

CITY GREEN PLAN REPORT

2012



**COCONUT
CREEK**

“BUTTERFLY CAPITAL OF THE WORLD”

“Creating a Culture of Green Excellence”

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 2012 calendar year.

Collaborative Effort

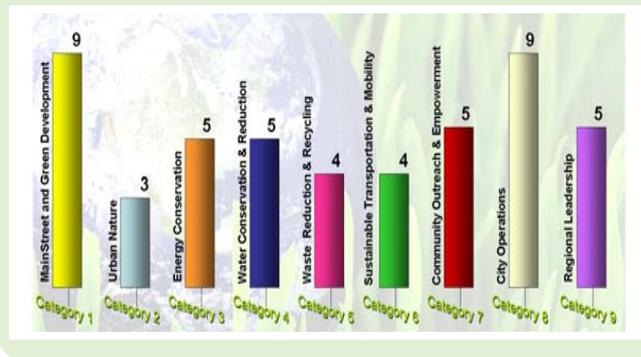
The *City Green Team* consists of members from all departments working together to track the progress of the plan. The team identified valuable data under each category and specified indicators for measuring each action step. Without this collaborative effort, this report would not be possible.

- Jim Hetzel, Sharon Vollmer, and Sean Flanagan - Sustainable Development
- Christina Semeraro and Elise Adler-Hogan - Finance and Administrative Services
- Lou Italicco and Mike Heimbach - Public Works
- Randall Blanchette – Utilities and Engineering
- Yvonne Lopez - City Manager's Office
- Janice Ninesling - City Clerk Department
- Jenny Deng - Human Resources
- Ken Brown - Information Technology
- Danielle DeBarros - Parks and Recreation
- Edwin Almanzar - Police Department

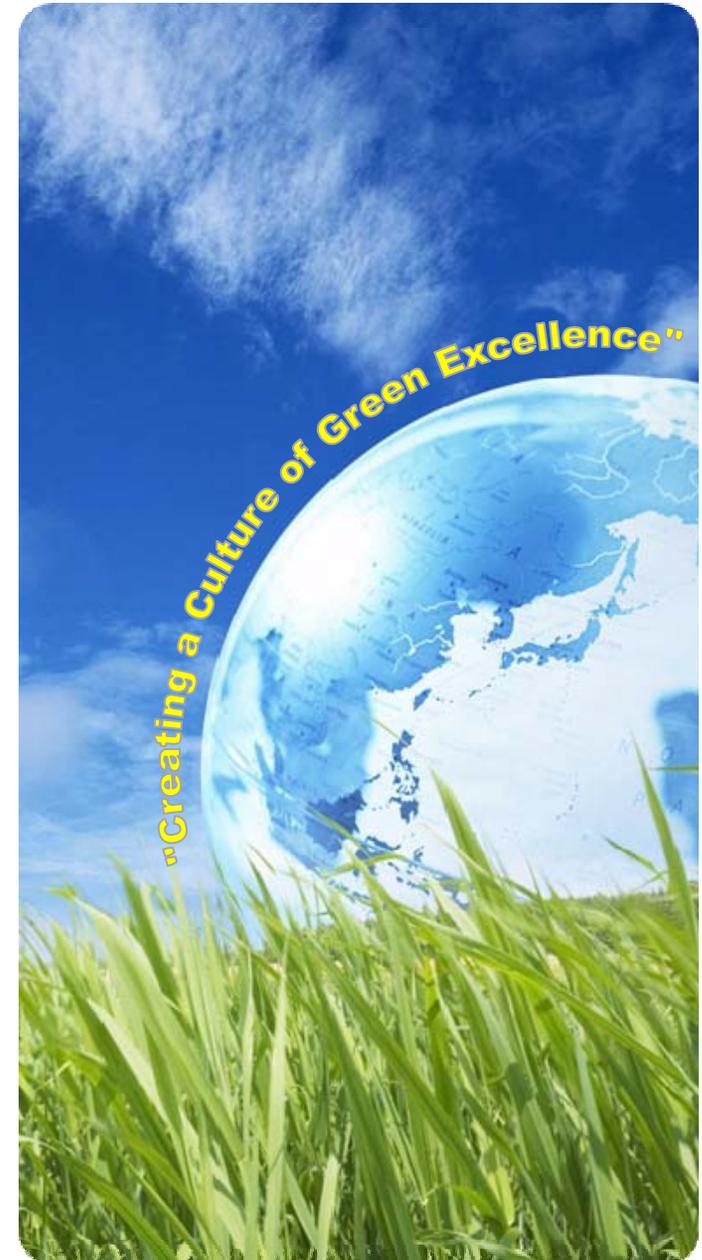
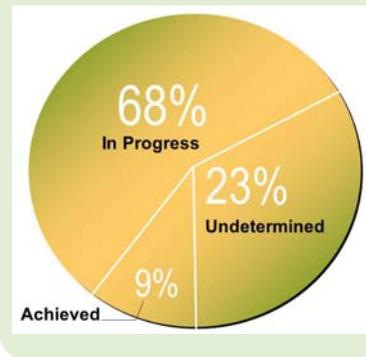
Implementation

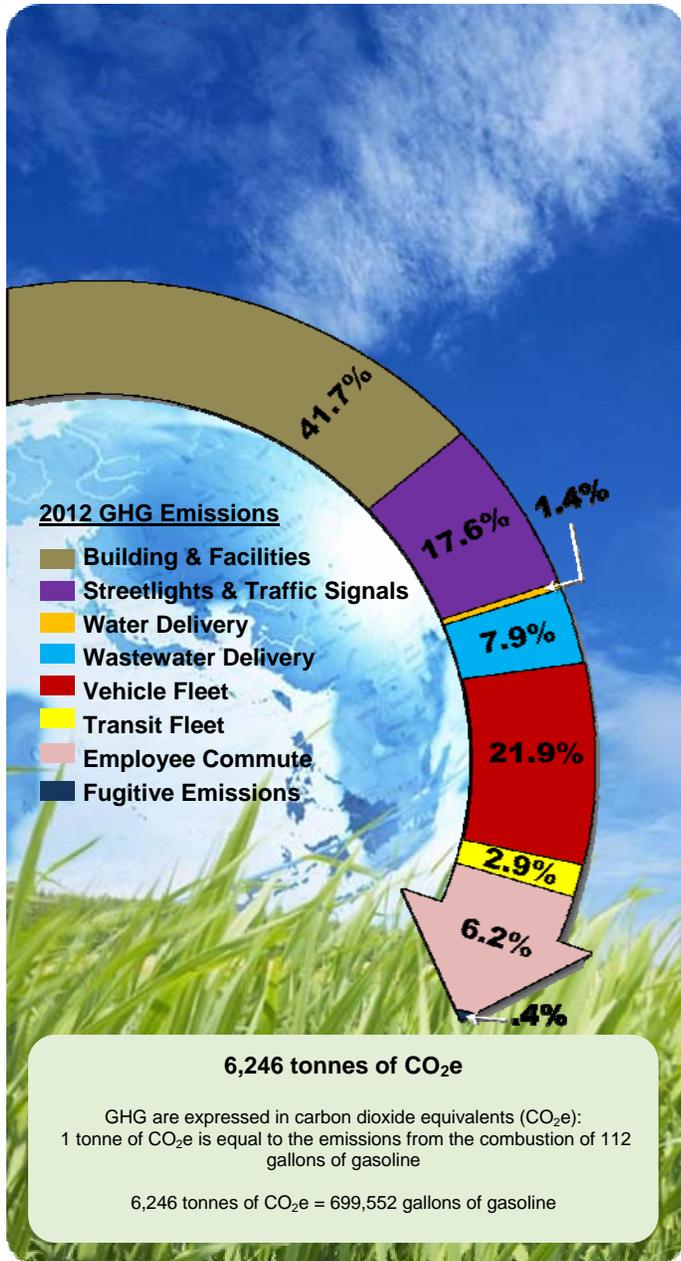
The City Green Plan was adopted with 51 action steps under 9 categories. The majority of action steps relate to Category 1: MainStreet and Green Development, and Category 2: City Operations. In 2012, there were 35 action steps in progress, which represents 68% of all action, and 12 action steps undetermined, representing 23%. There are 4 action steps achieved, representing 9% of all action.

