

CITY GREEN PLAN REPORT

2010



"Creating a Culture of Green Excellence"

**COCONUT
CREEK**

Butterfly Capital of the World®





Collectively, we can have a profound effect on our environment.

Overview

Each year, the City Green Plan Report will generate key information on the City's advancement toward addressing seven environmental themes: energy, water, urban design, urban nature, waste reduction, transportation, and climate change. This report summarizes accomplishments for the 2010 calendar year.

Collaborative Effort

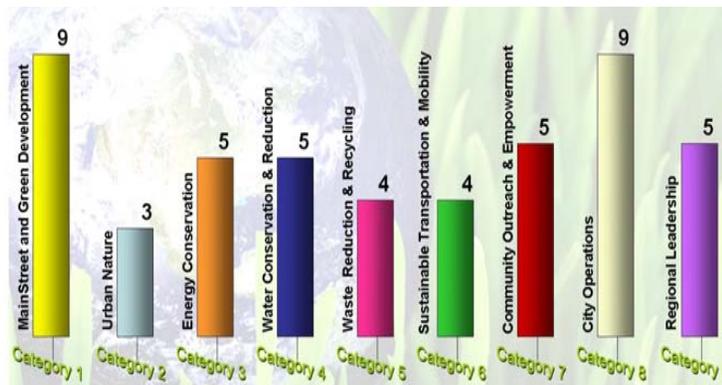
The City's *City Green Team* consists of members from all departments working together to track the progress of the plan. The team identified valuable data under each category and specified indicators for measuring each action step. Without this collaborative effort, this report would not be possible.

- Jim Hetzel, Sharon Vollmer, and Sean Flanagan - Sustainable Development
- Dave Santucci and Elise Adler-Hogan - Finance and Administrative Services
- Lou Italico, John Yancey, and Mike Heimbach - Public Services
- Yvonne Lopez - City Manager's Office
- Janice Ninesling - City Clerk Department
- Jenny Deng - Human Resources
- Robert Manfre - Information Technology
- Phil Randazzo - Parks and Recreation
- Tony Avello - Police Department

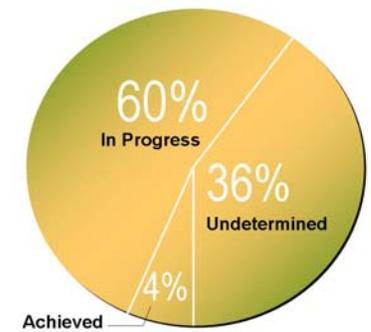
Implementation

The City Green Plan was adopted with 51 action steps under 9 categories. The majority of action steps relate to Category 1: MainStreet and Green Development and Category 2: City Operations. In 2010, there were 31 action steps in progress, which represents 60% of all action, and 18 action steps undetermined representing 36%. There are 2 action steps achieved, representing 4% of all action.

Number of Actions by Category



Action Summary



City Program Highlight

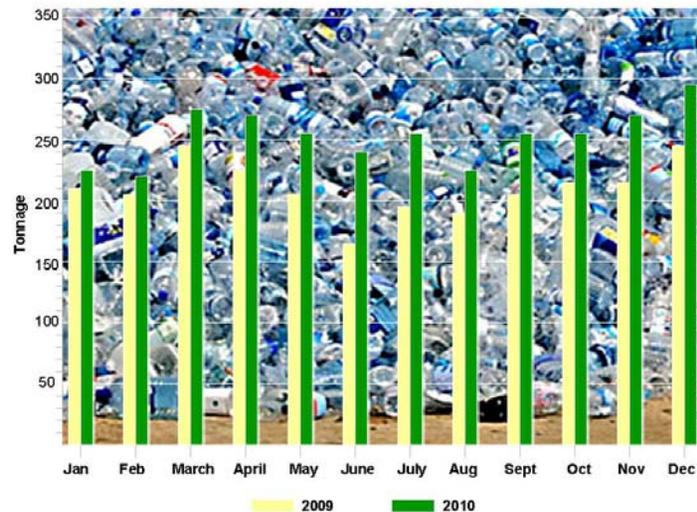
Each year, the City Green Plan Report will highlight one key program or initiative that contributes to the overall environmental health of the community. The program highlighted for 2010 is the City's Single Stream Recycling Program.

Single Stream Recycling

According to the U.S. Environmental Protection Agency, there are numerous benefits of recycling such as reduces the size of landfills, saves energy, decreases emissions from greenhouse gases, and conserves natural resources like timber, water, and minerals. In an effort to increase recycling, the City implemented single stream recycling for residential areas. Single stream is also known as commingled recycling which is a system that all paper, plastic, glass, cans, etc., are collected and mixed together in one single container. This system does not require sorting by the resident rather commingled items are separated at the materials recover facilities. Single stream programs tend to have more residents participate because there is no need to sort and volume increases per household because the use of carts are more efficient bins. In addition, more materials are recycled and collection services become more efficient.

The City purchased 8,000 single stream carts which were distributed in March of 2010 to all the single family neighborhoods. Since implementation, there has been a 25% increase in recycling from 2009 to 2010 resulting in an annual capture rate ratio of 17% for 2010. Per capita, Coconut Creek ranked fourth among Broward County municipalities. This effort supports Category 5: Waste Reduction & Recycling, Action 5.1, which states increase recycling throughout the City by 25% by 2014 and 50% by 2020. The graphics on this page reflect information for residential areas in the City.

Recycling Tonnage Comparison



Solid Waste Reduction

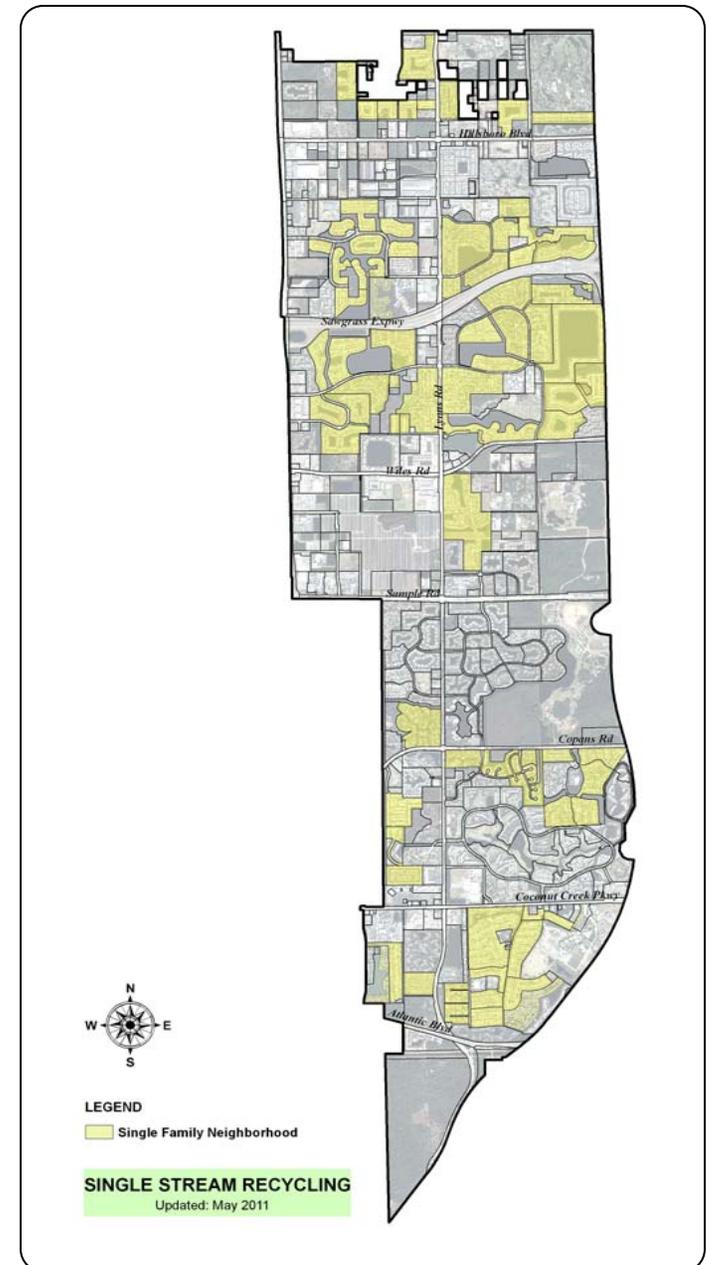
2009 = 16,144 tons
 2010 = 14,925 tons
 Reduction of 1,849 tons of solid waste equal to:

895 tonnes of CO₂e

1 tonne of CO₂e is equal to emissions from the combustion of 112 gallons of gasoline

895 tonnes of CO₂e = 100,240 gallons of gasoline

Source: ICLEI, CACP Software



Map available in larger print

= Government operations mitigation
 = Community mitigation
 = Includes adaptation elements
 = Includes comprehensive sustainability elements

