



2016 Sustainability Report

Presented by:

City of Winter Park's Keep Winter Park Beautiful & Sustainable Advisory Board

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FORWARD

The City of Winter Park Sustainability Office was originally created in 2009 to research and recommend improvements concerning Green Local Government Certification, which the City earned at the Gold level in 2011. The Sustainability Office was then given the appointment to reflect the City's leadership in energy and environmental awareness.

Led by the Keep Winter Park Beautiful & Sustainable Advisory Board, the city's first Sustainability Action Plan (SAP) is a collaborative effort involving the entire community. The plan was adopted by unanimous vote of the City Commission on February 9, 2015.

The purpose of the SAP is to create a roadmap depicting where the city is today and where it would like to be in the future, in regard to sustainability. It is divided into seven categories, long term objectives and short term actions for helping the city achieve these long term objectives. The objectives are intended to be quantifiable so that progress can be measured on an annual basis and reported to decision makers and stakeholders. A collaborative, integrated approach is necessary for working toward meeting the objectives outlined in the program. The plan is a living document intended to evolve over time as Winter Park experiences both progress and challenges.

This report is the second annual report of the Sustainability Action Plan. It provides a review of city activities and programs that are taking place now, and provides an outline regarding sustainability related considerations as the City moves forward.

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Executive Summary

- **Community Engagement and Green Economy:** The City of Winter Park has year-round programs when it comes to providing educational and volunteer opportunities for keeping our city clean and green. Many of our own departments offer education and awareness from home energy-efficiency audits (provided by the city's Sustainability Office) to the multiple Watershed Litter cleanup events throughout the year. In 2016 we offered 150 free composters to city residents, echoing the successful city of Orlando program.
- **Waste and Recycling:** The recent integration of sustainability into the Waste Collection contract will be instrumental in breaking through the 15% diversion rate and continuing progress toward the state of Florida 75% diversion rate goal that was set for 2020. KWPB and sustainability staff members are also committed to continuing as the primary resource for commercial and residential recycling education.
- **Mobility and Urban Form:** The City of Winter Park Public Works Department funded the logistics design of a bicycle wayfinding system to direct cyclists throughout the city limits of Winter Park. A pilot project for a portion of the bicycle wayfinding system will be implemented in early 2017. This signed wayfinding route will connect the Cady Way Trail to the Mead Botanical Gardens. The Transportation Advisory Board advised heavily on the wayfinding project, and has stated support for the goal of the City of Winter Park to seek a Best Workplaces for Commuters designation as a priority goal for 2017.
- **Buildings, Energy, and Water:** With the Georgetown University Energy Prize coming to a close and PACE (Property Assessed Clean Energy) funding now available to residents, the goal of consumer education will continue. Research, design, and execution of programs that support the increase of production of solar energy, both in the municipal and residential sectors, will be a main focus for 2017.
- **Natural Resources and systems:** This past year, the Lakes division completed several significant projects and maintenance events which will continue to improve water quality within the city lakes and waterways.
- **Local Food and Agriculture:** Through a grant with Healthy Central Florida, the City of Winter Park is working with two other local Farmers Markets to create the first organized SNAP acceptance program in Central Florida.
- **Local Government Operations:** 2016 saw the formation of an employee driven Green Team. It is the initial goal of the green team to use the day-to-day operational knowledge of these staff members to create a list of short, medium, and longer term goals for projects that will have a monetary benefit to the city, with a primary focus on energy, water, and waste reduction. 2016 energy consumption was approximately 15% below the 2012 baseline, which is significant progress exceeding the 10% reduction goal set for 2020. This has in effect saved the city over \$100,000 in energy cost based upon .06/kwh pricing.

City of Winter Park

Guiding Commitments

By integrating elements of this plan, Winter Park will:

- Increase the quality of life while improving individual and community health.
- Become more energy independent.
- Protect and enhance air quality, water quality, and natural systems.
- Save money.
- Increase economic value.

It is the intention of this document to provide high level objectives that are conceptually approved by the City Commission and leadership. The actions listed under each category are put forth as possible avenues for achievement of the approved goals, and do not represent required or prescriptive measures.