Number of Actions by Category



Number of Actions by Category





GHG Emission Inventory

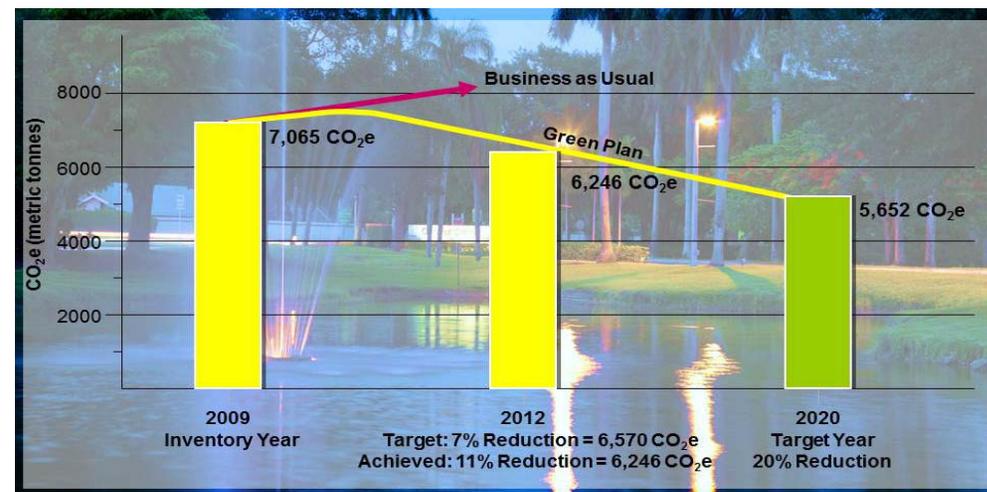
In 2009, the City conducted a greenhouse gas (GHG) emission inventory for municipal operations as part of the adoption of the City Green Plan. GHG emissions were analyzed using the LCLEI - Local Governments for Sustainability methodology and ICLEI's Clean Air Climate Protection software (CACP). CACP is a comprehensive emissions software program that calculates GHG emissions and air pollutants, and is a quantification tool for tracking emissions by using a baseline year, interim year(s), and a target year. The City's baseline year was 2009 and consistent with Action 8.8, reduction targets are identified for 2012 and 2020.

The City's GHG emissions inventory was conducted based on municipal energy use and fuel use. All direct emissions, emissions from purchased electricity, and other indirect emissions were reflected in the baseline year totals. Consistent with Action 8.8, the City gathered data from municipal operations for 2012 to determine if the reductions have been achieved. The overall reduction target for 2012 was 7% from the baseline year and an overall 11% reduction target was achieved. Detailed information is depicted in the graphics below including results for each municipal sector.

Comparison Chart

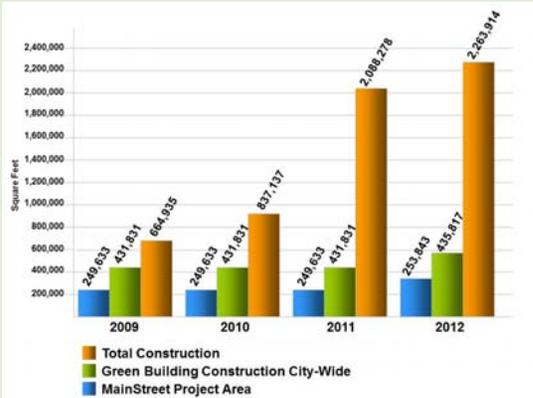
	2009	2012		2009	2012		
Buildings & Facilities	38.4%	41.7%	↑	Vehicle Fleet	23.3%	21.9%	↓
Streetlights & Traffic Signals	16.6%	17.6%	↑	Transit Fleet	3.0%	2.9%	↓
Water Delivery	2.4%	1.4%	↓	Employee Commute	5.8%	6.2%	↑
Wastewater Delivery	9.0%	7.9%	↓	Fugitive Emissions	1.5%	0.4%	↓

GHG Emissions and Reduction Targets



Green Building Growth

There was a slight increase in total construction for 2012 due to the completion of the several multi-family residential buildings. Green building construction and MainStreet Area totals were also slightly adjusted to reflect the completion of several smaller commercial projects including PNC Bank, Mercedes of Coconut Creek, and Infiniti.



Green Building by Area

Of the green building construction, the majority remains in the MainStreet Project Area. However, there was the completion of one project outside the MainStreet Project Area. Results are shown below.



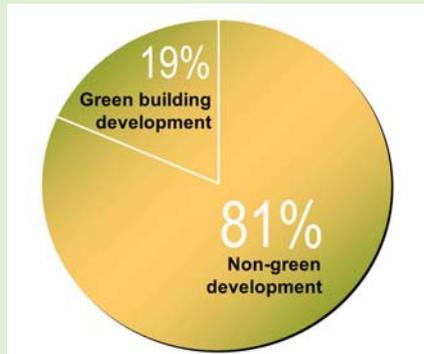
Quick Numbers

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 → 13
- # of LEED® certified buildings → 14

