"> • Encourage Village staff to carpool, rideshare, bike or walk to work, as appropriate. 	To be implemented beginning of FY 07-08

Environmental Sustainability Plan September 2008

Islamorada, Village of Islands

In order to contribute to a greener planet, the Village of Islamorada seeks to enact policies to reduce global warming pollution levels and provide economic and quality of life benefits such as reduced energy bills, green space preservation, air quality improvements and energy conservation.

The Environmental Sustainability Plan was implemented in September 2007 and is updated on an annual basis.

This document includes actions that are currently in place and goals/actions that have been identified to be investigated for future implementation. The document is intended to be utilized as a tool to review sustainability actions that have been achieved and to identify and prioritize goals that may be accomplished in the next year and future years.

The document is designed to be reviewed annually each spring to add/remove/modify the goals, update the status of items that have been implemented and identify those items that could be considered during budget discussions and implemented in the following fiscal year.

Environmental Sustainability Goal/Action

Status

ENERGY

• Include LEED energy certification components in plans for new Village building projects.	Included energy efficient fixtures and equipment as practicable and cost effective for 2007 building projects (Community Center, Restroom Pavilion and Fire Station 19).
• Include LEED energy certification components in plans for Village building renovations.	

<ul style="list-style-type: none"> • Utilize energy efficient mechanical systems in building projects. 	<p>Included energy efficient equipment as practicable and cost effective for 2007 building projects (Community Center, Restroom Pavilion and Fire Station 19).</p> <p>Fire Station 21 / Administrative Offices to be constructed during FY: 08-09 to include energy efficient mechanical systems.</p>
<ul style="list-style-type: none"> • Energy saving standards are included in the BPAS scoring system. 	<p>In place prior to September 2007.</p>
<ul style="list-style-type: none"> • Investigate additional LEED energy certification standards for addition to the BPAS scoring system to promote increased energy savings in new development (i.e. solar hot water heating, “going off the FKEC grid”). 	<p>Staff to propose additional points for solar hot water heaters.</p>
<ul style="list-style-type: none"> • Keep room temperatures no lower than 74 degrees during business hours and turn thermostats up to 78 degrees during non-business hours in all Village Buildings with limited exceptions (i.e. areas housing computer server systems). 	<p>In place September 2007, included in Employee Policy and updated 9/26/08.</p>
<ul style="list-style-type: none"> • Install motion-sensing, auto-off light switches where appropriate at Village owned buildings. 	<p>Motion-activated lighting installed in Marina Restroom Pavilion and in the Community Center restrooms.</p> <p>Retrofitting of existing buildings to be addressed during FY: 08-09.</p>
<ul style="list-style-type: none"> • Create and implement an Environmental Sustainability Policy for Village Employees (“Employee Policy”). 	<p>Employee Policy implemented 5/22/08, updated 8/27/08 and to continue to be updated from time to time.</p>

<ul style="list-style-type: none"> • Establish an energy conservation program/policy for all Village offices and buildings to include turning off lights and equipment when not in use. 	Implemented during FY: 07-08 through the Employee Policy.
<ul style="list-style-type: none"> • As new equipment and appliances are required, procure energy efficient products that are ENERGY STAR® qualified or that are certified under the Federal Energy Management Program unless the products are shown not to be cost-effective on a life-cycle cost basis. 	Implemented during FY: 07-08 through the Employee Policy.
<ul style="list-style-type: none"> • Update the Village purchasing policy and procedure to include the requirement of ENERGY STAR® qualified products or products that are certified under the Federal Energy Management Program unless the products are shown not to be cost-effective on a life cycle cost basis. 	Purchasing Policy and Procedure to be updated during FY: 08-09.
<ul style="list-style-type: none"> • Require affordable housing projects receiving Village assistance to install ENERGY STAR® qualified appliances unless the products are shown not to be cost-effective on a life-cycle cost basis. 	To be addressed by resolution during FY: 08-09.
<ul style="list-style-type: none"> • Replace Founders Park pool heat pumps with new high-efficiency units. 	High efficiency heat pumps to be considered for FY: 09-10 budget.
<ul style="list-style-type: none"> • Replace Founders Park street lights with solar lighting. 	
<ul style="list-style-type: none"> • Retrofit existing Founders Park light poles for conversion to solar lighting. 	
<ul style="list-style-type: none"> • Replace existing neighborhood street lighting with solar lighting. 	
<ul style="list-style-type: none"> • Require solar hot water heating or a heat recovery unit for affordable housing projects receiving Village assistance. 	To be addressed by resolution during FY: 08-09.
<ul style="list-style-type: none"> • Utilize solar power to light "Welcome to Islamorada" signs at the north and south entrances to the Village. 	In place prior to September 2007.

• Manage Founders Park street lights for lowest possible energy use.	In place September 2007.
• Utilize state of the industry standards/practices for Founders Park field lighting.	In place September 2007.
• When possible, make arrangements for meetings to occur via conference call rather than having all participants drive to the meeting location.	Policy initiated August 2008 and included in updated Employee Policy.

LAND

• Maintain and expand healthy tree canopies over certain roadways to provide for greater shade to residential areas for energy savings and to promote groundwater absorption.	In place prior to September 2007 and ongoing.
• Coordinate with FDOT to re-sod US 1 highway rights-of-ways rather than placing compacted lime rock. The sod may need to be protected with hedge materials.	Item to be included in budget for FY: 08-09.
• Acquire or train a roadways staff employee to become certified arborist.	Employee training ongoing and employee to take certification exam during FY: 08-09.
• Replace asphalt with pervious pavers where possible on publicly held land.	Pervious parking area to be installed as part of Green Turtle Hammock improvements with grant funding during FY: 08-09. Fire Station 21 / Administrative Offices project plans include a pervious parking lot.

<ul style="list-style-type: none"> • Add rain barrels/cisterns to key properties to capture rainwater, allowing the water to be used for landscaping. 	<p>Cistern installed at Fire Station 19 during FY: 07-08.</p> <p>Rain barrel installation proposed for Green Turtle, Plantation Tropical Preserve and Plantation Hammocks Preserve during FY: 08-09.</p> <p>Prior to construction during FY: 08-09, cistern to be considered for Fire Station 21 / Administrative Offices site.</p>
<ul style="list-style-type: none"> • Revise right-of-way ordinance to ensure that swales are vegetated and kept free from debris and minimize traffic that would compact soils and reduce permeability. 	<p>Revisions to be proposed during FY: 08-09.</p>
<ul style="list-style-type: none"> • Preserve properties from development through conservation easements and agreements with Monroe County and the State of Florida. 	<p>Over 58 acres of property acquired prior to September 2007.</p> <p>Additional properties will be considered for conservation.</p>
<ul style="list-style-type: none"> • Work with schools, various community agencies and citizens' advisory committees for the planting of trees and greenery at Plantation Hammock Preserve, Plantation Tropical Preserve and other Village parks. 	<p>In place prior to September 2007 and ongoing.</p>
<ul style="list-style-type: none"> • Require businesses that use rights-of-way to plant or re-plant vegetation and trees. 	<p>Update of Chapter 50 of the Village Code to include a planting / restoration provision for use of right-of-way to be initiated during FY: 08-09.</p>
<ul style="list-style-type: none"> • Work with utility companies to restore vegetation, including re-sodding and tree planting. 	

<ul style="list-style-type: none"> • Work with neighborhood associations with culs de sac or streets ending in water for potential planting ideas to install landscaping to improve barren areas. 	<p>Completed two cul de sac improvements with landscaping during FY: 07-08.</p> <p>Two additional cul de sac improvements scheduled for FY: 08-09.</p>
<ul style="list-style-type: none"> • Provide more shaded walkable/bikeable lanes and communal parking by utilizing concepts in the US Post Office / Townsite Supermarket proposed project as shown in the 2003 TSM Study for downtown Islamorada. 	
<ul style="list-style-type: none"> • Provide more shaded walkable/bikeable lanes by utilizing concepts in the Worldwide Sportsman Store / Islamorada Fish Company proposed project as shown in the 2003 TSM Study for downtown Islamorada. 	
<ul style="list-style-type: none"> • Provide more shaded walkable/bikeable lanes and communal parking Village-wide parking along US Highway 1 by utilizing concepts as shown in the 2003 TSM Study for downtown Islamorada. 	

AIR QUALITY/CO2 REDUCTION

<ul style="list-style-type: none"> • Identify locations to strategically plant native canopy trees that would provide ample shade with its canopy to cool temperatures and reduce air pollution and plant six trees per year in public parks and rights-of-way. 	<p>In place prior to September 2007 and ongoing.</p>
<ul style="list-style-type: none"> • Require additional landscaping and buffers for projects requiring development orders. 	<p>In place prior to September 2007.</p>
<ul style="list-style-type: none"> • Increase the amount of landscaping required for new development. 	<p>Requirements for shade trees and xeriscaping to be reviewed during FY: 08-09.</p>

STORMWATER

<ul style="list-style-type: none"> • Village's stormwater master plan completed in 2001 and transmitted to officials at FDOT and FDEP. 	In place prior to September 2007.
<ul style="list-style-type: none"> • Meet with FDOT on a regular basis to coordinate and review work performed by the FDOT. 	In place prior to September 2007 and ongoing.
<ul style="list-style-type: none"> • Make requests to FDOT for improvement projects. 	In place prior to September 2007 and requests are made annually.
<ul style="list-style-type: none"> • Complete remainder of the paving and drainage improvements on Upper Matecumbe Key. 	Construction budgeted for FY: 07-08 and 08-09.
<ul style="list-style-type: none"> • Utilize Stormwater Best Management Practices for drainage improvements. 	In place prior to September 2007 and ongoing.
<ul style="list-style-type: none"> • As part of the work to install driveway connections, swales, or similar method of stormwater management is currently required by Code. 	Requirement included in the Village Code prior to September 2007.
<ul style="list-style-type: none"> • As part of right of way permitting, increase required xeriscape plant materials for plantings in right-of-way from 75% to 100%. 	

WATER

<ul style="list-style-type: none"> • Low flow plumbing fixtures are in place in the Founders Park pool complex and Fire Station 20. 	In place prior to September 2007.
<ul style="list-style-type: none"> • LEED certification components (i.e. waterless toilets) could be utilized for additional water savings in new municipal building projects. 	Included low pressure faucets, shower fixtures and minimum volume toilets wherever practicable in 2007 building projects (Community Center, Restroom Pavilion and Fire Station 19), to reduce water use and expenditures.

<ul style="list-style-type: none"> • Utilize the minimum level of water necessary for Founders Park fields and landscaping to be properly maintained for use and for the pool and other facilities to function properly. 	In place September 2007.
<ul style="list-style-type: none"> • Utilize treated re-use water for field and greenery as it becomes available. 	To be included in new wastewater projects.
<ul style="list-style-type: none"> • Water savings standards are currently included in the BPAS scoring system. 	In place prior to September 2007.
<ul style="list-style-type: none"> • Investigate additional LEED certification standards for BPAS scoring system. 	

WASTE

<ul style="list-style-type: none"> • Create and post additional recycling information on website. 	Information regarding new recycling alternatives to be advertised in new section of website beginning FY: 08-09.
<ul style="list-style-type: none"> • Provide three-recycling-bin set up at public parks in Village. 	Recycling bins with pick-up and disposal services will be included the solid waste contract for FY: 08-09.
<ul style="list-style-type: none"> • Include alternatives for recycling in FY: 08-09 solid waste contract. 	<p>Solid waste contract extension includes additional residential and commercial recycling initiatives.</p> <p>Additional alternatives, such as a Pay as You Throw program, to increase recycling, to be implemented on a trial basis during FY: 08-09.</p>
<ul style="list-style-type: none"> • Establish a recycling program at all Village offices and encourage recycling by all staff and visitors. 	In place September 2007 and included in 2008 Employee Policy.

<ul style="list-style-type: none"> • Require Village staff to print and copy double-sided when possible. 	In place September 2007 and included in 2008 Employee Policy.
<ul style="list-style-type: none"> • Require Village staff to utilize electronic documents rather than printed documents when appropriate. 	In place September 2007 and included in 2008 Employee Policy.
<ul style="list-style-type: none"> • Distribute Village meeting packets electronically or as double-sided prints when appropriate. 	In place September 2007.
<ul style="list-style-type: none"> • Utilize biodegradable trash bags at Founders Park. 	Implemented April 2008.
<ul style="list-style-type: none"> • Utilize biodegradable trash bags in Village Office Buildings. 	Implemented June 2008.
<ul style="list-style-type: none"> • Include a requirement in the <i>Village-owned Parks Special Events Policy</i> for mandatory recycling at events at Village parks. 	Implemented June 2008.
<ul style="list-style-type: none"> • Include a condition in the temporary use permit application for mandatory recycling at permitted events. 	Implemented June 2008.

TRANSPORTATION / FUEL

<ul style="list-style-type: none"> • Develop a Bicycle/Pedestrian Transportation Master Plan (Comprehensive Plan Policy 2-1.5.1). 	Plan adopted October 2007.
<ul style="list-style-type: none"> • Coordinate with FDOT to pave or sod specific areas along bike path within FDOT right-of-way to minimize impact to bike lanes from highway traffic. 	

<ul style="list-style-type: none"> • Seek funding for a Transit (Bus) Pull-off Facility Preliminary Design. 	
<ul style="list-style-type: none"> • Work with the FDOT as well as the Miami-Dade Transit Authority and Monroe County to plan and construct bus stops. 	In progress September 2007.
<ul style="list-style-type: none"> • Work with Monroe County and other governmental entities to encourage transportation companies to use clean fuel sources. This would likely need to be combined with an effort from Dade County and the City of Miami to be effective. 	
<ul style="list-style-type: none"> • Purchase or lease vehicles with the highest fuel efficiency that are appropriate for the assigned task. 	\$50,000 budgeted for Capital Replacement Fund in FY: 08-09 to begin replacement of inefficient fleet vehicles.
<ul style="list-style-type: none"> • Auction retired Sheriff's Department vehicles that are not fuel efficient for Village tasks. 	
<ul style="list-style-type: none"> • Implement anti-idling policy throughout all Village departments. 	In place September 2007.
<ul style="list-style-type: none"> • Encourage Village staff to carpool, rideshare, bike or walk to work, as appropriate. 	Implemented during FY: 07-08 through the Employee Policy.
<ul style="list-style-type: none"> • Utilize pool vehicles rather than individual vehicles when practicable. 	To be addressed during FY: 08-09 with the potential reduction of four vehicles.

OTHER

<ul style="list-style-type: none"> • Continue environmental practices of the Clean Marina Program. 	Received Clean Marina designation for Plantation Yacht Harbor Marina in 2004.
<ul style="list-style-type: none"> • Improve community awareness of environmental sustainability initiatives undertaken by the Village and encourage community involvement. 	New news box to be developed and added to website at the beginning of FY: 08-09 to include Village initiatives and informational links.

Environmental Sustainability Plan September 2009

Islamorada, Village of Islands

In order to contribute to a greener planet, the Village of Islamorada seeks to enact policies to reduce global warming pollution levels and provide economic and quality of life benefits such as reduced energy bills, green space preservation, air quality improvements and energy conservation.

The Environmental Sustainability Plan was implemented in September 2007 and is updated on an annual basis.

This document includes actions that are currently in place and goals/actions that have been identified to be investigated for future implementation. The document is intended to be utilized as a tool to review sustainability actions that have been achieved and to identify and prioritize goals that may be accomplished in the next year and future years.

The document is designed to be reviewed annually each spring to add/remove/modify the goals, update the status of items that have been implemented and identify those items that could be considered during budget discussions and implemented in the following fiscal year.

Environmental Sustainability Goal/Action

Status

ENERGY

- Include LEED energy certification components in plans for new Village building projects.

Included energy efficient fixtures and equipment as practicable and cost effective for 2007 building projects (Community Center, Restroom Pavilion and Fire Station 19).

Administrative Center & Public Safety Headquarters is constructed with an energy efficient roof and energy efficient windows.

