

CITY GREEN PLAN REPORT

2014



“Creating a Culture of Green Excellence”

**COCONUT
CREEK**

BUTTERFLY CAPITAL OF THE WORLD

Introduction

Overview

Each year, the City Green Plan Report generates 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 2014 calendar year. Historical data can be found on the City's website http://www.coconutcreek.net/sd/living_green.

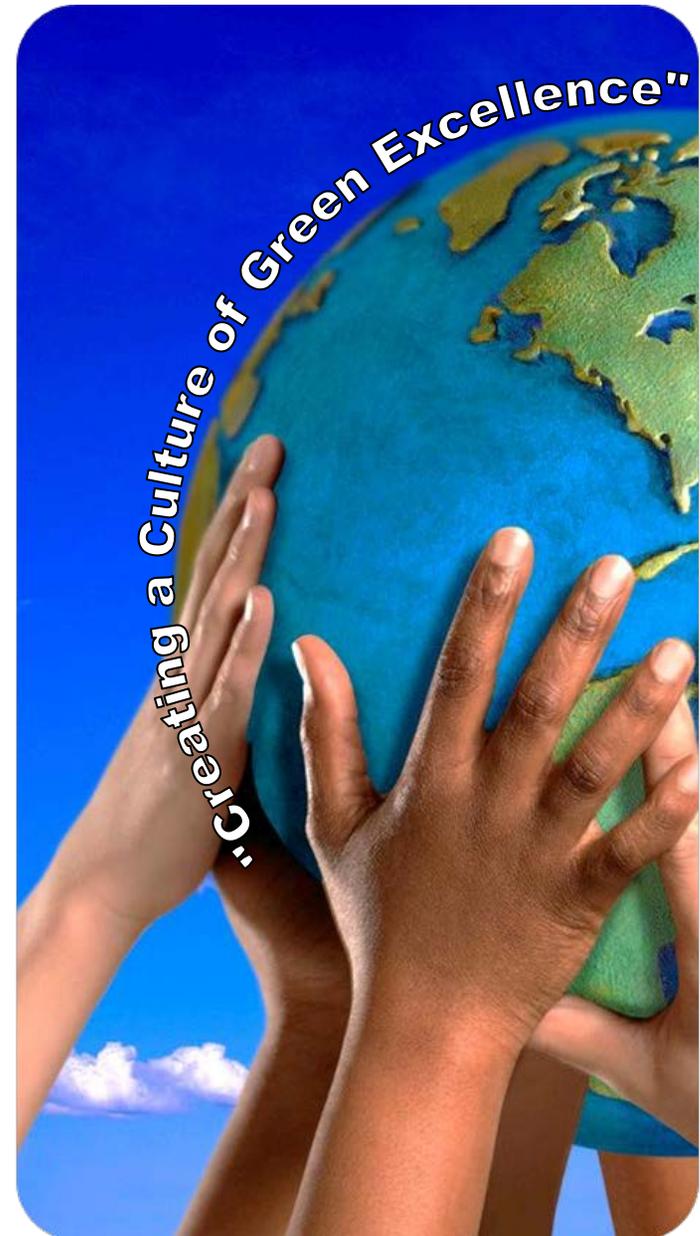
Collaborative Effort

The *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.

- Linda Whitman, Sharon Vollmer, and Sean Flanagan - Sustainable Development
- Lori Messer and Elise Adler-Hogan - Finance and Administrative Services
- Lou Italice and Mike Heimbach - Public Works
- Krishan Kandial – Utilities and Engineering
- Yvonne Lopez - Community Relation's Department
- Janice Ninesling - City Clerk's Department
- Sanjeev Bissessar - Human Resources
- Ken Brown and Eric Rupert - Information Technology
- Danielle DeBarros - Parks and Recreation
- Edwin Almanzar - 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 8: City Operations. In 2014, there were 33 action steps in progress, which represents 67% of all action, and 11 action steps undetermined, representing 21%. There are 7 action steps achieved, representing 12% of all action.



Sustainable Lecture Series - Florida Friendly Landscaping

Florida's diverse eco-system is a beautiful and intricate mixture of water, landscape, and wildlife communities which requires a sustainable co-existence with man and man-made elements. Maintaining the balance requires forethought on behalf of everyone. Yards and landscapes can be a positive asset to Florida ecology when designed properly to minimize waste and protect the environment. Effective design can reduce stormwater runoff and even attract wildlife. In an effort to educate the public on the benefits of this positive environmental approach, a program was developed by the University of Florida Institute of Food and Agricultural Services (IFAS) Extension called the Florida Yards and Neighborhoods Program and is commonly referred to as "Florida-Friendly Landscaping".



Through the nine principals of the Florida Yards and neighborhoods program, the public is educated to begin a shift their mindset from encouraging manicured, exotic, high maintenance landscapes to embracing pre-existing natural conditions, native plant material, and low maintenance easy, care yards.

The City of Coconut Creek conducted a three-part lecture series covering the nine principles outlined above.

Session One provided guidance on choosing the right plant for the right place to maximize the plants potential and attract wildlife and how to control pests responsibly as part of a sustainable Florida garden. A presentation on attracting butterflies rounded out the session followed by a plant give-away. This session was presented by Dr. John Pipoly, Urban Horticulture & Natural Resources Extension Agent, UF-IFAS/Broward Co Extension Ed, Parks and Rec Division.

Session Two outlined efficient watering techniques, how to reduce stormwater run-off from your yard, and ways to protect our Florida waterfronts. A short presentation was given on living wall gardens followed by a rain barrel give-away. This session was presented by Julio Pérez, Horticultural Technician, UF-IFAS/Broward Co Extension Ed, Parks and Rec Division.

Session Three focused on mulching, recycling yard waste, and appropriate fertilizer use to further promote a sustainable Florida-Friendly landscape. Following this presentation, a representative from the Florida Native Plant Society introduced the most underused native plants for the home landscape. Capping the presentations was a compost bin give-away. This session was presented by Adam Pitcher, Horticultural Assistant, UF-IFAS/Broward Co Extension Ed, Parks and Rec Division.



- The nine principles of the Florida Yards and Neighborhoods Program are:**
1. Right plant, right place
 2. Water efficiently
 3. Mulch
 4. Recycle yard waste
 5. Fertilize appropriately
 6. Control yard pests responsibly
 7. Reduce stormwater runoff
 8. Attract wildlife
 9. Protect the waterfront

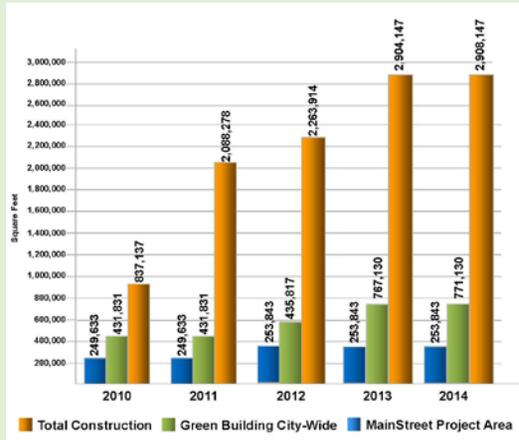
Category 1: MainStreet and Green Development

Urban Design

Green Building – Urban Planning – Economic Development

Green Building Growth

There was an increase in planned development for 2014 but a small increase in construction. Green building construction increased based on the inclusion of new green programs for construction activity including Section 13-320 of the land Development Code. This code, along with LEED, FGBC and others has been recognized by the City as contributions to green building construction.



