

CITY GREEN PLAN REPORT

2015



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 2015 calendar year. Historical data can be found on the City’s website http://www.coconutcreek.net/sd/living_green.

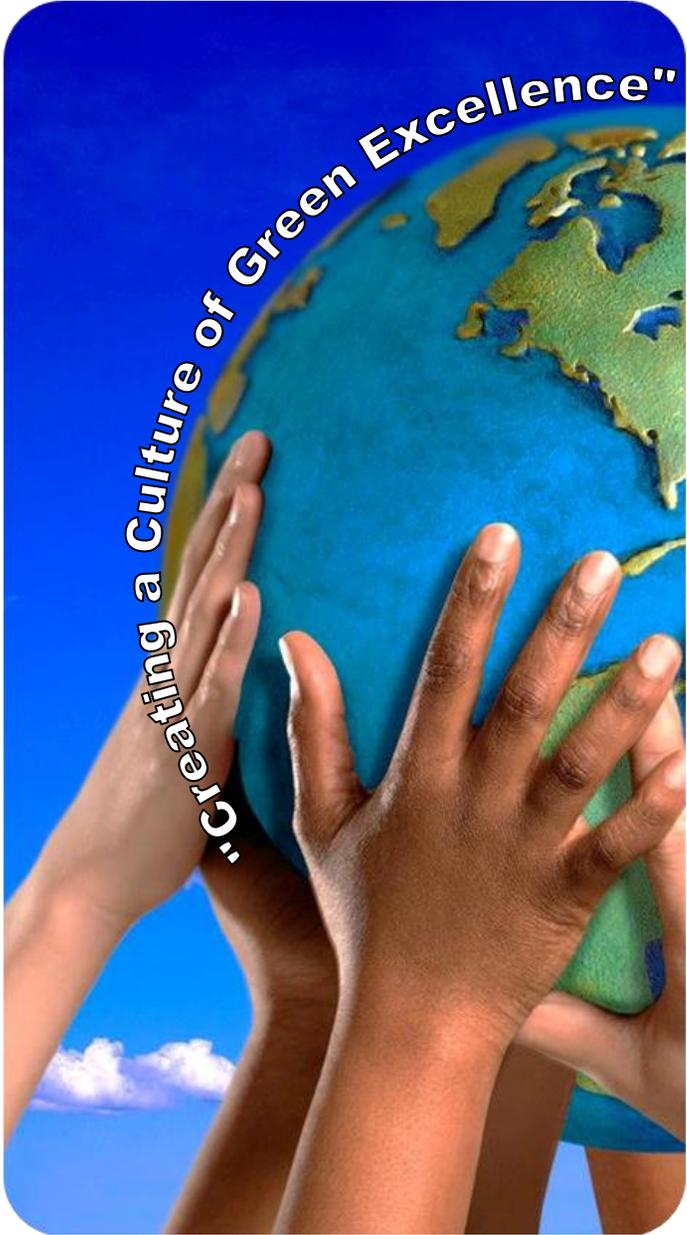
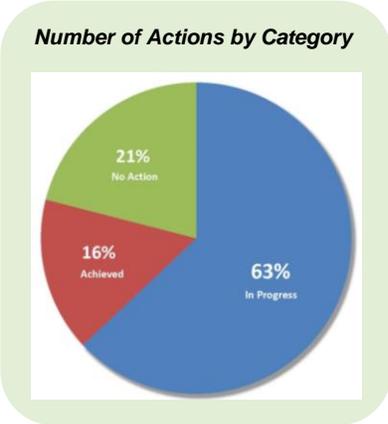
Collaborative Effort

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 2015, there were 32 action steps in progress, which represents 63% of all action, and 11 action steps have had no action, representing 21%. There are 8 action steps achieved, representing 16% of all action.



Florida Green Building Coalition Certification

The Florida Green Building Coalition (FGBC), a membership-based non-profit organization that administers certification standards and provides education to promote sustainable building, development and business practices, has designated the city of Coconut Creek a certified Florida Green Local Government after it successfully met the sustainability standards established in the FGBC Green Local Government Certification program. Coconut Creek achieved 53 percent of its 355 applicable points, earning it a gold-level designation, the highest score of all FGBC certified local governments within Broward County and the fifth highest scoring local government in the state.

Suzanne Cook, FGBC Executive Director, said the designation demonstrates exemplary leadership by Coconut Creek's Mayor Tooley and other elected officials who provided the framework and support to move forward with the process that helps to better manage the cost of government. "Their leadership in this effort will help protect and conserve the community's natural resources, enhance the efficiency of government thus reducing the cost to taxpayers, and raise public awareness about the benefits of environmental stewardship," Cook said. "Our membership applauds the municipality's dedication and commitment to the important ideals outlined in this program."

In order to achieve the FGBC Green Local Government Certification, Coconut Creek staff, led by Senior Planner Linda Whitman, undertook an extensive audit of the functions performed by every department within their government. The criteria included evaluations of energy and water usage, air quality, health issues, land use, recycling and waste disposal, maintenance policies, educational programs, purchasing practices, regulatory policies, and many others. From there teams used FGBC's program tools to identify methods to improve the sustainability of their business practices and operations.