<ul style="list-style-type: none"> • Include LEED energy certification components in plans for Village building renovations. 	
<ul style="list-style-type: none"> • Utilize energy efficient mechanical systems in building projects. 	<p>Included energy efficient equipment as practicable and cost effective for 2007 building projects (Community Center, Restroom Pavilion and Fire Station 19).</p> <p>Administrative Center & Public Safety Headquarters construction includes energy efficient air conditioning.</p>
<ul style="list-style-type: none"> • Energy saving standards are included in the BPAS scoring system. 	<p>In place prior to September 2007.</p>
<ul style="list-style-type: none"> • Investigate additional LEED energy certification standards for addition to the BPAS scoring system to promote increased energy savings in new development (i.e. solar hot water heating, “going off the FKEC grid”). 	<p>Staff to propose additional points for solar hot water heaters.</p>
<ul style="list-style-type: none"> • Keep room temperatures no lower than 74 degrees during business hours and turn thermostats up to 78 degrees during non-business hours in all Village Buildings with limited exceptions (i.e. areas housing computer server systems). 	<p>Included in 9/26/08 Employee Policy update.</p>
<ul style="list-style-type: none"> • Install motion-sensing, auto-off light switches where appropriate at Village owned buildings. 	<p>Motion-activated lighting installed in Marina Restroom Pavilion and in the Community Center restrooms.</p> <p>Motion-activated lighting installed in Administrative Center and Public Safety Headquarters building in all areas other than hallways and partitioned areas.</p>

	Retrofitting of existing buildings to be addressed during FY 09-10.
<ul style="list-style-type: none"> • Create and implement an Environmental Sustainability Policy for Village Employees (“Employee Policy”). 	Employee Policy implemented 5/22/08, and is updated as new information become available.
<ul style="list-style-type: none"> • Establish an energy conservation program/policy for all Village offices and buildings to include turning off lights and equipment when not in use. 	Implemented during FY 07-08 through the Employee Policy.
<ul style="list-style-type: none"> • As new equipment and appliances are required, procure energy efficient products that are ENERGY STAR® qualified or that are certified under the Federal Energy Management Program unless the products are shown not to be cost-effective on a life-cycle cost basis. 	Implemented during FY 07-08 through the Employee Policy.
<ul style="list-style-type: none"> • Update the Village purchasing policy and procedure to include the requirement of ENERGY STAR® qualified products or products that are certified under the Federal Energy Management Program unless the products are shown not to be cost-effective on a life cycle cost basis. 	Purchasing Policy and Procedure to be updated during FY 09-10.
<ul style="list-style-type: none"> • Require affordable housing projects receiving Village assistance to install ENERGY STAR® qualified appliances. 	To be addressed by resolution.
<ul style="list-style-type: none"> • Replace Founders Park pool heat pumps with new high-efficiency units and/or solar units. 	Phased replacement of old heat pumps with higher efficiency units planned to begin during FY 09-10.
<ul style="list-style-type: none"> • Install pool cover for Founders Park pool (for an estimated reduction of 10 to 20% of electrical consumption for pool heating and cooling). 	Pool cover installation completed October 2009.

<ul style="list-style-type: none"> • Replace Founders Park street lights with solar lighting. 	<p>Cost estimates received during FY 08-09 were \$4,000 per light pole for each of the 70 street lights. Conversion to be considered in the future if improved technology or other factors reduce the cost.</p>
<ul style="list-style-type: none"> • Replace existing neighborhood street lighting with solar lighting. 	<p>Same as Founders Park street lights item.</p>
<ul style="list-style-type: none"> • Utilize solar power to light “Welcome to Islamorada” signs at the north and south entrances to the Village. 	<p>In place prior to September 2007.</p>
<ul style="list-style-type: none"> • Manage Founders Park street lights for lowest possible energy use. 	<p>In place September 2007.</p>
<ul style="list-style-type: none"> • Utilize state of the industry standards/practices for Founders Park field lighting. 	<p>In place September 2007.</p>
<ul style="list-style-type: none"> • When possible, make arrangements for meetings to occur via conference call rather than having all participants drive to the meeting location. 	<p>Policy initiated August 2008 and included in updated Employee Policy.</p>
<ul style="list-style-type: none"> • Encourage use of solar / photovoltaic systems by Islamorada property owners. 	<p>Adopted Resolution 08-12-07 in December 2008 to waive building permit fees for solar / photovoltaic system installation.</p>
<ul style="list-style-type: none"> • Reduce overall electrical consumption for municipal offices and parks utilizing the methods listed in this section. 	<p>Reduced electrical consumption for municipal offices and parks by 11% during FY 08-09.</p>

<ul style="list-style-type: none"> • Seek funding assistance for “ENERGY” goals / actions identified above as appropriate. 	<p>During FY 09-10, staff to seek funding through the State of Florida American Recovery and Reinvestment program / Energy Efficiency and Conservation Block Grant program.</p>
<ul style="list-style-type: none"> • Phase out incandescent lighting in all Village buildings and properties. 	

LAND

<ul style="list-style-type: none"> • Maintain and expand healthy tree canopies over certain roadways to provide for greater shade to residential areas for energy savings and to promote groundwater absorption. 	<p>In place prior to September 2007 and ongoing.</p>
<ul style="list-style-type: none"> • Coordinate with FDOT to re-sod US 1 highway rights-of-ways rather than placing compacted lime rock. The sod may need to be protected with hedge materials. 	<p>Rights-of-way on Plantation Key sodded by FDOT following 08-09 roadway improvement projects.</p>
<ul style="list-style-type: none"> • Acquire or train a roadways staff employee to become certified arborist (certification classes and certification exam could not be scheduled during FY 08-09.) 	<p>Employee training ongoing and employee to take certification exam during FY 09-10.</p>
<ul style="list-style-type: none"> • Replace asphalt with pervious pavers / pervious materials where possible on publicly held land. 	<p>Pervious parking area (gravel) to be installed as part of Green Turtle Hammock improvements with grant funding during FY 09-10.</p>
<ul style="list-style-type: none"> • Add rain barrels/cisterns to key properties to capture rainwater, allowing the water to be used for landscaping. 	<p>Cistern installed at Fire Station 19 during FY 07-08.</p>

	Rain barrel installation proposed for Green Turtle, Plantation Tropical Preserve and Plantation Hammocks Preserve during FY 08-09 and will be considered for a future budget year.
<ul style="list-style-type: none"> • Revise right-of-way ordinance to ensure that swales are vegetated and kept free from debris and minimize traffic that would compact soils and reduce permeability. 	Revisions to be proposed.
<ul style="list-style-type: none"> • Preserve properties from development through conservation easements and agreements with Monroe County and the State of Florida. 	<p>Over 58 acres of property acquired prior to September 2007.</p> <p>“Key Tree Cactus Preserve” (nine acres) acquired during FY 08-09 for conservation and recreation.</p> <p>Additional properties will be considered for conservation.</p>
<ul style="list-style-type: none"> • Work with schools, various community agencies and citizens’ advisory committees for the planting of trees and greenery at Plantation Hammock Preserve, Plantation Tropical Preserve and other Village parks. 	In place prior to September 2007 and ongoing.
<ul style="list-style-type: none"> • Require businesses that use rights-of-way to plant or re-plant vegetation and trees. 	Update of Chapter 50 of the Village Code to include a planting / restoration provision for use of right-of-way to be initiated.
<ul style="list-style-type: none"> • Work with utility companies to restore vegetation, including re-sodding and tree planting. 	

<ul style="list-style-type: none"> • Work with neighborhood associations with culs de sac or streets ending in water for potential planting ideas to install landscaping to improve barren areas. 	<p>Completed two cul de sac improvements with landscaping during FY 07-08.</p> <p>Two additional cul de sac improvements completed during FY 08-09.</p>
<ul style="list-style-type: none"> • Provide more shaded walkable/bikeable lanes and communal parking by utilizing concepts in the US Post Office / Townsite Supermarket proposed project as shown in the 2003 TSM Study for downtown Islamorada. 	
<ul style="list-style-type: none"> • Provide more shaded walkable/bikeable lanes by utilizing concepts in the Worldwide Sportsman Store / Islamorada Fish Company proposed project as shown in the 2003 TSM Study for downtown Islamorada. 	
<ul style="list-style-type: none"> • Provide more shaded walkable/bikeable lanes and communal parking Village-wide parking along US Highway 1 by utilizing concepts as shown in the 2003 TSM Study for downtown Islamorada. 	
<ul style="list-style-type: none"> • Utilize native plants and xeriscaping at Village project sites. 	<p>Only native plants are included in the landscaping plan for Administrative Center and Public Safety Headquarters.</p>

AIR QUALITY/CO2 REDUCTION

<ul style="list-style-type: none"> • Identify locations to strategically plant native canopy trees that would provide ample shade with its canopy to cool temperatures and reduce air pollution. Plant six trees per year in public parks and rights-of-way. 	<p>In place prior to September 2007 and ongoing.</p>
<ul style="list-style-type: none"> • Require additional landscaping and buffers for projects requiring development orders. 	<p>In place prior to September 2007.</p>

STORMWATER

Village's stormwater master plan completed in 2001 and transmitted to officials at FDOT and FDEP.	In place prior to September 2007.
<ul style="list-style-type: none">• Meet with FDOT on a regular basis to coordinate and review work performed by the FDOT.	In place prior to September 2007 and ongoing.
<ul style="list-style-type: none">• Make requests to FDOT for improvement projects.	In place prior to September 2007 and requests are made annually.
<ul style="list-style-type: none">• Complete remainder of the paving and drainage improvements on Upper Matecumbe Key.	Construction budgeted for FY 07-08 and 08-09. Construction completed during FY 08-09.
<ul style="list-style-type: none">• Utilize Stormwater Best Management Practices for drainage improvements.	In place prior to September 2007 and ongoing.
<ul style="list-style-type: none">• As part of the work to install driveway connections, swales, or similar method of stormwater management is currently required by Code.	Requirement included in the Village Code prior to September 2007.
<ul style="list-style-type: none">• As part of right of way permitting, increase required xeriscape plant materials for plantings in right-of-way from 75% to 100%.	

WATER

<ul style="list-style-type: none">• Low flow plumbing fixtures are in place in the Founders Park pool complex and Fire Station 20.	In place prior to September 2007.
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<ul style="list-style-type: none"> • LEED certification components (i.e. waterless toilets) could be utilized for additional water savings in new municipal building projects. 	<p>Included low pressure faucets, shower fixtures and minimum volume toilets wherever practicable in 2007 building projects (Community Center, Restroom Pavilion and Fire Station 19), to reduce water use and expenditures.</p> <p>Administrative Center & Public Safety Headquarters building construction plans include low flow (0.5 gallons per minute) sensor operated faucets in restrooms and a low flow (1.0 gallons per flush) urinal.</p>
<ul style="list-style-type: none"> • Utilize the minimum level of water necessary for Founders Park fields and landscaping to be properly maintained for use and for the pool and other facilities to function properly. 	<p>In place September 2007.</p>
<ul style="list-style-type: none"> • Utilize treated re-use water for field and greenery as it becomes available. 	<p>To be included in new wastewater projects.</p> <p>Reclaimed water line installed for future irrigation for new Administration Center and Public Safety Headquarters landscaping.</p>
<ul style="list-style-type: none"> • Water savings standards are currently included in the BPAS scoring system. 	<p>In place prior to September 2007.</p>
<ul style="list-style-type: none"> • Investigate additional LEED certification standards for BPAS scoring system. 	<p>Additional LEED certifications standards considered; will not be included in BPAS scoring system due to difficulty with implementation.</p>

- Install pool cover at Founders Park pool (for an estimated reduction of 10 to 20% water usage for the pool).

Pool cover installation completed October 2009.

WASTE

- Create and post additional recycling information on website.

Information regarding recycling and environmental sustainability posted in new section of website beginning December 2008.

- Provide recycling bins up at public parks in Village.

Recycling pick-up and disposal services for parks included the solid waste contract beginning FY 08-09.

Bid for recycling bins for parks advertised in September 2009 for purchase during FY 09-10.

- Include alternatives for recycling in FY 08-09 solid waste contract.

Beginning October 2008, solid waste contract includes additional residential and commercial recycling and initiatives.

- Establish a recycling program at all Village offices and encourage recycling by all staff and visitors.

In place September 2007 and included in Employee Policy.

- Require Village staff to print and copy double-sided when possible.

In place September 2007 and included in Employee Policy.

- Require Village staff to utilize electronic documents rather than printed documents when appropriate.

In place September 2007 and included in Employee Policy.

<ul style="list-style-type: none"> • Distribute Village meeting packets electronically or as double-sided prints when appropriate. 	In place September 2007.
<ul style="list-style-type: none"> • Utilize biodegradable trash bags at Founders Park. 	Implemented April 2008.
<ul style="list-style-type: none"> • Utilize biodegradable trash bags in Village Office Buildings. 	Implemented June 2008.
<ul style="list-style-type: none"> • Include a requirement in the <i>Village-owned Parks Special Events Policy</i> for mandatory recycling at events at Village parks. 	Implemented June 2008.
<ul style="list-style-type: none"> • Include a condition in the temporary use permit application for mandatory recycling at permitted events. 	Implemented June 2008.

TRANSPORTATION / FUEL

<ul style="list-style-type: none"> • Develop a Bicycle/Pedestrian Transportation Master Plan (Comprehensive Plan Policy 2-1.5.1). 	Plan adopted October 2007.
<ul style="list-style-type: none"> • Coordinate with FDOT to pave or sod specific areas along bike path within FDOT right-of-way to minimize impact to bike lanes from highway traffic. 	<p>Sodding completed on Plantation Key during FY 08-09 as part of FDOT construction projects.</p> <p>Sodding completed on Lower Matecumbe Key during FY 08-09 as part of FDOT construction projects.</p> <p>FDOT projects for Upper Matecumbe Key and Windley Key are on future years plan.</p>
<ul style="list-style-type: none"> • Seek funding for a Transit (Bus) Pull-off Facility Preliminary Design. 	

<ul style="list-style-type: none"> • Work with the FDOT as well as the Miami-Dade Transit Authority and Monroe County to plan and construct bus stops. 	<p>In progress September 2007. Project not active during FY 08-09.</p>
<ul style="list-style-type: none"> • Work with Monroe County and other governmental entities to encourage transportation companies to use clean fuel sources. This would likely need to be combined with an effort from Miami-Dade County to be effective. 	
<ul style="list-style-type: none"> • Purchase or lease vehicles with the highest fuel efficiency that are appropriate for the assigned task. 	<p>\$50,000 budgeted for Capital Replacement Fund to begin replacement of inefficient fleet vehicles in FY 08-09 and FY 09-10. Funds will be appropriated annually.</p> <p>First hybrid vehicle purchased in May 2009.</p>
<ul style="list-style-type: none"> • Auction retired Sheriff's Department vehicles and other vehicles that are not fuel efficient for Village tasks. 	<p>Auctioned six inefficient fleet vehicles in March 2009.</p>
<ul style="list-style-type: none"> • Implement anti-idling policy throughout all Village departments. 	<p>In place September 2007.</p>
<ul style="list-style-type: none"> • Encourage Village staff to carpool, rideshare, bike or walk to work, as appropriate. 	<p>Implemented during FY 07-08 through the Employee Policy.</p>
<ul style="list-style-type: none"> • Utilize pool vehicles rather than individual vehicles when practicable. 	<p>Reduced municipal vehicle fleet by four vehicles during FY 08-09.</p>

OTHER

• Continue environmental practices of the Clean Marina Program.	Received Clean Marina designation for Plantation Yacht Harbor Marina in 2004.
• Improve community awareness of environmental sustainability initiatives undertaken by the Village and encourage community involvement.	New news box added to Village website in December 2008 includes Village sustainability initiatives and informational links. Community education program included in Solid Waste contract approved in October 2008.

Environmental Sustainability Plan September 2010

Islamorada, Village of Islands

In order to contribute to a greener planet, the Village of Islamorada seeks to enact policies to reduce global warming pollution levels and provide economic and quality of life benefits such as reduced energy bills, green space preservation, air quality improvements and energy conservation.

The Environmental Sustainability Plan was implemented in September 2007 and is updated on an annual basis.

This document includes actions that are currently in place and goals/actions that have been identified to be investigated for future implementation. The document is intended to be utilized as a tool to review sustainability actions that have been achieved and to identify and prioritize goals that may be accomplished in the next year and future years.

The document is designed to be reviewed annually to add/remove/modify the goals, update the status of items that have been implemented and identify those items that could be considered for implementation during the following fiscal year.

Environmental Sustainability Goal/Action

Status

ENERGY

<ul style="list-style-type: none"> • Include LEED energy certification components in plans for new Village building projects. 	<p>Included energy efficient fixtures and equipment as practicable and cost effective for 2007 building projects (Community Center, Restroom Pavilion and Fire Station 19).</p> <p>Administrative Center & Public Safety Headquarters is constructed with an energy efficient roof and energy efficient windows.</p>
<ul style="list-style-type: none"> • Include LEED energy certification components in plans for Village building renovations. 	