Community Engagement & Green Economy

	Indicator	2012 Baseline	2016	2020 Target	2030 Target
CEGE1	City wide Carbon Footprint in GHG Emissions (electric, transportation, solid waste)	397,075	Not Measured at this interval	25% less	50% less
CEGE2	Recognized Green Businesses	0	13	25 % recognized businesses	50% recognized businesses
CEGE3	Residents taking the Sustainability Pledge	0	36	50%	100%
CEGE4	Green School Grant Applications	10	5	50%	100%
CEGE5	KWPB Volunteer Events	12	12	12	12

2016 Project Status	Status
Develop Marketing Plan for Sustainability.	In Progress
Continue Green School Grant program.	Complete
Explore funding options for maintenance and upkeep of existing Pocket Parks and Community Gardens	Program Suspended
Facilitate sustainability education workshops	Program Suspended
Continue participation in America In Bloom/ Winter Park Blooms.	Complete
Continue volunteer opportunities including lake cleanups, gardening, and invasive species removal.	Complete

2017 Projects

Develop interactive sustainability webpage that allows individuals to take Sustainability Pledge, calculate their carbon footprint, organizations to post environmental volunteer opportunities, and share success stories.
Develop Marketing Plan for Sustainability.
Continue Green School Grant program.
Create and install Environmental Education opportunities at parks and green buildings.
Continue participation in America In Bloom/ Winter Park Blooms.
Continue volunteer opportunities including lake cleanups, gardening, and invasive species removal.

The City of Winter Park has year-round programs when it comes to providing educational and volunteer opportunities for keeping our city clean and green. **Great American Cleanup**: an annual event from

March to May when citizens come together to clean up and beautify the streets and lakes of Winter Park, supplies provided by KWPB. **Earth Day in the Park**:

The City's Office of Sustainability invites all city departments to participate in the Earth Day Fair, this allows the participants to come together in one place as a city unit to educate and make residents aware of the city now and in the future. Schools from the elementary level to High School compete for Green School Grants, which are awarded on Earth Day by the Mayor in support of eco-friendly projects such as butterfly gardens, vegetable gardens, and on site composting programs .



The City of Winter Park partnered with Green Destination Orlando, City of Orlando, and Orange County to launch the 2016 Central Florida Workplace Challenge, where local businesses were challenged to create a more green, healthy, and involved workplace in a friendly competition with other businesses, and increasing the number of recognized green businesses in Winter Park in 2016.



The City of Winter Park was a 2016 recipient of the America in Bloom Outstanding Achievement Award in the Heritage Preservation category, which welcomed Winter Park into the America in Bloom "Circle of Champions". America in Bloom promotes nationwide beautification through education and community involvement by encouraging the use of flowers, plants, trees, and other environmental and lifestyle enhancements. The first annual City of Winter Park Volunteer Appreciation event was held at Casa Feliz in 2016, where individuals young and old from various organizations in Winter Park were given awards for their volunteerism.

Waste Diversion & Recycling

Category	Indicator	2012 Baseline	2016	2020 Target	2030 Target
Waste Diversion & Recycling	WDR1 Waste diverted from landfill (residential only)	15%	15%	75% (state goal)	90%
	WDR2 Total tons of solid waste generated (residential only)	11,594	10,010	10% less	25 % less
	WDR3 GHG emissions from solid waste (calculated as 3.45 tons of CO2 per ton of waste generated)	39,999	34,534	40% less	75% less

2016 Project Status	Status
Evaluate City Waste Contract for provision of single stream recycling carts to all residential customers, frequency of waste collection service, and Pay As You Throw model.	Complete
Evaluate residential and commercial recycling incentive rewards programs	In Progress
Evaluate requirement for commercial and multifamily recycling service	Complete
Promote Commercial, Multi-Family and Construction & Debris recycling case studies.	In Progress
Promote composting case studies	In Progress

2017 Projects
Promote Commercial, Multi-Family and Construction & Debris recycling case studies.
Promote composting case studies
Evaluate residential and commercial recycling incentive rewards programs
Provide annual Hazardous Waste and Electronic Waste events
Increase recycling to all city owned facilities and parks.

The City of Winter Park Sustainability staff members relayed recommended strategies and were involved in the development of the 2016 waste collection RFP from the beginning stages. A waste workshop was held with the Keep Winter Park Beautiful and Sustainable advisory board members and the priorities determined at these meetings included

- Free recycling carts for residential customers
- Terms that include the strategies and opportunity of moving to 1-1-1 pickup schedule (long term goal)
- Organics collection (long term goal)
- Free or low cost multifamily recycling infrastructure
- Reporting of all recycling and waste numbers, including contamination audits, for tracking and targeted educational purposes. Includes non-Wastepro recycling haulers.
- Implement residential recycling incentive program

In celebration of America Recycles Day, November 15, 2106, the City of Winter Park Mayor and he Orlando International Airport's Chief Operating Officer were joined by leaders from Whole foods, Subaru, Rollins College, FDEP, U.S. Green Chamber of Commerce, American Sustainable Business Council, Valencia College, and Walt Disney World to share that, together, they are joining the standardized label movement to help residents, visitors, customers, students, employees... and overall communities recycle properly.