Cook said that there were significant and tangible accomplishments that will benefit taxpayers and the environment. "Through these efforts, there were reductions in operating costs and capital outlays, improvements in departmental communication and cooperation reducing duplication and conflict of efforts, improved risk and asset management, a wealth of environmental benefits such as measureable CO2 reductions, and identification of programs that will improve community involvement and enhance sustainability throughout Coconut Creek," Cook noted.

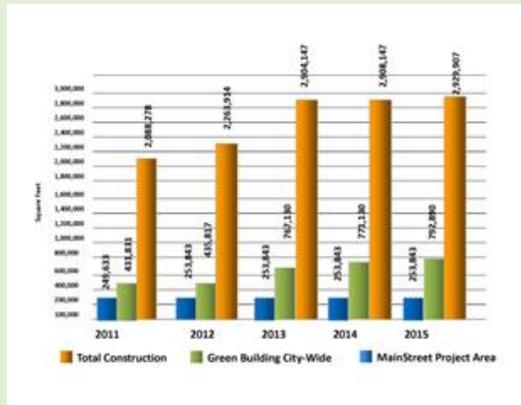
FGBC's Green Local Government Certification program is the only one of its type in Florida and is endorsed by the Florida Legislature, the Florida League of Cities and the Florida League of Mayors. Cook emphasized that this level of support emanates from the fact that there is a sizeable and compelling return on investment for any municipality that chooses to initiate the process. "Depending upon the population of the community, the cost of this program is between \$2,000 and \$6,000," she said. "The cost savings and environmental benefits that can be achieved dwarf the initial expenditure."

Since the FGBC Green Local Government Certification program was launched, 74 local governments have registered to participate in the program, with 52 of those currently certified. The program is performance based, not prescriptive, and all of the certified governments have found that many of their existing programs and policies contributed to the point total needed for certification. "This program is an opportunity for local governments to establish sustainable practices that can be carried out on a systematic basis, and sets in motion a process that will extend beyond election terms and protect the community for years to come," Cook said.



Green Building Growth

There was a slight increase in planned development for 2015 with the construction industry catching up with the economy. Section 13-320 of the Land Development Code, along with LEED, FGBC and others has been recognized by the City as contributions to green building construction.



Green Building by Area

Green building construction continues to be mostly outside of 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.

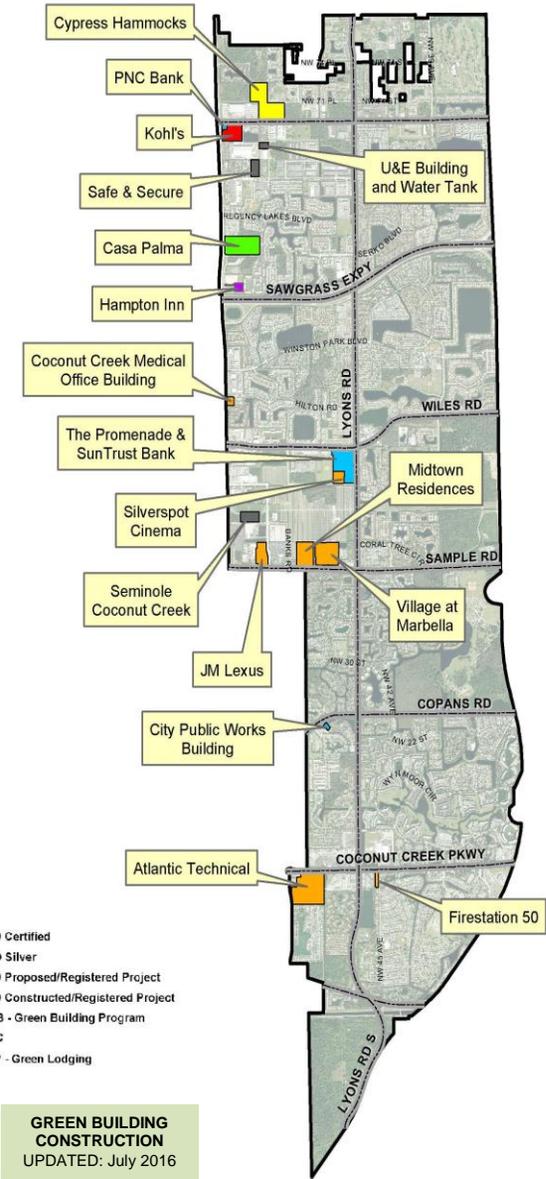
- # of actions for Category 1 → 9
- # of actions in progress → 8
- # of proposed green buildings → 0
- # of LEED® certified buildings → 16
- # of FGBC certified buildings → 0
- # of FDEP certified Green Lodging → 1
- # of NAHB green certified buildings → 11

Total Construction

Construction that received a CO and included elements of Sec. 13-320 for 2015 include the new MOB (medical office building) on SR 7. As the economy continues to gain traction, development will continue to increase, leading to additional “green” construction.