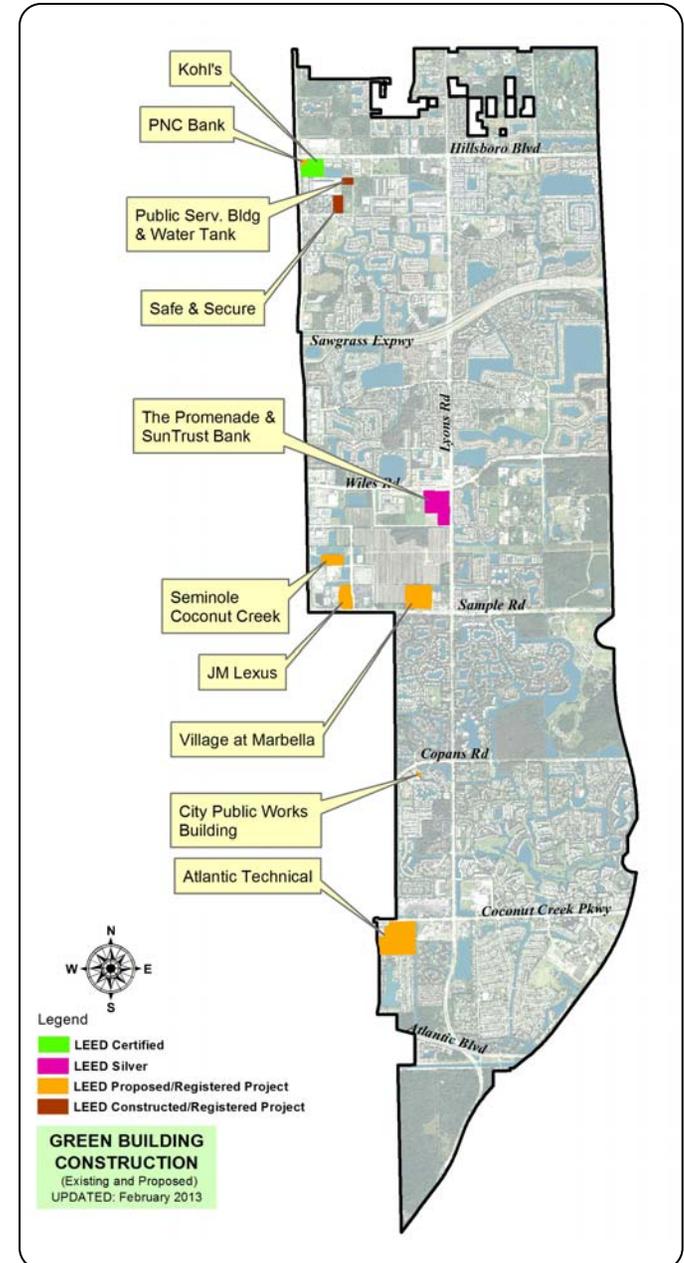
Total Construction

The percentage of green building construction has changed slightly from the previous year.



Certification Levels

Of the green construction projects, three have received LEED® certification. Below are the certification levels to date.



Action Steps

Results of each action step under Category 1

Category 1: MainStreet and Green Development

ACTION OBJECTIVE		ACTION SUMMARY	PERFORMANCE MEASURE	2009	2010	2011	2012
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	1	2
			# of buildings seeking certification	12	0	0	0
			# of buildings certified (cumulative)	0	14	14	14
			% certified as Silver, Gold, or Platinum	0%	100%	93%	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	# of buildings constructed (based on issued COs)	7	11	7	6
			# of buildings seeking certification	2	0	0	1
			# of buildings certified (cumulative)	1	1	1	1
			% certified	14%	5%	4%	3%
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 is in process of constructing a new Public Works Administration Building aiming for LEED® Silver	# of city projects proposed	0	1	1	1
			# of projects constructed (based on issued COs)	1	0	0	0
			# of buildings seeking certification	0	0	1	1
			# certified (cumulative)	0	0	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.	# of retrofitted buildings	4	3	2	0
			# of retrofitted buildings seeking certification	0	0	0	0
			# certified	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	2	3	7	8
			# of green tech/art displays proposed (cumulative)	2	3	3	4
			# of green tech/art displays constructed	0	0	0	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: ? Undetermined Target Date: 2020 Data Sources: -	# of school properties in MainStreet Area	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	2	4	4
			# of projects higher density/mixed-use (cumulative)	1	1	3	3
			% of projects support action	50%	50%	75%	75%

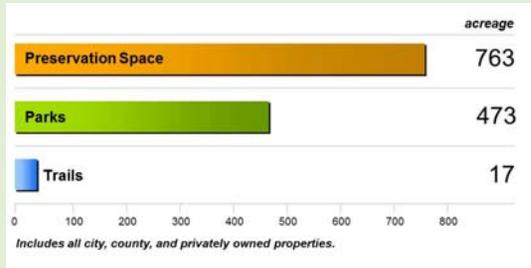
Category 2: Urban Nature

Urban Nature

Parks – Habitats – Wildlife

Park and Green Space

Park acreage and trails have remained the same since 2009. There was a slight increase in preservation space based on land within a residential project being restricted for preservation space resulting in an increase of 1 additional acre.



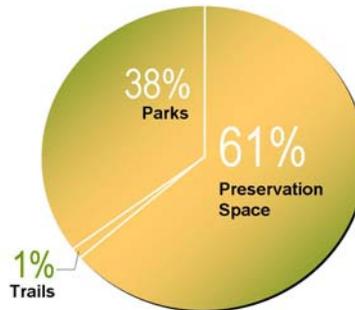
Quick Numbers

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 → 3

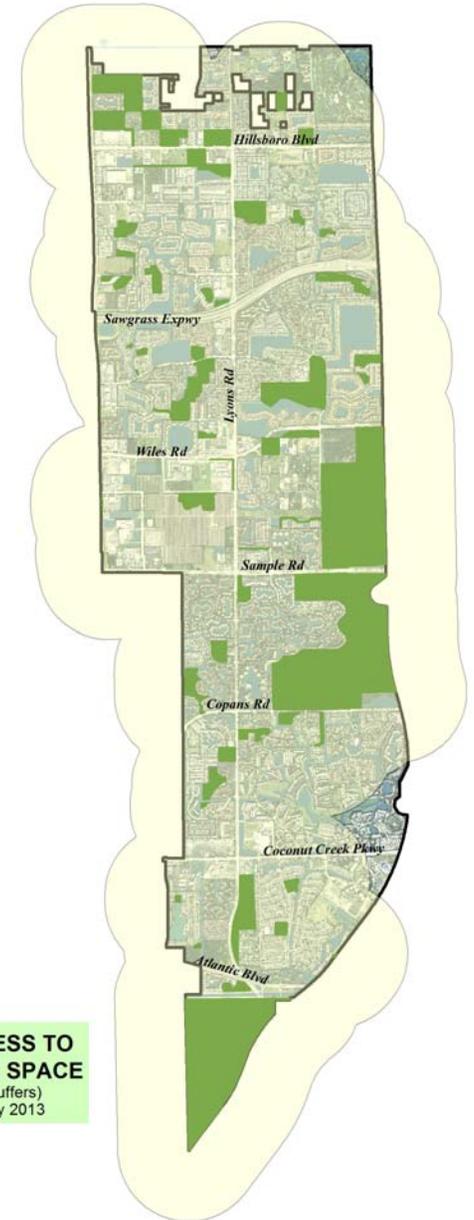
Percentage of Green Space

The percentage of green space has remained the relatively the same since 2009. As the City's greenway network expands, there will be small changes in percentage totals.