<ul style="list-style-type: none"> • Utilize energy efficient mechanical systems in building projects. 	<p>Included energy efficient equipment as practicable and cost effective for 2007 building projects (Community Center, Restroom Pavilion and Fire Station 19).</p> <p>Administrative Center & Public Safety Headquarters was constructed with energy efficient air conditioning.</p>
<ul style="list-style-type: none"> • Energy saving standards are included in the BPAS scoring system. 	<p>In place prior to September 2007.</p>
<ul style="list-style-type: none"> • Investigate additional LEED energy certification standards for addition to the BPAS scoring system to promote increased energy savings in new development (i.e. solar hot water heating, “going off the FKEC grid”). 	<p>Staff to propose additional points for solar hot water heaters in September 2010 with plan for implementation early in FY 10-11.</p>
<ul style="list-style-type: none"> • Keep room temperatures no lower than 74 degrees during business hours and turn thermostats up to 78 degrees during non-business hours in all Village Buildings with limited exceptions (i.e. areas housing computer server systems). 	<p>Included in 9/26/08 Employee Policy update.</p>
<ul style="list-style-type: none"> • Install motion-sensing, auto-off light switches where appropriate at Village owned buildings. 	<p>Motion-activated lighting installed in Marina Restroom Pavilion and in the Community Center restrooms.</p> <p>Motion-activated lighting installed in Administrative Center and Public Safety Headquarters building in areas other than hallways and partitioned areas.</p> <p>Retrofitting of Anne’s Beach and Library Beach restroom lighting completed during FY 09-10.</p>
<ul style="list-style-type: none"> • Create and implement an Environmental Sustainability Policy for Village Employees (“Employee Policy”). 	<p>Employee Policy implemented 5/22/08, and is updated as new information become available.</p>
<ul style="list-style-type: none"> • Establish an energy conservation program/policy for all Village offices and buildings to include turning off lights and equipment when not in use. 	<p>Implemented during FY 07-08 through the Employee Policy.</p>

<ul style="list-style-type: none"> As new equipment and appliances are required, procure energy efficient products that are ENERGY STAR® qualified or that are certified under the Federal Energy Management Program unless the products are shown not to be cost-effective on a life-cycle cost basis. 	<p>Implemented during FY 07-08 through the Employee Policy.</p>
<ul style="list-style-type: none"> Update the Village purchasing policy and procedure to include the requirement of ENERGY STAR® qualified products or products that are certified under the Federal Energy Management Program unless the products are shown not to be cost-effective on a life cycle cost basis. 	<p>Purchasing Policy and Procedure to be updated during FY 10-11.</p>
<ul style="list-style-type: none"> Require affordable housing projects receiving Village assistance to install ENERGY STAR® qualified appliances. 	<p>To be addressed by resolution.</p>
<ul style="list-style-type: none"> Replace Founders Park pool heat pumps with new high-efficiency units and/or solar units. 	<p>Phased replacement of old heat pumps with higher efficiency units began during FY 09-10 with the replacement of four of the eighteen heat pumps.</p>
<ul style="list-style-type: none"> Install pool cover for Founders Park pool (for an estimated reduction of 10 to 20% of electrical consumption for pool heating and cooling). 	<p>Pool cover installation completed October 2009.</p>
<ul style="list-style-type: none"> Replace Founders Park street lights with solar lighting. 	<p>Cost estimates received during FY 08-09 were \$4,000 per light pole for each of the 70 street lights. Conversion to be considered in the future if improved technology or other factors reduce the cost.</p> <p>In July 2010, received approval of an Energy Efficiency and Conservation Block Grant (as subgrantee) to be utilized to retrofit Founders Park Street lighting (and other lighting on Village-owned properties) to solar lighting. Work to be completed during FY 10-11.</p>
<ul style="list-style-type: none"> Replace existing neighborhood street lighting with solar lighting. 	<p>Same as Founders Park street lights item.</p>
<ul style="list-style-type: none"> Utilize solar power to light “Welcome to Islamorada” signs at the north and south entrances to the Village. 	<p>In place prior to September 2007.</p>

• Manage Founders Park street lights for lowest possible energy use.	In place September 2007.
• Utilize state of the industry standards/practices for Founders Park field lighting.	In place September 2007.
• When possible, make arrangements for meetings to occur via conference call rather than having all participants drive to the meeting location.	Policy initiated August 2008 and included in updated Employee Policy.
• Encourage use of solar / photovoltaic systems by Islamorada property owners.	Adopted Resolution 08-12-07 in December 2008 to waive building permit fees for solar / photovoltaic system installation.
• Reduce overall electrical consumption for municipal offices and parks utilizing the methods listed in this section.	Reduced electrical consumption for municipal offices and parks by 11% during FY 08-09.
• Seek funding assistance for “ENERGY” goals / actions identified above as appropriate.	During FY 09-10, staff worked with the County to apply for funding through the State of Florida American Recovery and Reinvestment program / Energy Efficiency and Conservation Block Grant program. Grant approved in July 2010 for retrofit during FY 10-11.
• Phase out incandescent lighting in all Village buildings and properties.	

LAND

• Maintain and expand healthy tree canopies over certain roadways to provide for greater shade to residential areas for energy savings and to promote groundwater absorption.	In place prior to September 2007 and ongoing.
• Coordinate with FDOT to re-sod US 1 highway rights-of-ways rather than placing compacted lime rock. The sod may need to be protected with hedge materials.	Rights-of-way on Plantation Key sodded by FDOT following 08-09 roadway improvement projects.
• Acquire or train a roadways staff employee to become certified arborist (certification classes and certification exam could not be scheduled during FY 08-09.)	Employee training ongoing and employee to take certification exam during FY 10-11.
• Replace asphalt with pervious pavers / pervious materials where possible on publicly held land.	Pervious parking area (gravel) installed as part of Green Turtle Hammock improvements with grant funding during FY 10-11.

<ul style="list-style-type: none"> • Add rain barrels/cisterns to key properties to capture rainwater, allowing the water to be used for landscaping. 	<p>Cistern installed at Fire Station 19 during FY 07-08.</p>
<ul style="list-style-type: none"> • Revise right-of-way ordinance to ensure that swales are vegetated and kept free from debris and minimize traffic that would compact soils and reduce permeability. 	<p>Revisions to be proposed.</p>
<ul style="list-style-type: none"> • Preserve properties from development through conservation easements and agreements with Monroe County and the State of Florida. 	<p>Over 58 acres of property acquired prior to September 2007.</p> <p>“Key Tree Cactus Preserve” (nine acres) acquired during FY 08-09 for conservation and recreation.</p> <p>Additional properties will be considered for conservation.</p>
<ul style="list-style-type: none"> • Work with schools, various community agencies and citizens’ advisory committees for the planting of trees and greenery at Plantation Hammock Preserve, Plantation Tropical Preserve and other Village parks. 	<p>In place prior to September 2007 and ongoing.</p>
<ul style="list-style-type: none"> • Require businesses that use rights-of-way to plant or re-plant vegetation and trees. 	<p>Update of Chapter 50 of the Village Code to include a planting / restoration provision for use of right-of-way to be initiated.</p>
<ul style="list-style-type: none"> • Work with utility companies to restore vegetation, including re-sodding and tree planting. 	
<ul style="list-style-type: none"> • Work with neighborhood associations with culs de sac or streets ending in water for potential planting ideas to install landscaping to improve barren areas. 	<p>Completed two cul de sac improvements with landscaping during FY 07-08.</p> <p>Two additional cul de sac improvements completed during FY 08-09.</p>
<ul style="list-style-type: none"> • Provide more shaded walkable/bikeable lanes and communal parking by utilizing concepts in the US Post Office / Townsite Supermarket proposed project as shown in the 2003 TSM Study for downtown Islamorada. 	
<ul style="list-style-type: none"> • Provide more shaded walkable/bikeable lanes by utilizing concepts in the Worldwide Sportsman Store / Islamorada Fish Company proposed project as shown in the 2003 TSM Study for downtown Islamorada. 	

<ul style="list-style-type: none"> • Provide more shaded walkable/bikeable lanes and communal parking Village-wide parking along US Highway 1 by utilizing concepts as shown in the 2003 TSM Study for downtown Islamorada. 	
<ul style="list-style-type: none"> • Utilize native plants and xeriscaping at Village project sites. 	Only native plants were utilized in landscaping installed during FY 09-10 for the Administrative Center and Public Safety Headquarters.

AIR QUALITY/CO2 REDUCTION

<ul style="list-style-type: none"> • Identify locations to strategically plant native canopy trees that would provide ample shade with its canopy to cool temperatures and reduce air pollution. Plant six trees per year in public parks and rights-of-way. 	In place prior to September 2007 and ongoing.
<ul style="list-style-type: none"> • Require additional landscaping and buffers for projects requiring development orders. 	In place prior to September 2007.

STORMWATER

Village's stormwater master plan completed in 2001 and transmitted to officials at FDOT and FDEP.	In place prior to September 2007.
<ul style="list-style-type: none"> • Meet with FDOT on a regular basis to coordinate and review work performed by the FDOT. 	In place prior to September 2007 and ongoing.
<ul style="list-style-type: none"> • Make requests to FDOT for improvement projects. 	In place prior to September 2007 and requests are made annually.
<ul style="list-style-type: none"> • Complete remainder of the paving and drainage improvements on Upper Matecumbe Key. 	Construction budgeted for FY 07-08 and 08-09. Construction completed during FY 08-09.
<ul style="list-style-type: none"> • Utilize Stormwater Best Management Practices for drainage improvements. 	In place prior to September 2007 and ongoing.

<ul style="list-style-type: none"> • As part of the work to install driveway connections, swales, or similar method of stormwater management is currently required by Code. 	Requirement included in the Village Code prior to September 2007.
<ul style="list-style-type: none"> • As part of right of way permitting, increase required xeriscape plant materials for plantings in right-of-way from 75% to 100%. 	

WATER

<ul style="list-style-type: none"> • Low flow plumbing fixtures are in place in the Founders Park pool complex and Fire Station 20. 	In place prior to September 2007.
<ul style="list-style-type: none"> • LEED certification components (i.e. waterless toilets) could be utilized for additional water savings in new municipal building projects. 	<p>Included low pressure faucets, shower fixtures and minimum volume toilets wherever practicable in 2007 building projects (Community Center, Restroom Pavilion and Fire Station 19), to reduce water use and expenditures.</p> <p>Administrative Center & Public Safety Headquarters building construction plans include low flow (0.5 gallons per minute) sensor operated faucets in restrooms and a low flow (1.0 gallons per flush) urinal.</p>
<ul style="list-style-type: none"> • Utilize the minimum level of water necessary for Founders Park fields and landscaping to be properly maintained for use and for the pool and other facilities to function properly. 	In place September 2007.
<ul style="list-style-type: none"> • Utilize treated re-use water for field and greenery as it becomes available. 	<p>To be included in new wastewater projects.</p> <p>Reclaimed water line installed for future irrigation.</p>
<ul style="list-style-type: none"> • Water savings standards are currently included in the BPAS scoring system. 	In place prior to September 2007.
<ul style="list-style-type: none"> • Investigate additional LEED certification standards for BPAS scoring system. 	Additional LEED certifications standards considered; will not be included in BPAS scoring system due to difficulty with implementation.
<ul style="list-style-type: none"> • Install pool cover at Founders Park pool (for an estimated reduction of 10 to 20% water usage for the pool). 	Pool cover installation completed October 2009.

WASTE

<ul style="list-style-type: none"> • Create and post additional recycling information on website. 	<p>Information regarding recycling and environmental sustainability posted in new section of website beginning December 2008 and updated as new recycling opportunities become available.</p>
<ul style="list-style-type: none"> • Provide recycling bins up at public parks in Village. 	<p>Recycling pick-up and disposal services for parks included the solid waste contract beginning FY 08-09.</p> <p>Bid for recycling bins for parks advertised in September 2009. Mixed recycling/trash containers purchased and installed during FY 09-10.</p>
<ul style="list-style-type: none"> • Include alternatives for recycling in FY 08-09 solid waste contract. 	<p>Beginning October 2008, solid waste contract includes additional residential and commercial recycling and initiatives.</p> <p>Solid Waste contractor added the collection of electronics for recycling during FY 09-10.</p>
<ul style="list-style-type: none"> • Establish a recycling program at all Village facilities and encourage recycling by all staff and visitors. 	<p>In place September 2007 and included in Employee Policy.</p>
<ul style="list-style-type: none"> • Require Village staff to print and copy double-sided when possible. 	<p>In place September 2007 and included in Employee Policy.</p>
<ul style="list-style-type: none"> • Require Village staff to utilize electronic documents rather than printed documents when appropriate. 	<p>In place September 2007 and included in Employee Policy.</p>
<ul style="list-style-type: none"> • Distribute Village meeting packets electronically or as double-sided prints when appropriate. 	<p>Began making double-sided prints for Council agenda packets in September 2007.</p> <p>Purchase of computer hardware required for use of electronic packets for Council agenda under consideration for FY 10-11.</p>
<ul style="list-style-type: none"> • Utilize biodegradable trash bags at Founders Park. 	<p>Implemented April 2008.</p>

<ul style="list-style-type: none"> Utilize biodegradable trash bags in Village Office Buildings. 	Implemented June 2008.
<ul style="list-style-type: none"> Include a requirement in the <i>Village-owned Parks Special Events Policy</i> for mandatory recycling at events at Village parks. 	Implemented June 2008.
<ul style="list-style-type: none"> Include a condition in the temporary use permit application for mandatory recycling at permitted events. 	Implemented June 2008.
<ul style="list-style-type: none"> Encourage recycling at Vacation Rental properties by providing recycling information to be on the property for renters as well as contact information for the Solid Waste provider to make additional recycling containers readily available. 	Began August 2010 with full implementation to occur during 2011 application period.

TRANSPORTATION / FUEL

<ul style="list-style-type: none"> Develop a Bicycle/Pedestrian Transportation Master Plan (Comprehensive Plan Policy 2-1.5.1). 	Plan adopted October 2007.
<ul style="list-style-type: none"> Coordinate with FDOT to pave or sod specific areas along bike path within FDOT right-of-way to minimize impact to bike lanes from highway traffic. 	<p>Sodding completed on Plantation Key during FY 08-09 as part of FDOT construction projects.</p> <p>Sodding completed on Lower Matecumbe Key during FY 08-09 as part of FDOT construction projects.</p> <p>FDOT projects for Upper Matecumbe Key and Windley Key are on future years plan.</p>
<ul style="list-style-type: none"> Seek funding for a Transit (Bus) Pull-off Facility Preliminary Design. 	
<ul style="list-style-type: none"> Work with the FDOT as well as the Miami-Dade Transit Authority and Monroe County to plan and construct bus stops. 	In progress September 2007. Project not active since 2008.
<ul style="list-style-type: none"> Work with Monroe County and other governmental entities to encourage transportation companies to use clean fuel sources. This would likely need to be combined with an effort from Miami-Dade County to be effective. 	

<ul style="list-style-type: none"> • Purchase or lease vehicles with the highest fuel efficiency that are appropriate for the assigned task. 	<p>\$50,000 budgeted for Capital Replacement Fund to begin replacement of inefficient fleet vehicles in FY 08-09 and FY 09-10. Funds will be appropriated annually.</p> <p>First hybrid vehicle purchased in May 2009.</p>
<ul style="list-style-type: none"> • Auction retired Sheriff's Department vehicles and other vehicles that are not fuel efficient for Village tasks. 	<p>Auctioned six inefficient fleet vehicles in March 2009.</p>
<ul style="list-style-type: none"> • Have extremely inefficient vehicles destroyed for scrap to permanently remove them from the roadways. 	
<ul style="list-style-type: none"> • Implement anti-idling policy throughout all Village departments. 	<p>In place September 2007.</p>
<ul style="list-style-type: none"> • Encourage Village staff to carpool, rideshare, bike or walk to work, as appropriate. 	<p>Implemented during FY 07-08 through the Employee Policy.</p>
<ul style="list-style-type: none"> • Utilize pool vehicles rather than individual vehicles when practicable. 	<p>Reduced municipal vehicle fleet by four vehicles during FY 08-09.</p>

OTHER

<ul style="list-style-type: none"> • Continue environmental practices of the Clean Marina Program. 	<p>Received Clean Marina designation for Plantation Yacht Harbor Marina in 2004.</p> <p>Five Year Clean Marina Award received in April 2009.</p>
<ul style="list-style-type: none"> • Improve community awareness of environmental sustainability initiatives undertaken by the Village and encourage community involvement. 	<p>News box added to Village website in December 2008 includes Village sustainability initiatives and informational links is updated when new sustainable actions are implemented or new opportunities become available.</p> <p>Community education program included in Solid Waste contract approved in October 2008.</p>

Environmental Sustainability Plan September 2011

Islamorada, Village of Islands

In order to contribute to a greener planet, the Village of Islamorada seeks to enact policies to reduce global warming pollution levels and provide economic and quality of life benefits such as reduced energy bills, green space preservation, air quality improvements and energy conservation.