USGBC Certification

The City continues to encourage 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	2011	2012	2013	2014	2015
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)	1	2	0	0	0
		# of buildings seeking certification	0	0	1	0	0
		# of buildings certified (cumulative)	14	14	14	14	14
		% certified as Silver, Gold, or Platinum	93%	82%	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)	7	6	23	16	1
		# of buildings seeking certification	0	1	0	14	1
		# of buildings certified (cumulative)	1	1	13	13	14
		% certified	4%	3%	24%	19%	20%
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	0	1	1
		# of projects constructed (based on issued COs)	0	0	1	0	0
		# of buildings seeking certification	1	1	0	1	0
		# certified (cumulative)	0	0	1	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	2	0	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	-	-	-	-	-
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	7	8	13	4	10
		# of green tech/art displays proposed (cumulative)	3	4	4	6	13
		# of green tech/art displays constructed	0	1	1	1	2
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 to present to City Commission when appropriate developer is identified.	# 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)	4	4	5	8	13
		# of projects higher density/mixed-use (cumulative)	3	3	4	4	4
		% of projects support action	75%	75%	80%	50%	31%

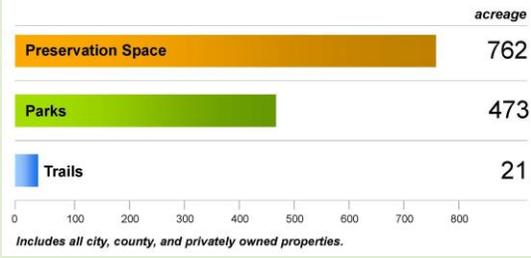
Category 2: Urban Nature

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.



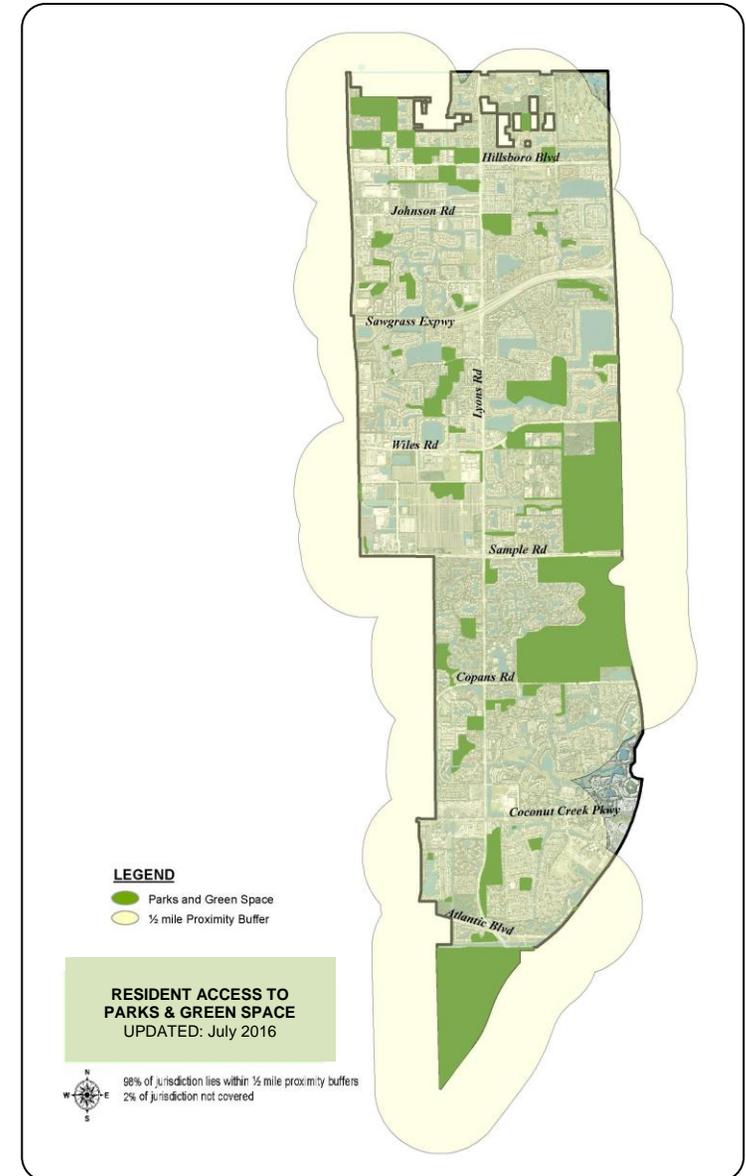
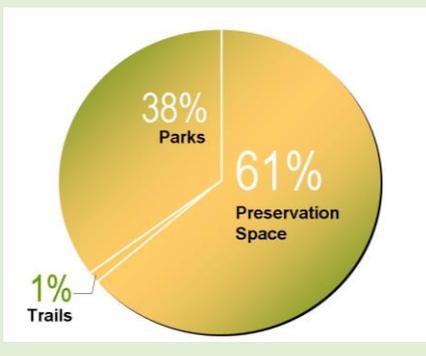
Quick Numbers

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 → 0

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	2011	2012	2013	2014	2015
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 and 2010 data (2) Inventoried trees are reflected as a cumulative total of city owned land	# of trees at free giveaway	700	700	600	600	600
			# of trees - city inventory (cumulative)	6,977	7,804	8,471	9092	9175
			# landscaping awards	0	0	0	0	0
			# acres of natural conservation areas (cumulative)	762	763	763	763	763
			% estimated in tree canopy coverage	22%	28%	28%	29%	30%
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	30	30	30	30
			# of greenways trails (cumulative)	11	11	11	18	18
			% of city area within ½ mile of all of the above	98%	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.