ICLEI Member Community	Benchmark	Target	Plan	Implement	Evaluate
Huntsville, AL					
Alachua County, FL					
Boynton Beach, FL					
Broward County, FL					
Coconut Creek, FL					
Collier County, FL					
Cutler Bay, FL					
Davie, FL					
Delray Beach, FL					
Fort Lauderdale, FL					
Gainesville, FL					
Key West, FL					
Lee County, FL					
Leon County, FL					
Maitland, FL					
Marathon, FL					
Miami Gardens, FL					
Miami, FL					
Miami-Dade County, FL					
Monroe County, FL					
North Miami, FL					
North Port, FL					
Orange County, FL					
Orlando, FL					
Ormond Beach, FL					
Palm Bay, FL					
Palm Beach County, FL					
Pinecrest, FL					
Pinellas County, FL					
Plantation, FL					
Sarasota County, FL					
Sarasota, FL					
Seminole County, FL					
South Daytona, FL					
South Miami, FL					
Tallahassee, FL					
Tamarac, FL					
Tampa, FL					
Venice, FL					
Volusia County, FL					
West Palm Beach, FL					
Athens-Clarke County, GA					
Atlanta, GA					
Chatham County, GA					
Decatur, GA					
Morgan County, GA					
Savannah, GA					
Tybee Island, GA					
Asheville, NC					
Carrboro, NC					
Cary, NC					
Chapel Hill, NC					
Charlotte, NC					
Chatham County, NC					
Durham, NC					
Fayetteville, NC					
Orange County, NC					
Raleigh, NC					
Winston-Salem, NC					
Charleston, SC					
Columbia, SC					
Greenville, SC					
Spartanburg County, SC					
Spartanburg, SC					
Sumter, SC					
Chattanooga, TN					
Cookeville, TN					
Franklin, TN					
Gatlinburg, TN					
Hamilton County, TN					
Knoxville, TN					
Nashville, TN					
Oak Ridge, TN					
Signal Mountain, TN					

ICLEI

ICLEI is an association of city and county governments dedicated to improving environmental issues and reducing GHG emissions worldwide. ICLEI provides training, technical assistance, and the analytical tools necessary to evaluate and measure emissions. The City joined ICLEI through City Resolution 2010-23 and pledged to follow ICLEI's Cities for Climate Protection five milestones:

- *Milestone 1:* Emission Inventory & Benchmarks
- *Milestone 2:* Setting a Reduction Target
- *Milestone 3:* Climate Action Plan
- *Milestone 4:* Implementation
- *Milestone 5:* Evaluate Progress and Success

On the left is a chart that lists all the members in ICLEI's southeast region of the United States. As of 2010 and within a short timeframe, the City has achieved 3 of the 5 milestones for establishing benchmarks, creating targets, and developing a climate action plan.

Awards and Recognition

The City received several outstanding environmental achievements in 2010. Listed below are those achievements:

- *Audubon Green Community Award:* Environmental achievement with ongoing green initiatives.
- *Audubon Sustainable Community Certification:* Creating a sustainable community by completing a long-term sustainability plan with programs, timelines and measurable goals.
- *1000 Friends of Florida's Better Community Award:* Sustainable community planning efforts to promote infill development, affordable housing, and natural resource conservation in a traditional bedroom community.

2010 City Department Highlights

Many departments continue to implement and advance efforts related to the green plan. Below are some highlights by department:

- *Human Resources:* Implementation of online benefits and open enrollment system called BenTek, which greatly reduced paper and other printing costs.
- *Finance & Administrative Services:* Provided new customers with "Take Control of Your Water Bill" pamphlet, offered improved water bill calculator on website, advised customers on their water bills to read website regarding water conservation, and paperless payroll voucher started in July 23, 2010.
- *Sustainable Development:* Implemented electronic submittal and filing of DRC applications and continued electronic scanning of building permits.
- *Police Department:* Continue to purchase 4 cylinder vehicles as opposed to 8 cylinders for certain personnel when deemed appropriate, continue full rollout of the electronic roll call system, require personnel to prepare electronic versions of crime reports and suspect composite sketches, create crime prevention initiatives sensitive to recycling and green-friendly information dissemination

Category 1: MainStreet and Green Development

Urban Design

Green Building – Urban Planning – Economic Development

Summary

The majority of construction in 2010 was the continuation of residential projects that were approved during 2006-2009, which had stopped due to the economic downturn and housing crisis. Only two new commercial buildings were completed. Both commercial projects were banks that incorporated green building elements consistent with the City's Green Building Ordinance. However, those projects were not required to be certified.

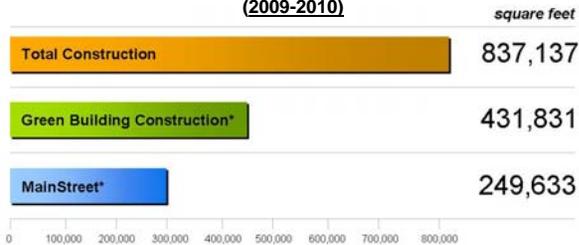
Quick Numbers

- # of actions for Category 1 → 9
- # of actions in progress → 7
- # of LEED® registered buildings → 11
- # of LEED® certified buildings → 14

2010 Highlights

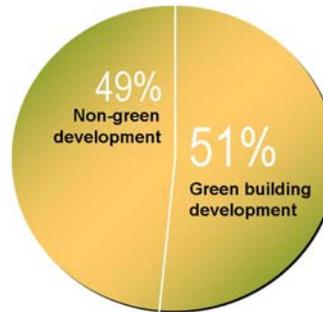
- ✓ The Promenade received LEED® Silver Certification
- ✓ SunTrust Bank received LEED® Silver Certification

Green Building Growth (2009-2010)



*Includes projects pending certification.
Green Building Construction is city-wide including MainStreet.

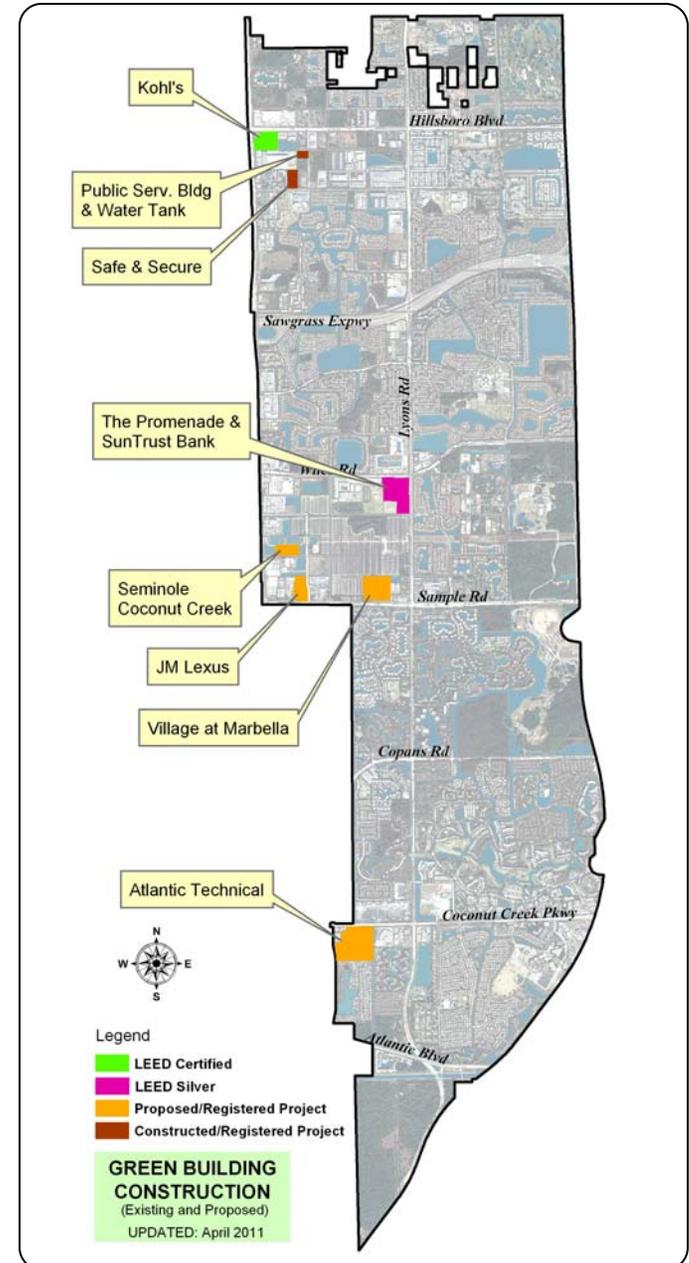
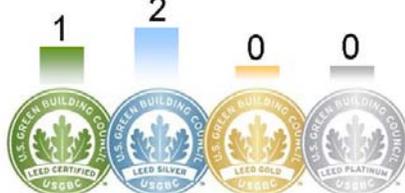
Total Construction (2009-2010)



Green Construction by Area (2009-2010)



Certification Levels (by Project)