The Environmental Sustainability Plan was implemented in September 2007 and is updated on an annual basis.

This document includes actions that are currently in place and goals/actions that have been identified to be investigated for future implementation. The document is intended to be utilized as a tool to review sustainability actions that have been achieved and to identify and prioritize goals that may be accomplished in the next year and future years.

The document is designed to be reviewed annually to add/remove/modify the goals, update the status of items that have been implemented and identify those items that could be considered for implementation during the following fiscal year.

Environmental Sustainability Goal/Action

Status

ENERGY

• Include LEED energy certification components in plans for new Village building projects.	Included energy efficient fixtures and equipment as practicable and cost effective for 2007 building projects (Community Center, Restroom Pavilion and Fire Station 19). Administrative Center & Public Safety Headquarters is constructed with an energy efficient roof and energy efficient windows.
• Include LEED energy certification components in plans for Village building renovations.	
• Utilize energy efficient mechanical systems in building projects.	Included energy efficient equipment as practicable and cost effective for 2007 building projects (Community Center, Restroom Pavilion and Fire Station 19). Administrative Center & Public Safety Headquarters was constructed with energy efficient air conditioning.

<ul style="list-style-type: none"> • Energy saving standards are included in the BPAS scoring system. Encourage use of solar / photovoltaic systems by Islamorada property owners and investigate additional LEED energy certification standards for addition to the BPAS scoring system to promote increased energy savings in new development (i.e. solar hot water heating, “going off the FKEC grid”). 	<p>In place prior to September 2007.</p> <p>Adopted Resolution 08-12-07 in December 2008 to waive building permit fees for solar / photovoltaic system installation.</p> <p>Additional points for solar hot water heaters included in BPAS scoring system in October 2010.</p>
<ul style="list-style-type: none"> • Keep room temperatures no lower than 74 degrees during business hours and turn thermostats up to 78 degrees during non-business hours in all Village Buildings with limited exceptions (i.e. areas housing computer server systems). 	<p>Included in 9/26/08 Employee Policy update.</p>
<ul style="list-style-type: none"> • Install motion-sensing, auto-off light switches where appropriate at Village owned buildings. 	<p>Motion-activated lighting installed in Marina Restroom Pavilion and in the Community Center restrooms.</p> <p>Motion-activated lighting installed in Administrative Center and Public Safety Headquarters building in areas other than hallways and partitioned areas.</p> <p>Retrofitting of Anne’s Beach and Library Beach restroom lighting completed during FY 09-10.</p>
<ul style="list-style-type: none"> • Create and implement an Environmental Sustainability Policy for Village Employees (“Employee Policy”). 	<p>Employee Policy implemented 5/22/08, and is updated as new information become available.</p>
<ul style="list-style-type: none"> • Establish an energy conservation program/policy for all Village offices and buildings to include turning off lights and equipment when not in use. 	<p>Implemented during FY 07-08 through the Employee Policy.</p>
<ul style="list-style-type: none"> • As new equipment and appliances are required, procure energy efficient products that are ENERGY STAR® qualified or that are certified under the Federal Energy Management Program unless the products are shown not to be cost-effective on a life-cycle cost basis. 	<p>Implemented during FY 07-08 through the Employee Policy.</p> <p>Purchasing Policy and Procedure to be updated during FY 11-12.</p>
<ul style="list-style-type: none"> • Require affordable housing projects receiving Village assistance to install ENERGY STAR® qualified appliances. 	<p>To be addressed by resolution.</p>

<ul style="list-style-type: none"> • Implement measures to reduce electrical requirements for pool temperature management. 	<p>Pool cover installation completed October 2009.</p> <p>Phased replacement of old heat pumps with higher efficiency units began during FY 09-10 with the replacement of four of the eighteen heat pumps.</p> <p>Two additional heat pumps purchased during FY 10-11.</p> <p>Installation of propane flash heater to reduce run-time of heat pumps during cold weather to be installed early FY 11-12.</p>
<ul style="list-style-type: none"> • Replace Founders Park street lights with solar lighting. 	<p>Energy Efficiency and Conservation Block Grant retrofit of Founders Park Street lighting (and other lighting on Village-owned properties) to solar lighting – tasks are in progress. Work to be completed during FY 11-12.</p>
<ul style="list-style-type: none"> • Utilize solar power to light “Welcome to Islamorada” signs at the north and south entrances to the Village. 	<p>In place prior to September 2007.</p>
<ul style="list-style-type: none"> • Manage Founders Park street lights for lowest possible energy use. 	<p>In place September 2007.</p>
<ul style="list-style-type: none"> • Utilize state of the industry standards/practices for Founders Park field lighting. 	<p>In place September 2007.</p>
<ul style="list-style-type: none"> • When possible, make arrangements for meetings to occur via conference call rather than having all participants drive to the meeting location. 	<p>Policy initiated August 2008 and included in updated Employee Policy.</p>
<ul style="list-style-type: none"> • Reduce overall electrical consumption for municipal offices and parks utilizing the methods listed in this section. 	<p>Reduced electrical consumption for municipal offices and parks by 11% during FY 08-09.</p>
<ul style="list-style-type: none"> • Seek funding assistance for “ENERGY” goals / actions identified above as appropriate. 	<p>During FY 09-10, staff worked with the County to apply for funding through the State of Florida American Recovery and Reinvestment program / Energy Efficiency and Conservation Block Grant program. Grant approved in July 2010 for retrofit to be completed during FY 11-12.</p>
<ul style="list-style-type: none"> • Phase out incandescent lighting in all Village buildings and properties. 	

LAND

<ul style="list-style-type: none"> • Maintain and expand healthy tree canopies over certain roadways to provide for greater shade to residential areas for energy savings and to promote groundwater absorption. 	<p>In place prior to September 2007 and ongoing.</p>
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<ul style="list-style-type: none"> • Coordinate with FDOT to re-sod US 1 highway rights-of-ways rather than placing compacted lime rock. The sod may need to be protected with hedge materials. 	Rights-of-way on Plantation Key sodded by FDOT following 08-09 roadway improvement projects.
<ul style="list-style-type: none"> • Acquire or train a Public Works Department employee to become certified arborist. 	Employee training ongoing and employee to take certification exam during FY 11-12.
<ul style="list-style-type: none"> • Replace asphalt with pervious pavers / pervious materials where possible on publicly held land. 	Pervious parking area (gravel) installed as part of Green Turtle Hammock improvements with grant funding during FY 10-11.
<ul style="list-style-type: none"> • Add rain barrels/cisterns to key properties to capture rainwater, allowing the water to be used for landscaping. 	Cistern installed at Fire Station 19 during FY 07-08.
<ul style="list-style-type: none"> • Revise right-of-way ordinance to ensure that swales are vegetated and kept free from debris and minimize traffic that would compact soils and reduce permeability. 	Revisions to be submitted during FY 11-12 in amended ROW ordinance.
<ul style="list-style-type: none"> • Preserve properties from development through conservation easements and agreements with Monroe County and the State of Florida. 	Over 58 acres of property acquired prior to September 2007. “Key Tree Cactus Preserve” (nine acres) acquired during FY 08-09 for conservation and recreation. Additional properties will be considered for conservation.
<ul style="list-style-type: none"> • Work with schools, various community agencies and citizens’ advisory committees for the planting of trees and greenery at Village parks and properties. 	In place prior to September 2007 and ongoing.
<ul style="list-style-type: none"> • Require businesses that use rights-of-way to plant or re-plant vegetation and trees. 	Update of Chapter 50 of the Village Code to include a planting / restoration provision for use of right-of-way to be revised in FY 11-12.
<ul style="list-style-type: none"> • Work with utility companies to restore vegetation, including re-sodding and tree planting. 	
<ul style="list-style-type: none"> • Work with neighborhood associations with culs de sac or streets ending in water for potential planting ideas to install landscaping to improve barren areas. 	Completed two cul de sac improvements with landscaping during FY 07-08. Two additional cul de sac improvements completed during FY 08-09.

<ul style="list-style-type: none"> • Provide more shaded walkable/bikeable lanes and communal parking by utilizing concepts in the US Post Office / Townsite Supermarket proposed project as shown in the 2003 TSM Study for downtown Islamorada. 	
<ul style="list-style-type: none"> • Provide more shaded walkable/bikeable lanes by utilizing concepts in the Worldwide Sportsman Store / Islamorada Fish Company proposed project as shown in the 2003 TSM Study for downtown Islamorada. 	
<ul style="list-style-type: none"> • Provide more shaded walkable/bikeable lanes and communal parking Village-wide parking along US Highway 1 by utilizing concepts as shown in the 2003 TSM Study for downtown Islamorada. 	
<ul style="list-style-type: none"> • Utilize native plants at Village project sites. 	Only native plants were utilized in landscaping installed during FY 09-10 for the Administrative Center and Public Safety Headquarters resulting in no landscape irrigation.

AIR QUALITY/CO2 REDUCTION

<ul style="list-style-type: none"> • Identify locations to strategically plant native canopy trees that would provide ample shade with its canopy to cool temperatures and reduce air pollution. Plant six trees per year in public parks and rights-of-way. 	In place prior to September 2007 and ongoing.
<ul style="list-style-type: none"> • Require additional landscaping and buffers for projects requiring development orders. 	In place prior to September 2007.

STORMWATER

<ul style="list-style-type: none"> • Village's stormwater master plan completed in 2001 and transmitted to officials at FDOT and FDEP. 	In place prior to September 2007.
<ul style="list-style-type: none"> • Meet with FDOT on a regular basis to coordinate and review work performed by the FDOT. 	In place prior to September 2007 and ongoing.
<ul style="list-style-type: none"> • Make requests to FDOT for improvement projects. 	In place prior to September 2007 and requests are made annually.
<ul style="list-style-type: none"> • Complete remainder of the paving and drainage improvements on Upper Matecumbe Key. 	Construction completed during FY 08-09.

<ul style="list-style-type: none"> • Utilize Stormwater Best Management Practices for drainage improvements. 	In place prior to September 2007 and ongoing.
<ul style="list-style-type: none"> • As part of the work to install driveway connections, swales, or similar method of stormwater management is currently required by Code. 	Requirement included in the Village Code prior to September 2007.
<ul style="list-style-type: none"> • As part of right of way permitting, increase required native plant materials for plantings in right-of-way from 75% to 100%. 	Feasibility of increasing percentage of native plant materials to be researched by Public Works and Planning Departments during FY 11-12.

WATER

<ul style="list-style-type: none"> • Low flow plumbing fixtures are in place in the Founders Park pool complex and Fire Station 20. 	In place prior to September 2007.
<ul style="list-style-type: none"> • LEED certification components (i.e. waterless toilets) could be utilized for additional water savings in new municipal building projects. 	<p>Included low pressure faucets, shower fixtures and minimum volume toilets wherever practicable in 2007 building projects (Community Center, Restroom Pavilion and Fire Station 19), to reduce water use and expenditures.</p> <p>Administrative Center & Public Safety Headquarters building construction plans include low flow (0.5 gallons per minute) sensor operated faucets in restrooms and a low flow (1.0 gallons per flush) urinal.</p>
<ul style="list-style-type: none"> • Utilize the minimum level of water necessary for Founders Park fields and landscaping to be properly maintained for use and for the pool and other facilities to function properly. 	In place September 2007.
<ul style="list-style-type: none"> • Utilize treated re-use water for field and greenery as it becomes available. 	<p>To be considered for new wastewater facilities that may be constructed in the Village.</p> <p>Reclaimed water line installed for future irrigation at Founders Park.</p>
<ul style="list-style-type: none"> • Water savings standards are currently included in the BPAS scoring system. 	In place prior to September 2007.
<ul style="list-style-type: none"> • Investigate additional LEED certification standards for BPAS scoring system. 	Additional LEED certifications standards considered; will not be included in BPAS scoring system due to difficulty with implementation.
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<ul style="list-style-type: none"> • Create and post additional recycling information on website. 	<p>Information regarding recycling and environmental sustainability posted in new section of website beginning December 2008 and updated as new recycling opportunities become available.</p>
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<ul style="list-style-type: none"> • Distribute Village meeting packets electronically or as double-sided prints when appropriate. 	<p>Began making double-sided prints for Council agenda packets in September 2007.</p> <p>Paperless agenda preparation process was implemented in July 2011.</p> <p>Paper copies of the agenda provided to the public on request only beginning September 2011.</p> <p>Transition to paperless agenda use by Council and staff budgeted for FY 11-12.</p>
<ul style="list-style-type: none"> • Utilize biodegradable trash bags at Founders Park. 	<p>Implemented April 2008.</p>
<ul style="list-style-type: none"> • Utilize biodegradable trash bags in Village Office Buildings. 	<p>Implemented June 2008.</p>
<ul style="list-style-type: none"> • Include a requirement in the <i>Village-owned Parks Special Events Policy</i> for mandatory recycling at events at Village parks. 	<p>Implemented June 2008.</p>

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<ul style="list-style-type: none"> • Encourage recycling at Vacation Rental properties by providing recycling information to be on the property for renters as well as contact information for the Solid Waste provider to make additional recycling containers readily available. 	Began August 2010 with full implementation to occur during 2011 application period.

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<ul style="list-style-type: none"> • Develop a Bicycle/Pedestrian Transportation Master Plan (Comprehensive Plan Policy 2-1.5.1). 	Plan adopted October 2007.
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<ul style="list-style-type: none"> • Implement anti-idling policy throughout all Village departments. 	In place September 2007.
<ul style="list-style-type: none"> • Encourage Village staff to carpool, rideshare, bike or walk to work, as appropriate. 	Implemented during FY 07-08 through the Employee Policy.
<ul style="list-style-type: none"> • Reduce vehicle usage; utilize pool vehicles rather than individual vehicles when practicable. 	<p>Reduced municipal vehicle fleet by four vehicles during FY 08-09.</p> <p>Continued practice of lowest possible number of fleet vehicles in use (19 at FY 10-11 end).</p> <p>During FY 10-11, purchased two bicycles for Park and Public Works staff use between Park office and Administrative offices.</p>

OTHER

<ul style="list-style-type: none"> • Continue environmental practices of the Clean Marina Program. 	<p>Received Clean Marina designation for Plantation Yacht Harbor Marina in 2004.</p> <p>Five Year Clean Marina Award received in April 2009.</p>
<ul style="list-style-type: none"> • Improve community awareness of environmental sustainability initiatives undertaken by the Village and encourage community involvement. 	<p>News box added to Village website in December 2008 includes Village sustainability initiatives and informational links is updated when new sustainable actions are implemented or new opportunities become available.</p> <p>Community education program included in Solid Waste contract approved in October 2008.</p>

Environmental Sustainability Plan September 2012

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Environmental Sustainability Goal/Action

Status

ENERGY

• Include LEED energy certification components in plans for new Village building projects.	Included energy efficient fixtures and equipment as practicable and cost effective for 2007 building projects (Community Center, Restroom Pavilion and Fire Station 19). Administrative Center & Public Safety Headquarters is constructed with an energy efficient roof and energy efficient windows.
• Include LEED energy certification components in plans for Village building renovations.	
• Utilize energy efficient mechanical systems in building projects.	Included energy efficient equipment as practicable and cost effective for 2007 building projects (Community Center, Restroom Pavilion and Fire Station 19). Administrative Center & Public Safety Headquarters was constructed with energy efficient air conditioning.