Green Building by Area

There has been a slight shift of green building construction with the majority being outside the MainStreet Project Area. This is expected until future development occurs in MainStreet.



Quick Numbers

Below are quick reference numbers in relation to this category.

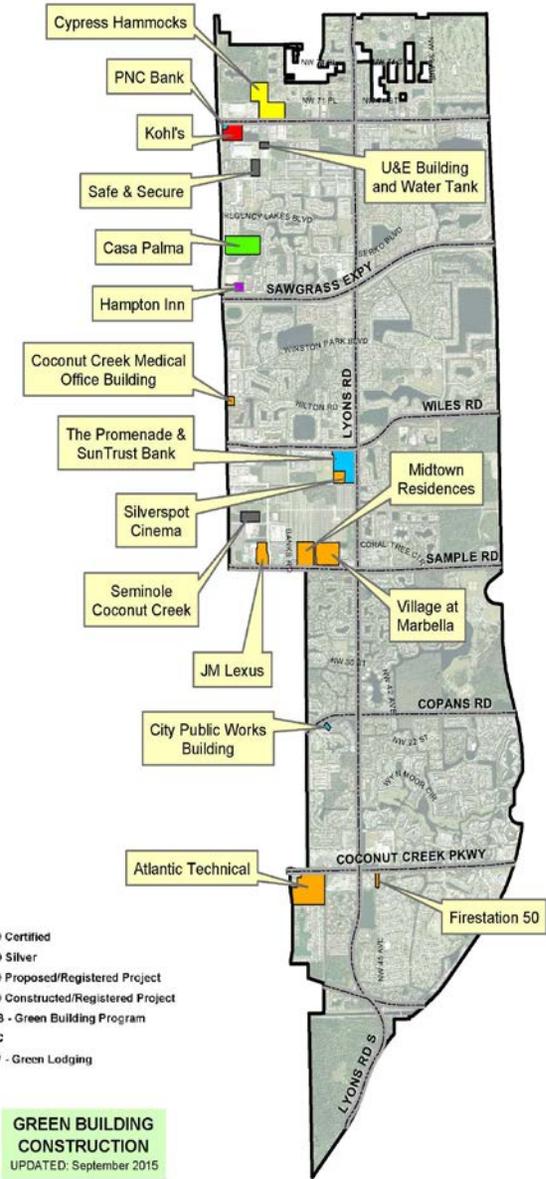
- # of actions for Category 1 → 9
- # of actions in progress → 8
- # of proposed green buildings → 1
- # of LEED® certified buildings → 16
- # of FGBC certified buildings → 0
- # of FDEP certified Green Lodging → 1
- # of NAHB green certified buildings → 11

Total Construction

As mentioned, planning was significant but construction was light for 2014. The only construction that was CO'd for 2014 was a remodel of a bank. However, with the remodel, green screens were added, contributing to the overall green calculations for the year.

USGBC Certification

The City continues to encourage LEED® certification. Below are the certification levels to date.



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	2010	2011	2012	2013	2014
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)	0	1	2	0	0
			# of buildings seeking certification	0	0	0	1	0
			# of buildings certified (cumulative)	14	14	14	14	14
			% certified as Silver, Gold, or Platinum	100%	93%	82%	82%	82%
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) % certified is based on cumulative total of issued COs since 2009 (3) Other green building programs have been added to this action (see map).	# of buildings constructed (based on issued COs)	11	7	6	23	16
			# of buildings seeking certification	0	0	1	0	14
			# of buildings certified (cumulative)	1	1	1	13	13
			% certified	5%	4%	3%	24%	19%
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 Note: City's Public Works Administration EOC Building received LEED® Silver in December 2013	# of city projects proposed	1	1	1	0	1
			# of projects constructed (based on issued COs)	0	0	0	1	0
			# of buildings seeking certification	0	1	1	0	1
			# certified (cumulative)	0	0	0	1	1
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 Works Dept.	# of retrofitted buildings	3	2	0	0	0
			# of retrofitted buildings seeking certification	0	0	0	0	0
			# certified	0	0	0	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: ✓ In progress Target Date: 2013 Data Sources: - Note: This action is being developed by Green Team	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 Note: New projects include those under review and approved since 2009	# of new projects	3	7	8	13	4
			# of green tech/art displays proposed (cumulative)	3	3	4	4	6
			# of green tech/art displays constructed	0	0	1	1	1
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: 2013 Data Sources: Site Plans, USGBC Note: Program completed by staff waiting for final City Commission approval.	# 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: No Action Taken Target Date: 2020 Data Sources: -	# of school properties in MainStreet Area	1	1	1	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 Note: (1) New projects include those under review and approved since 2009 (2) % is based on new projects	# of new projects (cumulative)	2	4	4	5	8
			# of projects higher density/mixed-use (cumulative)	1	3	3	4	4
			% of projects support action	50%	75%	75%	80%	50%

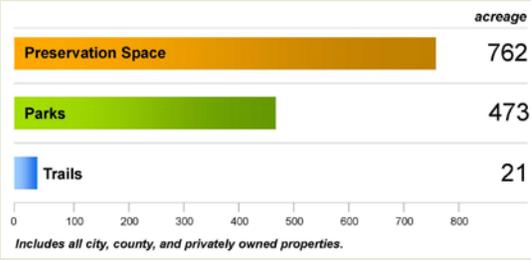
Category 2: Urban Nature

Urban Nature

Parks – Habitats – Wildlife

Park and Green Space

Preservation and park have remained the same since 2012 but there was an increase in greenways in 2014.



Tree Canopy Coverage

Tree canopy coverage has remained relatively the same since 2012. There was a slight increase in the number of trees inventoried on city-owned and maintained land; however, it did not significantly increase the percentage. Tree canopy coverage is an estimated total.