In 2010, Recycle Across America (RAA), a 501(c)(3) nonprofit, developed the first and only society-wide standardized labels for recycling bins to make recycling less confusing for the general public. Confusion at the bin leads to millions of tons of garbage being thrown into recycling bins each day, which increases the costs associated with processing the recyclables and harms the viability of recycling. There are currently over 1.25 million RAA labels across the U.S. In areas where the labels have been implemented there have been significant improvements in recycling and cost savings. During the first year of using the standardized labels in public K-12 schools throughout Orange County, Fl., for example, the school district experienced a 90 percent increase in recycling levels and saved nearly \$370,000 in landfill hauling fees.

City of Winter Park embraces that their involvement in the standardized label movement is part of a larger success story in Florida and across the U.S. that has been evolving within the past couple years thanks to the leadership of so many others who have been advancing this critical recycling solution. In fact, Central Florida has become the very first region in the country to launch a monumental and comprehensive effort of government, travel, commerce, education and tourism all coming together for one purpose: to make recycling easy for its community. It is the intention that participation with Recycle Across America will be instrumental in breaking through the 15% diversion rate and continuing progress toward the state of Florida 75% diversion rate goal that was set for 2020. KWPB and sustainability staff are also committed to continuing as the go to resource for commercial and residential recycling education .

Actress Joelle Carter took time out of her filming in Chicago to join the event and share her support of this mission and to congratulate central Florida on the monumental progress. We are proud to be the first city utilizing the standardized Recycle Across America labels for residential roll out carts. Each residential home in Winter Park received new solid waste and recycling carts at the end of



October 2016 which display the standardized labeling. Participation in the RAA program is a natural fit as a strategy that supports the City Sustainability Action Plan objective of increasing local recycling rates and meeting the Florida statewide goal of 75% landfill waste diversion by 2020.

HHWD

household hazardous waste dropoff

Household Hazardous Waste Collection events are a service provided by the City to residential customers on a biannual basis. The City of Winter Park, in partnership with Waste Pro® for household hazardous waste and A1 Assets, Inc., for e-waste. The following items are

accepted: fertilizers & pesticides, antifreeze, propane tanks, paint thinners, wet latex paint (dry latex paint is not hazardous waste and can go in trash), oil based paint (can be wet or dry), non-alkaline batteries (regular alkaline batteries can go in trash), gasoline, used engine oil, pool chemicals, household chemicals, tires (maximum of four), used motor oil, and e-waste (computers, televisions, VCRs, DVD players, FAX machines, CD players & stereos). In 2016 a total of 16,802 pounds (8.4 tons) of Electronics were diverted from the landfill through these efforts.

Mobility & Urban Form

Category		Indicator	2012 Baseline	2016	2020 Target	2030 Target
Mobility & Urban Form	MUF1	Vehicle Miles Traveled	In development	In development	10% less	20% less
	MUF2	Certified Green Neighborhood Development	0 certified	0	2	All redevelopments achieve green certification
	MUF3	Electric Charging Stations	6	6	Increase	Increase
	MUF4	Walk Score	55	47	70	80
	MUF5	Transit Score	In Development	In Development	-	-
	MUF6	Bike Score	In Development	In Development	-	-

2016 Project Status	Status
Evaluate expanding bus service and consider Flex Bus for increasing service to Sunrail station.	Complete
Calculate Vehicle Miles Traveled (VMT) and GHG emissions as a result of VMT at select intersections	Complete
Evaluate Car Share through a third party vendor as part of a regional wide program in conjunction with SunRail.	Complete

2017 Projects
Evaluate Transportation Plan with regards to SunRail, safe routes to schools, Complete Streets and regional projects such as trails.
Encourage private developments to increase safety and ease of walking and cycling through site plan review process with recommendations from project design checklist.
Evaluate Bike Share through a third party vendor as part of a regional wide program in conjunction with SunRail.

A complete streets resolution was put into effect in 2007, and 2016 was a hallmark year in which the first project to undergo a Complete Streets project was put into action for Denning Drive. Notable for 2016 is the fact that the City of Winter Park Walkscore has increased 2 points since last year, but is still 8 points behind the 2012 baseline. This is expected to continue to upswing through efforts such as the Denning Drive Project, where walkability is factored into the redevelopment.

The Winter Park Commute Challenge is an annual event in December, which was expanded in 2016 from City Hall participation to include an open invitation to all Winter Park employers and commuters. Teams were formed in collaboration with Florida Department of Transportation's Rethink Your Commute program (www.rethinkyourcommute.org), this event provides



commuters to the Park Avenue area with a friendly competition regarding commuter options and also incentives, including a chance to win a prize for “trying out” an alternative commute for the day, including Sunrail, carpool, bicycle, and walking. A launch event was hosted by the Chamber of Commerce during the December “ Good Morning Winter Park”, where a panel of speakers talked about their experiences with

alternative commuting. 2016 saw a record number of participants, with **43 participants** from **10 Winter Park employers** for logging a total of **308 commute trips**!