Map available in larger print

Action Steps

Results of each action step under Category 1

Category 1: MainStreet and Green Development

	ACTION OBJECTIVE	ACTION SUMMARY	PERFORMANCE MEASURE	2009	2010
1.1	Achieve LEED® Certification for all buildings in the MainStreet Project Area with at least 15% certified at Silver, Gold, or Platinum level.	Status: ✓ In progress Target Date: 2020 Data Sources: Site Plans, USGBC Note: (1) Results are based on # of buildings not by project. (2) % certified is based on cumulative total of issued COs since 2009.	# of buildings constructed (based on issued COs)	2	0
			# of buildings seeking certification	12	0
			# of buildings certified (cumulative)	0	14
			% certified as Silver, Gold, or Platinum	0%	100%
1.2	Achieve LEED® Certification or Florida Green Building Coalition (FGBC) Certification on 50% of buildings outside the MainStreet Project Area.	Status: ✓ In progress Target Date: 2020 Data Sources: Site Plans, USGBC, FGBC Note: (1) Results are based on # of buildings not by project. (2) City has a green building ordinance but the ordinance does not require a certification. (3) % certified is based on cumulative total of issued COs since 2009.	# of buildings constructed (based on issued COs)	7	11
			# of buildings seeking certification	2	0
			# of buildings certified (cumulative)	1	1
			% certified	14%	5%
1.3	Achieve LEED® Certification for all new City constructed buildings, and, when feasible, strive for Silver, Gold, or Platinum certification level.	Status: ✓ In progress Target Date: 2020 Data Sources: Site Plans, USGBC	# of city projects proposed	0	1
			# of projects constructed (based on issued COs)	1	0
			# of buildings seeking certification	0	0
			# certified (cumulative)	0	0
1.4	Retrofit all City-owned buildings with green building techniques by 2020 and, where feasible, seek LEED® Existing Building Certification.	Status: ✓ In progress Target Date: 2020 Data Sources: Public Services Dept. Note: Installation of high efficiency lighting systems in Commission Chambers, Dispatch, and PD.	# of retrofitted buildings	4	3
			# of retrofitted buildings seeking certification	0	0
			# certified	0	0
1.5	Create a “green” checklist by 2010 for use on all City projects such as engineering or landscape projects, permits, etc.	Status: ? Undetermined Target Date: 2010 Data Sources: - Note: Staff is developing a draft of the checklist.	Date checklist was created	-	-
			# of city projects	-	-
1.6	Ensure 100% of new development projects throughout the City contain conspicuous displays of green technology that function in the project design while providing a social, artistic, and environmental value.	Status: ✓ In progress Target Date: 2020 Data Sources: Site Plans	# of new projects under development review	2	1
			# of green tech/art displays proposed (cumulative)	2	3
			# of green tech/art displays constructed	0	0
1.7	Create a MainStreet Workforce Housing Incentive Program by 2010 in order to provide additional density for projects that demonstrate superior green building design while providing workforce housing, including those projects that seek LEED® Certification at Silver, Gold, or Platinum level.	Status: ✓ In progress Target Date: 2010 Data Sources: Site Plans, USGBC Note: Staff is developing a draft of the program.	# of projects under review	-	-
			# of projects with residential use	-	-
			# of projects seeking incentive	-	-
			# of additional units provide through incentive	-	-
1.8	Create an educational eco-village within the MainStreet Project Area that can promote the dual-use of school facilities and provide for eco-cultural activities.	Status: ? Undetermined Target Date: 2020 Data Sources: -	# of school properties in MainStreet Area	1	1
			# of potential parcels	-	-
			# of proposed projects	-	-
1.9	Increase residential density and promote mixed-use for projects that support planned long-range transportation systems such as the U.S. 441/State Road 7 corridor or Educational Corridor.	Status: ✓ In progress Target Date: 2020 Data Sources: Site Plans	# of new projects under review	2	0
			# of projects higher density/mixed-use (cumulative)	1	1
			% of projects support action	50%	100%

Category 2: Urban Nature

Urban Nature Parks – Habitats – Wildlife

Summary

The City continues to make great strides in restoring tree canopy, expanding its greenway trail network, and preserving natural areas. Based on the enormous success of the tree replacement efforts in the SouthCreek neighborhood, the City has extended the Tree Canopy Replacement program to other neighborhoods. The primary focus in 2010 was to identify funding for the program and prioritize neighborhoods based on a needs assessment. In addition, the City in conjunction with Broward County, completed the equestrian greenway trail within the Vinkemulder area adding approximately 7,600 linear feet of trails. The actions in progress under this category are Actions 2.1 and 2.3.

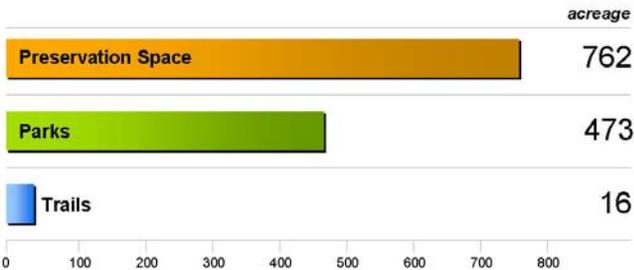
Quick Numbers

- # of actions for Category 2 → 3
- # of actions in progress → 2
- # of properties (to date) certified by NWF → 187

2010 Highlights

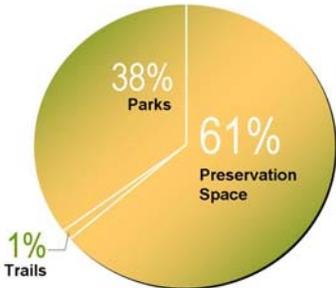
- ✓ Completed the equestrian greenway trail in Vinkemulder area
- ✓ Completed the Long Pine Greenway connection
- ✓ Secured funding for Tree Canopy Replacement program

Park and Green Space Breakdown

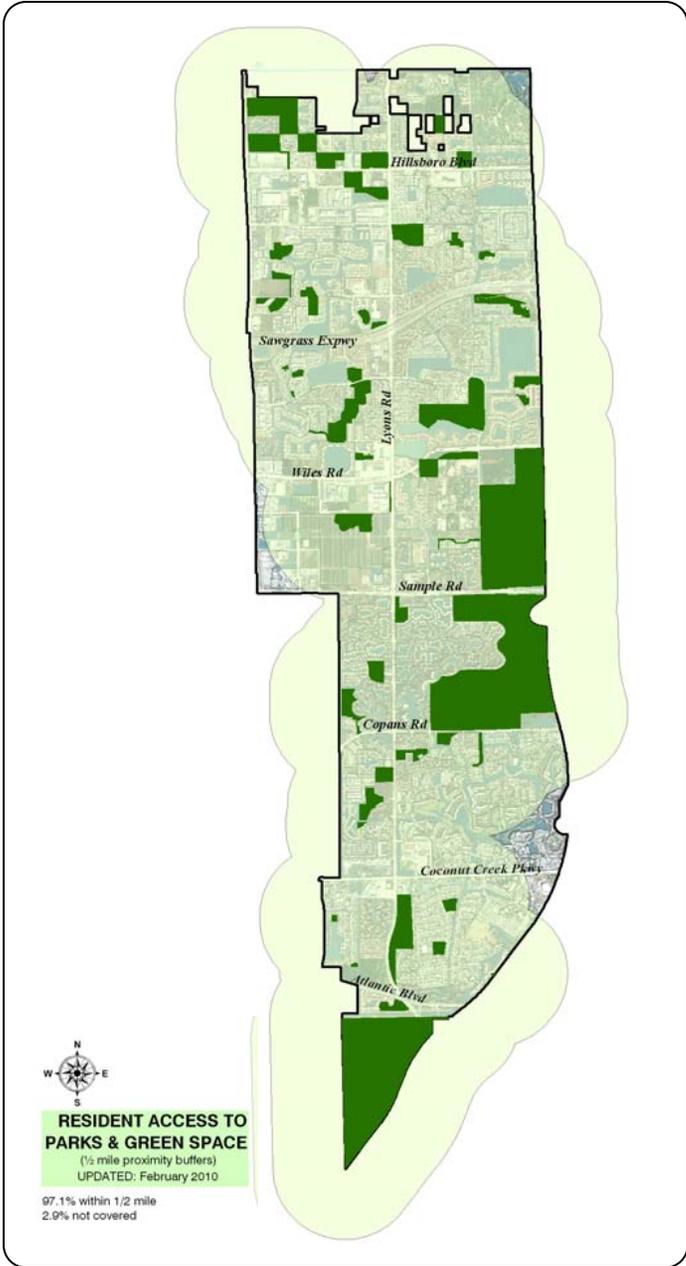
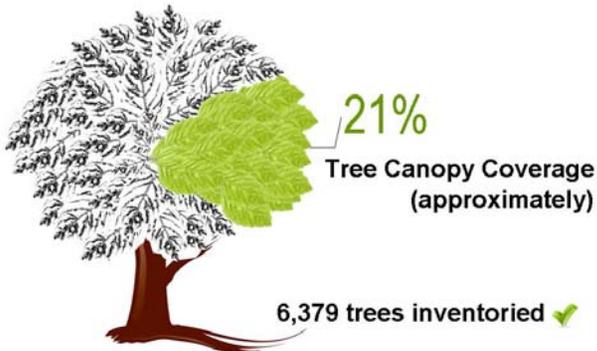


Includes all city, county, and privately owned properties.