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<ul style="list-style-type: none"> • Create and implement an Environmental Sustainability Policy for Village Employees (“Employee Policy”). 	<p>Employee Policy implemented 5/22/08, and is updated as new information becomes available.</p>
<ul style="list-style-type: none"> • Establish an energy conservation program/policy for all Village offices and buildings to include turning off lights and equipment when not in use. 	<p>Implemented during FY 07-08 through the Employee Policy.</p>
<ul style="list-style-type: none"> • As new equipment and appliances are required, procure energy efficient products that are ENERGY STAR® qualified or that are certified under the Federal Energy Management Program unless the products are shown not to be cost-effective on a life-cycle cost basis. 	<p>Implemented during FY 07-08 through the Employee Policy.</p> <p>Purchasing Policy and Procedure to be updated during FY 12-13.</p>
<ul style="list-style-type: none"> • Require affordable housing projects receiving Village assistance to install ENERGY STAR® qualified appliances. 	<p>To be addressed by resolution.</p>

<ul style="list-style-type: none"> • Implement measures to reduce electrical requirements for pool temperature management. 	<p>Pool cover installation completed October 2009.</p> <p>Phased replacement of old heat pumps with higher efficiency units began during FY 09-10 with the replacement of four of the eighteen heat pumps.</p> <p>Two additional heat pumps purchased during FY 10-11.</p> <p>Installation of propane flash heater to reduce run-time of heat pumps during cold weather installed FY 11-12.</p>
<ul style="list-style-type: none"> • Replace Founders Park street lights with solar lighting. 	<p>Energy Efficiency and Conservation Block Grant retrofit of Founders Park Street lighting (and other lighting on Village-owned properties) to solar lighting completed during FY 11-12.</p>
<ul style="list-style-type: none"> • Utilize solar power to light “Welcome to Islamorada” signs at the north and south entrances to the Village. 	<p>In place prior to September 2007.</p>
<ul style="list-style-type: none"> • Manage Founders Park street lights for lowest possible energy use. 	<p>In place September 2007.</p>
<ul style="list-style-type: none"> • Utilize state of the industry standards/practices for Founders Park field lighting. 	<p>In place September 2007.</p>
<ul style="list-style-type: none"> • When possible, make arrangements for meetings to occur via conference call rather than having all participants drive to the meeting location. 	<p>Policy initiated August 2008 and included in updated Employee Policy.</p>
<ul style="list-style-type: none"> • Reduce overall electrical consumption for municipal offices and parks utilizing the methods listed in this section. 	<p>Reduced electrical consumption for municipal offices and parks by 11% during FY 08-09.</p>
<ul style="list-style-type: none"> • Seek funding assistance for “ENERGY” goals / actions identified above as appropriate. 	<p>During FY 09-10, staff worked with the County to apply for funding through the State of Florida American Recovery and Reinvestment program / Energy Efficiency and Conservation Block Grant program. Grant approved in July 2010; retrofit completed during FY 11-12.</p>
<ul style="list-style-type: none"> • Phase out incandescent lighting in all Village buildings and properties. 	

LAND

<ul style="list-style-type: none"> • Maintain and expand healthy tree canopies over certain roadways to provide for greater shade to residential areas for energy savings and to promote groundwater absorption. 	<p>In place prior to September 2007 and ongoing.</p>
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<ul style="list-style-type: none"> • Coordinate with FDOT to re-sod US 1 highway rights-of-ways rather than placing compacted lime rock. The sod may need to be protected with hedge materials. 	Rights-of-way on Plantation Key sodded by FDOT following 08-09 roadway improvement projects.
<ul style="list-style-type: none"> • Acquire or train a Public Works Department employee to become certified arborist. 	Employee training ongoing and Assistant Public Works Director to take certification exam during FY 12-13.
<ul style="list-style-type: none"> • Replace asphalt with pervious pavers / pervious materials where possible on publicly held land. 	Pervious parking area (gravel) installed as part of Green Turtle Hammock improvements with grant funding during FY 10-11.
<ul style="list-style-type: none"> • Add rain barrels/cisterns to key properties to capture rainwater, allowing the water to be used for landscaping. 	Cistern installed at Fire Station 19 during FY 07-08.
<ul style="list-style-type: none"> • Revise right-of-way ordinance to ensure that swales are vegetated and kept free from debris and minimize traffic that would compact soils and reduce permeability. 	Revisions drafted during FY 11-12; to be proposed in amended ROW ordinance during FY 12-13.
<ul style="list-style-type: none"> • Preserve properties from development through conservation easements and agreements with Monroe County and the State of Florida. 	Over 58 acres of property acquired prior to September 2007. “Key Tree Cactus Preserve” (nine acres) acquired during FY 08-09 for conservation and recreation. Additional properties will be considered for conservation.
<ul style="list-style-type: none"> • Work with schools, various community agencies and citizens’ advisory committees for the planting of trees and greenery at Village parks and properties. 	In place prior to September 2007 and ongoing.
<ul style="list-style-type: none"> • Require businesses that use rights-of-way to plant or re-plant vegetation and trees. 	Update of Chapter 50 of the Village Code to include a planting / restoration provision for use of right-of-way revisions drafted in FY 11-12 to be proposed in amended ROW ordinance during FY 12-13.
<ul style="list-style-type: none"> • Work with utility companies to restore vegetation, including re-sodding and tree planting. 	
<ul style="list-style-type: none"> • Work with neighborhood associations with culs de sac or streets ending in water for potential planting ideas to install landscaping to improve barren areas. 	Completed two cul de sac improvements with landscaping during FY 07-08. Two additional cul de sac improvements completed during FY 08-09.

<ul style="list-style-type: none"> • Provide more shaded walkable/bikeable lanes and communal parking by utilizing concepts in the US Post Office / Townsite Supermarket proposed project as shown in the 2003 TSM Study for downtown Islamorada. 	
<ul style="list-style-type: none"> • Provide more shaded walkable/bikeable lanes by utilizing concepts in the Worldwide Sportsman Store / Islamorada Fish Company proposed project as shown in the 2003 TSM Study for downtown Islamorada. 	
<ul style="list-style-type: none"> • Provide more shaded walkable/bikeable lanes and communal parking Village-wide parking along US Highway 1 by utilizing concepts as shown in the 2003 TSM Study for downtown Islamorada. 	
<ul style="list-style-type: none"> • Utilize native plants at Village project sites. 	Only native plants were utilized in landscaping installed during FY 09-10 for the Administrative Center and Public Safety Headquarters resulting in no landscape irrigation.

AIR QUALITY/CO2 REDUCTION

<ul style="list-style-type: none"> • Identify locations to strategically plant native canopy trees that would provide ample shade with its canopy to cool temperatures and reduce air pollution. Plant six trees per year in public parks and rights-of-way. 	In place prior to September 2007 and ongoing.
<ul style="list-style-type: none"> • Require additional landscaping and buffers for projects requiring development orders. 	In place prior to September 2007.

STORMWATER

<ul style="list-style-type: none"> • Village's stormwater master plan completed in 2001 and transmitted to officials at FDOT and FDEP. 	In place prior to September 2007.
<ul style="list-style-type: none"> • Meet with FDOT on a regular basis to coordinate and review work performed by the FDOT. 	In place prior to September 2007 and ongoing.
<ul style="list-style-type: none"> • Make requests to FDOT for improvement projects. 	In place prior to September 2007 and requests are made annually.
<ul style="list-style-type: none"> • Complete remainder of the paving and drainage improvements on Upper Matecumbe Key. 	Construction completed during FY 08-09.

• Utilize Stormwater Best Management Practices for drainage improvements.	In place prior to September 2007 and ongoing.
• As part of the work to install driveway connections, swales, or similar method of stormwater management is currently required by Code.	Requirement included in the Village Code prior to September 2007.

WATER

• Low flow plumbing fixtures are in place in the Founders Park pool complex and Fire Station 20.	In place prior to September 2007.
• LEED certification components (i.e. waterless toilets) could be utilized for additional water savings in new municipal building projects.	Included low pressure faucets, shower fixtures and minimum volume toilets wherever practicable in 2007 building projects (Community Center, Restroom Pavilion and Fire Station 19), to reduce water use and expenditures. Administrative Center & Public Safety Headquarters building construction plans include low flow (0.5 gallons per minute) sensor operated faucets in restrooms and a low flow (1.0 gallons per flush) urinal.
• Utilize the minimum level of water necessary for Founders Park fields and landscaping to be properly maintained for use and for the pool and other facilities to function properly.	In place September 2007.
• Water savings standards are currently included in the BPAS scoring system.	In place prior to September 2007.
• Investigate additional LEED certification standards for BPAS scoring system.	Additional LEED certifications standards considered; will not be included in BPAS scoring system due to difficulty with implementation.
• Install pool cover at Founders Park pool (for an estimated reduction of 10 to 20% water usage for the pool).	Pool cover installation completed October 2009.

WASTE

• Create and post additional recycling information on website.	Information regarding recycling and environmental sustainability posted in new section of website beginning December 2008 and updated as new recycling opportunities become available.
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<ul style="list-style-type: none"> • Provide recycling bins up at public parks in Village. 	<p>Recycling pick-up and disposal services for parks included the solid waste contract beginning FY 08-09.</p> <p>Mixed recycling/trash containers purchased and installed during FY 09-10.</p>
<ul style="list-style-type: none"> • Include alternatives for recycling in solid waste contract. 	<p>Beginning October 2008, solid waste contract includes additional residential and commercial recycling and initiatives.</p> <p>Solid Waste contractor added the collection of electronics for recycling during FY 09-10.</p>
<ul style="list-style-type: none"> • Establish a recycling program at all Village facilities and encourage recycling by all staff and visitors. 	<p>In place September 2007 and included in Employee Policy.</p>
<ul style="list-style-type: none"> • Require Village staff to print and copy double-sided when possible. 	<p>In place September 2007 and included in Employee Policy.</p>
<ul style="list-style-type: none"> • Require Village staff to utilize electronic documents rather than printed documents when appropriate. 	<p>In place September 2007 and included in Employee Policy.</p>
<ul style="list-style-type: none"> • Distribute Village meeting packets electronically or as double-sided prints when appropriate. 	<p>Began making double-sided prints for Council agenda packets in September 2007.</p> <p>Paperless agenda preparation process was implemented in July 2011.</p> <p>Paper copies of the agenda provided to the public on request only beginning September 2011.</p> <p>Transition to paperless agenda use by Council tested during FY11-12. Will identify more suitable devices for paperless agendas in the future.</p>
<ul style="list-style-type: none"> • Utilize biodegradable trash bags at Founders Park. 	<p>Implemented April 2008.</p>
<ul style="list-style-type: none"> • Utilize biodegradable trash bags in Village Office Buildings. 	<p>Implemented June 2008.</p>
<ul style="list-style-type: none"> • Include a requirement in the <i>Village-owned Parks Special Events Policy</i> for mandatory recycling at events at Village parks. 	<p>Implemented June 2008.</p>
<ul style="list-style-type: none"> • Include a condition in the temporary use permit application for mandatory recycling at permitted events. 	<p>Implemented June 2008.</p>

<ul style="list-style-type: none"> • Encourage recycling at Vacation Rental properties by providing recycling information to be on the property for renters as well as contact information for the Solid Waste provider to make additional recycling containers readily available. 	<p>Began August 2010 with full implementation during the 2011 application period.</p>
<ul style="list-style-type: none"> • Promote voluntary use of reusable bags by businesses in Islamorada and residents. 	<p>Staff to begin with coordination with Chamber of Commerce during FY 12-13. Following first year of promotion, staff to provide report to the Village Council and request policy direction regarding continued actions.</p>

TRANSPORTATION / FUEL

<ul style="list-style-type: none"> • Develop a Bicycle/Pedestrian Transportation Master Plan (Comprehensive Plan Policy 2-1.5.1). 	<p>Plan adopted October 2007.</p>
<ul style="list-style-type: none"> • Coordinate with FDOT to pave or sod specific areas along bike path within FDOT right-of-way to minimize impact to bike lanes from highway traffic. 	<p>Sodding completed on Plantation Key during FY 08-09 as part of FDOT construction projects.</p> <p>Sodding completed on Lower Matecumbe Key during FY 08-09 as part of FDOT construction projects.</p> <p>FDOT projects for Upper Matecumbe Key and Windley Key are on future years plan.</p> <p>FY 11-12 sod installation included area adjacent to bike trail at MM 80.5, along southbound lane of Tea Table and adjacent to the northern section of bike trail on Lower Matecumbe Key.</p>
<ul style="list-style-type: none"> • Seek funding for a Transit (Bus) Pull-off Facility Preliminary Design. 	
<ul style="list-style-type: none"> • Work with the FDOT as well as the Miami-Dade Transit Authority and Monroe County to plan and construct bus stops. 	<p>In progress September 2007. Project not active since 2008.</p>
<ul style="list-style-type: none"> • Work with Monroe County and other governmental entities to encourage transportation companies to use clean fuel sources. 	

<ul style="list-style-type: none"> • Purchase or lease vehicles with the highest fuel efficiency that are appropriate for the assigned task. 	<p>\$50,000 budgeted for Capital Replacement Fund to begin replacement of inefficient fleet vehicles in FY 08-09 and FY 09-10. Funds will be appropriated annually.</p> <p>First hybrid vehicle purchased in May 2009.</p>
<ul style="list-style-type: none"> • Auction retired Sheriff's Department vehicles and other vehicles that are not fuel efficient for Village tasks. 	<p>Auctioned six inefficient fleet vehicles in March 2009.</p> <p>Auctioned 17 inefficient fleet vehicles in 2011.</p>
<ul style="list-style-type: none"> • Have extremely inefficient vehicles destroyed for scrap to permanently remove them from the roadways. 	<p>In 2012, two inefficient fleet vehicles were removed from fleet for destruction (utilized for fire rescue training).</p>
<ul style="list-style-type: none"> • Implement anti-idling policy throughout all Village departments. 	<p>In place September 2007.</p>
<ul style="list-style-type: none"> • Encourage Village staff to carpool, rideshare, bike or walk to work, as appropriate. 	<p>Implemented during FY 07-08 through the Employee Policy.</p>
<ul style="list-style-type: none"> • Reduce vehicle usage; utilize pool vehicles rather than individual vehicles when practicable. 	<p>Reduced municipal vehicle fleet by four vehicles during FY 08-09.</p> <p>Continued practice of lowest possible number of fleet vehicles in use</p> <ul style="list-style-type: none"> o 19 vehicles in use at FY 10-11 end o 21 vehicles in use at FY 11-12 end with goal to reduce to 20 <p>During FY 10-11, purchased two bicycles for Park and Public Works staff use between Park office and Administrative offices.</p>

OTHER

<ul style="list-style-type: none"> • Continue environmental practices of the Clean Marina Program. 	<p>Received Clean Marina designation for Plantation Yacht Harbor Marina in 2004.</p> <p>Five Year Clean Marina Award received in April 2009.</p>
<ul style="list-style-type: none"> • Improve community awareness of environmental sustainability initiatives undertaken by the Village and encourage community involvement. 	<p>News box added to Village website in December 2008 includes Village sustainability initiatives and informational links is updated when new sustainable actions are implemented or new opportunities become available.</p> <p>Community education program included in Solid Waste contract approved in October 2008.</p>

Environmental Sustainability Plan September 2013

Islamorada, Village of Islands

In order to contribute to a greener planet, the Village of Islamorada seeks to enact policies to reduce global warming pollution levels and provide economic and quality of life benefits such as reduced energy bills, green space preservation, air quality improvements and energy conservation.

The Environmental Sustainability Plan was implemented in September 2007 and is updated on an annual basis.

This document includes actions that are currently in place and goals/actions that have been identified to be investigated for future implementation. The document is intended to be utilized as a tool to review sustainability actions that have been achieved and to identify and prioritize goals that may be accomplished in the next year and future years.

The document is designed to be reviewed annually to add/remove/modify the goals, update the status of items that have been implemented and identify those items that could be considered for implementation during the following fiscal year.

Environmental Sustainability Goal/Action

Status

ENERGY

• Include LEED energy certification components in plans for new Village building projects.	Included energy efficient fixtures and equipment as practicable and cost effective for 2007 building projects (Community Center, Restroom Pavilion and Fire Station 19). Administrative Center & Public Safety Headquarters is constructed with an energy efficient roof and energy efficient windows.
• Include LEED energy certification components in plans for Village building renovations.	Included energy efficient equipment as practicable and cost effective for 2007 building projects (Community Center, Restroom Pavilion and Fire Station 19). Administrative Center & Public Safety Headquarters was constructed with energy efficient air conditioning.
• Utilize energy efficient mechanical systems in building projects.	Included energy efficient equipment as practicable and cost effective for 2007 building projects (Community Center, Restroom Pavilion and Fire Station 19). Administrative Center & Public Safety Headquarters was constructed with energy efficient air conditioning.