Tree Canopy Coverage

Tree canopy coverage has increased slightly based on trees planted in City land and totals provided to residents at the annual free tree giveaway. Tree canopy coverage is an estimated total.



RESIDENT ACCESS TO PARKS & GREEN SPACE
(1/2 mile proximity buffers)
UPDATED: February 2013

97.9% within 1/2 mile
2.1% not covered

Map available in larger print

Action Steps

Results of each action step under Category 2

	ACTION OBJECTIVE	ACTION SUMMARY	PERFORMANCE MEASURE	2009	2010	2011	2012
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	700
			# of trees - city inventory (cumulative)	6,319	6,379	6,977	7,804
			# landscaping awards	0	2	0	0
			# acres of natural conservation areas (cumulative)	762	762	762	763
			% estimated in tree canopy coverage	21%	21%	22%	28%
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 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
			# of recreational parks (cumulative)	6	6	6	6
			# of open space/preserve areas (cumulative)	29	29	29	30
			# of greenways trails (cumulative)	6	11	11	11
			% of city area within ½ mile of all of the above	97%	97%	98%	98%

Go SOLAR Program

Broward County was awarded a grant from the Department of Energy in December 2011 to streamline permitting for installation of solar photovoltaic systems. The City was a partner in the grant and provided staff in-kind services throughout the year in 2012. Below depicts staff time and value for participating in this program.

In-Kind Services: City Staff

- ✓ Sheila Rose
- ✓ Jim Hetzel
- ✓ Marianne Bowers
- ✓ Yvonne Lopez
- ✓ Jack Boone
- ✓ Sean Flanagan
- ✓ Kevin Donovan

In-Kind Services: Value

 \$11,240

In-Kind Services: Hours:

169hrs 

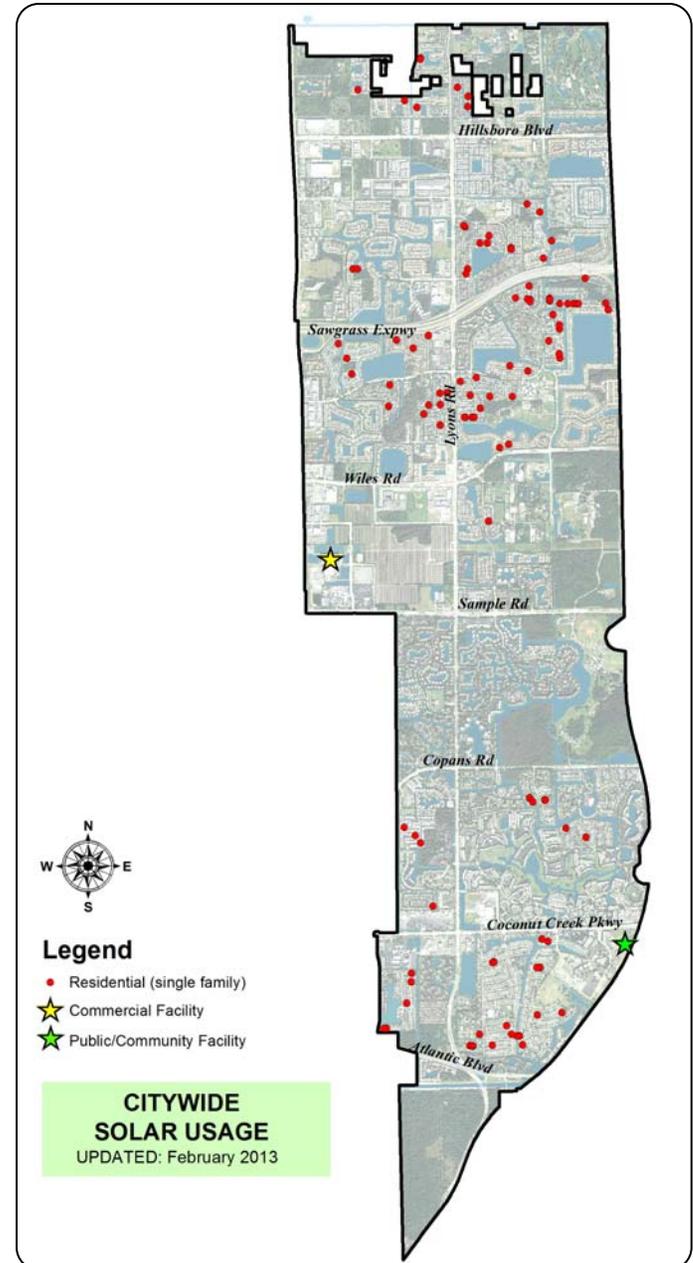
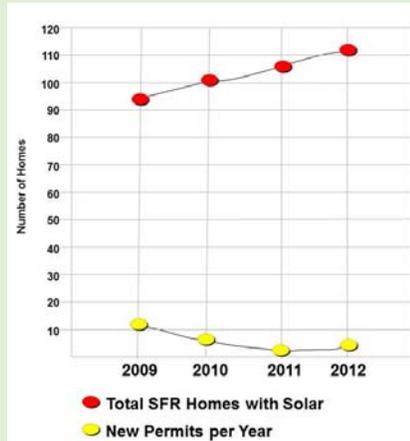
Quick Numbers

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 → 113

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.



Map available in larger print

Action Steps

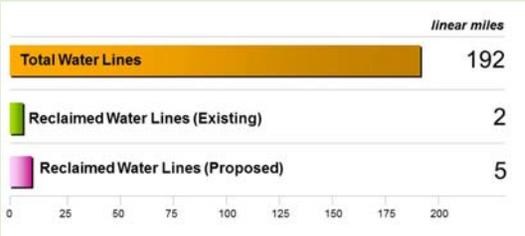
Results of each action step under Category 3

ACTION OBJECTIVE		ACTION SUMMARY	PERFORMANCE MEASURE	2009	2010	2011	2012
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, 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	108	113
			# of permits issued per year	11	8	4	5
			% of homes	0.4%	0.4%	0.4%	0.5%
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: ✓ 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 grants applied for	-	-	-	5
			# of applied grants for energy	-	-	-	1
			% of grants toward renewable/efficient energy projects	-	-	-	20%
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	7	3
			# of grants received - awarded	5	4	4	0
			# of grants for energy	1	0	0	0
			% of grants for energy	20%	0%	0%	0%
			\$ amount of energy grants awarded	\$425,400	0	0	0

Category 4: Water Conservation and Reduction

Reclaimed Water

With the assistance from the South Florida Water Management District & 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.