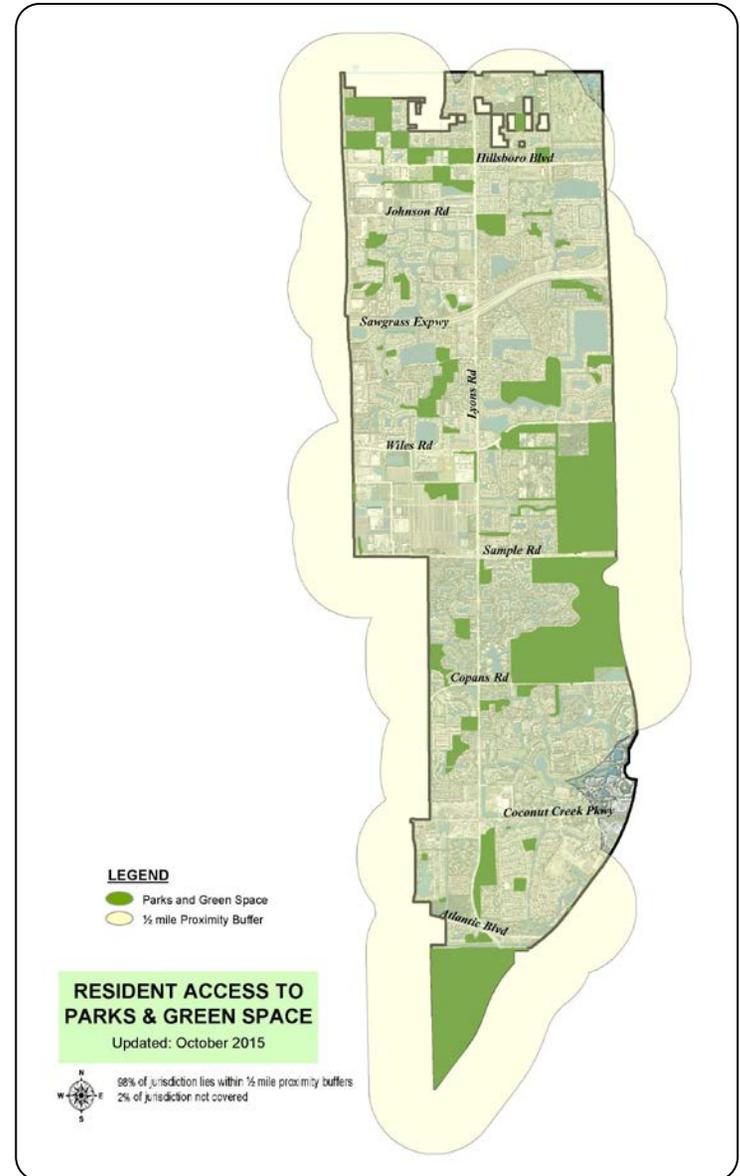
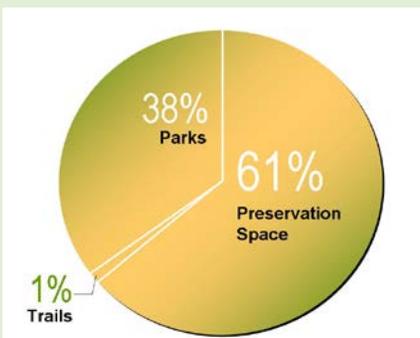
Quick Numbers

Below are quick reference numbers in relation to this category.

- # of actions for Category 2 → 3
- # of actions in progress → 2
- # of greenway trails planned → 1

Percentage of Green Space

The percentage of green space has remained the same since 2012. Although the City's trailways network expanded in 2014, the percentages remained the same.



Action Steps

Results of each action step under Category 2

	ACTION OBJECTIVE	ACTION SUMMARY	PERFORMANCE MEASURE	2010	2011	2012	2013	2014
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 Works Depts. Data Records, GIS Inventory Note: (1) Tree canopy coverage is approximate based on staff assessment 1999 data (2) Inventoried trees are reflected as a cumulative total of city owned land	# of trees at free giveaway	700	700	700	600	600
			# of trees - city inventory (cumulative)	6,379	6,977	7,804	8,471	9092
			# landscaping awards	2	0	0	0	0
			# acres of natural conservation areas (cumulative)	762	762	763	763	763
			% estimated in tree canopy coverage	21%	22%	28%	28%	29%
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: No Action Taken 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 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	7	7	7
			# of recreational parks (cumulative)	6	6	6	6	6
			# of open space/preserve areas (cumulative)	29	29	30	30	30
			# of greenways trails (cumulative)	11	11	11	11	18
			% of city area within ½ mile of all of the above	97%	98%	98%	98%	98%

Category 3: Energy Conservation

Energy

Energy Efficiency – Renewable Energy – Conservation

Junior Achievement Solar Photovoltaic System

The Junior Achievement World Huizenga Center at Broward College North Campus in Coconut Creek has a solar photovoltaic system on the building rooftop. The system was installed in 2010 and is a 175 kW system achieving results ahead of scheduled.



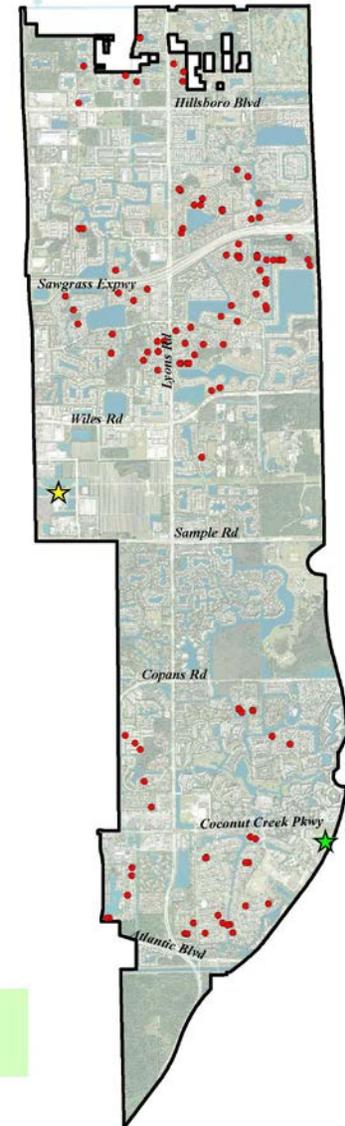
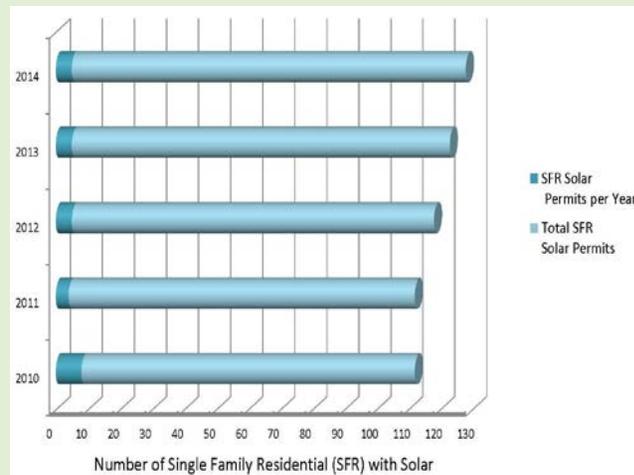
Quick Numbers

Below are quick reference numbers in relation to this category.

- # of actions for Category 3 → 5
- # of actions in progress → 3
- # of single family units with solar → 123

Residential Solar Use

Below is a graphic depicting the total single family homes with solar use and the numbers of permits issued for solar use since 2009.



