



2017

SUSTAINABILITY ACTION PLAN ANNUAL REPORT

Prepared by:
Vanessa A. Balta Cook, Sustainability and Permitting Planner
Kris Stenger, Assistant Director of Building & Permitting & Sustainability
City of Winter Park's Keep Winter Park Beautiful & Sustainable Advisory Board

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 third 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.

Table of Contents

Executive Summary	3
Guiding Commitments.....	4
Buildings, Energy and Water	5
Community Engagement & Green Economy.....	9
Local Food & Agriculture.....	12
Local Government Operations.....	14
Mobility & Urban Form.....	16
Natural Systems & Resources.....	19
Waste Diversion & Recycling.....	21
Recommendations and Conclusions.....	23
Appendix	
A. Orange County Community Greenhouse Gas Inventory.....	24
B. KWPB 2018 Budget Spreadsheet	25

Executive Summary

2017 will be looked at as a year of transition for the City of Winter Park Sustainability Program. This transition comes from both internal and external forces. At the end of the year we find lessons learned and successes gained as the Program maneuvers through these transitions.

2017 marked the first complete year under the new solid waste franchise agreement. Expectations for increased waste diversion rates were anticipated through new single stream recycling containers adorned with standardized labeling. Results have increased but not to the levels desired or near the state and SAP adopted goals. This result was compounded with rate changes at the Orange County Materials Recovery Facility in July. Yet, 2017 did bring about the awarding of the Beyond 34 Program to the City of Orlando which Winter Park and Orange County are excited to collaborate in over the upcoming year.

Positive momentum in renewable energy goals were seen through the year. The City of Winter Park was recognized with a Silver Certification by the Department of Energy's Solsmart Program for improved streamlining of private solar projects. The City Commission also approved funding towards further solar installations on city facilities.

Through a grant from the Winter Park Health Foundation the City was able to institute SNAP/EBT at the Winter Park Farmers Market. This marks a great step towards making healthy, locally sourced foods available to lower income families in Winter Park. Following on the footsteps of this grant the City was awarded a grant for 2018 focusing on promoting a Meatless Monday initiative.

Finally, Keep Winter Park Beautiful continued to shine in 2017. The City of Winter Park received recognition for the "Coolest Downtown" from America in Bloom Judging and placing the City within the Circle of Champions. Efforts in Parks, Urban Forestry, Lakes, Historical Preservation, and volunteer events were all instrumental in bringing about this recognition.

Looking towards 2018 several key indicators are starting to come into focus with 2020 goals on the horizon. With 2017 as an indicator 2018 will require a heavier lift to make these goals a reality.

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.



BUILDINGS, ENERGY AND WATER

The City is committed to reducing the environmental consequences of the construction, reconstruction and operation of buildings and infrastructure, with a focus on energy and water conservation.



BEW-1: Residential Energy Audits Performed Annually

BEW-2: Residential Rebates Administered Annually

The residential and commercial building sector accounts for over a third of the carbon dioxide (CO₂) emissions in the United States per year, more than any other sector. Most of these emissions result from the combustion of fossil fuels that heat, cool, and light buildings, and power appliances and other electrical equipment. In 2017, the Sustainability Program conducted an analysis of the city's 2015 Toyota Together Green/Orange Audubon Society Grant Project. Findings suggested that the project's energy efficiency retrofits were able to meet project goals of energy usage reduction (kWh), greenhouse gas emissions, and at least a 10% reduction in billed electricity usage for participants. A variety of smaller return audits and rebates

reported in 2012 have to date been sunsetted. Today, the Winter Park Electric Utility Conservation Program, administered by Sustainability Program staff, is focused on providing all Winter Park residents with residential energy audits, energy conservation kits, and rebates for insulation upgrades and duct repairs, which are capable of providing a larger number of residents with a higher return on investment.