<ul style="list-style-type: none"> • Include energy saving standards in the BPAS scoring system. Encourage use of solar / photovoltaic systems by Islamorada property owners and investigate additional LEED energy certification standards for addition to the BPAS scoring system to promote increased energy savings in new development (i.e. solar hot water heating, “going off the FKEC grid”). 	<p>In place prior to September 2007.</p> <p>Adopted Resolution 08-12-07 in December 2008 to waive building permit fees for solar / photovoltaic system installation.</p> <p>Additional points for solar hot water heaters included in BPAS scoring system in October 2010.</p>
<ul style="list-style-type: none"> • Keep room temperatures no lower than 74 degrees during business hours and turn thermostats up to 78 degrees during non-business hours in all Village Buildings with limited exceptions (i.e. areas housing computer server systems). 	<p>Included in 9/26/08 Employee Policy update.</p>
<ul style="list-style-type: none"> • Install motion-sensing, auto-off light switches where appropriate at Village owned buildings. 	<p>Motion-activated lighting installed in Marina Restroom Pavilion and in the Community Center restrooms.</p> <p>Motion-activated lighting installed in Administrative Center and Public Safety Headquarters building in areas other than hallways and partitioned areas.</p> <p>Retrofitting of Anne’s Beach and Library Beach restroom lighting completed during FY 09-10.</p>
<ul style="list-style-type: none"> • Create and implement an Environmental Sustainability Policy for Village Employees (“Employee Policy”). 	<p>Employee Policy implemented 5/22/08, and is updated as new information becomes available.</p>
<ul style="list-style-type: none"> • Establish an energy conservation program/policy for all Village offices and buildings to include turning off lights and equipment when not in use. 	<p>Implemented during FY 07-08 through the Employee Policy.</p>
<ul style="list-style-type: none"> • As new equipment and appliances are required, procure energy efficient products that are ENERGY STAR® qualified or that are certified under the Federal Energy Management Program unless the products are shown not to be cost-effective on a life-cycle cost basis. 	<p>Implemented during FY 07-08 through the Employee Policy.</p> <p>Purchasing Policy and Procedure to be updated during FY 13-14.</p>
<ul style="list-style-type: none"> • Require affordable housing projects receiving Village assistance to install ENERGY STAR® qualified appliances. 	<p>To be addressed by resolution.</p> <p>Gorman & Company to install ENERGY STAR® qualified appliances in Wet Net Villas affordable rental development (to begin leasing in 2013).</p>

<ul style="list-style-type: none"> • Implement measures to reduce electrical requirements for pool temperature management. 	<p>Pool cover installation completed October 2009.</p> <p>Phased replacement of old heat pumps with higher efficiency units began during FY 09-10 with the replacement of four of the eighteen heat pumps.</p> <p>Two additional heat pumps purchased during FY 10-11.</p> <p>Installation of propane flash heater to reduce run-time of heat pumps during cold weather installed FY 11-12.</p> <p>FY 13-14 budget includes the purchase of the final six pool heat pumps to replace the remainder of the original and older inefficient units.</p>
<ul style="list-style-type: none"> • Replace Founders Park street lights with solar lighting. 	<p>Energy Efficiency and Conservation Block Grant retrofit of Founders Park Street lighting (and other lighting on Village-owned properties) to solar lighting completed during FY 11-12.</p>
<ul style="list-style-type: none"> • Utilize solar power to light “Welcome to Islamorada” signs at the north and south entrances to the Village. 	<p>In place prior to September 2007.</p>
<ul style="list-style-type: none"> • Manage Founders Park street lights for lowest possible energy use. 	<p>In place September 2007.</p>
<ul style="list-style-type: none"> • Utilize state of the industry standards/practices for Founders Park field lighting. 	<p>In place September 2007.</p>
<ul style="list-style-type: none"> • When possible, make arrangements for meetings to occur via conference call rather than having all participants drive to the meeting location. 	<p>Policy initiated August 2008 and included in updated Employee Policy.</p>
<ul style="list-style-type: none"> • Reduce overall electrical consumption for municipal offices and parks utilizing the methods listed in this section. 	<p>Reduced electrical consumption for municipal offices and parks by 11% during FY 08-09. Methods to reduce electrical consumption have continued.</p>
<ul style="list-style-type: none"> • Seek funding assistance for “ENERGY” goals / actions identified above as appropriate. 	<p>During FY 09-10, staff worked with the County to apply for funding through the State of Florida American Recovery and Reinvestment program / Energy Efficiency and Conservation Block Grant program. Grant approved in July 2010; retrofit completed during FY 11-12.</p>
<ul style="list-style-type: none"> • Phase out incandescent lighting in all Village buildings and properties. 	<p>By 2013, all incandescent lighting has been replaced in Village buildings with the exception of Green Turtle Hammock Park which is currently undergoing renovations by the non-profit Operator.</p>

LAND

<ul style="list-style-type: none"> • Maintain and expand healthy tree canopies over certain roadways to provide for greater shade to residential areas for energy savings and to promote groundwater absorption. 	<p>In place prior to September 2007 and ongoing.</p>
<ul style="list-style-type: none"> • Coordinate with FDOT to re-sod US 1 highway rights-of-ways rather than placing compacted lime rock. The sod may need to be protected with hedge materials. 	<p>Rights-of-way on Plantation Key sodded by FDOT following 08-09 roadway improvement projects.</p> <p>During FY 12-13 the Snake Creek Bridge to MM 87.3 FDOT US 1 beautification project was completed.</p>
<ul style="list-style-type: none"> • Consistently maintain a certified arborist as a Parks and Recreation or Public Works staff member to provide any necessary consultations or information for staff responsible for trimming, mowing and planting; provide regular training for all Public Works staff. 	<p>Staff member has certified arborist credentials.</p> <p>To sustain native vegetation, Public Works staff receive ongoing training on invasive exotic recognition and removal techniques as well as herbicide and arborist training throughout the year.</p>
<ul style="list-style-type: none"> • Replace asphalt with pervious pavers / pervious materials where possible on publicly held land. 	<p>Pervious parking area (gravel) installed as part of Green Turtle Hammock improvements with grant funding during FY 10-11.</p>
<ul style="list-style-type: none"> • Add rain barrels/cisterns to key properties to capture rainwater, allowing the water to be used for landscaping. 	<p>Cistern installed at Fire Station 19 during FY 07-08.</p>
<ul style="list-style-type: none"> • Revise right-of-way ordinance to ensure that swales are vegetated and kept free from debris and minimize traffic that would compact soils and reduce permeability. 	<p>Revisions drafted during FY 11-12; to be proposed in amended ROW ordinance during FY 13-14.</p>
<ul style="list-style-type: none"> • Preserve properties from development through conservation easements and agreements with Monroe County and the State of Florida. 	<p>Over 58 acres of property acquired prior to September 2007.</p> <p>“Key Tree Cactus Preserve” (nine acres) acquired during FY 08-09 for conservation and recreation.</p> <p>Additional properties continue to be considered for conservation.</p>
<ul style="list-style-type: none"> • Work with schools, various community agencies and citizens’ advisory committees for the planting of trees and greenery at Village parks and properties. 	<p>In place prior to September 2007 and ongoing.</p> <p>Small projects are completed regularly and during FY 12-13, the Village’s Landscape Advisory Committee worked in coordination with Public Works and the Florida Keys Electric Cooperative to complete a substantial planting project - 224 total plantings - at Plantation Tropical Preserve.</p>
<ul style="list-style-type: none"> • Require businesses that use rights-of-way to plant or re-plant vegetation and trees. 	<p>Update of Chapter 50 of the Village Code to include a planting / restoration provision for use of right-of-way revisions drafted in FY 11-12 to be proposed in amended ROW ordinance during FY 13-14.</p>

<ul style="list-style-type: none"> • Work with utility companies to restore vegetation, including re-sodding and tree planting. 	
<ul style="list-style-type: none"> • Work with neighborhood associations with culs de sac or streets ending in water for potential planting ideas to install landscaping to improve barren areas. 	<p>Completed two cul de sac improvements with landscaping during FY 07-08. Two additional cul de sac improvements completed during FY 08-09.</p>
<ul style="list-style-type: none"> • Provide more shaded walkable/bikeable lanes and communal parking by utilizing concepts in the US Post Office / Townsite Supermarket proposed project as shown in the 2003 TSM Study for downtown Islamorada. 	
<ul style="list-style-type: none"> • Provide more shaded walkable/bikeable lanes by utilizing concepts in the Worldwide Sportsman Store / Islamorada Fish Company proposed project as shown in the 2003 TSM Study for downtown Islamorada. 	
<ul style="list-style-type: none"> • Provide more shaded walkable/bikeable lanes and communal parking Village-wide parking along US Highway 1 by utilizing concepts as shown in the 2003 TSM Study for downtown Islamorada. 	

AIR QUALITY/CO2 REDUCTION

<ul style="list-style-type: none"> • Identify locations to strategically plant native canopy trees that would provide ample shade with its canopy to cool temperatures and reduce air pollution. Plant six trees per year in public parks and rights-of-way. 	In place prior to September 2007 and ongoing.
<ul style="list-style-type: none"> • Require additional landscaping and buffers for projects requiring development orders. 	In place prior to September 2007.

STORMWATER

<ul style="list-style-type: none"> • Village's stormwater master plan completed in 2001 and transmitted to officials at FDOT and FDEP. 	In place prior to September 2007.
<ul style="list-style-type: none"> • Meet with FDOT on a regular basis to coordinate and review work performed by the FDOT. 	In place prior to September 2007 and ongoing.
<ul style="list-style-type: none"> • Make requests to FDOT for improvement projects. 	In place prior to September 2007 and requests are made annually.

• Complete remainder of the paving and drainage improvements on Upper Matecumbe Key.	Construction completed during FY 08-09.
• Utilize Stormwater Best Management Practices for drainage improvements.	In place prior to September 2007 and ongoing.
• As part of the work to install driveway connections, swales, or similar method of stormwater management is currently required by Code.	Requirement included in the Village Code prior to September 2007.

WATER

• Low flow plumbing fixtures are in place in the Founders Park pool complex and Fire Station 20.	In place prior to September 2007.
• LEED certification components (i.e. waterless toilets) could be utilized for additional water savings in new municipal building projects.	Included low pressure faucets, shower fixtures and minimum volume toilets wherever practicable in 2007 building projects (Community Center, Restroom Pavilion and Fire Station 19), to reduce water use and expenditures. Low flow (0.5 gallons per minute) sensor operated faucets in restrooms and a low flow (1.0 gallons per flush) urinal installed during construction of Administrative Center & Public Safety Headquarters.
• Utilize the minimum level of water necessary for Founders Park fields and landscaping to be properly maintained for use and for the pool and other facilities to function properly.	In place September 2007.
• Include water savings standards in the BPAS scoring system.	In place prior to September 2007.
• Investigate additional LEED certification standards for BPAS scoring system.	Additional LEED certifications standards considered; will not be included in BPAS scoring system due to difficulty with implementation.
• Install pool cover at Founders Park pool (for an estimated reduction of 10 to 20% water usage for the pool).	Pool cover installation completed October 2009.
• Utilize native plants at Village project sites.	Only native plants were utilized in landscaping installed during FY 09-10 for the Administrative Center and Public Safety Headquarters resulting in no landscape irrigation. Site specific native vegetation to be installed at all of the proposed wastewater pump station sites to be constructed beginning 2013. Wet Net Villas affordable rental housing project to be complete in 2013 will include native plants and low-water plants, resulting in no irrigation requirements.

WASTE

<ul style="list-style-type: none"> • Create and post additional recycling information on website. 	<p>Information regarding recycling and environmental sustainability posted in new section of website beginning December 2008 and updated as new recycling opportunities become available.</p>
<ul style="list-style-type: none"> • Provide recycling bins up at public parks in Village. 	<p>Recycling pick-up and disposal services for parks included the solid waste contract beginning FY 08-09.</p> <p>Mixed recycling/trash containers purchased and installed during FY 09-10.</p>
<ul style="list-style-type: none"> • Include alternatives for recycling in solid waste contract. 	<p>Beginning October 2008, solid waste contract includes additional residential and commercial recycling and initiatives.</p> <p>Solid Waste contractor added the collection of electronics for recycling during FY 09-10.</p> <p>2013 Request for Proposals for Solid Waste Services draft agreement requires mandatory recycling for commercial customers in conjunction with a new ordinance.</p>
<ul style="list-style-type: none"> • Establish a recycling program at all Village facilities and encourage recycling by all residents, staff and visitors. 	<p>In place September 2007 and included in Employee Policy.</p>
<ul style="list-style-type: none"> • Require Village staff to print and copy double-sided when possible. 	<p>In place September 2007 and included in Employee Policy.</p>
<ul style="list-style-type: none"> • Require Village staff to utilize electronic documents rather than printed documents when appropriate. 	<p>In place September 2007 and included in Employee Policy.</p>
<ul style="list-style-type: none"> • Distribute Village meeting packets electronically or as double-sided prints when appropriate. 	<p>Began making double-sided prints for Council agenda packets in September 2007.</p> <p>Paperless agenda preparation process was implemented in July 2011.</p> <p>Paper copies of the agenda provided to the public on request only beginning September 2011.</p> <p>Transition to paperless agenda use by Council tested during FY11-12. Will identify more suitable devices for paperless agendas in the future.</p>
<ul style="list-style-type: none"> • Utilize biodegradable trash bags at Founders Park. 	<p>Implemented April 2008.</p>
<ul style="list-style-type: none"> • Utilize biodegradable trash bags in Village Office Buildings. 	<p>Implemented June 2008.</p>

<ul style="list-style-type: none"> • Include a requirement in the <i>Village-owned Parks Special Events Policy</i> for mandatory recycling at events at Village parks. 	Implemented June 2008.
<ul style="list-style-type: none"> • Include a condition in the temporary use permit application for mandatory recycling at permitted events. 	Implemented June 2008.
<ul style="list-style-type: none"> • Encourage recycling at Vacation Rental properties. 	Beginning August 2010, recycling information provided with license as well as information to assist renters with contacting the Solid Waste provider for delivery of additional recycling containers.
<ul style="list-style-type: none"> • Promote voluntary use of reusable bags by businesses in Islamorada and residents. 	Bags to be purchased early FY 12-13 to begin promoting voluntary use of reusable bags through <i>Got Your Bags</i> program.

TRANSPORTATION / FUEL

<ul style="list-style-type: none"> • Develop a Bicycle/Pedestrian Transportation Master Plan (Comprehensive Plan Policy 2-1.5.1). 	Plan adopted October 2007.
<ul style="list-style-type: none"> • Coordinate with FDOT to pave or sod specific areas along bike path within FDOT right-of-way to minimize impact to bike lanes from highway traffic. 	<p>Sodding completed on Plantation Key during FY 08-09 as part of FDOT construction projects.</p> <p>Sodding completed on Lower Matecumbe Key during FY 08-09 as part of FDOT construction projects.</p> <p>FDOT projects for Upper Matecumbe Key and Windley Key are on future years plan.</p> <p>FY 11-12 sod installation included area adjacent to bike trail at MM 80.5, along southbound lane of Tea Table and adjacent to the northern section of bike trail on Lower Matecumbe Key.</p>
<ul style="list-style-type: none"> • Purchase or lease vehicles with the highest fuel efficiency that are appropriate for the assigned task. 	<p>\$50,000 budgeted for Capital Replacement Fund to begin replacement of inefficient fleet vehicles in FY 08-09 and FY 09-10. Funds will be appropriated annually.</p> <p>First hybrid vehicle purchased in May 2009.</p>
<ul style="list-style-type: none"> • Auction retired Sheriff's Department vehicles and other vehicles that are not fuel efficient for Village tasks. 	<p>Auctioned six inefficient fleet vehicles in March 2009.</p> <p>Auctioned 17 inefficient fleet vehicles in 2011.</p>
<ul style="list-style-type: none"> • Have extremely inefficient vehicles destroyed for scrap to permanently remove them from the roadways. 	In 2012, two inefficient fleet vehicles were removed from fleet for destruction (utilized for fire rescue training).

<ul style="list-style-type: none"> • Implement anti-idling policy throughout all Village departments. 	In place September 2007.
<ul style="list-style-type: none"> • Encourage Village staff to carpool, rideshare, bike or walk to work, as appropriate. 	Implemented during FY 07-08 through the Employee Policy.
<ul style="list-style-type: none"> • Reduce vehicle usage; utilize pool vehicles rather than individual vehicles when practicable. 	<p>Reduced municipal vehicle fleet by four vehicles during FY 08-09.</p> <p>Continued practice of lowest possible number of fleet vehicles in use</p> <ul style="list-style-type: none"> ○ 19 vehicles in use at FY 10-11 end ○ 21 vehicles in use at FY 11-12 <p>During FY 10-11, purchased two bicycles for Park and Public Works staff use between Park office and Administrative offices.</p>

OTHER

<ul style="list-style-type: none"> • Continue environmental practices of the Clean Marina Program. 	<p>Received Clean Marina designation for Plantation Yacht Harbor Marina in 2004.</p> <p>Five Year Clean Marina Award received in April 2009.</p>
<ul style="list-style-type: none"> • Improve community awareness of environmental sustainability initiatives undertaken by the Village and encourage community involvement. 	<p>News box added to Village website in December 2008 includes Village sustainability initiatives and informational links is updated when new sustainable actions are implemented or new opportunities become available.</p> <p>Community education program included in Solid Waste contract approved in October 2008.</p> <p>Increased advertising, additional direct public relations presentations to school groups, community groups and the media to promote recycling are included in 2013 Request for Proposals for Solid Waste Services draft agreement.</p> <p>In conjunction with implementation of mandatory commercial recycling during FY 13-14, a new position Sustainability Coordinator may be recommended.</p>
<ul style="list-style-type: none"> • Determine the feasibility of a Canal Restoration Program following the completion of the County's Keys-wide Canal Management Master Plan. 	<p>During FY 12-13, the Village Council committed up to \$100,000 toward canal restoration project expenditures.</p> <p>During FY 12-13, the Village entered into an Agreement with a consultant to select a canal for a canal restoration demonstration project to begin during FY 13-14.</p>

Environmental Sustainability Plan September 2014

Islamorada, Village of Islands

In order to contribute to a greener planet, the Village of Islamorada seeks to enact policies to reduce global warming pollution levels and provide economic and quality of life benefits such as reduced energy bills, green space preservation, air quality improvements and energy conservation.