The City of Winter Park Public Works Department funded the logistics design of a bicycle wayfinding system to direct cyclists throughout the city limits of Winter Park. The Transportation Advisory Board (Pedestrian and Bicycle Advisory Board at the time) held special work sessions with a consultant to establish City districts, select significant destinations, choose the best routes, and determine the sign format to convey the directions to the cyclists. Districts, locations, travel times, and distances are included on the directional signs. A complete logistics plan was developed and documented. It includes approximately 300 bicycle wayfinding signs.

A pilot project for a portion of the bicycle wayfinding system will be implemented in early 2017. This signed wayfinding route will connect the Cady Way Trail to the Mead Botanical Gardens. This project will be monitored for feedback on the informational signs provided primarily for the cyclists but it can work for pedestrians as well.

Acomb, Ostendorf & Associates (AOA) is Winter Park's first Best Workplace for Commuters (BWC). AOA received this national designation by offering 100% employer subsidized monthly SunRail passes, giving employees access to their free internal bikeshare program, and promotion of a flexible work schedule, along with additional office perks! reThink presented this award to AOA at a Winter Park Transportation Advisory Board meeting October 9, 2016.

Buildings, Energy and Water

Category	Indicator	2012 Baseline	2016	2020 Target	2030 Target
Buildings, Energy and Water	BEW1 Residential Energy Audits Performed Annually	152	103	150	150
	BEW2 Residential Rebates Administered Annually	95	116	100	100
	BEW3 Commercial Buildings Benchmarked	0	15	100	500
	BEW4 Percentage of WPEU energy portfolio from renewable and clean alternative sources	1.9%	FPL 44% natural gas OUC 18% natural gas GRU 19% Bio mass Covanta 19% waste to energy	40%	60%
	BEW5 Residential Potable Water average annual average	178.018 MG	172.542 MG	5% less	15% less
	BEW6 Community Wastewater (gallons)	0.968 MG	0.642 MG	5% less	15% less
	BEW7 Percentage of water from reclaimed sources	In Development	In Development	5% more	15% more
	BEW8 Percentage of buildings meeting City of Winter Park green building standards	1%	1%	25% new construction	50% new construction and major renovations

2016 Project Status	Status
Increase promotion of existing Energy & Water Conservation opportunities such as audits and rebates.	Complete Utility bills, online
Publicize funding opportunities to help property owners finance green building projects, energy efficiency upgrades and renewable energy.	Complete PACE press release, insert in audit kits
Establish energy benchmarking and disclosure policy.	In Progress for 2017
Provide Green Building Education to appropriate city staff, realtors, and private builders.	In Progress Sessions provided for REALTORS in 2016
Create and maintain an electronic database of all building energy code compliance, green certifications and energy ratings within the City of Winter Park	In Progress for 2017

2017 Projects
Increase promotion of existing Energy & Water Conservation opportunities such as audits and rebates.
Publicize funding opportunities to help property owners finance green building projects, energy efficiency upgrades and renewable energy.
Establish energy benchmarking and disclosure policy.
Provide Green Building Education to appropriate city staff, realtors, and private builders.
Create and maintain an electronic database of all building energy code compliance, green certifications and energy ratings within the City of Winter Park
Explore opportunities for new buildings and major remodels achieve green building standards through updated building codes with minimum HERS rating for residential and ENERGY STAR for non-residential
Develop measures to discourage building destruction and encourage building design for long term use.
Increase promotion of Green Building Case Studies to residents, potential residents, home builders, and contractors.
Develop a plan for converting streetlights and public space lighting to LEDs.
Review water utility rates to ensure inverted rate structure is adequately discouraging overuse of water.

Energy consumption reduction at the residential and municipal levels was a focus for 2016. A Measurement and Verification Plan for several municipal facilities was researched and developed under contract with Hanson engineering, and will be the basis for several 2017 projects, including installing additional monitoring equipment and establishing a revolving loan fund that would reinvest savings from energy efficiency into future energy efficient projects.

In 2015, in collaboration with the Orange Audubon Society, City staff replicated a proven Orange County homeowners energy efficiency program and with \$64,000 in grant funds provided by Toyota Together Green and retrofitted almost 40 homes, 5 churches, and one day care/nursery facility on the west side of Winter Park. Attic Insulation, duct repair, window film, and LED lighting are examples of upgrades that were completed by local contractors at no cost to the participants. As a part of this grant reporting process, staff will be calculating kwh savings as compared to participant baselines to determine if the 10% minimum savings have been achieved. These results will be available in 2017, and hope to inform future projects and assist with additional grant funding. Early analysis is showing an average 7% savings for average participants who installed at least one in home upgrade through the grant.