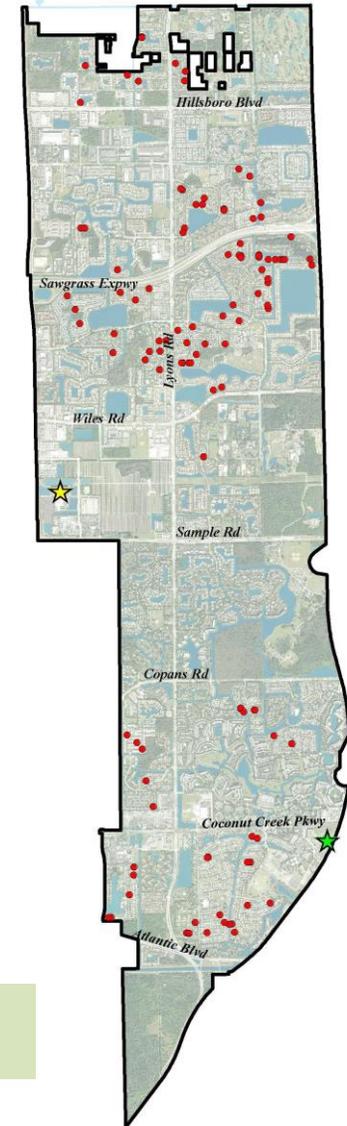
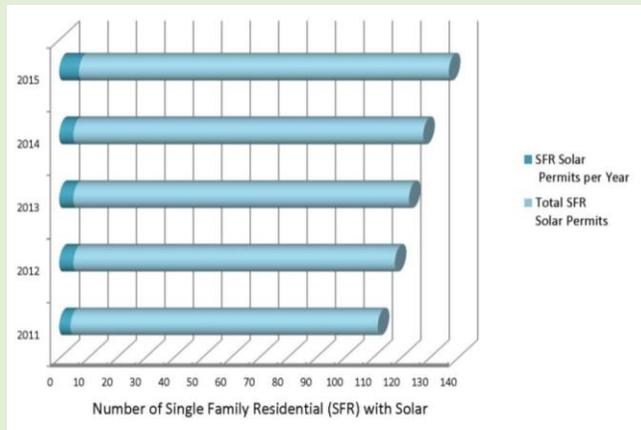
Quick Numbers

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 → 130

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: July 2016

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	2011	2012	2013	2014	2015
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: ✓ 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)	108	113	118	123	130
			# of permits issued per year	4	5	5	5	7
			% of homes**	1%	1%	1%	1%	1%
			# of grants applied for	-	5	4	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: ✓ 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	0
			% of grants toward renewable/efficient energy projects	-	20%	0%	50%	0%
			# of grants applied for	7	3	6	5	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 Note: (1) Grant information obtain from Finance Department which tracks all department grants.	# of grants received - awarded	4	0	2	2	12
			# 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 2015.

Month	Residential	Commercial	Total
January	115,216	18,109	133,325
February	102,517	17,629	120,146
March	104,521	19,077	123,598
April	118,031	20,853	138,884
May	109,980	20,329	130,309
June	116,961	19,975	136,936
July	115,010	22,938	137,948
August	111,502	21,804	133,306
September	94,923	17,816	112,739
October	98,026	21,522	119,548
November	97,996	18,835	116,831
December	103,339	19,244	122,583
Monthly Average	107,335	19,844	127,180
Total Avg Daily Consumption (MG)			4.24
Avg # Customers - Residential			11,038
Avg # Customers - Commercial			753
Avg Daily Consumption-Residential (MG)			3.58
Avg Daily Consumption-Commercial (MG)			0.66
Avg Annual Consumption - Residential (MG)			1,306.70
Avg Annual Consumption - Commercial (MG)			240.90

*Numbers are per 1000 gals

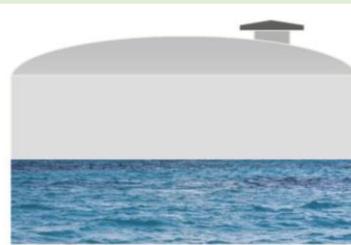
Quick Numbers

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 → 59
- # of participants \$100 toilet rebate → 151

City Water Savings

Below is a cumulative savings in water for City projects.