Legend

- Residential (single family)
- ★ Commercial Facility
- ★ Public/Community Facility

CITYWIDE SOLAR USAGE
UPDATED: October 2015

Map available in larger print

Action Steps

Results of each action step under Category 3

ACTION OBJECTIVE		ACTION SUMMARY	PERFORMANCE MEASURE	2010	2011	2012	2013	2014
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: No Action Taken 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: No Action Taken 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: <input checked="" type="checkbox"/> In progress Target Date: 2020 Data Sources: GIS, Code Compliance, Permits Note: (1) Based on SFR homes only (approx. 10,000), % per total SFR units (2) Permit information obtained from Community Plus. **Percent has been adjusted to account for SFR only.	# of SFR homes with solar (cumulative)	104	108	113	118	123
			# of permits issued per year	8	4	5	5	5
			% of homes**	1%	1%	1%	1%	1%
			# of grants applied for	-	-	5	4	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 efficient projects by 2020.	Status: <input checked="" type="checkbox"/> In progress Target Date: 2020 Data Sources: - Sustainable Development Note: (1) Grant program and application was modified the first QT 2012 (2) Tracking began in mid-2012.	# of applied grants for energy	-	-	1	0	2
			% of grants toward renewable/efficient energy projects	-	-	20%	0%	50%
			# of grants applied for	5	7	3	6	5
3.5	Ensure 20% of grants received by the City are for energy conservation projects.	Status: <input checked="" type="checkbox"/> In progress Target Date: 2020 Data Sources: Grants Received Note: (1) Grant information obtain from Finance Department which tracks all department grants.	# of grants received - awarded	4	4	0	2	2
			# of grants for energy	0	0	0	0	0
			% of grants for energy	0%	0%	0%	0%	0
			\$ amount of energy grants awarded	0	0	0	0	0

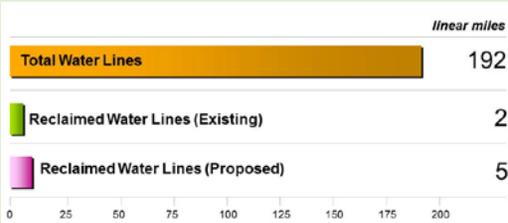
Category 4: Water Conservation and Reduction

Water

Water Efficiency – Water Conservation – Protection

Reclaimed Water

With assistance from the South Florida Water Management District and Broward County, the City is developing a program to provide reclaimed water throughout the City. Below illustrates total water lines compared to existing and proposed reclaimed lines. An additional segment was added from Wiles Road to Serko Blvd.



Water Consumption Analysis

Below is an analysis for water consumption by month for 2014.

Month	Residential	Commercial	Total
January	109,162	19,608	128,770
February	103,003	17,535	120,538
March	99,292	17,796	117,088
April	111,404	18,327	129,731
May	114,748	19,162	133,910
June	112,603	18,727	131,330
July	95,431	16,928	112,359
August	99,949	18,022	117,971
September	100,720	20,003	120,723
October	95,690	19,491	115,181
November	105,564	18,011	123,575
December	102,758	17,175	119,933
Monthly Average	104,194	18,399	122,593
Total Avg Daily Consumption (MG)			4.09
Avg # Customers - Residential			10,965
Avg # Customers - Commercial			762
Avg Daily Consumption-Residential (MG)			3.47
Avg Daily Consumption-Commercial (MG)			0.61
Avg Annual Consumption - Residential (MG)			1,266.55
Avg Annual Consumption - Commercial (MG)			222.65

*Numbers are per 1000 gals

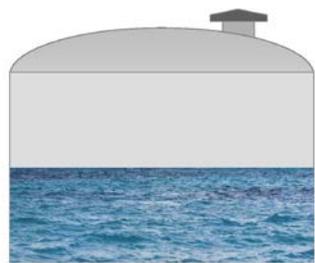
Quick Numbers

Below are quick reference numbers in relation to this category.

- # of actions for Category 4 → 5
- # of actions in progress → 5
- # of water code violations → 83
- # of participants \$100 toilet rebate → 151

City Water Savings

Below is a cumulative savings in water for City projects.



25,000,000 (mgpy)
(total estimate 2003-2014)

Residential Water Reduction Initiative

The City's Green Team conducted an analysis using GIS and Utility Billing to identify households that consumed the top 1%, 5%, and 10% of water usage in the City. The top 1% single family homes were notified via mail and directed to the City's website to become educated on water reduction. Below are some results from this initiative.

- Top 1% (# of accounts) = 58
- Visits to website = 15
- Phone calls with questions = 0



Map available in larger print

Action Steps

Results of each action step under Category 4

Category 4: Water Conservation and Reduction

	ACTION OBJECTIVE	ACTION SUMMARY	PERFORMANCE MEASURE	2010	2011	2012	2013	2014
4.1	Ensure 100% of irrigation in the MainStreet Project Area is from on-site water collection or, if possible, reclaimed water.	Status: <input checked="" type="checkbox"/> In progress Target Date: 2020 Data Sources: Site Plans, Engineering Permits Note: Proposed projects are based on approved site plans.	# of MainStreet projects proposed	3	2	2	3	4
			# of MainStreet projects built	1	2	2	2	2
			# with on-site water collection systems	0	1	1	1	1
			# with reclaimed water	0	0	0	0	0
			% of built projects	0%	50%	50%	50%	50%
4.2	Reduce residential water consumption by 10% by 2012 and by 15% by 2020 through a Residential Water Reduction Initiative.	Status: <input checked="" type="checkbox"/> Achieved / <input checked="" type="checkbox"/> 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) Results vary from year to year based on weather conditions (3) Increases in 2013 due to warmer weather, drier dry season.	# of customer accts targeted high consumption	6,770	6,767	6,762	7,571	7,151
			# of water meters checked for high consumption	1,270	1,111	2,055	2,798	2,541
			annual water consumption increase (residential)	80.30MG	(40.15MG)	(47.45MG)	10.95MG	(14.60MG)
			annual water consumption increase (commercial)	7.3MG	(10.95MG)	0 MG	.06MG	3.65MG
4.3	Increase the availability of reclaimed water throughout the City by 2020.	Status: <input checked="" type="checkbox"/> In progress Target Date: 2020 Data Sources: CIP Utilities & Engineering 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	4	6	2	1	1
			# of reclaimed water	0	2	1	0	0
			# of properties connected	0	0	0	0	0
4.4	Increase water conservation measures in cooperation with other government agencies.	Status: <input checked="" type="checkbox"/> In progress Target Date: 2020 Data Sources: Utilities & Engineering, Code Note: Partnerships are based on SFWMD and Broward County requirements and programs.	# of programs and partnerships	-	-	6	1	0
			# of grants received	-	-	0	0	1
			# of NatureScape Inspections	5	5	8	2	8
4.5	Convert water fixtures within City-owned buildings and facilities to water saving efficient fixtures by 2014.	Status: <input checked="" type="checkbox"/> In progress Target Date: 2014 Data Sources: Public Works Dept. Note: (1) Water savings is annual savings amount based on new city water fixtures.	# of projects planned	3	1	1	3	4
			# of completed projects	3	1	1	1	4
			amount of water saved (estimated gallons)	400,000	400,000	400,000	160,000	200,000

Category 5: Waste Reduction and Recycling

Waste Reduction

Recycling – Zero Waste – Citizen Participation

Community Shred-It Event

The City conducted its first community shredding event in 2011 and held 3 events in 2014. Below are estimated results for the program for 2014.