Targeted Outreach: Residents

SAP INDICATOR PROGRESS

	2012	2017	2020 target	2030 target
BEW-1	152 audits	74 audits	150 audits	150 audits
BEW-2	95 rebates	23 rebates	100 rebates	100 rebates

BEW-3: Commercial Buildings Benchmarked

Nearly 17 percent of the United States' emissions of greenhouse gases (GHGs) result from energy used in commercial buildings. In June 2017, the City of Winter Park, became a participant and sponsor of the Central Florida Energy Efficiency Alliance (CFEEA) Central Florida Battle of the Buildings (CFBOTB). Commercial building owners across Central Florida competed against one another and received recognition for reducing energy and water usage in their buildings between July 2017 and December 2017. The Winter Park Sustainability Program provided Winter Park building owners with easy to upload spreadsheets of their energy and water usage, and technical assistance on how to navigate ENERGY STAR Portfolio Manager®. The City is committed to participating in the 2018 CFBOTB, which will extend the competition through December 2018.



Targeted Outreach: Winter Park Businesses, Churches, Colleges, and Public Facilities

SAP INDICATOR PROGRESS

	2012	2017	2020 target	2030 target
BEW-3	0 buildings	22 buildings	100 buildings	500 buildings



BEW-4: Percentage of Winter Park Electric Utility energy portfolio from renewable and clean alternative sources

Setting renewable energy goals can help increase local demand for renewable technologies, reduce pollution, spur economic development, and result in cost savings for consumers. In late 2017, the City submitted its application for SolSmart Silver designation, the national designation program designed to recognize communities that have taken key steps to address local barriers to solar energy for both residential and commercial consumers and foster the growth of mature local solar markets. In addition to encouraging solar installations for residents and businesses, the City continues to explore options for solar installation at city facilities and purchased solar energy for municipal operation and community-wide use.

Targeted Outreach: Residents and Businesses

SAP INDICATOR PROGRESS

	2012	2017	2020 target	2030 target
BEW-4*	1.9%	21.8%	40%	60%

*Assumes 100% of energy coming from waste to energy source is renewable; assuming 51% of total energy is derived from biogenic component of waste: BEW-4=12%

BEW-5: Residential Potable Water Annual Average, BEW-6: Community Wastewater, BEW-7: Reclaimed Water Availability

Water is a finite resource – even though about 70 percent of the Earth’s surface is covered by water, less than 1 percent is available for human use. Winter Park water utility serves customers in a 22-square-mile area which includes the city limits and portions of unincorporated Orange County. Of the total water treated and distributed throughout the system, 25 to 30 percent is used for irrigation. That equates to over one billion gallons of highly-treated drinking water being sprayed on yards and landscaping annually. The Winter Park Water Utility Conservation continues to stress the importance of water conservation, providing residents with free irrigation system audits, controller adjustment consultations, and rebates for high-efficiency washing machine and toilet upgrades.

Targeted Outreach: Residents



SAP INDICATOR PROGRESS

	2012	2017	2020 target	2030 target
BEW-5	178.018 MG, potable water	180.575 MG	5% less	15% less
BEW-6	0.968 MG, wastewater	0.699 MG	5% less	15% less
BEW-7	In Development	In Development	5% more	15% more



BEW-8: Green Building Standards in Winter Park

Green building rating and certification systems such as Leadership in Energy and Environmental Design (LEED), and the Florida Green Building Coalition (FGBC) Standard, require that projects are environmentally responsible and resource-efficient throughout a building’s life-cycle: from siting to design, construction, operation, maintenance, renovation, and demolition. The City of Winter Park continues to explore policies and programs that encourage green building standards. In 2017, the Sustainability Program, working with Building and Urban Forestry departments, presented language to be adopted to the Tree Preservation and Protection code update that would promote the adoption of green building standards by including green building certification as one condition for approval of a tree removal permit.