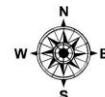
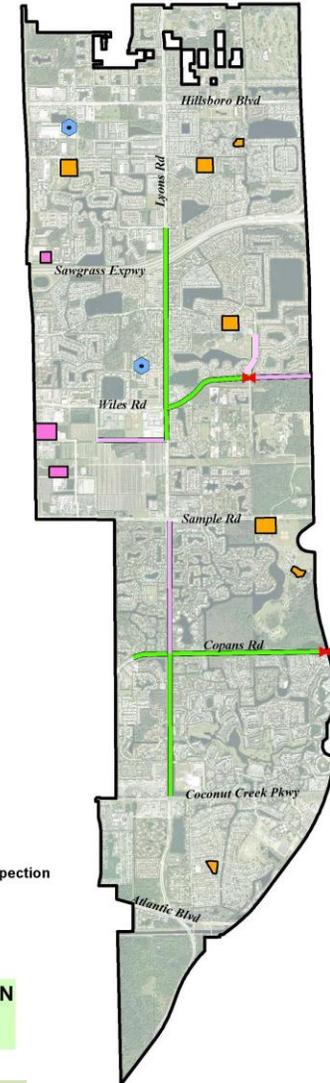


25,020,000 (mgpy)
(total estimate 2003-2015)

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 = 2



- Legend**
- County Connection
 - City Tank
 - Nature Scape Broward Inspection
 - Project Utilizing Cisterns
 - Reclaimed, Planned
 - Reclaimed, Existing
- WATER CONSERVATION PROJECTS**
Updated October 2015
- WATER CONSERVATION PROJECTS**
UPDATED: July 2016

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	2011	2012	2013	2014	2015
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	2	3	4	0
			# of MainStreet projects built	2	2	2	2	2
			# with on-site water collection systems	1	1	1	1	1
			# with reclaimed water	0	0	0	0	0
			% of built projects	50%	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. (4) In 2015, we experienced the warmest year on record and the 3rd driest summer on record	# of customer accts targeted high consumption	6,767	6,762	7,571	7,151	7,943
			# of water meters checked for high consumption	1,111	2,055	2,798	2,541	2,887
			annual water consumption increase (residential)	(40.15MG)	(47.45MG)	10.95MG	(14.60MG)	35.85MG
			annual water consumption increase (commercial)	(10.95MG)	0 MG	.06MG	3.65MG	18.25MG
			# of reclaimed water projects planned	6	2	1	1	4
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	2	1	0	0	3
			# of properties connected	0	0	0	0	1
			# of programs and partnerships	-	6	1	0	2
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 grants received	-	0	0	1	2
			# of NatureScape Inspections	5	8	2	8	8
			# of projects planned	1	1	3	4	1
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 completed projects	1	1	1	4	1
			amount of water saved (estimated gallons)	400,000	400,000	160,000	200,000	20,000

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 2015. Below are estimated results for the program for 2015.



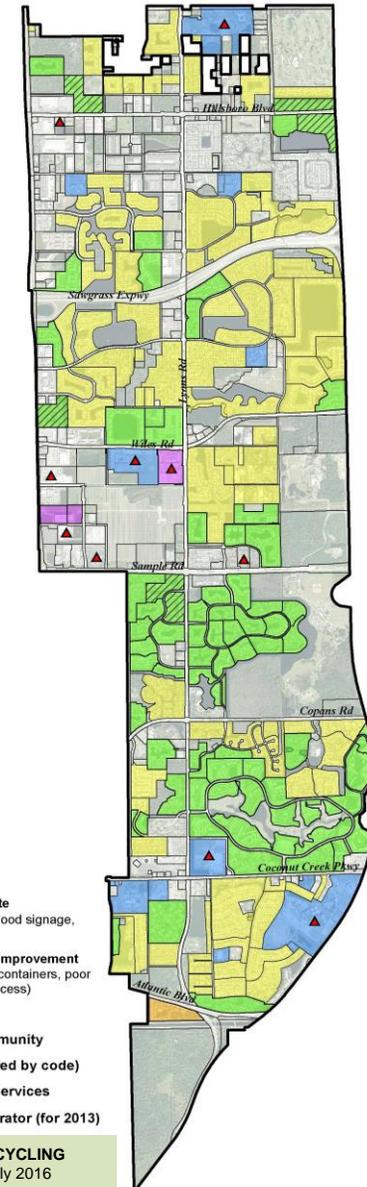
Quick Numbers

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	2011	2012	2013	2014	2015
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	0	0	1,700	452	0
		# of single stream recycling containers distributed	10	175	290	101	0
		Average capture rate ratio (estimated)	21%	26%	24%	21%	20%
		# of participants in paint recycling program	40	65	79	-	0
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 & 2015 due to unresponsive contractor.	# of participants	78	508	474	*491	*491
		lbs. of paper shredded	12,285	28,595	41,360	*34,978	*34,978

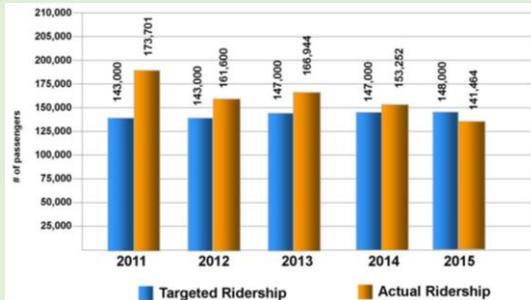
Category 6: Sustainable Transportation and Mobility

Transportation

Public Transportation – Greenway Network – Mobility

City Shuttle Service

Each year, a total number for ridership is targeted for the shuttle service. 2015 is the first year since the start of the Green Plan that ridership fell below the expected amount. This may have to do with increased prosperity in the economy.