Percentage of Green Space



Tree Canopy Coverage



Map available in larger print

Action Steps

Results of each action step under Category 2

	ACTION OBJECTIVE	ACTION SUMMARY	PERFORMANCE MEASURE	2009	2010
2.1	Achieve 40% tree canopy coverage throughout the City with maximum tree coverage on public and privately owned land by 2020.	Status: ✓ In progress Target Date: 2020 Data Sources: Sustainable Development and Public Services Depts. Data Records, GIS Inventory Note: (1) Tree canopy coverage is approximate based on staff assessment from 1999 data and canopy loss from subsequent hurricane seasons (2) Inventoried trees are reflected as a cumulative total of city owned land.	# of trees at free giveaway	700	700
			# of trees - city inventory (cumulative)	6,319	6,379
			# landscaping awards	0	2
			# acres of natural conservation areas (cumulative)	762	762
			% estimated in tree canopy coverage	21%	21%
2.2	Achieve 40% greenroof coverage for new construction in MainStreet Project Area and 10% greenroof coverage for new construction for areas outside of MainStreet.	Status: ? Undetermined Target Date: 2020 Data Sources: -	# greenroofs in MainStreet	-	-
			% in MainStreet	-	-
			# greenroofs outside MainStreet	-	-
			% outside MainStreet	-	-
2.3	Ensure public access to passive parks, recreational areas, open space, or greenway trails within ½ mile of all residents by 2020.	Status: ✓ In progress Target Date: 2020 Data Sources: GIS Inventory Note: (1) Preserves in county parks were counted as part of total open space/preserve areas (2) County greenway trails within county parks and preserves have been added to total number of trails.	# of passive parks (cumulative)	7	7
			# of recreational parks (cumulative)	6	6
			# of open space/preserve areas (cumulative)	29	29
			# of greenways trails (cumulative)	6	11
			% of city area within ½ mile of all of the above	97%	97%

Category 3: Energy Conservation

Summary

Energy conservation under this category focuses on community-wide effort rather than City operations, which can be found under Category 8, City Operations. City continues to issue permits related to residential solar use. However, those permits have been limited due to the limited amount of financial incentives and the absence of a city solar program. In addition, there was no grant money awarded in 2010 toward energy programs in the City. The actions in progress under this category are 3.3 and 3.5.

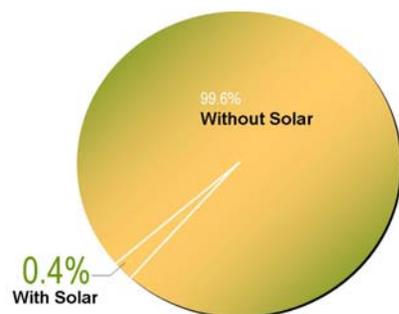
Quick Numbers

- # of actions for Category 3 → 5
- # of actions in progress → 2
- # of residential homes with solar panels → 104

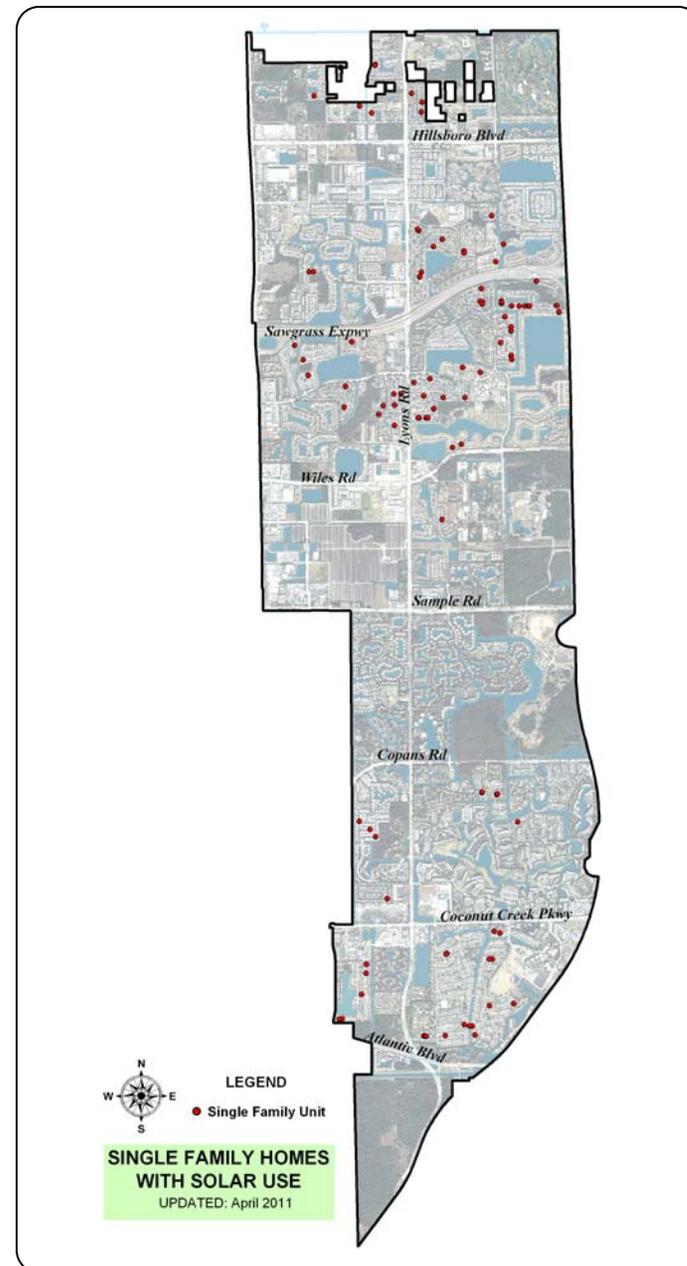
2010 Highlights

- ✓ Created a green permit fee for solar and green permit types
- ✓ Business energy efficiency is being evaluated as part of Economic Development programs

Residential Use of Solar Power



Percentage of Grant Money for Energy (2009-2010)



Map available in larger print

Action Steps

Results of each action step under Category 3

Category 3: Energy Conservation

	ACTION OBJECTIVE	ACTION SUMMARY	PERFORMANCE MEASURE	2009	2010
3.1	Achieve a minimum of 40% of energy use for the MainStreet Project Area from renewable energy sources by 2020 or by completion of development in MainStreet.	Status: ? Undetermined Target Date: 2020 Data Sources: -	% from solar	-	-
			% from wind	-	-
			% from hydropower	-	-
			% from other source	-	-
			Total % for MainStreet	-	-
3.2	Utilize a minimum of 10% of City-owned land for alternative energy sources by 2020.	Status: ? Undetermined Target Date: 2020 Data Sources: -	# of city properties available	-	-
			# of projects planned	-	-
			# of projects completed	-	-
			% of city land used	-	-
3.3	Increase the use of solar power in residential areas by 40% by 2020.	Status: ✓ In progress Target Date: 2020 Data Sources: GIS Aerials, Code Compliance, Permits Note: (1) Based on SFR homes only, % per total SFR units (2) permit information obtained from Community Plus.	# of SFR homes with solar (cumulative)	96	104
			# of permits issued per year	11	8
			% of homes	0.4%	0.4%
3.4	Modify the City's Neighborhood Enhancement Grant Program making renewable energy projects eligible for application submittal with 50% of all grants toward renewable energy projects by 2020.	Status: ? Undetermined Target Date: 2020 Data Sources: -	# of grants applied for	-	-
			# of applied grants for energy	-	-
			% of residential neighborhoods	-	-
3.5	Ensure 20% of grants received by the City are for energy conservation projects.	Status: ✓ In progress Target Date: 2020 Data Sources: Grants Received	# of grants applied for	7	5
			# of grants received - awarded	5	4
			# of grants for energy	1	0
			% of grants for energy	20%	0%
			\$ amount of energy grants awarded	\$425,400	0

Category 4: Water Conservation and Reduction

Water

Water Efficiency – Water Conservation – Protection

Summary

Faced with challenges to reduce water consumption, the City finds itself in a unique situation. The City does not own, operate or control primary water plants or facilities. Therefore, efforts have focused on conservation measures such as the enforcement of water restrictions and the expansion of reclaimed water lines for future community use. Water conservation measures for City-owned buildings and facilities have been placed under this category rather than Category 8, City Operations, due to the City being considered a “user” of water. The actions in progress under this category are 4.1, 4.2, 4.3, and 4.5.

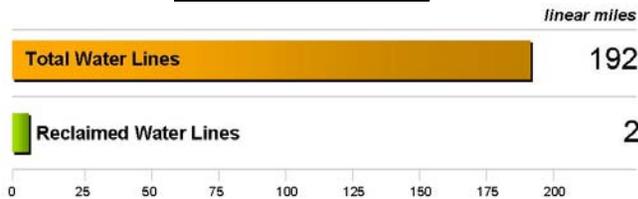
Quick Numbers

- # of actions for Category 4 → 5
- # of actions in progress → 4
- # of code violations regarding water violations → 248

2010 Highlights

- ✓ Completed 5 NatureScape inspections on public land
- ✓ Installation of waterless urinals at several City facilities

Reclaimed Water Breakdown



City Water Projects



24,200,000 (mgpy)
(total estimate 2003-2010)