The Environmental Sustainability Plan was implemented in September 2007 and is updated on an annual basis.

This document includes actions that are currently in place and goals/actions that have been identified to be investigated for future implementation. The document is intended to be utilized as a tool to review sustainability actions that have been achieved and to identify and prioritize goals that may be accomplished in the next year and future years.

The document is designed to be reviewed annually to add/remove/modify the goals, update the status of items that have been implemented and identify those items that could be considered for implementation during the following fiscal year.

Environmental Sustainability Goal/Action

Status

ENERGY

• Include LEED energy certification components in plans for new Village building projects.	Included energy efficient fixtures and equipment as practicable and cost effective for 2007 building projects (Community Center, Restroom Pavilion and Fire Station 19). Administrative Center & Public Safety Headquarters is constructed with an energy efficient roof and energy efficient windows.
• Include LEED energy certification components in plans for Village building renovations.	
• Utilize energy efficient mechanical systems in building projects.	Included energy efficient equipment as practicable and cost effective for 2007 building projects (Community Center, Restroom Pavilion and Fire Station 19). Administrative Center & Public Safety Headquarters was constructed with energy efficient air conditioning.

<ul style="list-style-type: none"> • Include energy saving standards in the BPAS scoring system. Encourage use of solar / photovoltaic systems by Islamorada property owners and investigate additional LEED energy certification standards for addition to the BPAS scoring system to promote increased energy savings in new development (i.e. solar hot water heating, “going off the FKEC grid”). 	<p>In place prior to September 2007.</p> <p>Adopted Resolution 08-12-07 in December 2008 to waive building permit fees for solar / photovoltaic system installation.</p> <p>Additional points for solar hot water heaters included in BPAS scoring system in October 2010.</p>
<ul style="list-style-type: none"> • Keep room temperatures no lower than 74 degrees during business hours and turn thermostats up to 78 degrees during non-business hours in all Village Buildings with limited exceptions (i.e. areas housing computer server systems). 	<p>Included in 9/26/08 Employee Policy update.</p>
<ul style="list-style-type: none"> • Install motion-sensing, auto-off light switches where appropriate at Village owned buildings. 	<p>Motion-activated lighting installed in Marina Restroom Pavilion and in the Community Center restrooms.</p> <p>Motion-activated lighting installed in Administrative Center and Public Safety Headquarters building in areas other than hallways and partitioned areas.</p> <p>Retrofitting of Anne’s Beach and Library Beach restroom lighting completed during FY 09-10.</p>
<ul style="list-style-type: none"> • Create and implement an Environmental Sustainability Policy for Village Employees (“Employee Policy”). 	<p>Employee Policy implemented 5/22/08, and is updated as new information becomes available.</p>
<ul style="list-style-type: none"> • Establish an energy conservation program/policy for all Village offices and buildings to include turning off lights and equipment when not in use. 	<p>Implemented during FY 07-08 through the Employee Policy.</p>
<ul style="list-style-type: none"> • As new equipment and appliances are required, procure energy efficient products that are ENERGY STAR® qualified or that are certified under the Federal Energy Management Program unless the products are shown not to be cost-effective on a life-cycle cost basis. 	<p>Implemented during FY 07-08 through the Employee Policy.</p> <p>Purchasing Policy and Procedure to be updated during FY 13-14.</p>
<ul style="list-style-type: none"> • Require affordable housing projects receiving Village assistance to install ENERGY STAR® qualified appliances. 	<p>To be addressed by resolution.</p> <p>Gorman & Company installed ENERGY STAR® qualified appliances in Wet Net Villas affordable rental development (began leasing in 2013).</p>

<ul style="list-style-type: none"> • Implement measures to reduce electrical requirements for pool temperature management. 	<p>Pool cover installation completed October 2009.</p> <p>Phased replacement of old heat pumps with higher efficiency units began during FY 09-10 with the replacement of four of the eighteen heat pumps.</p> <p>Two additional heat pumps purchased during FY 10-11.</p> <p>Installation of propane flash heater to reduce run-time of heat pumps during cold weather installed FY 11-12.</p> <p>FY 13-14 budget includes the purchase of the final six pool heat pumps to replace the remainder of the original and older inefficient units.</p>
<ul style="list-style-type: none"> • Replace Founders Park street lights with solar lighting. 	<p>Energy Efficiency and Conservation Block Grant retrofit of Founders Park Street lighting (and other lighting on Village-owned properties) to solar lighting completed during FY 11-12.</p>
<ul style="list-style-type: none"> • Utilize solar power to light “Welcome to Islamorada” signs at the north and south entrances to the Village. 	<p>In place prior to September 2007.</p>
<ul style="list-style-type: none"> • Manage Founders Park street lights for lowest possible energy use. 	<p>In place September 2007.</p>
<ul style="list-style-type: none"> • Utilize state of the industry standards/practices for Founders Park field lighting. 	<p>In place September 2007.</p>
<ul style="list-style-type: none"> • When possible, make arrangements for meetings to occur via conference call rather than having all participants drive to the meeting location. 	<p>Policy initiated August 2008 and included in updated Employee Policy.</p> <p>During FY 14-15, consider purchase of 360 camera(s) to make on-line meetings and trainings more effective.</p>
<ul style="list-style-type: none"> • Reduce overall electrical consumption for municipal offices and parks utilizing the methods listed in this section. 	<p>Reduced electrical consumption for municipal offices and parks by 11% during FY 08-09. Methods to reduce electrical consumption have continued.</p>
<ul style="list-style-type: none"> • Seek funding assistance for “ENERGY” goals / actions identified above as appropriate. 	<p>During FY 09-10, staff worked with the County to apply for funding through the State of Florida American Recovery and Reinvestment program / Energy Efficiency and Conservation Block Grant program. Grant approved in July 2010; retrofit completed during FY 11-12.</p>
<ul style="list-style-type: none"> • Phase out incandescent lighting and update to LED lighting in all Village buildings and properties. 	<p>By 2013, all incandescent lighting has been replaced in Village buildings with the exception of Green Turtle Hammock Park which is currently undergoing renovations by the non-profit Operator.</p> <p>Consideration of appropriate locations for LED lighting to be considered during FY 14-15.</p>

LAND

<ul style="list-style-type: none"> • Maintain and expand healthy tree canopies over certain roadways to provide for greater shade to residential areas for energy savings and to promote groundwater absorption. 	<p>In place prior to September 2007 and ongoing.</p>
<ul style="list-style-type: none"> • Coordinate with FDOT to re-sod US 1 highway rights-of-ways rather than placing compacted lime rock. The sod may need to be protected with hedge materials. 	<p>Rights-of-way on Plantation Key sodded by FDOT following 08-09 roadway improvement projects.</p> <p>During FY 12-13 the Snake Creek Bridge to MM 87.3 FDOT US 1 beautification project was completed.</p>
<ul style="list-style-type: none"> • Consistently maintain a certified arborist as a Parks and Recreation or Public Works staff member to provide any necessary consultations or information for staff responsible for trimming, mowing and planting; provide regular training for all Public Works staff. 	<p>Staff member has certified arborist credentials.</p> <p>To sustain native vegetation, Public Works staff receive ongoing training on invasive exotic recognition and removal techniques as well as herbicide and arborist training throughout the year.</p> <p>FY 14-15 budget includes new employment position of Environmental Resource Program Manager. Expertise provided by this staff member to be available to Public Works employees.</p>
<ul style="list-style-type: none"> • Replace asphalt with pervious pavers / pervious materials where possible on publicly held land. 	<p>Pervious parking area (gravel) installed as part of Green Turtle Hammock improvements with grant funding during FY 10-11.</p>
<ul style="list-style-type: none"> • Add rain barrels/cisterns to key properties to capture rainwater, allowing the water to be used for landscaping. 	<p>Cistern installed at Fire Station 19 during FY 07-08.</p>
<ul style="list-style-type: none"> • Revise right-of-way ordinance to ensure that swales are vegetated and kept free from debris and minimize traffic that would compact soils and reduce permeability. 	<p>Revisions drafted during FY 11-12; to be proposed in amended ROW ordinance during FY 14-15.</p>
<ul style="list-style-type: none"> • Preserve properties from development through conservation easements and agreements with Monroe County and the State of Florida. 	<p>Over 58 acres of property acquired prior to September 2007.</p> <p>“Key Tree Cactus Preserve” (nine acres) acquired during FY 08-09 for conservation and recreation.</p> <p>Three Plantation Key properties (approximately 1.5 acres) acquired for conservation during FY 13-14.</p> <p>Additional properties continue to be considered for conservation.</p>
<ul style="list-style-type: none"> • Work with schools, various community agencies and citizens’ advisory committees for the planting of trees and greenery at Village parks and properties. 	<p>In place prior to September 2007 and ongoing.</p> <p>Small projects are completed regularly and during FY 12-13, the Village’s Landscape Advisory Committee worked in coordination with Public Works</p>

and the Florida Keys Electric Cooperative to complete a substantial planting project - 224 total plantings - at Plantation Tropical Preserve.

- Require businesses that use rights-of-way to plant or re-plant vegetation and trees.

Update of Chapter 50 of the Village Code to include a planting / restoration provision for use of right-of-way revisions drafted in FY 11-12 to be proposed in amended ROW ordinance during FY 14-15.

- Work with utility companies to restore vegetation, including re-sodding and tree planting.

- Work with neighborhood associations with culs de sac or streets ending in water for potential planting ideas to install landscaping to improve barren areas.

Completed two cul de sac improvements with landscaping during FY 07-08. Two additional cul de sac improvements completed during FY 08-09.

- Provide more shaded walkable/bikeable lanes and communal parking by utilizing concepts in the US Post Office / Townsite Supermarket proposed project as shown in the 2003 TSM Study for downtown Islamorada.

- Provide more shaded walkable/bikeable lanes by utilizing concepts in the Worldwide Sportsman Store / Islamorada Fish Company proposed project as shown in the 2003 TSM Study for downtown Islamorada.

- Provide more shaded walkable/bikeable lanes and communal parking Village-wide parking along US Highway 1 by utilizing concepts as shown in the 2003 TSM Study for downtown Islamorada.

AIR QUALITY/CO2 REDUCTION

- Identify locations to strategically plant native canopy trees that would provide ample shade with its canopy to cool temperatures and reduce air pollution. Plant six trees per year in public parks and rights-of-way.

In place prior to September 2007 and ongoing.

- Require additional landscaping and buffers for projects requiring development orders.

In place prior to September 2007.

STORMWATER

• Village's stormwater master plan completed in 2001 and transmitted to officials at FDOT and FDEP.	In place prior to September 2007.
• Meet with FDOT on a regular basis to coordinate and review work performed by the FDOT.	In place prior to September 2007 and ongoing.
• Make requests to FDOT for improvement projects.	In place prior to September 2007 and requests are made annually.
• Complete remainder of the paving and drainage improvements on Upper Matecumbe Key.	Construction completed during FY 08-09.
• Utilize Stormwater Best Management Practices for drainage improvements.	In place prior to September 2007 and ongoing.
• As part of the work to install driveway connections, swales, or similar method of stormwater management is currently required by Code.	Requirement included in the Village Code prior to September 2007.

WATER

• Low flow plumbing fixtures are in place in the Founders Park pool complex and Fire Station 20.	In place prior to September 2007.
• LEED certification components (i.e. waterless toilets) could be utilized for additional water savings in new municipal building projects.	Included low pressure faucets, shower fixtures and minimum volume toilets wherever practicable in 2007 building projects (Community Center, Restroom Pavilion and Fire Station 19), to reduce water use and expenditures. Low flow (0.5 gallons per minute) sensor operated faucets in restrooms and a low flow (1.0 gallons per flush) urinal installed during construction of Administrative Center & Public Safety Headquarters.
• Utilize the minimum level of water necessary for Founders Park fields and landscaping to be properly maintained for use and for the pool and other facilities to function properly.	In place September 2007.
• Include water savings standards in the BPAS scoring system.	In place prior to September 2007.
• Investigate additional LEED certification standards for BPAS scoring system.	Additional LEED certifications standards considered; will not be included in BPAS scoring system due to difficulty with implementation.
• Install pool cover at Founders Park pool (for an estimated reduction of 10 to 20% water usage for the pool).	Pool cover installation completed October 2009.

- Utilize native plants at Village project sites.

Only native plants were utilized in landscaping installed during FY 09-10 for the Administrative Center and Public Safety Headquarters resulting in no landscape irrigation.

Site specific native vegetation to be installed at all of the proposed wastewater pump station sites to be constructed beginning 2013.

Wet Net Villas affordable rental housing project to be complete in 2013 will include native plants and low-water plants, resulting in no irrigation requirements.

WASTE

- Create and post additional recycling information on website.

Information regarding recycling and environmental sustainability posted in new section of website beginning December 2008 and updated as new recycling opportunities become available.

- Provide recycling bins up at public parks in Village.

Recycling pick-up and disposal services for parks included the solid waste contract beginning FY 08-09.

Mixed recycling/trash containers purchased and installed during FY 09-10.

- Include alternatives for recycling in solid waste contract.

Beginning October 2008, solid waste contract includes additional residential and commercial recycling and initiatives.

Solid Waste contractor added the collection of electronics for recycling during FY 09-10.

2013-2018 Solid Waste Services Agreement requires the Contractor to implement mandatory recycling for commercial customers following adoption of a mandatory recycling ordinance.

- Improve collection and proper disposal of hazardous waste materials.

2013-2018 Solid Waste Services Agreement increased Household Hazardous Waste Collection days to four per year and included requirement for Contractor to provide for used motor oil collection.

- Establish a recycling program at all Village facilities and encourage recycling by all residents, staff and visitors.

In place September 2007 and included in Employee Policy.

- Require Village staff to print and copy double-sided when possible.

In place September 2007 and included in Employee Policy.

- Require Village staff to utilize electronic documents rather than printed documents when appropriate.

In place September 2007 and included in Employee Policy.

<ul style="list-style-type: none"> • Distribute Village meeting packets electronically or as double-sided prints when appropriate. 	<p>Began making double-sided prints for Council agenda packets in September 2007.</p> <p>Paperless agenda preparation process was implemented in July 2011.</p> <p>Paper copies of the agenda provided to the public on request only beginning September 2011.</p> <p>Transition to paperless agenda use by Council tested during FY11-12. Will identify more suitable devices for paperless agendas in the future.</p>
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<ul style="list-style-type: none"> • Utilize biodegradable trash bags in Village Office Buildings. 	<p>Implemented June 2008.</p>
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<ul style="list-style-type: none"> • Promote voluntary use of reusable bags by businesses in Islamorada and residents. 	<p>Bags purchased FY 13-14 to begin promoting voluntary use of reusable bags through <i>Got Your Bags</i> program. Efforts to be expanded during FY 14-15.</p>

TRANSPORTATION / FUEL

<ul style="list-style-type: none"> • Develop a Bicycle/Pedestrian Transportation Master Plan (Comprehensive Plan Policy 2-1.5.1). 	<p>Plan adopted October 2007.</p>
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<ul style="list-style-type: none"> • Provide facilities for employees, residents and visitors to charge electric cars at municipal sites. 	<p>During FY 14-15, staff to seek grant funding to install electric car charging stations at the Administrative Center, Pool Facility and Southwinds Park.</p>

OTHER

<ul style="list-style-type: none">• Continue environmental practices of the Clean Marina Program.	<p>Received Clean Marina designation for Plantation Yacht Harbor Marina in 2004. Five Year Clean Marina Award received in April 2009. Ten year Award received April 2014.</p>
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<ul style="list-style-type: none">• Implement a climate change adaptation plan.	<p>During FY13-14, the Village entered into an Agreement with a consultant to create an adaptation action plan specific to Islamorada.</p>

Environmental Sustainability Plan September 2015

Islamorada, Village of Islands

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Utilize energy efficient mechanical systems in building projects.