The Winter Park Electric Utility Conservation Rebate Program is administered by sustainability staff. Rebates are offered solely for insulation and duct repair, which have been shown to be the highest return on investment (ROI) upgrades that can truly be incentivized through our program. Residents are encouraged to get an audit to qualify for the rebates, and all rebates are issued as bill credits to reduce turnaround time and administration of paper rebate checks. The commercial audit and rebate program remains on indefinite hold and will be reevaluated if and when conservation funding is increased.

The City of Orlando and the City of Winter Park are submitting as a joint application to host a SolSmart Community Advisor that will assist with the internal coordination, implementation, and documentation of solar strategies that are consistent with those outlined in the “Bronze to Gold” roadmap created by the City of Orlando. With both Orlando and Winter



Park slated to hold Bronze designation by the next advisor cycle, these communities are poised to help set a regional standard of excellence for Solar Access. However, several barriers have been identified by city staff and it has been determined that resolution of these barriers would be regionally beneficial. FSEC, the Florida Solar Energy Center, has been engaged as an additional organizational partner for our joint SolSmart application. The main responsibilities of the center are to conduct research, test and certify solar systems, and develop education programs. FSEC reviews and certifies all solar project designs in the State of Florida before municipal review can begin. The Orlando/Winter Park hosted SolSmart Advisor will also be assisting FSEC to implement regional and statewide policy, process, and training improvement strategies.

Natural Resources & Systems

Category		Indicator	2012 Baseline	2016	2020 Target	2030 Target
Natural Systems & Resources	NSR1	Tree Canopy Coverage	55%	53%	55%	60%
	NSR2	Greenspace Coverage	57%	56%	57%	60%
	NSR3	Greyspace	43%	44%	43%	40%
	NSR4	Lakes Water Quality- Visibility Depth	2 meters	2 meters	2.5	3 meters
	NSR5	Residents living within a half mile of public greenspace	95%	95%	95%	95%

2016 Project Status	Status
Continue aquatic plant management.	Complete
Work towards establishing a Green Infrastructure Plan addressing stormwater with light impact development best management practices including Rain Gardens, Bio-Swales, Green Streets and Green Roofs that also serve as amenities.	In Progress

2017 Projects
Continue aquatic plant management.
Work towards establishing a Green Infrastructure Plan addressing stormwater with light impact development best management practices including Rain Gardens, Bio-Swales, Green Streets and Green Roofs that also serve as amenities.

Several water quality improvement projects and maintenance events were completed which will continue to benefit the water clarity and ecological health of the city lakes and waterways. The Lake Killarney phosphorus deactivation project involved the use of aluminum sulfate (alum) to bind phosphorus contained in the lake's sediments and prevent it from recycling into the water column where it can fuel algae blooms. Prior to this project, approximately 60% of the phosphorus entering the water column in Lake Killarney came from the sediments. Alum is also used to remove phosphorus from stormwater runoff and the city recently upgraded its alum treatment stations on Lakes Virginia and Osceola to improve reliability and efficiency.

Regular and frequent inspections on stormwater retrofit structures are necessary in order to maintain proper function and debris collection. This year, 851 inspections were performed with 364 maintenance events that removed a total of 337 cubic yards of sediment, litter, grass clippings, sticks/branches, etc. from the stormwater systems and prevented their dispersal into the lakes. The small fences adjacent to outfall pipes in some lakes are designed to catch litter and debris that washes in from the surrounding neighborhood streets. A total of 375 inspections were performed on these outfall traps, and 371 cleanings resulted in the removal of 100 cubic yards of debris.



Greenspace coverage is currently 56%, down 2% due to development reducing the % of available greenspace, and Tree Canopy Coverage is calculated to be down 1% due to high risk tree removals, which is a normal maintenance activity. The city's urban forest consists of over 75,000 trees on private and public property and there are over 22,000 trees in city rights of way. Urban forestry gave away over 1500 trees throughout the year for

planting on private property encouraging species diversity. Urban forestry continues to promote "Right Tree Right Place" concepts and community outreach and education. In addition, Urban forestry planted over 600 trees in right of ways, parks, and parkland in FY2016. The canopy coverage should increase quickly. Of note was the fact over 60 residents declined the planting of right of way trees adjacent to their home. A complete inventory of the right of way trees was accomplished in 2016.