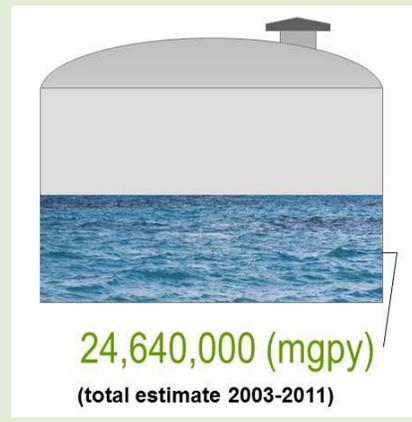
Quick Numbers

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 → 192
- # of participants free showerhead → 107
- # of participants \$100 toilet rebate → 50

City Water Savings

Below is a cumulative savings in water for City projects.

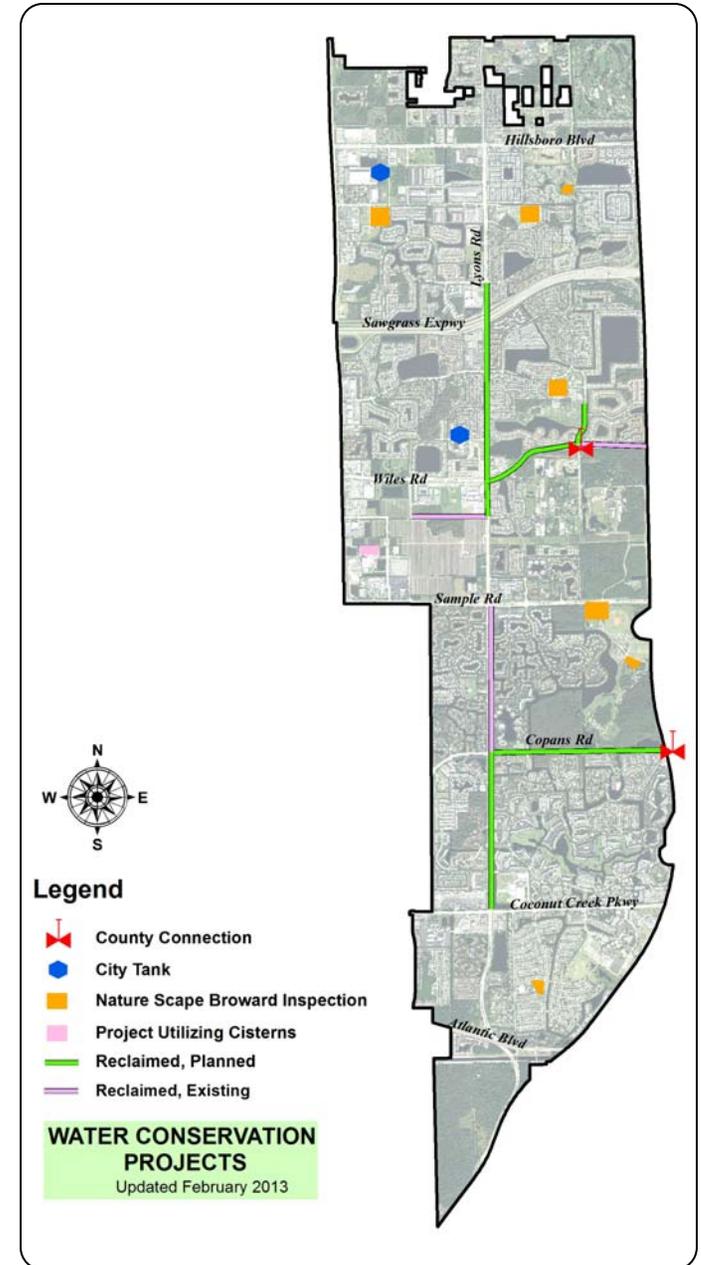


Water Consumption Analysis

Below is an analysis for water consumption by month for 2012.

Month	Residential	Commercial	Total
January	114,540	16,540	131,080
February	113,700	15,068	128,768
March	107,030	16,499	123,529
April	111,641	16,355	127,996
May	98,837	15,858	114,695
June	103,127	15,965	119,092
July	98,538	16,380	114,918
August	99,789	15,514	115,303
September	103,803	18,214	122,017
October	86,292	14,513	100,805
November	106,870	17,967	124,837
December	107,922	16,717	124,639
Monthly Average	104,341	16,299	120,640
Total Avg Daily Consumption (MG)			4.02
Avg # Customers - Residential			10,714
Avg # Customers - Commercial			734
Avg Daily Consumption-Residential (MG)			3.48
Avg Daily Consumption-Commercial (MG)			0.54
Avg Annual Consumption - Residential (MG)			1,270.20
Avg Annual Consumption - Commercial (MG)			197.10

*Numbers are per 1000 gals



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	2009	2010	2011	2012
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	2	3	2	2
			# of MainStreet projects built	1	1	2	2
			# with on-site water collection systems	0	0	1	1
			# with reclaimed water	0	0	0	0
			% of built projects	0%	0%	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) No increase or decrease for commercial consumption in CY12.	# of customer accts targeted high consumption	6,557	6,770	6,767	6,762
			# of water meters checked for high consumption	1,088	1,270	1,111	2,055
			annual water consumption increase (residential)	25.55MG	80.30 MG	(40.15MG)	(47.45MG)
			annual water consumption increase (commercial)	7.3MG	7.3 MG	(10.95MG)	0 MG
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, 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	6	2
			# of reclaimed water	2	0	2	1
			# of properties connected	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
			# of grants received	-	-	-	0
			# of NatureScape Inspections	0	5	5	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 Services Dept. Note: (1) City has ten waterless urinals (2) Water savings is annual savings amount.	# of projects planned	1	3	1	1
			# of completed projects	2	3	1	1
			amount of water saved (estimated gallons)	0	400,000	400,000	400,000

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 2012. Below are cumulative results for the program.