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<p>Create and implement an Environmental Sustainability Policy for Village Employees (“Employee Policy”).</p>	<p>Employee Policy implemented 5/22/08, and is updated as new information becomes available.</p>
<p>Establish an energy conservation program/policy for all Village offices and buildings to include turning off lights and equipment when not in use.</p>	<p>Implemented during FY 07-08 through the Employee Policy.</p>
<p>As new equipment and appliances are required, procure energy efficient products that are ENERGY STAR® qualified or that are certified under the Federal Energy Management Program unless the products are shown not to be cost-effective on a life-cycle cost basis.</p>	<p>Implemented during FY 07-08 through the Employee Policy. Purchasing Policy and Procedure to be updated during FY 15-16.</p>
<p>Require affordable housing projects receiving Village assistance to install ENERGY STAR® qualified appliances.</p>	<p>To be addressed by resolution.</p> <p>Gorman & Company installed ENERGY STAR® qualified appliances in Wet Net Villas affordable rental development (began leasing in 2013).</p>
<p>Implement measures to reduce electrical requirements for pool temperature management.</p>	<p>Pool cover installation completed October 2009.</p> <p>Phased replacement of old heat pumps with higher efficiency units began during FY 09-10 with the replacement of four of the eighteen heat pumps.</p> <p>Two additional heat pumps purchased during FY 10-11.</p>

	<p>Installation of propane flash heater to reduce run-time of heat pumps during cold weather installed FY 11-12.</p> <p>FY 13-14 budget includes the purchase of the final six pool heat pumps to replace the remainder of the original and older inefficient units.</p>
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Utilize solar power to light "Welcome to Islamorada" signs at the north and south entrances to the Village.	In place prior to September 2007.
Manage Founders Park street lights for lowest possible energy use.	In place September 2007.
Utilize state of the industry standards/practices for Founders Park field lighting.	In place September 2007.
When possible, make arrangements for meetings to occur via conference call rather than having all participants drive to the meeting location.	Policy initiated August 2008 and included in updated Employee Policy.
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Seek funding assistance for "ENERGY" goals / actions identified above as appropriate.	<p>During FY 09-10, staff worked with the County to apply for funding through the State of Florida American Recovery and Reinvestment program / Energy Efficiency and Conservation Block Grant program. Grant approved in July 2010; retrofit completed during FY 11-12.</p> <p>In June, 2015, staff submitted application for financial assistance to purchase additional cloth bags for <i>Got Your Bags? Florida Keys</i> initiative. Did not win grant award.</p>
Phase out incandescent lighting and update to LED lighting in all Village buildings and properties.	<p>By 2013, all incandescent lighting has been replaced in Village buildings with the exception of Green Turtle Hammock Park which is currently undergoing renovations by the non-profit Operator.</p> <p>Consideration of appropriate locations for LED lighting to be considered during FY 15-16.</p>

LAND

Maintain and expand healthy tree canopies over certain roadways to provide for greater shade to residential areas for energy savings and to promote groundwater absorption.	In place prior to September 2007 and ongoing.
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<p>Coordinate with FDOT to re-sod US 1 highway rights-of-ways rather than placing compacted lime rock. The sod may need to be protected with hedge materials.</p>	<p>Rights-of-way on Plantation Key sodded by FDOT following 08-09 roadway improvement projects.</p> <p>During FY 12-13 the Snake Creek Bridge to MM 87.3 FDOT US 1 beautification project was completed.</p>
<p>Consistently maintain a certified arborist as a Parks and Recreation or Public Works staff member to provide any necessary consultations or information for staff responsible for trimming, mowing and planting; provide regular training for all Public Works staff.</p>	<p>Staff member has certified arborist credentials.</p> <p>To sustain native vegetation, Public Works staff receive ongoing training on invasive exotic recognition and removal techniques as well as herbicide and arborist training throughout the year.</p> <p>FY 14-15 budget included new employment position of Environmental Resource Program Manager. Expertise provided by this staff member to be available to Public Works employees.</p>
<p>Replace asphalt with pervious pavers / pervious materials where possible on publicly held land.</p>	<p>Pervious parking area (gravel) installed as part of Green Turtle Hammock improvements with grant funding during FY 10-11.</p>
<p>Add rain barrels/cisterns to key properties to capture rainwater, allowing the water to be used for landscaping.</p>	<p>Cistern installed at Fire Station 19 during FY 07-08.</p>
<p>Revise right-of-way ordinance to ensure that swales are vegetated and kept free from debris and minimize traffic that would compact soils and reduce permeability.</p>	<p>Revisions drafted during FY 11-12; to be proposed in amended ROW ordinance during FY 15-16.</p>
<p>Preserve properties from development through conservation easements and agreements with Monroe County and the State of Florida.</p>	<p>Over 58 acres of property acquired prior to September 2007.</p> <p>“Key Tree Cactus Preserve” (nine acres) acquired during FY 08-09 for conservation and recreation.</p> <p>Three Plantation Key properties (approximately 1.5 acres) acquired for conservation during FY 13-14.</p> <p>One Plantation Key property acquired for conservation during FY 14-15.</p> <p>As of September 2015, a total of 65.3 acres of conservation property and 105 acres of Park property is owned by the Village.</p> <p>Additional properties continue to be considered for conservation.</p>
<p>Work with schools, various community agencies and citizens’ advisory committees for the planting of trees and greenery at Village parks and properties.</p>	<p>In place prior to September 2007 and ongoing.</p> <p>Small projects are completed regularly and during FY 12-13, the Village’s Landscape Advisory Committee worked in coordination with Public Works and the Florida Keys Electric Cooperative to complete a substantial planting project - 224 total plantings - at Plantation Tropical Preserve.</p>

	Project to cultivate specialized native plants initiated through the Landscape Advisory Committee in May 2015. Plants to be utilized at Village properties.
Require businesses that use rights-of-way to plant or re-plant vegetation and trees.	Update of Chapter 50 of the Village Code to include a planting / restoration provision for use of right-of-way revisions drafted in FY 11-12 to be proposed in amended ROW ordinance during FY 15-16.
Work with utility companies to restore vegetation, including re-sodding and tree planting.	
Work with neighborhood associations with culs de sac or streets ending in water for potential planting ideas to install landscaping to improve barren areas.	Completed two cul de sac improvements with landscaping during FY 07-08. Two additional cul de sac improvements completed during FY 08-09.
Provide more shaded walkable/bikeable lanes and communal parking by utilizing concepts in the US Post Office / Townsite Supermarket proposed project as shown in the 2003 TSM Study for downtown Islamorada.	
Provide more shaded walkable/bikeable lanes by utilizing concepts in the Worldwide Sportsman Store / Islamorada Fish Company proposed project as shown in the 2003 TSM Study for downtown Islamorada.	
Provide more shaded walkable/bikeable lanes and communal parking Village-wide parking along US Highway 1 by utilizing concepts as shown in the 2003 TSM Study for downtown Islamorada.	

AIR QUALITY/CO2 REDUCTION

Identify locations to strategically plant native canopy trees that would provide ample shade with its canopy to cool temperatures and reduce air pollution. Plant six trees per year in public parks and rights-of-way.	In place prior to September 2007 and ongoing.
Require additional landscaping and buffers for projects requiring development orders.	In place prior to September 2007.

STORMWATER

Village's stormwater master plan completed in 2001 and transmitted to officials at FDOT and FDEP.	In place prior to September 2007.
Meet with FDOT on a regular basis to coordinate and review work	In place prior to September 2007 and ongoing.

performed by the FDOT.	
Make requests to FDOT for improvement projects.	In place prior to September 2007 and requests are made annually.
Complete remainder of the paving and drainage improvements on Upper Matecumbe Key.	Construction completed during FY 08-09.
Utilize Stormwater Best Management Practices for drainage improvements.	In place prior to September 2007 and ongoing.
As part of the work to install driveway connections, swales, or similar method of stormwater management is currently required by Code.	Requirement included in the Village Code prior to September 2007.

WATER USE

Low flow plumbing fixtures are in place in the Founders Park pool complex and Fire Station 20.	In place prior to September 2007.
LEED certification components (i.e. waterless toilets) could be utilized for additional water savings in new municipal building projects.	<p>Included low pressure faucets, shower fixtures and minimum volume toilets wherever practicable in 2007 building projects (Community Center, Restroom Pavilion and Fire Station 19), to reduce water use and expenditures.</p> <p>Low flow (0.5 gallons per minute) sensor operated faucets in restrooms and a low flow (1.0 gallons per flush) urinal installed during construction of Administrative Center & Public Safety Headquarters.</p>
Utilize the minimum level of water necessary for Founders Park fields and landscaping to be properly maintained for use and for the pool and other facilities to function properly.	In place September 2007.
Include water savings standards in the BPAS scoring system.	In place prior to September 2007.
Investigate additional LEED certification standards for BPAS scoring system.	Additional LEED certifications standards considered; will not be included in BPAS scoring system due to difficulty with implementation.
Install pool cover at Founders Park pool (for an estimated reduction of 10 to 20% water usage for the pool).	Pool cover installation completed October 2009.
Utilize native plants at Village project sites.	<p>Only native plants were utilized in landscaping installed during FY 09-10 for the Administrative Center and Public Safety Headquarters resulting in no landscape irrigation.</p> <p>Site specific native vegetation to be installed at all of the proposed wastewater pump station sites to be constructed beginning 2013.</p>

Wet Net Villas affordable rental housing project to be complete in 2013 will include native plants and low-water plants, resulting in no irrigation requirements.

WASTE

<p>Create and post additional recycling information on website.</p>	<p>Information regarding recycling and environmental sustainability posted in new section of website beginning December 2008 and updated as new recycling opportunities become available.</p>
<p>Provide recycling bins up at public parks in Village.</p>	<p>Recycling pick-up and disposal services for parks included the solid waste contract beginning FY 08-09. Mixed recycling/trash containers purchased and installed Village-wide during FY 09-10.</p>
<p>Include alternatives for recycling in solid waste contract.</p>	<p>Beginning October 2008, solid waste contract includes additional residential and commercial recycling and initiatives. Solid Waste contractor added the collection of electronics for recycling during FY 09-10. 2013-2018 Solid Waste Services Agreement requires the Contractor to implement mandatory recycling for commercial customers-following adoption of a mandatory recycling ordinance.</p>
<p>Improve collection and proper disposal of hazardous waste materials.</p>	<p>2013-2018 Solid Waste Services Agreement increased Household Hazardous Waste Collection days to four per year and included requirement for Contractor to provide for used motor oil collection.</p>
<p>Establish a recycling program at all Village facilities and encourage recycling by all residents, staff and visitors.</p>	<p>In place September 2007 and included in Employee Policy.</p>
<p>Require Village staff to print and copy double-sided when possible.</p>	<p>In place September 2007 and included in Employee Policy.</p>
<p>Require Village staff to utilize electronic documents rather than printed documents when appropriate.</p>	<p>In place September 2007 and included in Employee Policy.</p>
<p>Distribute Village meeting packets electronically or as double-sided prints when appropriate.</p>	<p>Began making double-sided prints for Council agenda packets in September 2007. Paperless agenda preparation process was implemented in July 2011. Paper copies of the agenda provided to the public on request only beginning September 2011.</p>

	Transition to paperless agenda use by Council tested during FY11-12. Will identify more suitable devices for paperless agendas in the future.
Utilize trash bags made of recycled material at Village Parks and Village properties.	Implemented April 2008.
Utilize trash bags made of recycled material in Village Office Buildings.	Implemented June 2008.
Include a requirement in the <i>Village-owned Parks Special Events Policy</i> for mandatory recycling at events at Village parks.	Implemented June 2008.
Include a condition in the temporary use permit application for mandatory recycling at permitted events.	Implemented June 2008.
Encourage recycling at Vacation Rental properties.	Beginning August 2010, recycling information provided with license as well as information to assist renters with contacting the Solid Waste provider for delivery of additional recycling containers. During FY 14-15, improved measures to promote recycling with increased communication during registration renewals and laminated flyers encouraging recycling for posting at vacation rental properties.
Promote voluntary use of reusable bags by businesses in Islamorada and residents.	Bags purchased FY 13-14 to begin promoting voluntary use of reusable bags through <i>Got Your Bags</i> program. Efforts expanded during FY 14-15 to include outreach to retailers.

TRANSPORTATION / FUEL

Develop a Bicycle/Pedestrian Transportation Master Plan (Comprehensive Plan Policy 2-1.5.1).	Plan adopted October 2007.
Coordinate with FDOT to pave or sod specific areas along bike path within FDOT right-of-way to minimize impact to bike lanes from highway traffic.	Sodding completed on Plantation Key during FY 08-09 as part of FDOT construction projects. Sodding completed on Lower Matecumbe Key during FY 08-09 as part of FDOT construction projects. FDOT projects for Upper Matecumbe Key and Windley Key are on future years plan. FY 11-12 sod installation included area adjacent to bike trail at MM 80.5, along southbound lane of Tea Table and adjacent to the northern section of bike trail on Lower Matecumbe Key.

Purchase or lease vehicles with the highest fuel efficiency that are appropriate for the assigned task.	\$50,000 budgeted for Capital Replacement Fund to begin replacement of inefficient fleet vehicles in FY 08-09 and FY 09-10. Funds will be appropriated annually. First hybrid vehicle purchased in May 2009.
Auction retired Sheriff's Department vehicles and other vehicles that are not fuel efficient for Village tasks.	Auctioned six inefficient fleet vehicles in March 2009. Auctioned 17 inefficient fleet vehicles in 2011. Auctioned six inefficient fleet vehicles in 2014.
Have extremely inefficient vehicles destroyed for scrap to permanently remove them from the roadways.	In 2012, two inefficient fleet vehicles were removed from fleet for destruction (utilized for fire rescue training).
Implement anti-idling policy throughout all Village departments.	In place September 2007.
Encourage Village staff to carpool, rideshare, bike or walk to work, as appropriate.	Implemented during FY 07-08 through the Employee Policy.
Reduce vehicle usage; utilize pool vehicles rather than individual vehicles when practicable.	Reduced municipal vehicle fleet by four vehicles during FY 08-09. Continued practice of lowest possible number of fleet vehicles in use o 19 vehicles in use at FY 10-11 end o 21 vehicles in use at FY 11-12 During FY 10-11, purchased two bicycles for Park and Public Works staff use between Park office and Administrative offices.
Provide facilities for employees, residents and visitors to charge electric cars at municipal sites.	During FY 14-15, staff to seek grant funding to install electric car charging stations at the Administrative Center, Pool Facility and Southwinds Park. Grant funding not obtained during FY 14-15, will continue to seek funding. During FY 15-16, Code amendments to be drafted to provide regulations for electric vehicle charging facilities.

WATER QUALITY

Continue environmental practices of the Clean Marina Program.	Received Clean Marina designation for Plantation Yacht Harbor Marina in 2004. Five Year Clean Marina Award received in April 2009. Ten year Award received April 2014.
Determine the feasibility of a Canal Restoration Program following the completion of the County's Keys-wide Canal Management Master Plan.	During FY 12-13, the Village Council committed up to \$100,000 toward canal restoration project expenditures and the Village joined the FKMS WQPP Canal Restoration Subcommittee to participate in the County-wide restoration demonstration project to address water quality issues in residential canals.

In October 2013, an engineering consultant was retained and completed a work plan ranking ten of the poor quality canals initially targeted within the Village for restoration during the entire demonstration project. This plan serves as a “shovel-ready” template for future projects as funding is available.

First canal restoration demonstration project implemented during FY 13-14 was completed and installed in November 2014.

Complete Village-wide wastewater collection and transmission system

Village-wide wastewater collection and transmission system to be completed by the end of calendar year 2015.

OTHER

Improve community awareness of environmental sustainability initiatives undertaken by the Village and encourage community involvement.

News box added to Village website in December 2008 includes Village sustainability initiatives and informational links is updated when new sustainable actions are implemented or new opportunities become available.

Community education program included in Solid Waste contract approved in October 2008.

Increased advertising, additional direct public relations presentations to school groups, community groups and the media to promote recycling are included in 2013 Request for Proposals for Solid Waste Services draft agreement.

In conjunction with implementation of mandatory commercial recycling, a new position - Sustainability Coordinator - may be recommended.

Implement a climate change adaptation plan.

During FY 13-14, the Village entered into an Agreement with a consultant to create an adaptation (sea level rise) action plan specific to Islamorada.

Climate adaptation action plan, *IslamoradaMatters* to be completed November 2015. Additional environmental sustainability measures and initiatives identified in *IslamoradaMatters* will be incorporated into this document.