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.



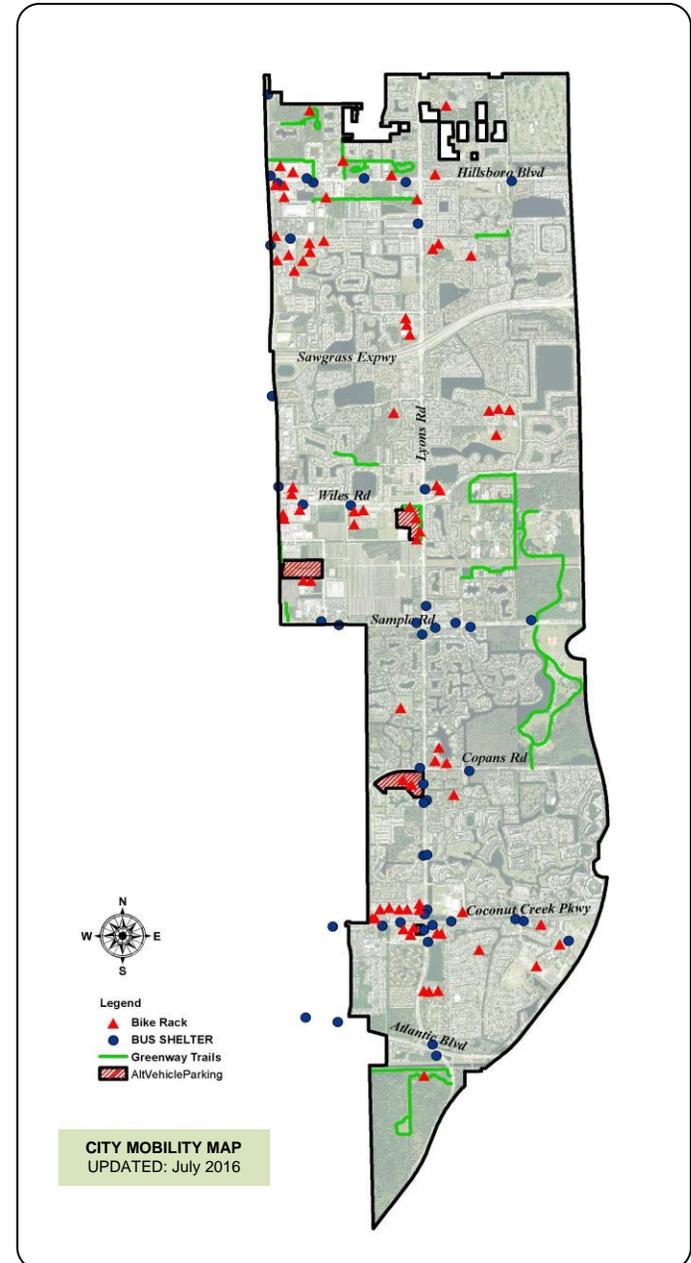
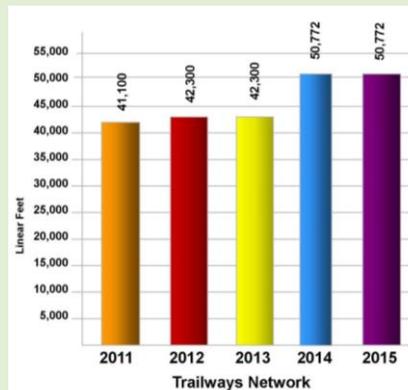
Quick Numbers

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 → 4

Trailways Network

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



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	2011	2012	2013	2014	2015
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	2
			# of meetings with other government agencies/staff	17	15	12	13	12
			# of property owners planning for/participating	2	2	2	2	1
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	42	42
			# of existing bike racks (cumulative)	91	93	94	94	99
			# of linear feet of existing greenway trails	41,100	42,300	42,300	50,772	50,772
			# of shuttle riders - est. per year	173,701	161,660	166,944	153,252	141,464
			# of linear feet of bike lanes	45,700	45,700	59,800	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	188	188	192	193	194
			# of spaces planned	4	6	18	23	6

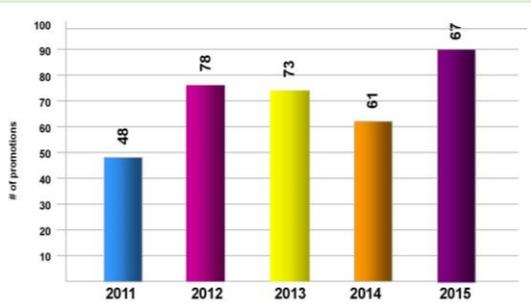
Category 7: Community Outreach and Empowerment

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 actions. Below is the total number of promotions by year.