Water Conservation Programs Used by the City



Action Steps

Results of each action step under Category 4

Category 4: Water Conservation and Reduction

	ACTION OBJECTIVE	ACTION SUMMARY	PERFORMANCE MEASURE	2009	2010
4.1	Ensure 100% of irrigation in the MainStreet Project Area is from on-site water collection or, if possible, reclaimed water.	Status: ✓ In progress Target Date: 2020 Data Sources: Site Plans, Engineering Permits Note: Proposed projects are based on approved site plans.	# of MainStreet projects (proposed)	2	3
			# of MainStreet projects (built)	1	1
			# with on-site water collection systems	0	0
			# with reclaimed water	0	0
			% of built projects	0%	0%
4.2	Reduce residential water consumption by 10% by 2012 and by 15% by 2020 through a Residential Water Reduction Initiative.	Status: ✓ In progress Target Date: 2012 / 2020 Data Sources: High Consumption Report, Statistics Report by Crew, Utility Billing Reports Note: (1) High Consumption report summarizes # of customer accounts with consumption 1.50% greater than their average bill. (2) Variations from year to year in weather conditions will affect water demand.	# of customer accts targeted high consumption	6,557	6,770
			# of water meters checked for high consumption	1,088	1,270
			annual water consumption increase (residential)	25.55 MG	80.30 MG
			annual water consumption increase (commercial)	7.3 MG	7.3 MG
			NatureScape Inspections	0	5
4.3	Increase the availability of reclaimed water throughout the City by 2020.	Status: ✓ In progress Target Date: 2020 Data Sources: CIP, Grants, Public Services Dept. Note: (1) Projects are identified as separate segments. (2) Planned projects are reflected as a cumulative total. (3) Completed segments are not operational until other segments completed.	# of reclaimed water projects planned	3	4
			# of reclaimed water	2	0
			# of properties connected	0	0
4.4	Increase water conservation measures in cooperation with other government agencies.	Status: ? Undetermined Target Date: 2020 Data Sources: -	# of programs and partnerships	-	-
			# of grants received	-	-
4.5	Convert water fixtures within City-owned buildings and facilities to water saving efficient fixtures by 2014.	Status: ✓ In progress Target Date: 2014 Data Sources: Public Services Dept. Note: (1) Total of 10 waterless urinals installed (2) Each urinal saves 40,000 gal. per yr.	# of projects planned	1	3
			# of completed projects	2	3
			amount of water saved (estimated gallons)	0	400,000

Category 5: Waste Reduction and Recycling

Waste Reduction

Recycling – Zero Waste – Citizen Participation

Summary

As outlined in the introduction section, the City has seen an increase in recycling with the distribution of single stream containers in single family neighborhoods. Based on the assessment completed in the 2009 annual report for multi-family neighborhoods, an additional 800 containers were purchased for distribution to multi-family and apartment complexes. Distribution to multi-family will occur in 2011. In addition, staff has begun to evaluate programs to increase recycling in commercial areas through voluntary programs and to improve access to recycling on City-owned properties and in buildings. Staff has also begun to evaluate a community shredding program in 2010 and its potential benefit to the community. That effort is ongoing. The actions in progress under this category are 5.1 and 5.4.

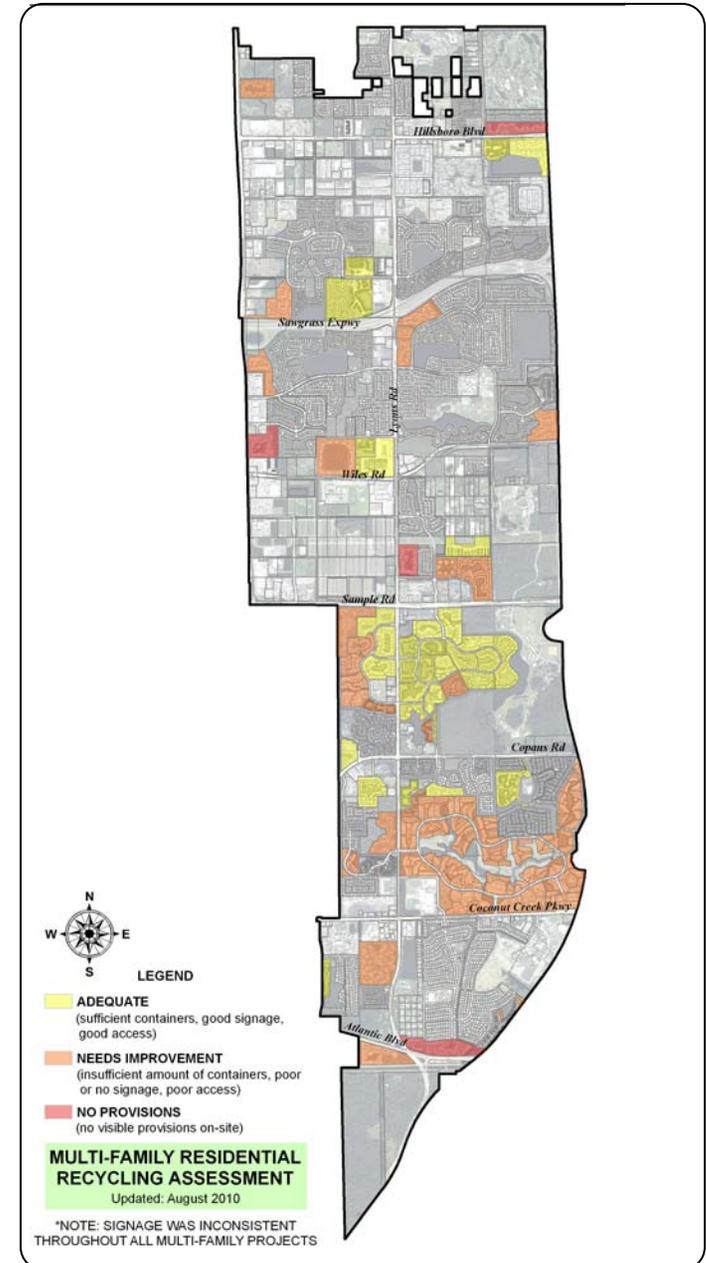
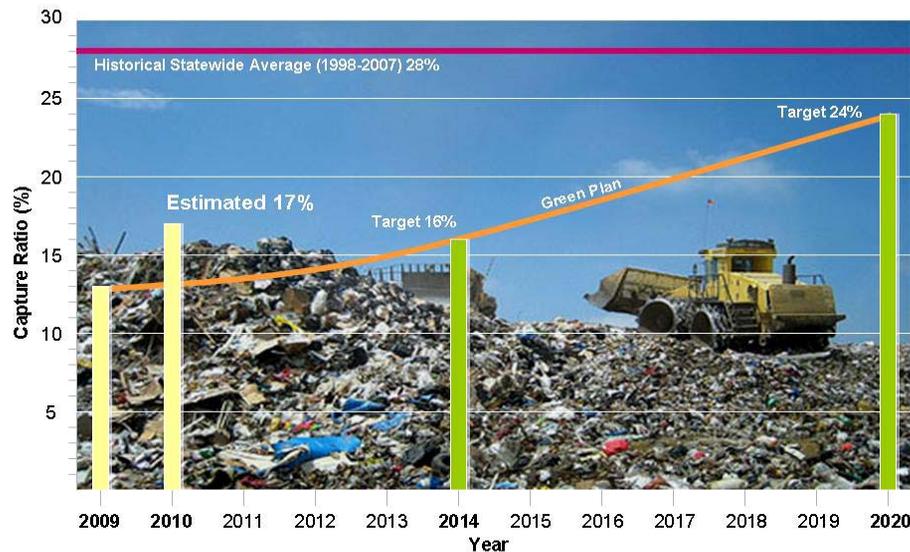
Quick Numbers

- # of actions for Category 5 → 4
- # of actions in progress → 1
- # of participants in the paint recycling program → 54

2010 Highlights

- ✓ Distributed 8,000 single stream carts to single family areas
- ✓ Obtained additional single stream carts for multi-family areas

**Recycling
Capture Rate Ratio**



Map available in larger print

Action Steps

Results of each action step under Category 5

Category 5: Waste Reduction and Recycling

	ACTION OBJECTIVE	ACTION SUMMARY	PERFORMANCE MEASURE	2009	2010
5.1	Increase recycling throughout the City by 25% by 2014 and 50% by 2020.	Status: ✓ In progress Target Date: 2014 / 2020 Data Sources: Public Services Dept. Note: (1) Containers purchased for multi-family distribution (2) Distribution is SFR only (3) Average capture rate ratio is based on best available data from All Service.	# of single stream recycling containers purchased	8,000	809
			# of single stream recycling containers distributed	0	8,000
			Average capture rate ratio (estimated)	13%	17%
			# of participants in paint recycling program	67	54
5.2	Create a "user-friendly" composting program by 2012 to reduce solid waste disposal.	Status: ? Undetermined Target Date: 2020 Data Sources: -	Creation of composting program	-	-
			# of properties using composting	-	-
5.3	Require all construction and demolition debris to divert 75% of waste from landfills.	Status: ? Undetermined Target Date: 2020 Data Sources: -	Code revision completed	-	-
			# of demolition permits	-	-
5.4	Create a shredded paper program for the community by 2010.	Status: ✓ In progress Target Date: 2010 Data Sources: Police Dept, City Clerk Note: (1) Staff has started the process of developing a program/event (2) First event will be held in 2011.	# of participants	-	-
			lbs. of paper shredded	-	-

Category 6: Sustainable Transportation and Mobility

Transportation

Public Transportation – Greenway Network – Mobility

Summary

The City has worked aggressively with other government agencies in addressing transportation and land use matters in the northwest quadrant of Broward County to ensure economic viability, regional mobility, and creation of sustainable, liveable communities. This is most evident with the Northwest Broward Transportation Working Group, which includes staff from the cities of Coconut Creek, Margate, Coral Springs, and Parkland. It also includes staff from Broward County Transit and the Broward MPO. In addition, the City continues to implement the City's Master Greenways Plan, which provides an alternative mode of mobility to and from places of interest with connections to bus shelters and bus stops. Implementation efforts have also begun regarding a bike sharing program with the first stations in Broward County to be located in Coconut Creek. All the actions under this category are in progress.