Local Food & Agriculture

Category		Indicator	2012 Baseline	2015	2020 Target	2030 Target
Local Food & Agriculture	LFA1	% of Residents within 1/2 mile of local/healthful food assets (community gardens, urban farms, CSAs, Farmer's Markets, Grocery Stores and restaurants offering locally grown food)	<i>In Development</i>	<i>In Development</i>	50	100%
	LFA2	Local Food Consumption Baseline (meals at home)	21.8% (<i>Current metric for statewide consumption, city baseline in development</i>)	<i>In Development</i>	40%	60%

2016 Project Status	Status
Participate in regional Food Policy Council.	Complete
Create a map identifying additional city-owned locations for edible landscaping.	On Hold
Continue supporting existing Community Garden	In Progress

2017 Projects
Participate in regional Food Policy Council.
Continue supporting existing Community Gardens

**no cash...
no problem**

● using our
● Farmers' Market
● Tokens are a SNAP!

**visit our welcome
table for more info**

Through grants from Healthy Central Florida, the Winter Park Health Foundation, and the Florida Organic Growers Association (FOG), the City of Winter Park is working to create the first organized SNAP (Supplemental Nutrition Assistance Program) in Central Florida. Gabby Lothrop of Gather and Grow, LLC (Audubon Park Farmers Market) will be administering the program on behalf of both of the markets, replicating an evidence based approach that essentially mimics an ATM and minimizes coordination efforts from individual markets and opens the SNAP and EBT

benefits to a wider customer base. Cities that have implemented this type program have seen significant increases in sales at farmers markets. This comprehensive program will be marketed for both markets, and the tokens that users receive at the booth will be good for produce and other non-prepared goods. Matching funds and "double points" from the FOG "Fresh Access Bucks" programs will also increase the affordability of local and organic options for lower income households that require assistance benefits.



Community gardens are alive and well in Winter Park. Rollins College EcoRollins students have an on campus garden. Both the Community Center and Mead Gardens locations are at full capacity and report a bountiful harvest of flowers, herbs, and vegetables throughout the year. These plots allow those without a yard to grow plants for personal use, and also provide educational and social activities for youth, adults, and seniors in our community.

Through a resident generated request, the KWPB&S board reviewed a proposal to revisit the topic of backyard chickens in Winter Park. Several surrounding municipalities, including Orlando and Maitland, currently offer the ability for residents to keep up three hens as pets as a source for fresh eggs. The KWPB board unanimously voted to draft a proposal and bring it forth for review to the City Commission in 2016. This proposed pilot was not approved for review by the City Commission at this time, and will be put on hold indefinitely unless enough resident interest is generated to revive the project.

Local Government Operations

Category		Indicator	2012 Baseline	2016	2020 Target	2030 Target
Local Government Operations	LGO1	Local Government GHG Emissions	11,473 metric tons	Not measured at this interval	20% less	50% less
	LGO2	Energy usage	12,153,788 kWh	10,338,772 kWh	10% less	25% less
	LGO3	Renewable Energy Production	1.6%	.07%	6.6%	11.6%
	LGO4	City Fleet Fuel Usage	Unleaded: 151,971 gal	Unleaded: 161,167 gal	25% less	50% less
			Diesel: 82,196 gal	Diesel: 80,163gal		
	LGO5	Potable Water Usage	49.543 MG	28.805 MG	25% less	50% less
	LGO6	City Employees using transit, carpooling, cycling or walking to work	In Development	In Development	Increase	Increase

2016 Project Status	Status
Continue monitoring city buildings' energy and water usage through ENERGY STAR Portfolio Manager.	Complete
Explore establishing a Revolving Energy Efficiency Loan Fund for city owned buildings and infrastructure.	In Progress
Conduct energy audits for all city owned facilities	In Progress (6 buildings completed)

2017 Projects
Continue monitoring city buildings' energy and water usage through ENERGY STAR Portfolio Manager.
Explore establishing a Revolving Energy Efficiency Loan Fund for city owned buildings and infrastructure.
Continue conducting energy audits for all city owned facilities