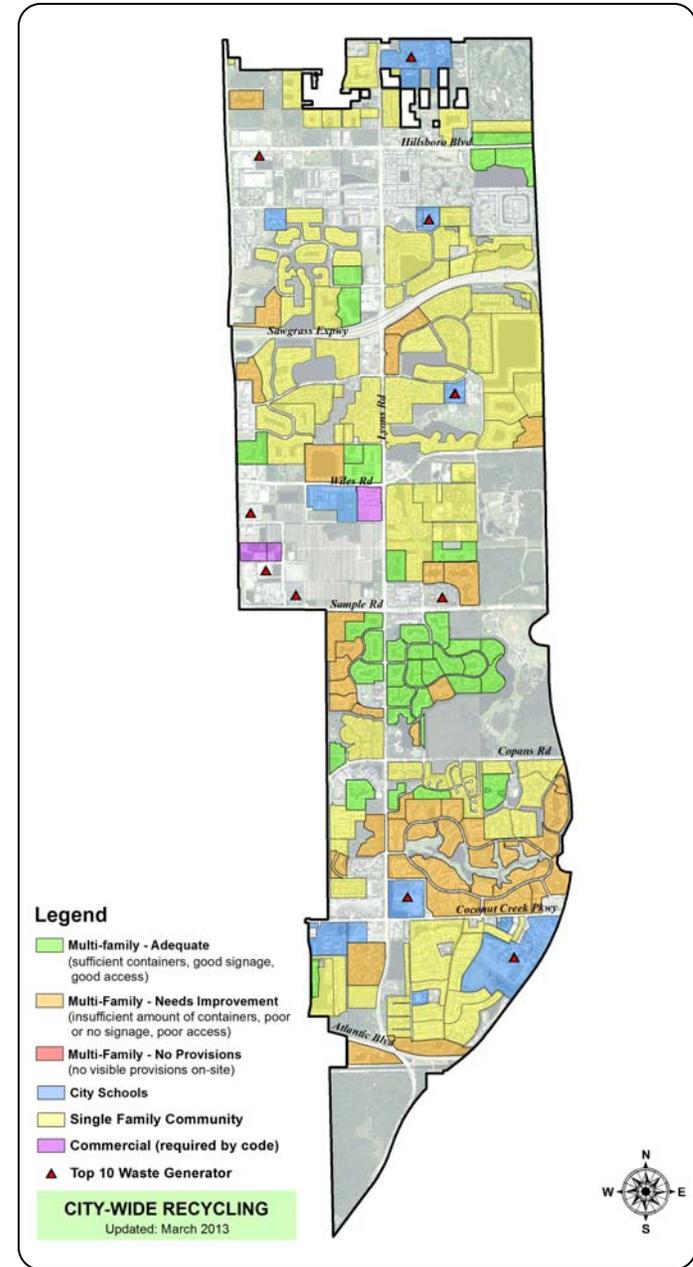
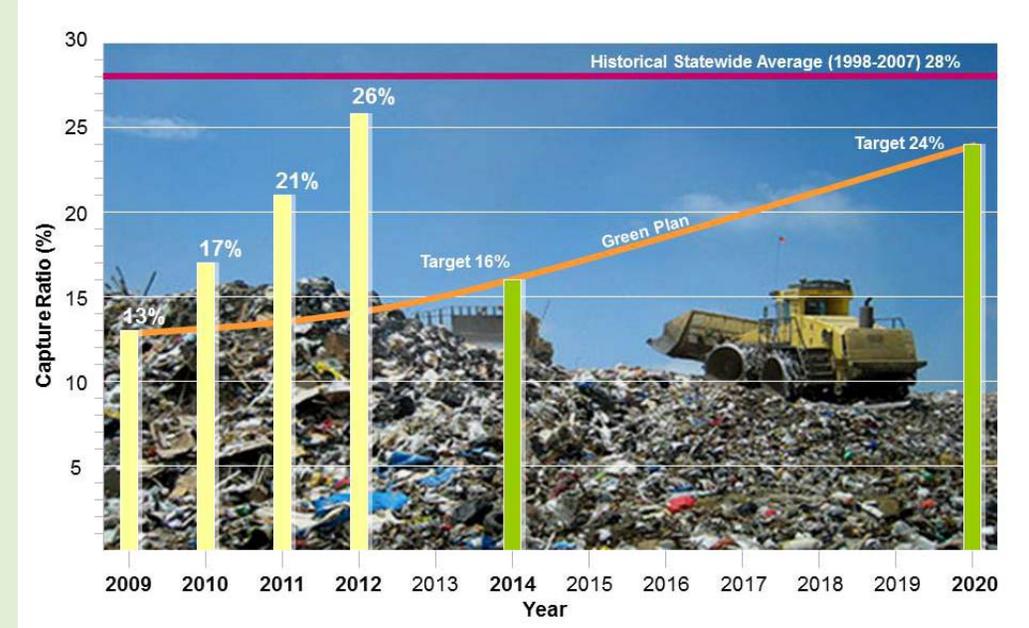
Quick Numbers

Below are quick reference numbers in relation to this category.

- # of actions for Category 5 → 4
- # of actions in progress → 2
- # of participants paint program → 65
- # of participants shred-it events → 508

Recycling Capture Rate Ratio

The City implemented single stream recycling for residential areas in March 2009 by distributing 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.



Action Steps

Results of each action step under Category 5

Category 5: Waste Reduction and Recycling

	ACTION OBJECTIVE	ACTION SUMMARY	PERFORMANCE MEASURE	2009	2010	2011	2012
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: Average capture rate ratio is based on best available data from All Service Refuse.	# of single stream recycling containers purchased	8,000	809	0	0
			# of single stream recycling containers distributed	0	8,000	10	175
			Average capture rate ratio (estimated)	13%	17%	21%	26%
			# of participants in paint recycling program	67	54	40	65
5.2	Create a "user-friendly" composting program by 2012 to reduce solid waste disposal.	Status: <input type="checkbox"/> 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: <input type="checkbox"/> Undetermined 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.	# of participants	-	-	78	508
			lbs. of paper shredded	-	-	12,285	28,595

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.