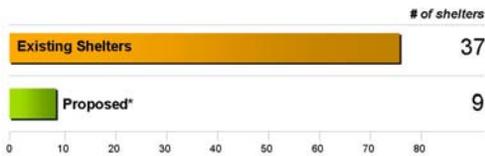
Quick Numbers

of actions for Category 6 → 4
 # of actions in progress → 4

2010 Highlights

- ✓ Completed the equestrian greenway trail in the Vinkemulder area
- ✓ Obtained permits for construction on Coconut Creek Pkwy as part of the Education Corridor Plans for improved mobility along the corridor

Bus Shelters



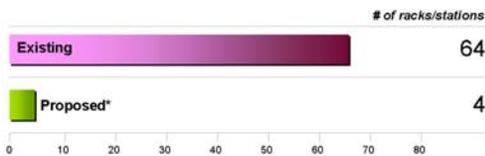
*Based on BCT and approved site plans that are required to install shelters.

City Shuttle Service



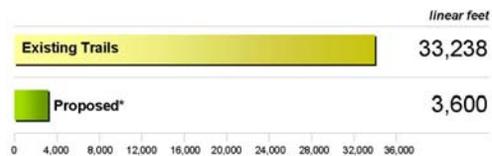
*Based on 2011 Budget

Bike Racks

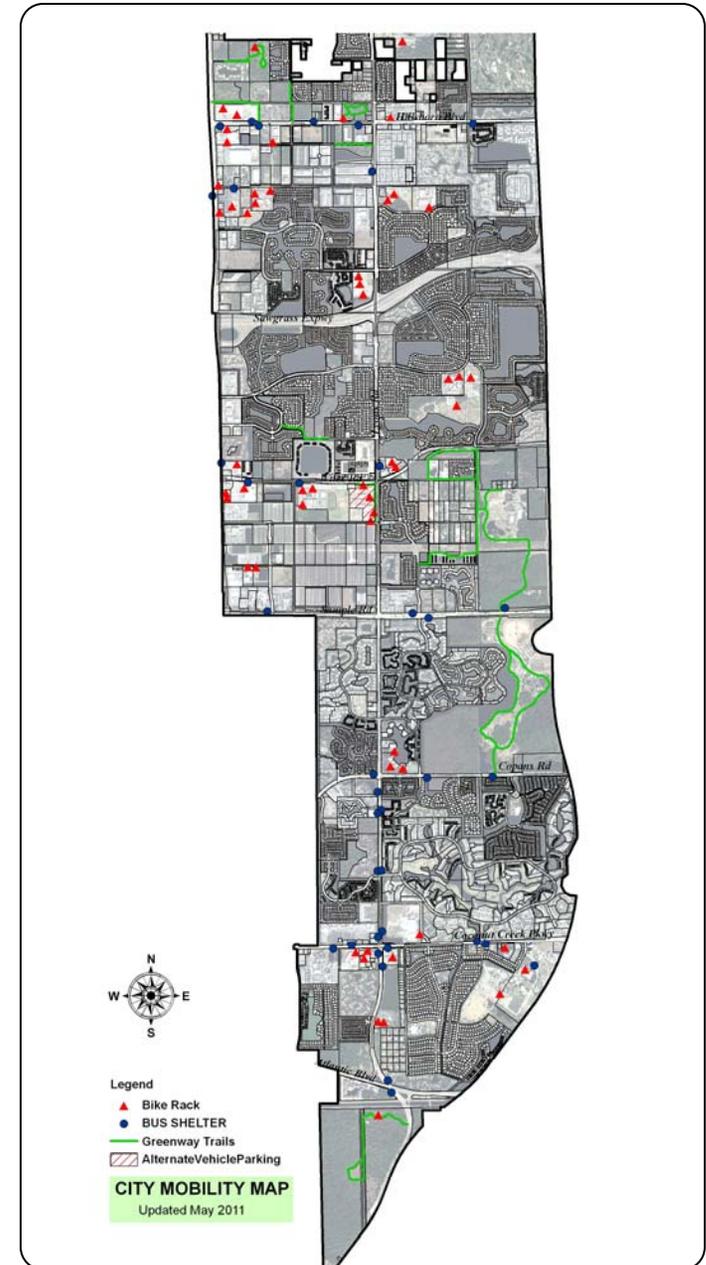


*Based on approved site plans.

Greenway Trails



*Based on 2010 Budget.



Map available in larger print

Action Steps

Results of each action step under Category 6

Category 6: Sustainable Transportation and Mobility

	ACTION OBJECTIVE	ACTION SUMMARY	PERFORMANCE MEASURE	2009	2010
6.1	Ensure the construction of an intermodal transit hub in the MainStreet Project Area by 2020 or completion of development in MainStreet.	Status: ✓ In progress Target Date: 2020 Data Sources: Planning Research, Outlook Calendars	# of planning documents referencing hub	3	3
			# of meetings with other government agencies/staff	12	27
			# of property owners planning for/participating	2	2
6.2	Improve mobility throughout the City by increasing the number of bus shelters, bicycle parking, bicycle lanes, greenway trails, and local bus shuttle service.	Status: ✓ In progress Target Date: 2020 Data Sources: GIS Inventory Data, Site Visibility Analysis, Greenway Master Plan, Public Services Department Note: (1) Greenway trails in county parks and preserves were added to city wide total	# of existing bus shelters (city and county)	37	37
			# of existing bike racks (nonresidential)	62	64
			# of linear feet of existing greenway trails	4,338	33,238
			# of shuttle riders (est. per year)	130,168	145,409
			# of linear feet of bike lanes (approx.)	45,700	45,700
6.3	Implement a bike or car sharing program in the City by 2020.	Status: ✓ In progress Target Date: 2020 Data Sources: n/a Note: (1) Staff is in the process of developing a program (2) Two bike stations planned for 2011	# of programs existing	-	0
			# of programs planned	-	1
6.4	Implement an alternative vehicle parking program to designated parking areas for alternative vehicles in developments throughout the City by 2020.	Status: ✓ In progress Target Date: 2020 Data Sources: n/a Note: (1) Program is being implemented through site plan approvals (2) Only in MainStreet for 2010.	# of parking spaces existing	-	63
			# of spaces planned	-	125

Category 7: Community Outreach and Empowerment

Multiple Themes

Energy – Water – Waste Reduction – Climate Change

Summary

There are many opportunities to empower the community and ensure businesses throughout the City participate in sustainable practices. By developing community outreach, educational information, and innovative programs, the City can enhance the quality of life for its residents while addressing environmental sustainability. In 2010, the City produced numerous promotions and articles related to the City Green Plan as a means to communicate to the public about the City's commitment to address climate issues. Consistent with Action 7.1, a proclamation declared the first City Green Day in 2010, which was held in conjunction with CocoFest in November and it is anticipated that a City Green Day will be held annually. The actions in progress under this category are Actions 7.1, 7.3, and 7.5.

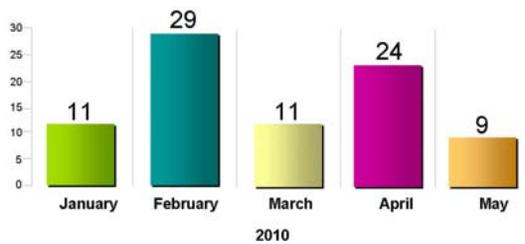
Quick Numbers

- # of actions for Category 7 → 6
- # of actions in progress → 2
- # of attendees at lecture series → 100

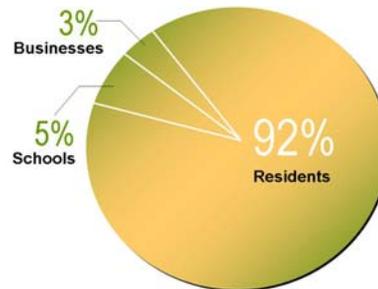
2010 Highlights

- ✓ Held the 1st City Green Day as part of CocoFest at Promenade
- ✓ Money Magazine ranked Coconut Creek 48th (out of 100) as the Best Place to Live among U.S. small cities