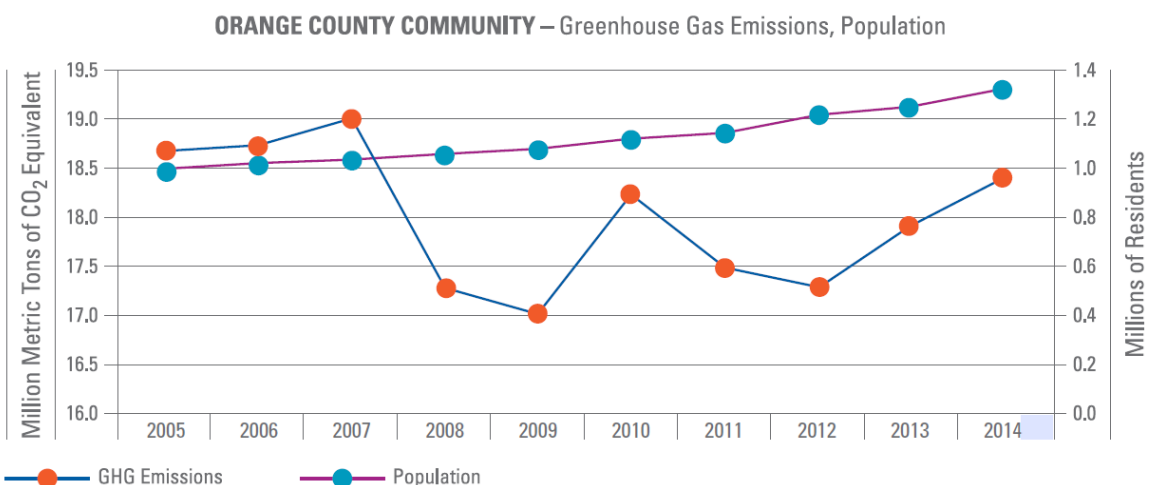
Based upon suggestions from the 2015 Crummer School of Business student project, 2016 saw the formation of an employee driven Green Team, which is a voluntary subcommittee of the Employee Committee, led by sustainability staff but holding representatives from a variety of city positions. It is the initial goal of the green team to use the day-to-day operational knowledge of these staff members to create a list of short, medium, and longer term goals for projects that will have a monetary benefit to the city, with a primary focus on energy, water, and waste reduction. 2016 energy consumption was approximately 15% below the 2012 baseline, which is significant progress exceeding the 10% reduction goal set for 2020. This has in effect saved the city over \$100,000 in energy cost based upon .06/kwh pricing. The largest municipal energy consuming building in the City of Winter Park portfolio is the Water Treatment facility, which is outside of city limits and billed by Duke Power. Sustainability staff continues to research possible alternatives to help save city dollars, including energy audits and also possible on-site renewable energy installations to offset the kWh consumption.



coming year.

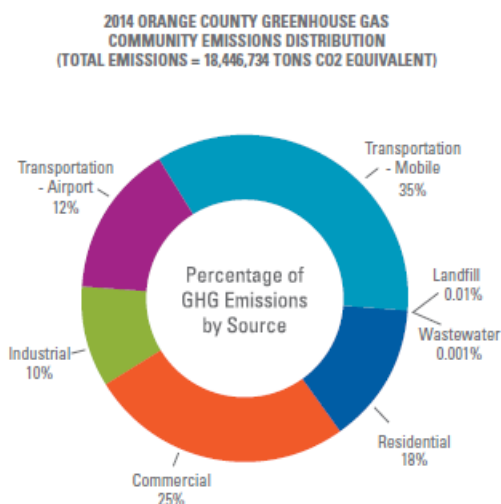
The City's Visioning and Comprehensive Plan review process was completed in 2016, with a solid focus on increasing the overall sustainable footprint of the city now and into the future. One area of note was a lack of reference to the subject of Local Food or urban agriculture in the Comprehensive Plan. It was the suggestion of the Keep Winter Park Beautiful and Sustainable Advisory Board that verbiage be added to the Plan upon revision, which falls in line with the findings of other local municipal governments are currently undergoing similar exercises. Orlando and Orange County are also planning to add language to further define stances on Local Food and urban agriculture in the

Community Greenhouse Gas (GHG) Inventories



In 2014, the Orange County Community saw a 2.5% increase in GHG emissions from 2013. However, this is still a 1.9% decrease since the baseline 2005, despite a 20% increase in population since 2005.

In Orange County, the community generates GHGs by burning fossil fuels and by consuming electricity that is produced using coal and natural gas. Almost half (47%) of the GHG emissions in Orange County are from combustion of gasoline, diesel, and jet fuel. The other half of the GHG emissions in Orange County are from energy used by residential, commercial and industrial users. There are some GHGs associated with treatment of water and wastewater, but they are negligible compared to the GHGs generated by consumption of fossil fuels and electricity.



Excerpt from Orange County 2016 Our Home for Life Annual Report, available at www.ocfl.net

RECOMMENDATIONS AND CONCLUSIONS

Looking forward to 2017, KWPB sponsorship and project funding will be a priority goal as the majority of our success is dependent upon financial support. While we do source a significant amount of funds from grants, fundraising, and sponsorships, securing annual, steady resources from the City will help to stabilize our program. Earth Day, Keep Winter Park Beautiful, and Winter Park Blooms will continue to be the main avenues for the Sustainability Program to provide consistent communication and branding in the community with regards to beautification and natural resource preservation.