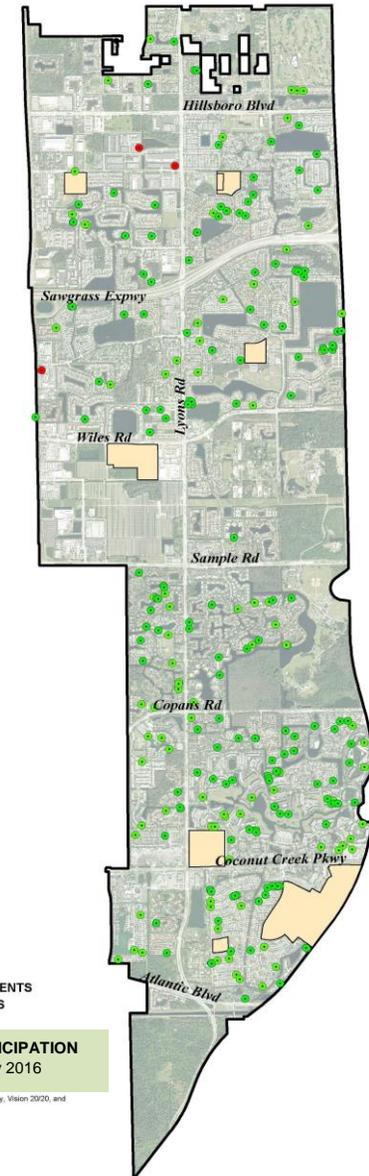
Quick Numbers

Below are quick reference numbers in relation to this category.

- # of actions for Category 7 → 6
- # of actions in progress → 2
- # of actions achieved → 2
- # of attendees at citizen's academy → 28
- # of attendees at green events → 4,000

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.



LEGEND

- BUSINESSES
- ENGAGED RESIDENTS
- PUBLIC SCHOOLS

COMMUNITY PARTICIPATION
UPDATED: July 2016

NOTE: Participation based on Citizen's Academy, Vision 2020, and volunteerism since 2009.

Map available in larger print

Action Steps

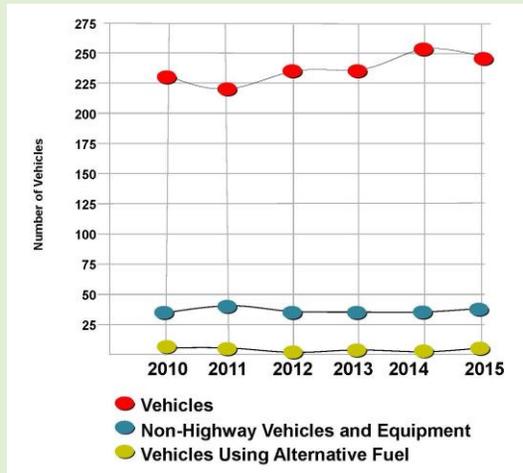
Results of each action step under Category 7

Category 7: Community Outreach and Empowerment

ACTION OBJECTIVE		ACTION SUMMARY	PERFORMANCE MEASURE	2011	2012	2013	2014	2015
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, * no formal event for recycling but supported effort on social media to entire city.	Proclamation date	-	4/12/12	4/11/13	4/25/14	11/12/2015
			# of events that support proclamation	2	4	3	5	2
			# of participants at events (approx.)	1,250	2,250	3,600	6,000	*4,000
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, *smaller scale backyard gardening lecture	# scheduled lectures	-	-	4	3	1
			# of attendees (total)	-	-	68	150	15*
			% satisfaction rate (based on surveys)	-	-	94%	92%	100%
7.4	Seek Florida Green Building Coalition (FGBC) Local Government Designation by 2012.	Status: <input checked="" type="checkbox"/> Achieved Target Date: 2012 Data Sources: Sustainable Development Note: Application in process.	Application submitted	-	-	3/14/13	-	-
			Certification received (GOLD)	-	-	-	-	January 2015
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	3	4	2	5	5
			# of website promotions	20	11	10	7	14
			# of green productions on CreekTV	4	5	3	3	7
			# of articles and ads in Creeklife	11	9	9	23	16
			# of banners	10	49	49	23	25
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 utilize 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.