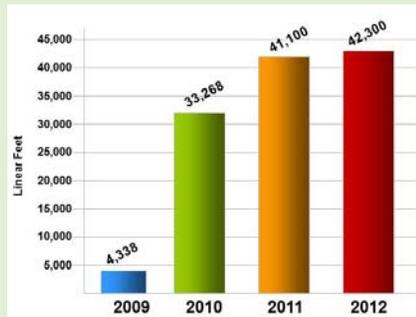
Quick Numbers

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 → 2

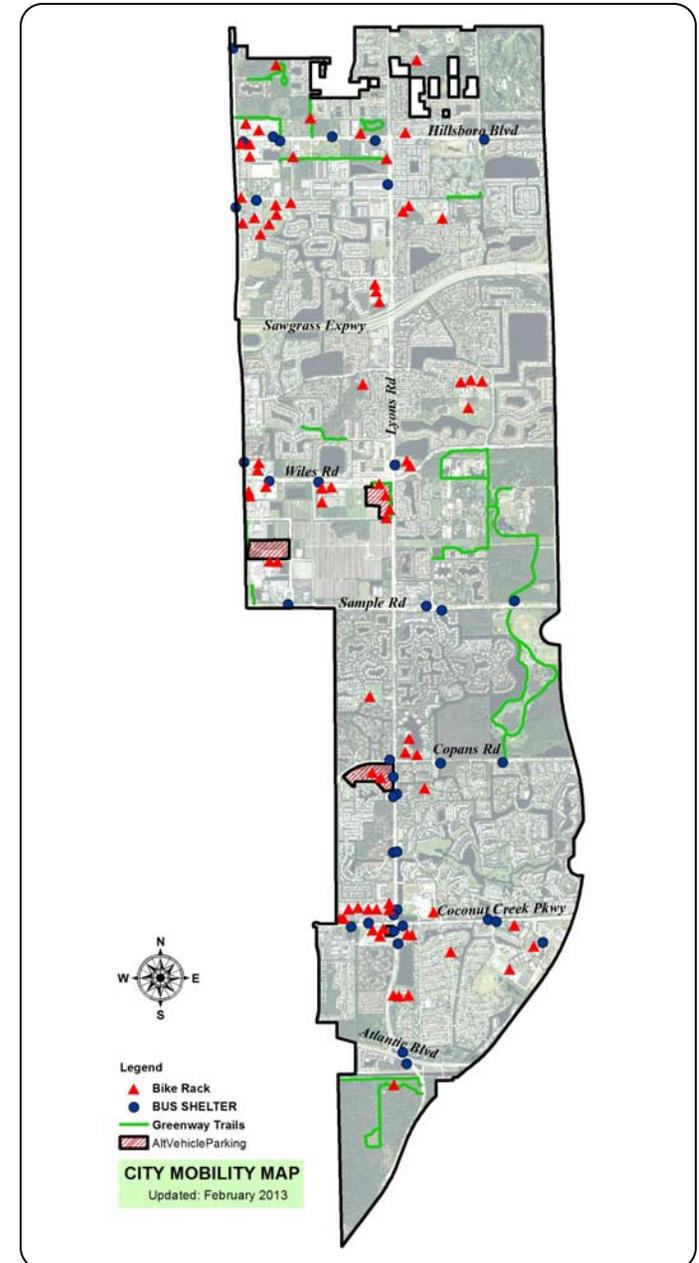
Greenway Trail Network

There has been a slight increase in the number of linear feet for greenway trails due to the completion of minor link in the north end of the City. Below depicts the increase since 2009.



Bike Racks

In 2012, there were 2 bike racks added on private commercial properties. Graphic below depicts the growth in installation of bike racks in the City.



Action Steps

Results of each action step under Category 6

ACTION OBJECTIVE		ACTION SUMMARY	PERFORMANCE MEASURE	2009	2010	2011	2012
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
			# of meetings with other government agencies/staff	12	27	17	15
			# of property owners planning for/participating	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
			# of existing bike racks (cumulative)	62	64	91	93
			# of linear feet of existing greenway trails	4,338	33,238	41,100	42,300
			# of shuttle riders - est. per year	130,168	145,409	173,701	161,660
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: 2011 B-Cycle Program has been placed on hold	# of programs existing	-	0	0	0
			# of programs planned	-	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
			# of spaces planned	-	125	4	6

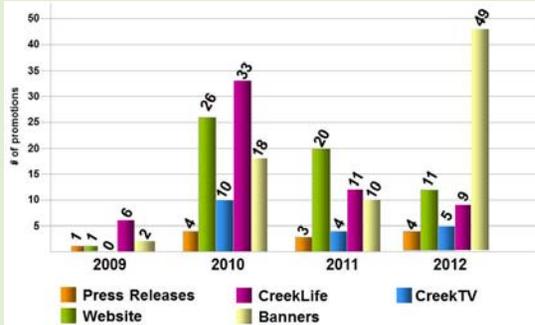
Category 7: Community Outreach and Empowerment

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 plan actions. Below are results since 2009.



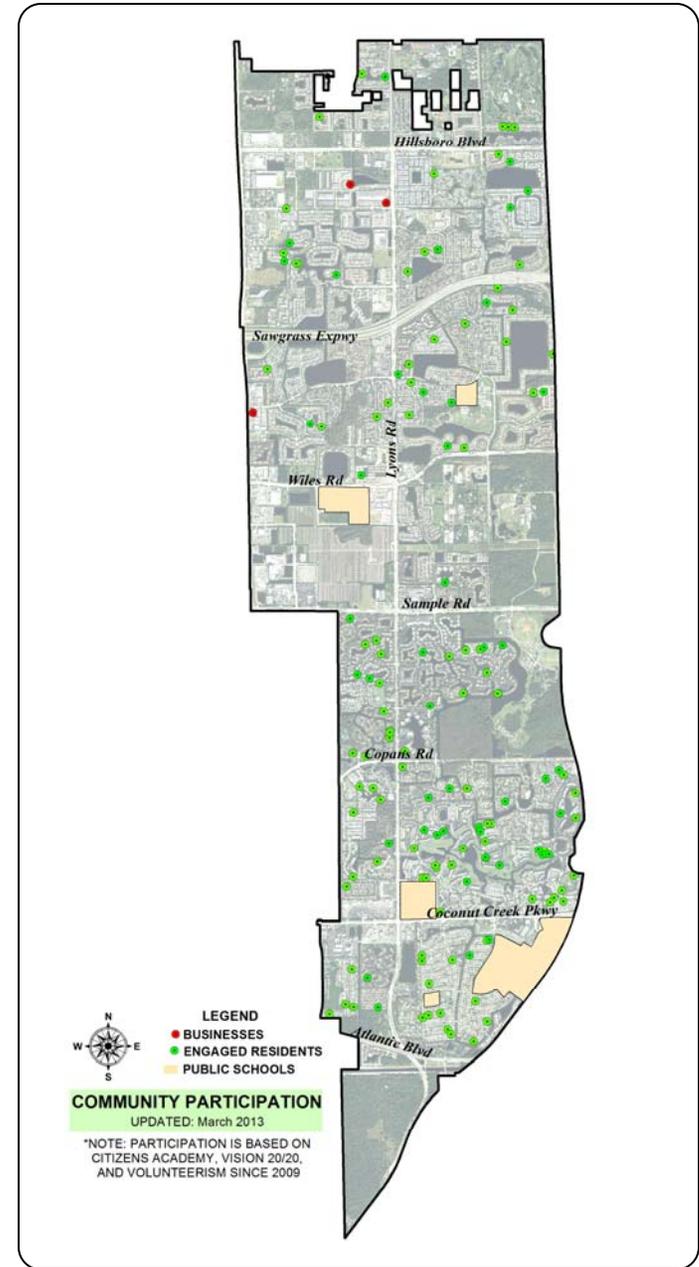
Quick Numbers

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 → 27
- # of attendees at green events → 2,250

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.