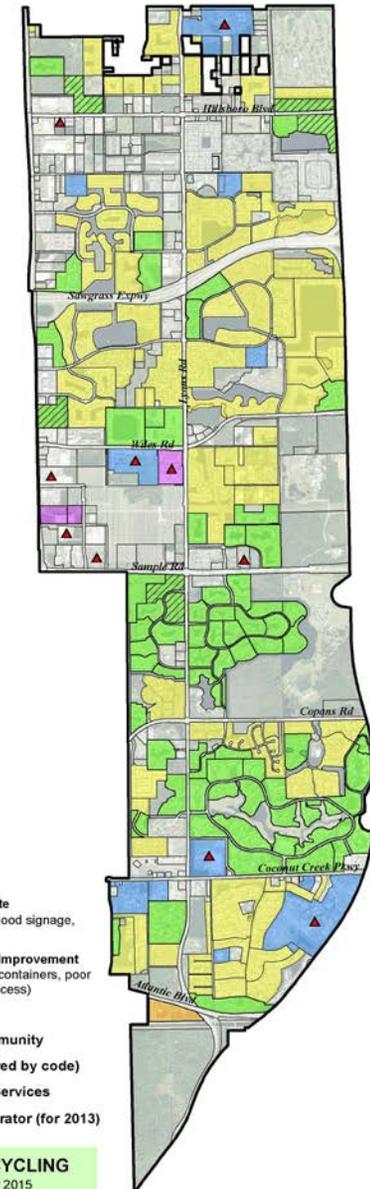
Quick Numbers

Below are quick reference numbers in relation to this category.

- # of actions for Category 5 → 4
- # of actions in progress → 2
- # of participants shred-it events → 491

Recycling Capture Rate Ratio

The City implemented single stream recycling for residential areas in March 2009 by distributing single stream bins to single family neighborhoods then multi-family. There have been significant increases in the annual capture rate ratio since 2009 as shown in this graphic below. In 2014, there was a slight decrease in the annual capture ratio. However, the result is still above the target percentage set for 2016.



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	2010	2011	2012	2013	2014
5.1	Increase recycling throughout the City by 25% by 2014 and 50% by 2020.	Status: <input checked="" type="checkbox"/> In progress Target Date: 2014 / 2020 Data Sources: Public Works Dept. Note: (1) Average capture rate ratio is based on best available data from All Service Refuse (2) Paint recycling program was canceled by Broward County on Oct. 1, 2013	# of single stream recycling containers purchased	809	0	0	1,700	452
			# of single stream recycling containers distributed	8,000	10	175	290	101
			Average capture rate ratio (estimated)	17%	21%	26%	24%	21%
			# of participants in paint recycling program	54	40	65	79	-
5.2	Create a "user-friendly" composting program by 2012 to reduce solid waste disposal.	Status: No Action Taken Target Date: 2020 Data Sources: - Note: Staff is seeking grants to possibly fund a program.	Creation of composting program	-	-	-	-	-
			# of properties using composting	-	-	-	-	-
5.3	Require all construction and demolition debris to divert 75% of waste from landfills.	Status: No Action Taken Target Date: 2020 Data Sources: -	Code revision completed	-	-	-	-	-
			# of demolition permits	-	-	-	-	-
5.4	Create a paper shredding program for the community by 2010.	Status: <input checked="" type="checkbox"/> Achieved Target Date: 2010 Data Sources: Police Dept, City Clerk Note: (1) Program was created in 2011 (2) Program has been continued through the PD and will be monitored yearly., *estimated for 2014	# of participants	-	78	508	474	*491
			lbs. of paper shredded	-	12,285	28,595	41,360	*34,978

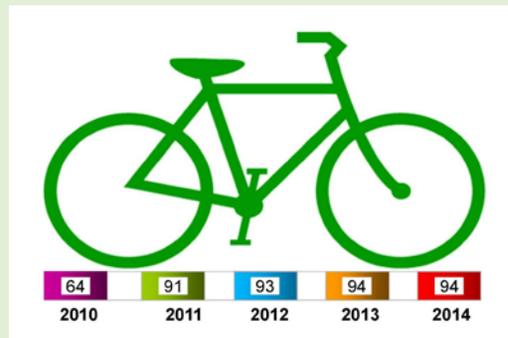
City Shuttle Service

Each year, a total number for ridership is targeted for the shuttle service. Since 2009, the City has exceeded targeted totals with ridership steadily increasing as depicted below.



Bike Racks

In 2014, there were no new bike racks added due to the types of completed construction during the year. The graphic below depicts the increase of bike racks in the City since 2009.



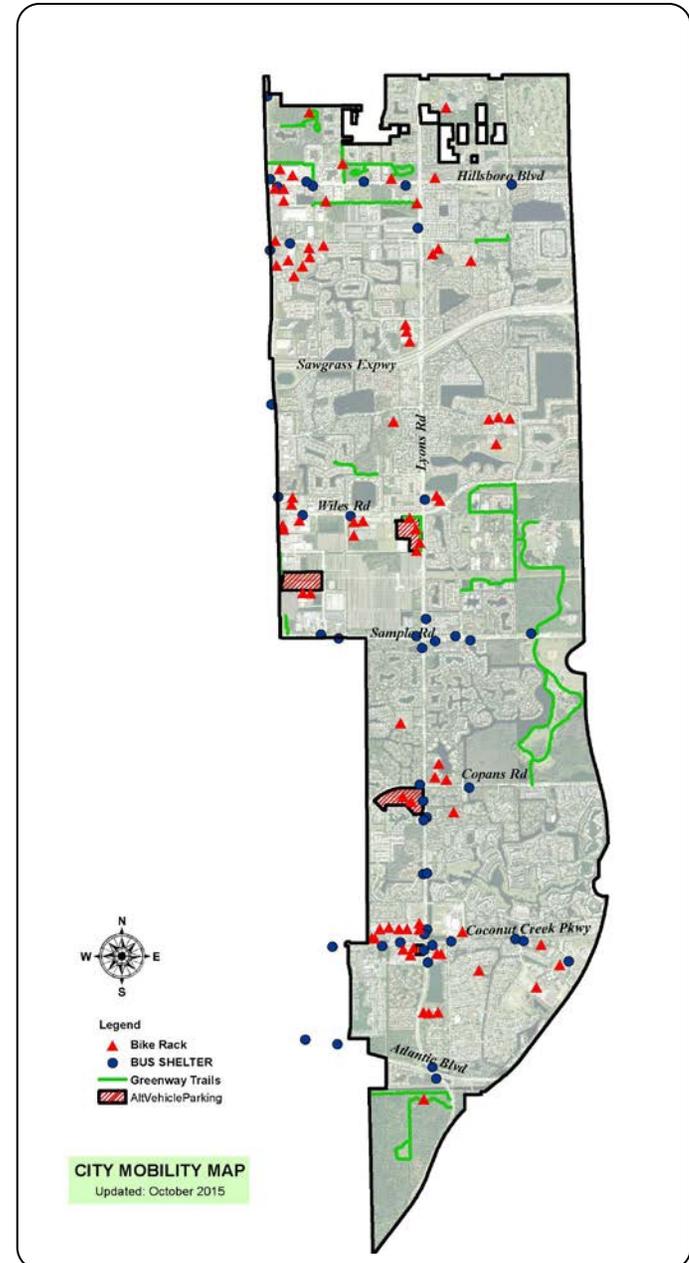
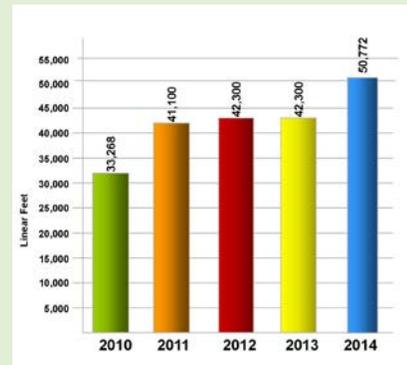
Quick Numbers