Targeted Outreach: Residents and Businesses

SAP INDICATOR PROGRESS

	2012	2017	2020 target	2030 target
BEW-8	1%	1%	25% of new construction	50% of new construction and major renovations

2015-2017 Buildings, Energy, & Water SAP Actions Status Report

Action	Status	Comments
Increase promotion of existing Energy & Water Conservation opportunities such as audits and rebates. Lead Department: Building, Communications	Completed	Sustainability Page updated to provide an online request form for energy audits and rebates and to link residents to water conservation audits and rebates. 2018 Priorities: Promote on Social Media, Sustainability Pledge
Publicize funding opportunities to help property owners finance green building projects, energy efficiency upgrades and renewable energy. Lead Department: Building, Finance, Electric Utility	Completed	Property Assessed Clean Energy (PACE) provider information now available on Sustainability Page and energy audit kits. 2018 Priorities: Promote PACE providers' workshops
Establish energy benchmarking and disclosure policy. Lead Department: Building, Planning	In Progress	Building owners are being encouraged to participate in voluntary benchmarking through the Central Florida Battle of the Buildings (CFBOTB). 2018 Priorities: Review Green Works Orlando's BEWES
Provide Green Building Education to appropriate city staff, realtors, and private builders. Lead Department: Building	In Progress	Provided workshop during Building Safety Month 2018 Priorities: Provide workshops for city staff 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 Lead Department: Building	In Progress	Project Directories for Leadership in Energy and Environmental Design (LEED) and Florida Green Building Code (FGBC) are available on their respective websites. 2018 Priorities: Identify and catalogue other green building certifications in use
Explore opportunities for new buildings and major remodels to achieve green building standards through updated building codes with minimum HERS rating for residential and ENERGY STAR for non-residential. Lead Department: Building	In Progress	2018 Priorities: Work with Building Department to determine needed policy updates
Develop measures to discourage building destruction and encourage building design for long term use. Lead Department: Building	In Progress	2018 Priorities: Work with Building Department to determine needed policy updates
Increase promotion of Green Building Case Studies to residents, potential residents, home builders, and contractors. Lead Department: Building, Communications	In Progress	2018 Priorities: Work with Building and Communications Departments to identify and promote case studies
Develop a plan for converting streetlights and public space lighting to LEDs. Lead Department: Building, Electric Utility	In Progress	2018 Priorities: Work with Building Department and Electric Utility to develop plan. Possible grant funding available this coming year.
Review water utility rates to ensure inverted rate structure is adequately discouraging overuse of water. Lead Department: Water & Wastewater Utility	In Progress	2018 Priorities: Work with Water & Wastewater Utility to evaluate rate structure

2018 Buildings, Energy, & Water SAP Actions

Action
Recognize net zero energy/ carbon neutral new buildings and homes; Lead Department: Building
Create rebate and/or code for utilization of electric vehicle charging for renovated and new buildings; Lead Department: Electric Utility, Building
Develop policy and rebate addressing and incentivizing residential and commercial gray water & rain water reuse; Lead Department: Building, Water & Wastewater Utility



COMMUNITY ENGAGEMENT & GREEN ECONOMY

The City is committed to encouraging residents, business owners, schools and local organizations to begin incorporating more sustainable solutions in their daily activities.



CEGE-1: City wide Carbon Footprint in GHG Emissions (electric, transportation, solid waste)

Daily activities like turning on the air conditioner or stove at home, driving a car to work, school, or play, and disposing of waste, emit greenhouse gas (GHG) emissions. The City continues to explore ways to help the community conserve energy and water, encourage active travel, and divert waste from landfills.

Targeted Outreach: Residents and Businesses

SAP INDICATOR PROGRESS

	2012	2017	2020 target	2030 target
CEGE-1	397,075	Not Measured at this Interval	25% less	50% less

CEGE-2: Recognized Green Businesses

Fair Trade businesses enable economic development through equitable trading partnerships. Fair Trade ensures consumers that the products they purchase were grown, harvested, crafted and traded in ways that improve lives and protect the environment. In 2017, there were 17 businesses throughout Winter Park that promoted and supported fair trade products. These businesses are recognized in the Community Engagement & Green Economy section of the City's Sustainability Program Page and Fair Trade Campaigns (fairtradecampaigns.org) Town Listing.



Targeted Outreach: Businesses

SAP INDICATOR PROGRESS

	2012	2017	2020 target	2030 target
CEGE-2	0 recognized businesses	17 recognized businesses	25 % recognized businesses	50% recognized businesses

CEGE-3: Residents taking the Sustainability Pledge



Curbing GHG emissions at the community-level requires a commitment by our residents, business owners, schools, and other local organizations to eliminate habits and personal choices that are wasteful, polluting, and both environmentally and economically costly. The Winter Park Sustainability Pledge asking WVP residents to commit to reducing their impact will be launched in January 2018.