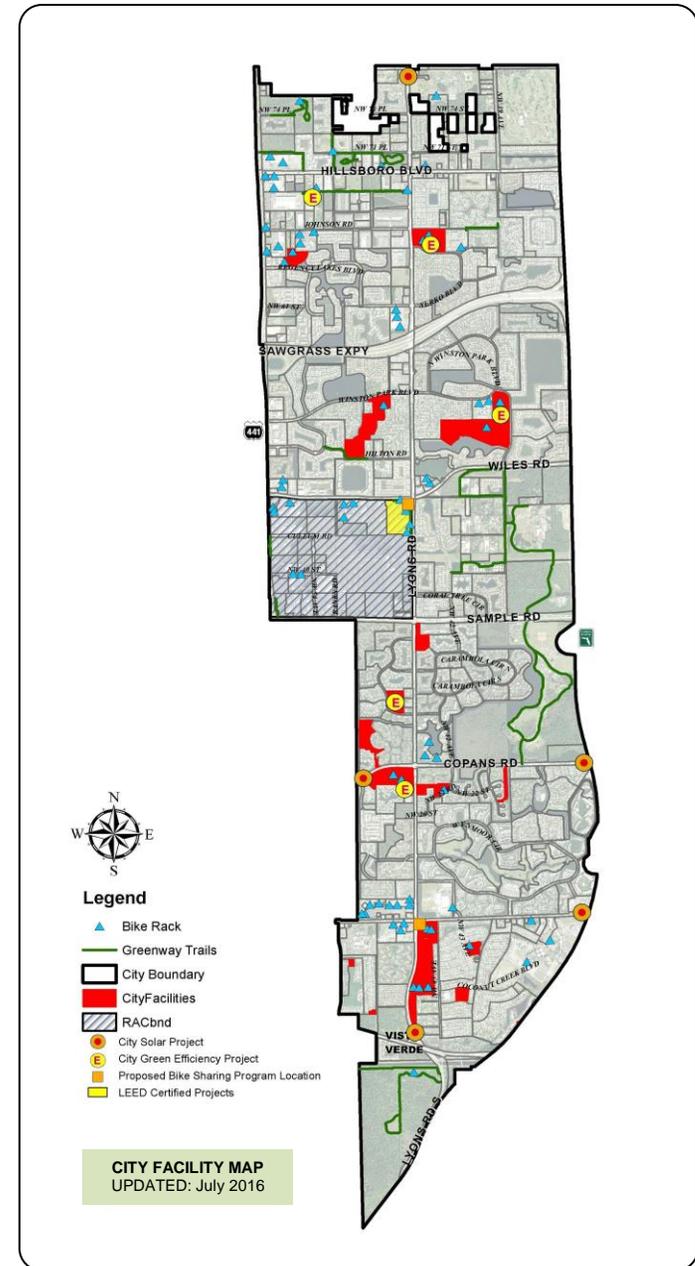
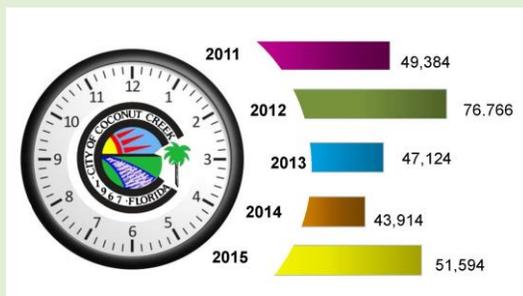
- # of actions for Category 8 → 9
- # of actions achieved → 2
- # of actions in progress → 5
- # of City LEED® certified buildings → 1

Fuel Consumption



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.



Action Steps

Results of each action step under Category 8

ACTION OBJECTIVE		ACTION SUMMARY	PERFORMANCE MEASURE	2011	2012	2013	2014	2015
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	0
			# of indoor air improvements/cleaning projects	-	-	0	1	0
			# of fake plants removed from buildings	-	-	27	20	0
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	0	0	0	1	0
			# of solar power projects/programs	0	0	0	0	0
			# of energy efficiency projects (lighting and HVAC)	2	1	0	0	0
			# of city buildings certified as LEED®	0	0	1	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, * estimated for 2014	# of E-gov solutions (e.g. online billing)	0	2	2	2	2
			# of pages printed city-wide	750,756	709,721	897,173	*742,928	100,000
			# of pages produced by city-wide copy machines	813,087	922,654	932,402	*889,381	1,162,032
			City-wide copy paper expense	\$9,144.96	\$9,176.83	\$8,350.83	*\$8,412.36	\$8,051.11
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)	224	236	233	256	246
			# of non-highway & equipment (CY fuel use)	34	40	40	44	40
			% of fleet using alternative fuels	.75%	0.1%	0.74%	.70%	.53%
			Gallons of fuel consumed (total of all fuels)	181,341	175,701	177,432	185,750	181,851
			Idle time for vehicles (hours)	49,384	76,766	47,124	43,914	51,594

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 6th annual summit was held in Key West with over 400 participants. Coconut Creek Commissioners and staff attended the conference to demonstrate our commitment to regional participation and leadership regarding climate change. Additionally, Commissioners have been active members of the Climate Change Task Force.

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	2011	2012	2013	2014	2015
9.1	Participate in a regional or county Climate Action Plan.	Status: <input checked="" type="checkbox"/> In progress Target Date: 2020 Data Sources: Outlook Calendars	# of public meetings attended by Commission	0	4	2	11	8
			# of public meetings attended by staff	0	3	4	0	4
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	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: <input checked="" type="checkbox"/> In progress Target Date: 2020 Data Sources: City Manager's Office	# of public meetings	3	3	0	0	0
			# of action efforts	1	1	1	0	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: <input checked="" type="checkbox"/> 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: July 2016
Environmental Advisory Board meeting: September 2016

FOR COMMENTS OR QUESTIONS REGARDING THIS REPORT CONTACT:

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