Below are quick reference numbers in relation to this category.

- # of actions for Category 6 → 4
- # of actions in progress → 4
- # of new bike racks installed → 0

Trailways Network

The total linear feet of trailways in the City increased from last year. Graphic below depicts the total linear feet.



Action Steps

Results of each action step under Category 6

Category 6: Sustainable Transportation and Mobility

	ACTION OBJECTIVE	ACTION SUMMARY	PERFORMANCE MEASURE	2010	2011	2012	2013	2014
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	3	3	3
			# of meetings with other government agencies/staff	27	17	15	12	13
			# of property owners planning for/participating	2	2	2	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 Works Department Note: (1) Greenway trails include city and county (2) Shelters include city and county (3) Bike racks are in nonresidential areas (4) Linear feet of bike lanes is approximation	# of existing bus shelters (cumulative)	37	37	37	37	42
			# of existing bike racks (cumulative)	64	91	93	94	94
			# of linear feet of existing greenway trails	33,238	41,100	42,300	42,300	50,772
			# of shuttle riders - est. per year	145,409	173,701	161,660	166,944	153,252
			# of linear feet of bike lanes	45,700	45,700	45,700	59,800	59,800
6.3	Implement a bike or car sharing program in the City by 2020.	Status: ✓ In progress Target Date: 2020 Data Sources: Sustainable Development Note: B-Cycle Program is planned but on hold	# of programs existing	0	0	0	0	0
			# of programs planned	1	1	1	1	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: Site Plans, Permit Note: Program is being implemented through site plan approval process	# of parking spaces existing	63	188	188	192	193
			# of spaces planned	125	4	6	18	23

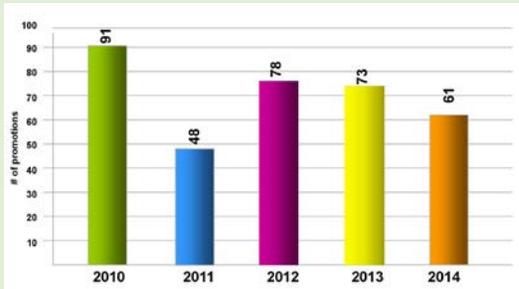
Category 7: Community Outreach and Empowerment

Multiple Themes

Energy – Water – Waste Reduction – Climate Change

Promotion of City Green Plan

Since adoption of the plan in 2009, there have been numerous promotions related to green plan programs, initiatives, and actions. Below is the total number of promotions by year.



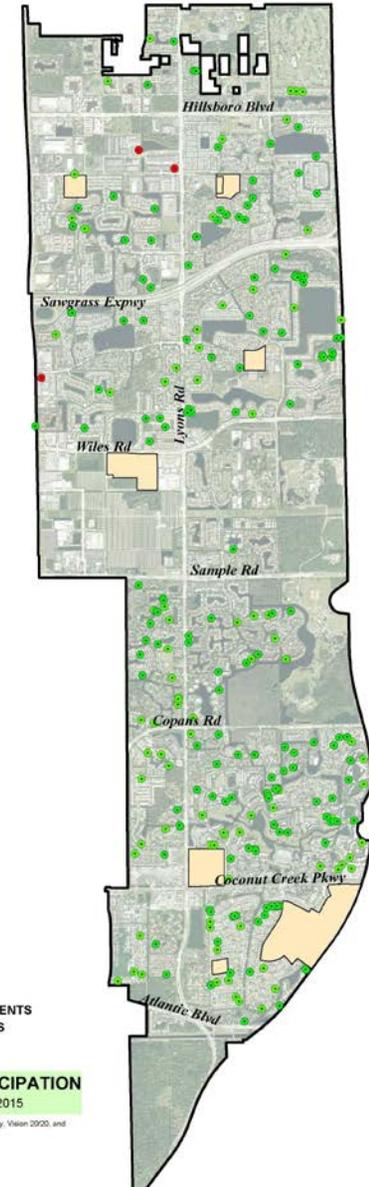
Quick Numbers

Below are quick reference numbers in relation to this category.

- # of actions for Category 7 → 6
- # of actions in progress → 3
- # of attendees at citizen's academy → 28
- # of attendees at green events → 6,000

Community Participation by Commission District

Community participation includes residents that have participated in Citizen's Academy, Vision 20/20, and volunteerism. Below is a graphic that illustrates community participation by City Commission district since plan adoption in 2009.



COMMUNITY PARTICIPATION
UPDATED: October 2015

NOTE: Participation based on Citizen's Academy, Vision 20/20, and volunteerism since 2009.

Map available in larger print

Action Steps

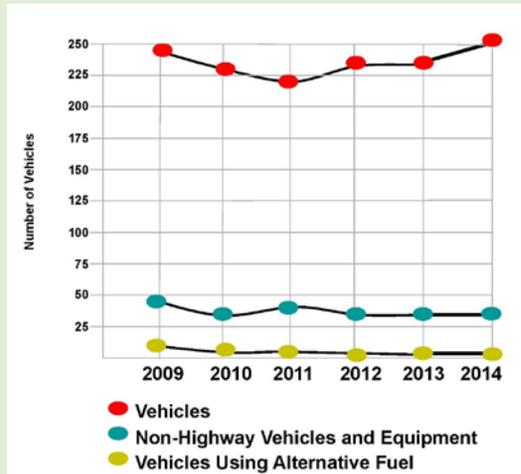
Results of each action step under Category 7