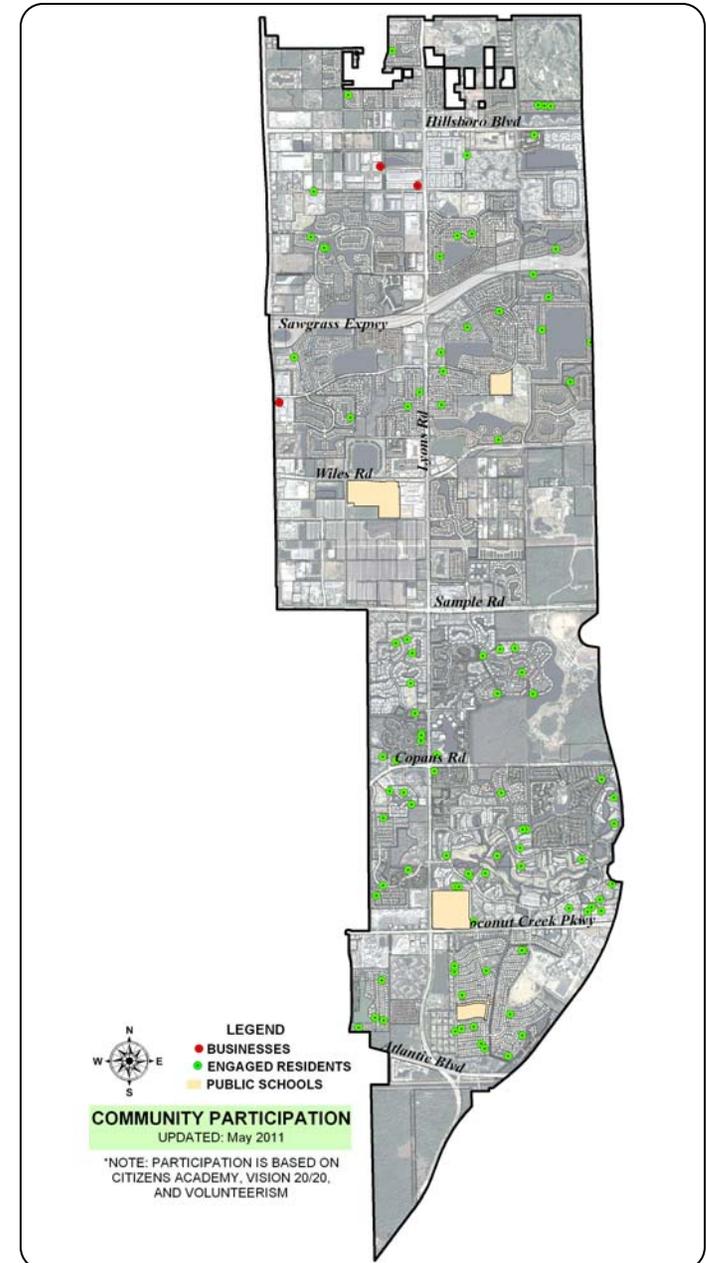
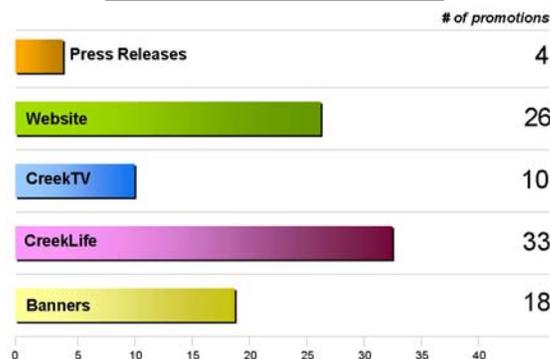
Lecture Series Attendees



Breakdown of Community Participation (2009-2010)



2010 Promotion of the City Green Plan



Map available in larger print

Action Steps

Results of each action step under Category 7

Category 7: Community Outreach and Empowerment

	ACTION OBJECTIVE	ACTION SUMMARY	PERFORMANCE MEASURE	2009	2010
7.1	Proclaim a City Green Day with the first City Green Day to be held in 2010.	Status: ✓ In progress Target Date: 2010 Data Sources: City Clerk, Commission Meeting Note: (1) Proclamation declared the first City Green Day (2) Green Day and Cocofest were held as one event.	Proclamation date	-	11/18/10
			# of events that support proclamation	-	2
			# of participants at events (approx.)	-	3,000
7.2	Implement a City Green Award program to recognize homeowners, neighborhoods, and businesses that incorporate green and sustainable practices.	Status: ? Undetermined Target Date: 2020 Data Sources: n/a	# of applicants - homeowners	-	-
			# of applicants - neighborhoods	-	-
			# of applicants - businesses	-	-
			# of awards (total)	-	-
7.3	Implement a yearly green lecture series for the public on a variety of sustainable topics.	Status: ✓ In progress Target Date: 2020 Data Sources: Sign-in Sheets, Feedback Surveys	# scheduled lectures	2	5
			# of attendees (total)	104	100
			% satisfaction rate (based on surveys)	91.2%	90.6%
7.4	Seek Florida Green Building Coalition (FGBC) Local Government Designation by 2012.	Status: ? Undetermined Target Date: 2012 Data Sources: n/a	Application submitted	-	-
			Certification received	-	-
7.5	Launch a community-wide outreach campaign on the City Green Plan with continuous program promotion.	Status: ✓ In progress Target Date: 2020 Data Sources: Community Relations Note: (1) Totals reflect where the topic of a Green Plan or aspect of the Green Plan was discussed (2) City's website was updated with a new "live green" tab.	# of press releases	1	4
			# of website promotions	1	26
			# of green productions on CreekTV	0	10
			# of articles and ads in Creeklife	6	33
			# of banners	2	18
7.6	Create a City Sustainable Center on City owned property by 2014.	Status: ? Undetermined Target Date: 2014 Data Sources: n/a	# of city properties available	-	-
			# of properties appropriate for center	-	-
			# of planned programs	-	-
			# of partnerships/sponsors	-	-

Summary

As part of the 2009 annual report, the City conducted a GHG Emissions Inventory and Recommendations Report to ensure that reduction targets would be achieved from government operations consistent with the City's Green Plan. Specific recommendations were outlined in an effort to guide budget priorities. Below is a chart that identifies key elements of this coordination effort. The actions in progress under this category are 8.3, 8.4, 8.5, 8.8, and 8.9.

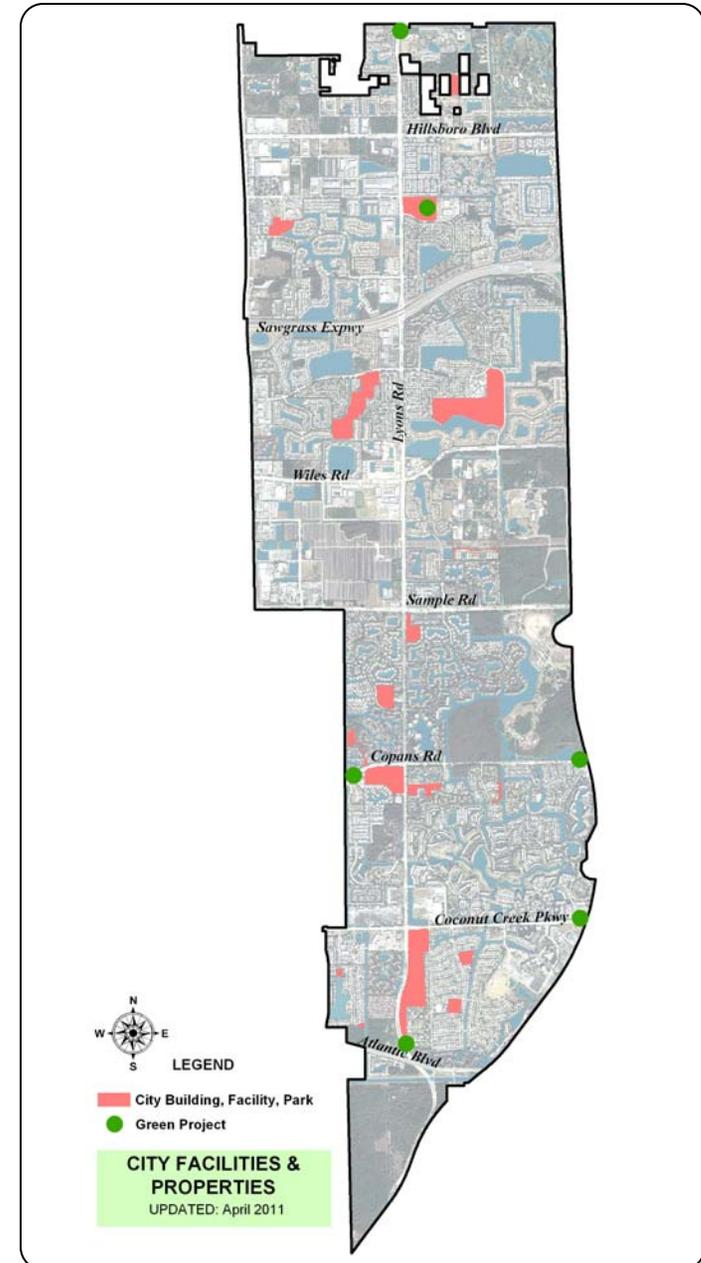
Quick Numbers

- # of actions for Category 8 → 9
- # of actions achieved → 2
- # of actions in progress → 5

2010 Highlights

- ✓ Installed new high efficiency air conditioning units at the Rec Complex
- ✓ Installed new energy efficient lighting in Commission Chambers
- ✓ Actualized a savings of 5,300 gallons of fuel, or approximately \$13,000