Targeted Outreach: Residents

SAP INDICATOR PROGRESS

	2012	2017	2020 target	2030 target
CEGE-3	0 residents	In Development	50%	100%

CEGE-4: Green School Grant Participants

The Keep Winter Park Beautiful & Sustainable Green School Grant (GSG) program helps support schools serving Winter Park in their efforts to achieve sustainability goals and beautify their campus. In 2017, GSGs helped fund the planting of a lettuce garden to help feed the students' class pets, a butterfly learning garden, outdoor classroom community garden, and a wildflower/pollinators garden. The 2018 GSG will encourage applicants to prioritize categories of the SAP and provide funding for teachers to receive the USGBC Green Classroom Professional Certification.



Targeted Outreach: Schools

SAP INDICATOR PROGRESS

	2012	2017	2020 target	2030 target
CEGE-4	10	4	50%	100%

CEGE-5: KWPB Volunteer Events

As a Keep America Beautiful Affiliate, Keep Winter Park Beautiful (KWPB) is dedicated to providing volunteering opportunities that help our community end littering, improve recycling, and beautify America's communities. Volunteer and educational outreach activities in 2017 included: Quarterly watershed cleanups open to the public, watershed cleanups for community groups (e.g., Brasfield & Gorrie, Mennonite Church USA), Exotic Invasive Snail Removals open to the public and community groups (e.g., Volunteer UCF), and our annual Earth Day in the Park. Thanks to over 600 volunteers, KWPB collected just over 2 tons of debris in 2017!



Targeted Outreach: Residents, Schools, Businesses

SAP INDICATOR PROGRESS

	2012	2017	2020 target	2030 target
CEGE-5	12	12	12	12

Community Engagement & Green Economy 2015-2017 SAP Actions Status Report

Action	Status	Comments
Develop Marketing Plan for Sustainability Lead Department: Communications	In Progress	2018 Priorities: Work with Communications Department to develop plan
Continue Green School Grant program. Lead Department: Sustainability	Completed	Provided \$2,000 in grants 2018 Priorities: USGBC Green Classroom Professional Certification Grants for GSG recipient schools
Explore funding options for maintenance and upkeep of existing Pocket Parks and Community Gardens Lead Department: Sustainability, Parks & Recreation	In Progress	2018 Priorities: Work with Winter Park Blooms, KWPB&S volunteers, and Parks & Recreation Department to coordinate Pocket Park workdays.
Facilitate sustainability education workshops Lead Department: Sustainability, Parks & Recreation	Program suspended	
Continue participation in America In Bloom/ Winter Park Blooms Lead Department: Sustainability	Completed	Awarded a five-bloom rating; a finalist for an Outstanding Achievement Award for Environmental Efforts, and awarded the Special Award for the "Coolest Downtown" 2018 Priorities: Implement 2017 recommendation for 2019 America In Bloom competition
Continue volunteer opportunities including lake cleanups, gardening, and invasive species removal Lead Department: Sustainability, Parks & Recreation, Lakes	Completed	Total tons of litter collected: 1.8 tons; Total lbs of snails & eggs collected: 535 lbs; Total volunteer hours: 1,776; Total volunteer value (@\$23.56/hr): \$36,560 2018 Priorities: Work with Parks & Recreation to provide gardening volunteer opportunities
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 Lead Department: Communications	In Progress	Sustainability Webpage content updated to reflect SAP goals; Sustainability Pledge in development 2018 Priorities: Work with Web Developer to include other features in sustainability webpage

Community Engagement & Green Economy 2018 SAP Actions

Action
Create and install Environmental Education opportunities at parks and green buildings; Lead Department: Sustainability, Parks & Recreation



LOCAL FOOD & AGRICULTURE

The City is committed to promoting a healthy, local and sustainable food system.