Marketing and community outreach are fundamental to the continued success of the Sustainability program, and will be implemented from both a resident and employee perspective. Earth Day is the main outreach event, celebrating Winter Park and all of the integrated departments that have a hand in making Winter Park the best place in Florida to live, work, and play. Resident awareness will be conducted through communication mainstays such as social media, bill inserts, and the city newsletter, along with occasional Press releases and positive media coverage. Employee awareness through green team projects will focus upon implementation of short term, high Return on investment projects from a grassroots committee, hopefully building the concept of sustainability further into the employee culture. The “Sustainability Roadshow” to different departments will begin in Q1 of 2017, and recycling infrastructure installation for all departments is underway. It is our intention for 2017 to begin a small quarterly sustainability update to staff in the employee e-news.

With the launch of the new waste contract having occurred in October of 2016, recycling education will be the primary responsibility of our department for 2017 and will require staff and monetary resources, along with targeted awareness campaigns and communication of how to recycle often and recycle right. The sustainability office will also be focused on monitoring local haulers under the new registration and reporting requirements, and measuring the increased reporting impacts on the overall diversion rate for the city.

Solar energy and the expansion of solar photovoltaic systems and offerings within the city and that are available for purchase by the city will continue to be explored as a priority for supplying Winter Park’s electricity needs. With the recent successful adoption of the BEWES Benchmarking and Disclosure Policy in the City of Orlando, city staff intends to propose a similar ordinance for Winter Park in accordance with Action Plan project goals.

A copy of the 2017 Sustainability Program budget is attached as an appendix.

Revenue

Item #	Priority	Category	Title	Details	Outside Funding Sources	Outside Funding Amount
10a		CEGE	Earth Day	event	City General Fund	\$25,000.00
40a		BEW	Energy Conservation Program	energy auditor training	Electric Utility	
70a		NRS	KWPB	FDOT/KAB grant	FDOT	\$15,000.00
80a		CEGE	Earth Day	event	Fundraising	\$10,000.00
90a		LFA	food access	farmers market- SNAP	Healthy Central FL	\$2,000.00
100a		NRS	KWPB	volunteer events/Litter Prevention (GAC)	Public Works	\$10,000.00
				provide recycling education-research residential and com recycling incentives,commercial recycling - promote and assist, com., multi fam, C&D recycling case studies, composting pilot and case studies	Waste Company	\$25,000.00
120a		WDR	Recycling			
140a		NRS	KWPB	green schools grant	WPGC	\$2,000.00
210a		BEW	SAP	revolving energy efficiency loan func		\$0.00
220a		BEW	GUEP	community solar		\$0.00
400a		NRS	SAP	Partners for Places Grant		
Total						\$89,000.00

Expenses

Item #	Priority	Category	Title	Details	Column1	Budget
20b		BEW	Historic Preservation	historic preservation- colliquium		\$0.00
30b		BEW	WPHEEP	WPHEEP for historic homes		\$0.00
40b		BEW	Energy Conservation Program	energy auditor training		
100b		BEW	SAP	revolving energy efficiency loan func		
110b		BEW	GUEP	community solar		
120b		BEW	GUEP	LED street lighting		
130b		BEW	SAP	green building education		\$2,000.00
140b		BEW	SAP	energy benchmarking and disclosure policy		\$0.00
150b		BEW	EV charging	additional units		\$0.00
170b		CEGE	workplace challenge			\$1,000.00
190b		CEGE	Marketing Plan for Sustainability	marketing, fundraising, etc		\$5,000.00
200b		CEGE	Earth Day	event		\$20,000.00
220b		LFA	food access	farmers market- SNAP		\$4,000.00
230b		LFA	Community Gardens	Mead, Community Center, Senior Center		\$0.00
280b		LGO	SAP	monitor city buildings in energysta		\$0.00
290b		LGO	KWPB	operational costs		
300b		LGO	SAP	sustainability videos- interna		
320b		MUF	SAP	increase downtown bike storage		\$0.00
360b		NRS	SAP	Partners for Places Grant		\$0.00
370b		NRS	KWPB	America in Bloom		\$5,000.00
380b		NRS	KWPB	volunteer events/Litter Prevention (GAC)		\$10,000.00
390b		NRS	KWPB	FDOT/KAB grant		\$15,000.00
400b		NRS	KWPB	green schools grant		\$2,000.00
410b		WDR		HHW Day		\$0.00
420b		WDR	Recycling	Organics collection pilot		\$0.00
				provide recycling education-research residential and com recycling incentives,commercial recycling - promote and assist, com., multi fam, C&D recycling case studies, composting pilot and case studies, recycling bins for public areas (parks, etc), Litter Prevention Education/Waste in Place		\$25,000.00
430b		WDR	Recycling			\$25,000.00
440b		WDR	SAP	waste contract		\$0.00
Total						\$89,000.00