Green Plan Action(s)	GHG Emission Reduction Recommendations	CIP Item OR Operational	In Progress
BUILDINGS & FACILITIES			
1.3, 8.3	Achieve LEED or Florida Green Building Coalition certification for all new buildings	CIP	Y
3.2, 8.3, 8.4	Increase alternative energy use on city-owned properties and in buildings	CIP	N
1.4, 8.4	Replace older air conditioning units with newer efficient models	CIP	Y
1.4, 8.4	Replace existing lights with energy efficient lights	CIP	Y
1.4, 8.4	When re-roofing use high albedo techniques to reduce energy use and reduce heat island effect	CIP	Y
1.4, 8.4	Where applicable, use lighten shade or awning colors to reduce heat island effect	CIP	N
2.1, 8.4	Use plants, trees, and green roofs as a means of energy reduction	CIP	N
1.4, 8.4	Replace all light fixtures for offices and meeting space to sensor switches	CIP	Y
1.4, 8.4	When installing alarm or other security systems require energy efficiency	CIP	Y
1.4, 4.5	Convert water fixtures in all city owned buildings and properties to efficient fixtures	Operational	Y
8.4	Reduce lighting in areas that are overlit (indoor and outdoor tied to bldg energy bills)	Operational	Y
1.4, 8.4	Where possible and practical, connect to natural gas	Operational	N
STREETLIGHTS & TRAFFIC SIGNALS			
8.4	Replace existing streetlights and signals with energy efficient lights	Operational	N
8.4	Reduce lighting in areas that are overlit (outdoor parking lots not tied to bldg energy bills)	Operational	N
WATER & WASTEWATER DELIVERY			
8.4	Require energy efficient retrofitting of all pumps, irrigation, and lift stations	CIP	N
8.4	Require energy efficiency for all new pumps, irrigation, and lift stations	CIP	N
8.4	Where possible, modify energy source from electricity to natural gas	CIP	N
3.2, 8.3, 8.4	Where possible, provide alternative energy sources for pumps, irrigation and lift stations	CIP	N
VEHICLE FLEET			
8.9	Increase the number of vehicles using alternative fuels	CIP	N
8.9	Purchase fuel efficient vehicles	CIP	N
8.8	Reduce fleet size where appropriate	CIP	Y
8.2	Advance emission controls on all city fleet	Operational	Y
8.8	Improve fleet scheduling through route efficiency and possible shared-use	Operational	N
8.8	Improve fleet tire pressure	Operational	Y
TRANSIT FLEET			
8.8	Improve transit scheduling through route efficiency and possible shared-use with adjacent cities	Operational	Y
FUGITIVE EMISSIONS			
	n/a		
EMPLOYEE COMMUTE			
6.2, 6.3, 6.4	Increase transit, bicycle and walking commutes through incentive programs	Operational	N
8.8	Reduce job related driving for employees with telecommunications options	Operational	Y
OTHER			
8.5	Reduce paper consumption through a paper reduction policy	Operational	N
5.1	Increase recycling throughout city offices to prevent waste in day-to-day operations	Operational	Y
8.8	Adopt a green procurement process for purchasing and/or for bidding	Operational	N
5.2	Compost landscape debris from city owned properties or resulting from natural disasters	Operational	N
8.8	Examine franchise agreements for opportunities to reduce GHG emissions based on contracts	Operational	Y



Map available in larger print

Action Steps

Results of each action step under Category 8

ACTION OBJECTIVE		ACTION SUMMARY	PERFORMANCE MEASURE	2009	2010
8.1	Improve indoor air quality in all city buildings by 2020.	Status: ? Undetermined Target Date: 2020 Data Sources: n/a	# of indoor air quality inspections	-	-
			# of indoor air improvements/cleaning projects	-	-
			# of fake plants removed from buildings	-	-
8.2	Advance emission controls on all City fleet vehicles to reduce emission by 50% by 2020.	Status: ? Undetermined Target Date: 2020 Data Sources: n/a	# of emission programs evaluated	-	-
			# of vehicles for emission improvements	-	-
			% of vehicles improved	-	-
8.3	Increase the use of renewable energy sources in City buildings with 15% of building usage from renewable source by 2020.	Status: ✓ In progress Target Date: 2020 Data Sources: Public Services Dept. Note: Solar power projects are listed as individual projects that may be under a overall program (e.g. solar lighting for city identity signs)	# of solar power projects	20	0
			# of projects/programs (other renewable)	0	0
			% of city owned buildings using renewable energy	0%	0%
			% of building usage from renewable energy source	0%	0%
8.4	Reduce overall energy consumption on City owned sites by 20%.	Status: ✓ In progress Target Date: 2020 Data Sources: Public Services and IT Depts. Note: (1) # of solar power projects/programs is the same data from Action 8.3 (2) energy project for 2010 was replacement of numerous air conditioning units which was considered 1 project.	# of initiatives from IT city-wide technology system energy consumption	3	1
			# of solar power projects/programs	20	0
			# of energy efficiency projects (lighting and HVAC)	3	1
			# of city buildings certified as LEED®	0	0
8.5	Reduce paper consumption by 50% through a Paperwork Reduction Policy.	Status: ✓ In progress Target Date: 2020 Data Sources: IT Dept., Finance Plus, Go Green Printing Report – Coconet Note: E-gov solutions include internal and external online efforts.	# of E-gov solutions (e.g. online billing, CRM)	16	1
			# of pages printed city-wide	723,221	614,062
			City-wide copy paper expense	\$9,982.11	\$6,976.83
8.6	Create a Sustainable City Coordinator position by 2010.	Status: ✓ Achieved	Proposed as part of FY 2010 budget	10/1/2009	-
8.7	Create a City Green Team by 2010 with a representative from each department.	Status: ✓ Achieved	Green Team formed	10/1/2009	-
8.8	Monitor greenhouse gas (GHG) emissions from city operations with a reduction target of 7% below 2009 levels by 2012 and 20% below by 2020.	Status: ✓ In progress Target Date: 2012 / 2020 Data Sources: Finance, Public Services, & Sustainable Development Depts., ICLEI – CACP Software Note: See GHG Inventory Report for more detailed information.	GHG missions (tonnes of CO ₂ e)	7,065	-
			% of reduction	-	-
			# of programs achieving this action	-	-
8.9	Increase the number of City vehicles using alternative fuels by 25% by 2014 and 50% by 2020.	Status: ✓ In progress Target Date: 2014 / 2020 Data Sources: FASTER Query and Report, Fuelmaster Note: (1) Based on fuel consumption data for CY 2009. (2) Only fleet vehicles that consumed fuel for CY 2009 are listed here. (3) Percent of fleet using Alternative Fuels includes any vehicle that utilized biodiesel. (4) P.D. motorcycles and leased vehicles are included in # of vehicles in fleet because of fuel consumed at expense of the City.	# of vehicles (CY fuel use)	242	236
			# of non-highway & equipment (CY fuel use)	42	30
			% of fleet using alternative fuels	2.6%	1.5%
			Gallons of fuel consumed (total of all fuels)	183,327	180,013
			Idle time for vehicles (hours)	46,774	48,461

Category 9: Regional Leadership

Climate Change

Carbon Reduction— Regional Leadership – Environmental

Summary

Regional participation is very important to the advancement of this plan since GHG emissions are not limited to jurisdictional boundaries and each city has a role in reducing its impact. Broward County Commission recognizes this issue and recently adopted a Climate Action Plan. The policies in the County's plan are similar to the City's Green Plan. From time to time, both plans should be reviewed to ensure consistency with goals and target in the event changes occur. Another aspect of regional leadership is the effort conducted by the City on the closure of the Waste Management Landfill, which is immediately adjacent to the City's eastern border. Numerous meetings have been held regarding this matter including a joint meeting between Coconut Creek City Commission and Broward County Commission resulting on limitations on landfill height until 2018. This progress action directly supports Actions 9.1 and 9.2.

Quick Numbers

of actions for Category 9 → 6
 # of actions in progress → 2
 # of high ranked actions in County Plan → 65
 # of members in County Climate Task Force → 25

2010 Highlights

- ✓ Agreement with County/Waste Management on landfill height
- ✓ Approved MainStreet DRI with conditions for creating an eco-business hub with DRI development



ACTION OBJECTIVE		ACTION SUMMARY	PERFORMANCE MEASURE	2009	2010
9.1	Participate in a regional or county Climate Action Plan.	Status: ✓ In progress Target Date: 2020 Data Sources: Outlook Calendars	# of public meetings attended by Commission	3	0
			# of public meetings attended by staff	5	12
9.2	Lead the effort to close the Waste Management Landfill.	Status: ✓ In progress Target Date: 2020 Data Sources: Outlook Calendars	# of city lead efforts	21	5
9.3	Establish an eco-business hub for Northern Broward County, in the MainStreet Project Area, that generates jobs and advances a sustainable City tax base.	Status: ? Undetermined Target Date: 2020 Data Sources: -	# of new businesses in MainStreet	-	-
			% of new businesses / eco-business related	-	-
			# of jobs created	-	-
			% of new jobs created where employees live and work in city or Northern Broward	-	-
9.4	Create a partnership with local colleges and universities, such as Broward College and Florida Atlantic University, for sustainable research, pilot programs, and education courses.	Status: ? Undetermined Target Date: 2020 Data Sources: -	# of partnerships	-	-
			# of programs	-	-
			# of events	-	-
9.5	Lead the effort for a local referendum on funding for regional transportation planning.	Status: ? Undetermined Target Date: 2020 Data Sources: -	# of public meetings	-	-
			# of action efforts	-	-
9.6	Create a new local business tax structure by 2012, which can become a regional model, based on a sustainable business practices.	Status: ? Undetermined Target Date: 2012 Data Sources: -	# of businesses participating in pilot program	-	-
			# of businesses in City	-	-
			# of public meetings held	-	-



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