Action Steps

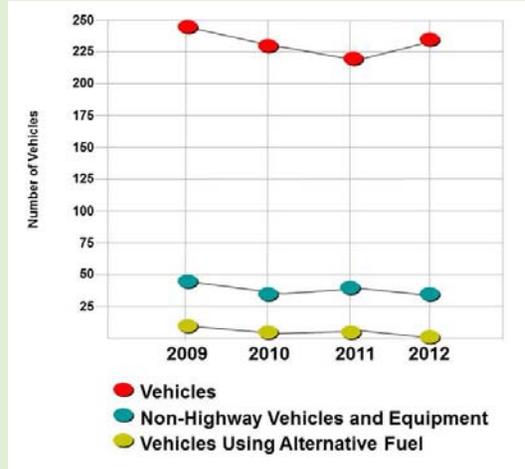
Results of each action step under Category 7

Category 7: Community Outreach and Empowerment

	ACTION OBJECTIVE	ACTION SUMMARY	PERFORMANCE MEASURE	2009	2010	2011	2012
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
			# of events that support proclamation	-	2	2	4
			# of participants at events (approx.)	-	3,000	1,250	2,250
7.2	Implement a City Green Award program to recognize homeowners, neighborhoods, and businesses that incorporate green and sustainable practices.	Status: <input type="checkbox"/> Undetermined 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, Feedback Surveys Note: This program was placed on hold in 2011.	# 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: <input checked="" type="checkbox"/> In progress Target Date: 2012 Data Sources: Sustainable Development Note: Application submittal process has begun.	Application submitted	-	-	-	-
			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	1	4	3	4
			# of website promotions	1	26	20	11
			# of green productions on CreekTV	0	10	4	5
			# of articles and ads in Creeklife	6	33	11	9
			# of banners	2	18	10	49
7.6	Create a City Sustainable Center on City owned property by 2014.	Status: <input type="checkbox"/> Undetermined 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, as well as non-highway vehicles, and a comparison on the percentage that is using alternative fuels.



Idle Time

The City does not contain 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.



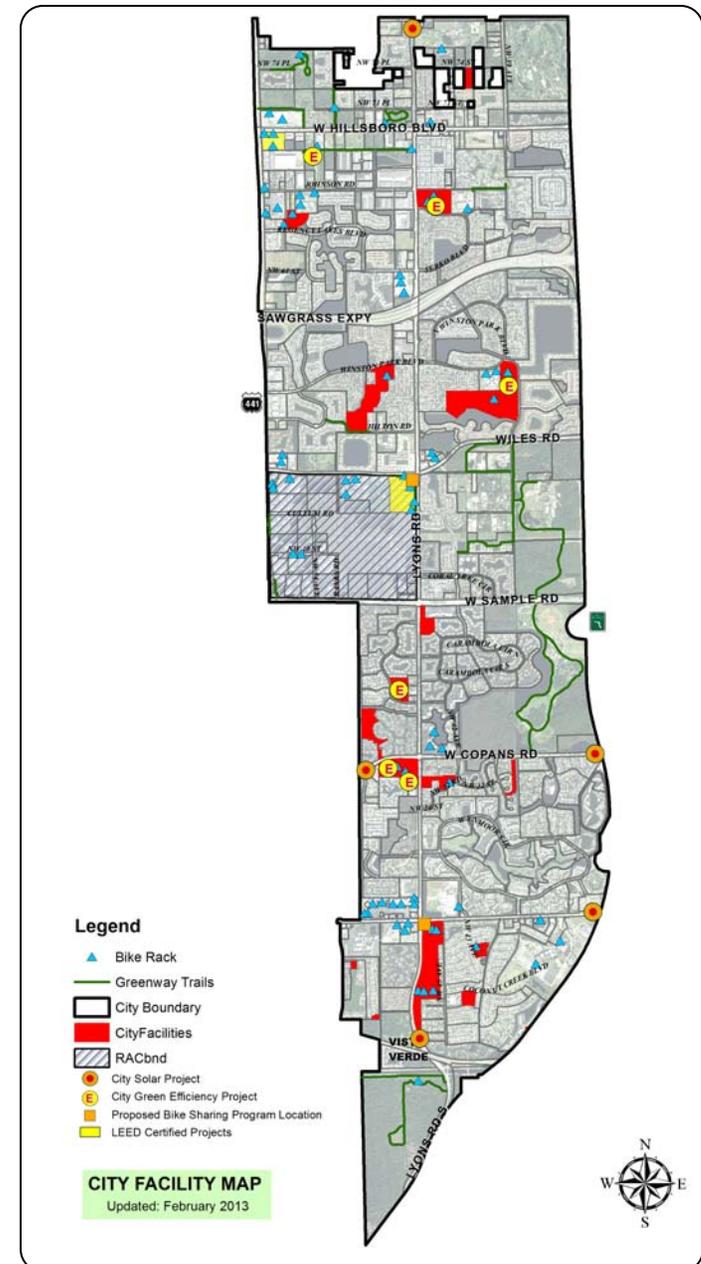
Quick Numbers

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

Fuel Consumption

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



Action Steps

Results of each action step under Category 8

ACTION OBJECTIVE		ACTION SUMMARY	PERFORMANCE MEASURE	2009	2010	2011	2012
8.1	Improve indoor air quality in all city buildings by 2020.	Status: ? Undetermined Target Date: 2020 Data Sources: -	# 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: -	# 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	20	0	0	0
			# of projects/programs (other renewable)	0	0	0	0
			% of city owned buildings using renewable energy	0%	0%	0%	0%
			% of building usage from renewable energy source	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) Energy project for 2012 was replacement of city hall chiller	# of initiatives from IT city-wide technology system energy consumption	3	1	0	0
			# of solar power projects/programs	20	0	0	0
			# of energy efficiency projects (lighting and HVAC)	3	1	2	1
			# of city buildings certified as LEED®	0	0	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: (1) E-gov solutions include internal and external online efforts (2) Copy machines print jobs and on-glass copies	# of E-gov solutions (e.g. online billing)	16	1	0	2
			# of pages printed city-wide	723,221	614,062	750,756	709,721
			# of pages produced city-wide copy machines	-	-	813,087	922,654
			City-wide copy paper expense	\$9,982.11	\$6,976.83	\$9,144.96	\$9,176.83
8.6	Create a Sustainable City Coordinator position by 2010.	Status: ✓ Achieved	Approved as part 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: ✓ Achieved / ✓ In progress Target Date: 2012 / 2020 Data Sources: ICLEI – CACP Software	GHG missions (tonnes of CO ₂ e)	7,065	-	-	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 2012 (2) Only fleet vehicles that consumed fuel for CY 2012 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	224	236
			# of non-highway & equipment (CY fuel use)	42	30	34	40
			% of fleet using alternative fuels	2.6%	1.5%	.75%	0.1%
			Gallons of fuel consumed (total of all fuels)	183,327	180,013	181,341	175,701
			Idle time for vehicles (hours)	46,774	48,461	49,384	76,766

Category 9: Regional Leadership

Climate Change

Carbon Reduction— Regional Leadership – Environmental

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 → 25



	ACTION OBJECTIVE	ACTION SUMMARY	PERFORMANCE MEASURE	2009	2010	2011	2012
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	0	4
			# of public meetings attended by staff	5	12	0	3
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	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: ? 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	-	-	-	-
			Value of tax base	-	-	-	-
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 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
			# of action efforts	-	-	1	1
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: March 2013
Environmental Advisory Board meeting: March 19, 2013

FOR COMMENTS OR QUESTIONS REGARDING THIS REPORT CONTACT:
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