Category 7: Community Outreach and Empowerment

	ACTION OBJECTIVE	ACTION SUMMARY	PERFORMANCE MEASURE	2010	2011	2012	2013	2014
7.1	Proclaim a City Green Day with the first City Green Day to be held in 2010.	Status: <input checked="" type="checkbox"/> Achieved Target Date: 2010 Data Sources: City Clerk, Commission Meeting Note: (1) Proclamation declared April 22-28, 2012 as City Green Week (2) Events included Arbor Day, Tree Planting Ceremony, Shred-It Event, and CocoFest (3) Action completed but will continue to be monitored.	Proclamation date	11/18/10	-	4/12/12	4/11/13	4/25/14
			# of events that support proclamation	2	2	4	3	5
			# of participants at events (approx.)	3,000	1,250	2,250	3,600	6000
7.2	Implement a City Green Award program to recognize homeowners, neighborhoods, and businesses that incorporate green and sustainable practices.	Status: No Action Taken Target Date: 2020 Data Sources: -	# 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: <input checked="" type="checkbox"/> In progress Target Date: 2020 Data Sources: Sign-in Sheets, Surveys Note: A home garden lecture series was held in 2013.	# scheduled lectures	5	-	-	4	3
			# of attendees (total)	100	-	-	68	150
			% satisfaction rate (based on surveys)	90.6%	-	-	94%	92%
7.4	Seek Florida Green Building Coalition (FGBC) Local Government Designation by 2012.	Status: <input checked="" type="checkbox"/> In progress Target Date: 2012 Data Sources: Sustainable Development Note: Application in process.	Application submitted	-	-	-	3/14/13	-
			Certification received	-	-	-	-	-
7.5	Launch a community-wide outreach campaign on the City Green Plan with continuous program promotion.	Status: <input checked="" type="checkbox"/> In progress Target Date: 2020 Data Sources: Community Relations Note: Total for each measure includes any public outreach related to Green Plan actions, programs, or initiatives.	# of press releases	4	3	4	2	5
			# of website promotions	26	20	11	10	7
			# of green productions on CreekTV	10	4	5	3	3
			# of articles and ads in Creeklife	33	11	9	9	23
			# of banners	18	10	49	49	23
7.6	Create a City Sustainable Center on City owned property by 2014.	Status: No Action Taken Target Date: 2014 Data Sources: -	# of city properties available	-	-	-	-	-
			# of properties appropriate for center	-	-	-	-	-
			# of planned programs	-	-	-	-	-
			# of partnerships/sponsors	-	-	-	-	-

Vehicles

Each year, the number of vehicles that utilized fuel is provided in the annual report. Below is a graphic that depicts the number of vehicles used each year since 2009, including non-highway vehicles, and a comparison on the number that is using alternative fuels.



Quick Numbers

Below are quick reference numbers in relation to this category.

- # of actions for Category 8 → 9
- # of actions achieved → 2
- # of actions in progress → 5
- # of City LEED® certified buildings → 1

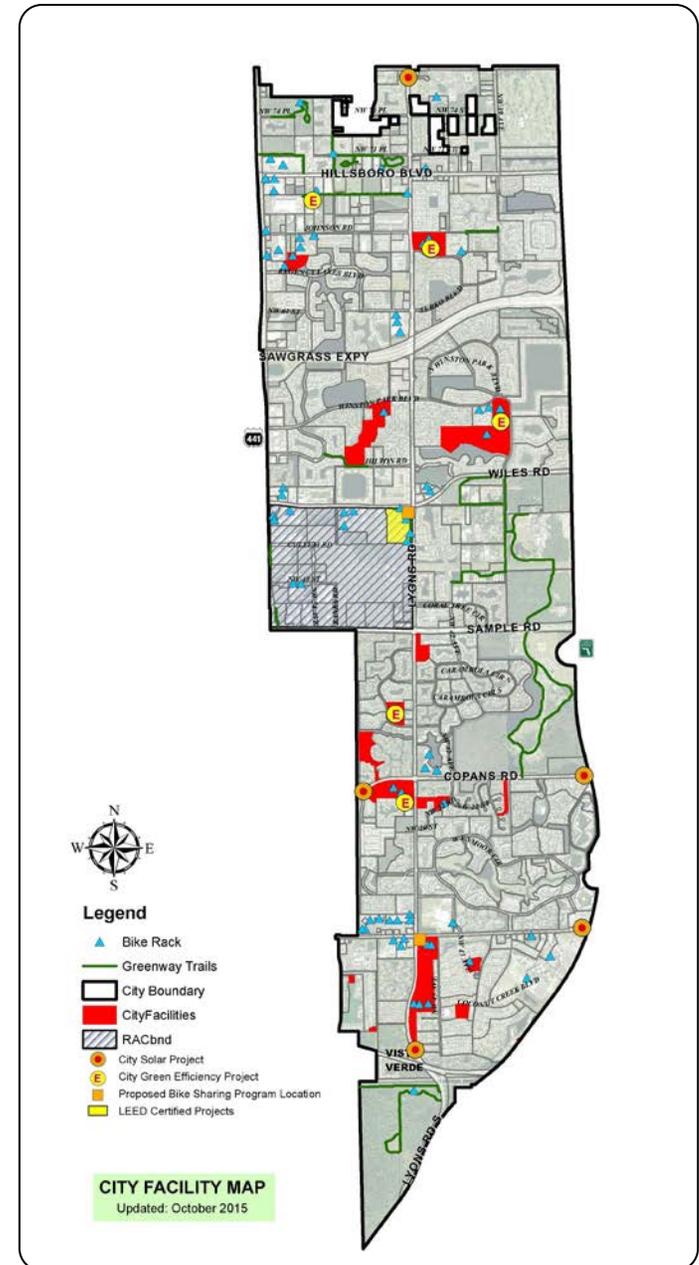
Fuel Consumption

Below is a graphic that depicts the gallons of fuel used each year since 2009.



Idle Time

The City does not have a formal written policy, but vehicles are equipped with GPS and a 10 minute idle limit is in effect with automatic email notification after that time limit. Below depicts idle time since 2009.



Action Steps

Results of each action step under Category 8

ACTION OBJECTIVE		ACTION SUMMARY	PERFORMANCE MEASURE	2010	2011	2012	2013	2014
8.1	Improve indoor air quality in all city buildings by 2020.	Status: ✓ In progress Target Date: 2020 Data Sources: Public Works Dept.	# of indoor air quality inspections	-	-	-	1	3
			# of indoor air improvements/cleaning projects	-	-	-	0	1
			# of fake plants removed from buildings	-	-	-	27	20
8.2	Advance emission controls on all City fleet vehicles to reduce emission by 50% by 2020.	Status: No Action Taken Target Date: 2020 Data Sources: - Note: Since adoption of plan, focus has been on vehicles replacement rather than retrofitting older fleet vehicles	# 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 Works Dept. Note: Solar power projects are listed as individual projects that may be under an overall program (e.g. solar lighting for city identity signs)	# of solar power projects	0	0	0	0	0
			# of projects/programs (other renewable)	0	0	0	0	0
			% of city owned buildings using renewable energy	0%	0%	0%	0%	0
			% of building usage from renewable energy source	0%	0%	0%	0%	0
8.4	Reduce overall energy consumption on City owned sites by 20%.	Status: ✓ In progress Target Date: 2020 Data Sources: Public Works and IT Depts. Note: (1) # of solar power projects/programs is the same data from Action 8.3 (2) Public Works building earned LEED certification in December 2013.	# of initiatives from IT city-wide technology system energy consumption	1	0	0	0	1
			# of solar power projects/programs	0	0	0	0	0
			# of energy efficiency projects (lighting and HVAC)	1	2	1	0	0
			# of city buildings certified as LEED®	0	0	0	1	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: (1) E-gov solutions include internal and external online efforts (2) Copy machines print jobs and on-glass copies, * estimated for 2014	# of E-gov solutions (e.g. online billing)	1	0	2	2	2
			# of pages printed city-wide	614,062	750,756	709,721	897,173	*742,928
			# of pages produced by city-wide copy machines	-	813,087	922,654	932,402	*889,381
			City-wide copy paper expense	\$6,976.83	\$9,144.96	\$9,176.83	\$8,350.83	*\$8,412.36
8.6	Create a Sustainable City Coordinator position by 2010.	Status: ✓ Achieved	Approved as part FY 2010 budget	-	-	-	-	-
8.7	Create a City Green Team by 2010 with a representative from each department.	Status: ✓ Achieved	Green Team formed	-	-	-	-	-
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: ✓ Achieved / ✓ In progress Target Date: 2012 / 2020 Data Sources: ICLEI – CACP Software	GHG missions (tonnes of CO ₂ e)	-	-	6,246	-	-
			% of reduction achieved	-	-	11%	-	-
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 2013 (2) Only fleet vehicles that consumed fuel for CY 2013 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)	236	224	236	233	256
			# of non-highway & equipment (CY fuel use)	30	34	40	40	44
			% of fleet using alternative fuels	1.5%	.75%	0.1%	0.74%	.70
			Gallons of fuel consumed (total of all fuels)	180,013	181,341	175,701	177,432	185,750
			Idle time for vehicles (hours)	48,461	49,384	76,766	47,124	43,914

Category 9: Regional Leadership

Climate Change

Carbon Reduction— Regional Leadership – Environmental

Southeast Florida Regional Climate Change Compact – Leadership Summit

In 2009, elected officials from Broward, Miami-Dade, Monroe, and Palm Beach Counties adopted a joint compact in addressing and adapting for climate change in an effort to partner and develop strategies in addressing impacts from climate change on the Southeast Florida region. Each year since 2009, there has been a leadership summit to discuss issues and potential funding regarding impacts. The 5th annual summit was held at the Broward Convention Center with over 350 participants. Coconut Creek Commissioners and staff attended the conference to demonstrate our commitment to regional participation and leadership regarding climate change.

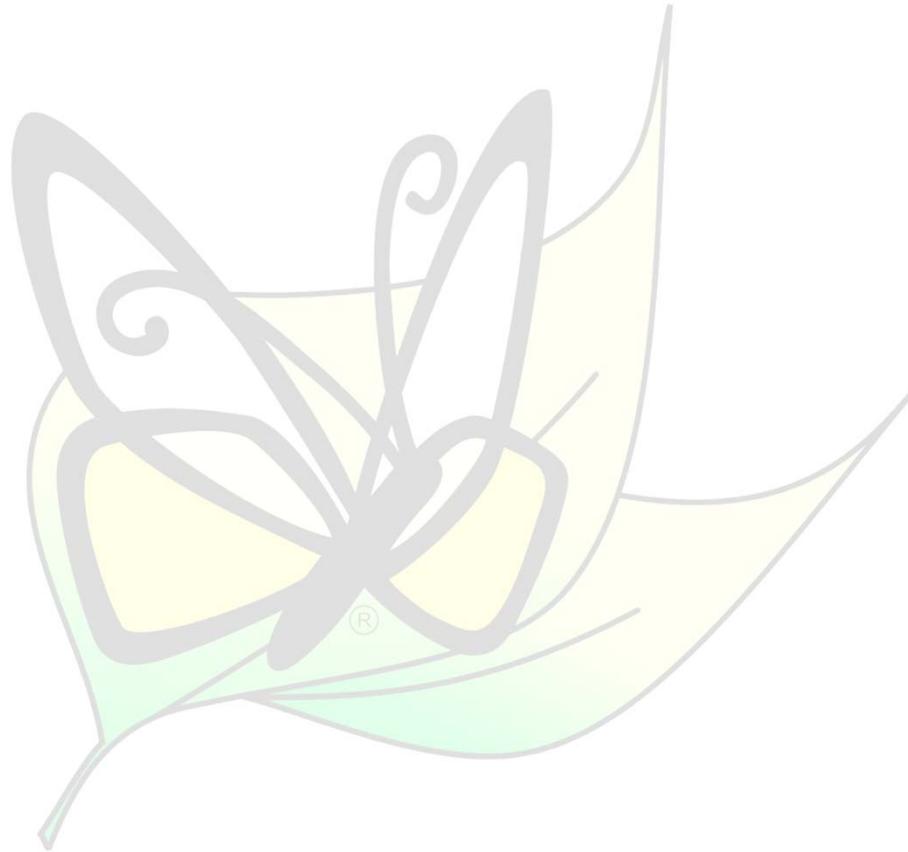
Quick Numbers

Below are quick reference numbers in relation to this category.

- # of actions for Category 9 → 6
- # of actions in progress → 3
- # of high ranked actions in County Plan → 65
- # of members County Climate Task Force → 31



ACTION OBJECTIVE		ACTION SUMMARY	PERFORMANCE MEASURE	2010	2011	2012	2013	2014
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	0	0	4	2	11
			# of public meetings attended by staff	12	0	3	4	0
9.2	Lead the effort to close the Waste Management Landfill.	Status: <input checked="" type="checkbox"/> Achieved Target Date: 2020 Data Sources: Outlook Calendars <i>Note: This action is considered achieved with legal resolution on limiting expansion.</i>	# of city lead efforts	5	3	3	-	-
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: No Action Taken 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: No Action Taken Target Date: 2020 Data Sources: -	# of partnerships	-	-	-	-	-
			# of programs	-	-	-	-	-
			# of events	-	-	-	-	-
9.5	Lead the effort to eliminate the garbage waste being deposited in the landfill.	Status: ✓ In progress Target Date: 2020 Data Sources: City Manager's Office	# of public meetings	-	3	3	0	0
			# of action efforts	-	1	1	1	0
9.6	Create a new local business tax structure by 2012, which can become a regional model, based on a sustainable business practices.	Status: ✓ In progress Target Date: 2012 Data Sources: - <i>Note: Staff evaluating legislative impacts.</i>	# of businesses participating in pilot program	-	-	-	-	-
			# of businesses in City	-	-	-	-	-
			# of public meetings held	-	-	-	-	-



Completion date of report: October 2015
Environmental Advisory Board meeting: November 17, 2015

FOR COMMENTS OR QUESTIONS REGARDING THIS REPORT CONTACT:

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