LFA-1: Percentage of Residents within 1/2 mile of local/healthful food assets

Public health and urban planning research continue to suggest that elements of the built environment can provide beneficial, as well as adverse impacts on human health that can contribute to unhealthy, sedentary, and high-caloric lifestyles in children and adults. In 2017, the Sustainability Program applied for and became a recipient of a Healthy Central Florida Health Innovation Grant. The grant will go toward leading a Meatless Monday campaign that will encourage Winter Park restaurants schools, and workplaces to promote meatless, plant-rich meals on Mondays. In 2018, the Sustainability Program, partnering with City's Planning & Community Development Department, will inventory and map community gardens, urban farms, CSAs, Farmers Markets, Grocery Stores, and restaurants offering locally grown food to Winter Park residents to determine resident access to local, healthful food assets.

Targeted Outreach: Residents

SAP INDICATOR PROGRESS

	2012	2017	2020 target	2030 target
LFA-1	In Development	In Development	50% of residents within 1/2 mile	100% residents within 1/2 mile

LFA-2: Local Food Consumption

Food policy networks, like Good Food Central Florida, share information and create and support policies and programs that support community-based food systems, emphasizing relationships between producers, processors, distributors, and consumers, helping improve local food security and local economies. The 2015 Trends in US Local and Regional Food Systems Report by the USDA Economic Research Service identified that producer participation in local food systems is growing, and the value of local food sales, both direct-to-consumer (e.g., farmers' markets) and intermediate marketing channels (e.g., sales to institutions or regional distributors), appears to be increasing. In 2017, the Winter Park Farmers' Market saw a total of 2,105 SNAP transactions, with an average of 8 SNAP (Supplemental Nutrition Assistance Program) visitors per market day, with the highest daily SNAP visitor count being 22 and the lowest being 3. In the last year, \$7,694 in Nutrition Incentives (Fresh Access Bucks) were distributed, with a total of \$6,436 redeemed on Florida-grown fruits, vegetables, and edible plants.



Targeted Outreach: Residents

SAP INDICATOR PROGRESS

	2012	2017	2020 target	2030 target
LFA-2	21.8% local of all food purchases for at-home consumption (Orlando Urban Area)	In Development (Winter Park)	40%	60%

Local Food & Agriculture 2015-2017 SAP Actions Status Report

Action	Status	Comments
Participate in regional Food Policy Council. Lead Department: Sustainability	Completed	Attended monthly meetings 2018 Priorities: Participate in 2018 GFCF Food Systems Tour and sub-committees
Create a map identifying additional city-owned locations for edible landscaping. Lead Department: Planning, Parks & Recreation, Sustainability	In Progress	2018 Priorities: Work with Planning and Parks & Recreation to identify and map locations
Continue community garden projects via KWPB grant program. Lead Department: Sustainability	In Progress	2018 Priorities: Include community garden project in 2019 KWPB FDOT Grant Proposal



LOCAL GOVERNMENT OPERATIONS

The city is committed to creating sustainable, healthier and more comfortable environments for employees.



LGO-1: Local Government GHG Emissions

LGO-2: Energy usage

LGO-3: Renewable Energy Production

LGO-5: Potable Water Usage

As one of the largest consumers of electricity and water, the City continues to explore ways that Winter Park's governmental operations (e.g., Parks and Recreation Department) can run efficiently, conserving resources, and saving tax dollars, while reducing greenhouse gas emissions. The Trane Guaranteed Energy Performance Contract, now in its fourth Guarantee year, reported

energy savings of \$165,510 between November 2015 and October 2016. Energy conservation measures resulting from the Trane energy audit and performance contract included light retrofits, water conservation retrofits, and building automation. 2017 energy consumption was approximately 16% below the 2012 baseline, exceeding the 10% reduction goal set for 2020. 2017 water consumption was approximately 55% below the 2012 baseline, exceeding the 25% reduction goal set for 2020.

Targeted Outreach: Municipal Facilities

SAP INDICATOR PROGRESS

	2012	2017	2020 target	2030 target
LGO-1	11,473 metric tons	Not measured at this interval	20% less	50% less
LGO-2	12,153,788 kWh	10,192,574 kWh (FY)	10% less	25% less
LGO-3	1.6% solar generated of overall power purchased	.07%	6.6%	11.6%
LGO-5	49.543 MG	27.181 MG	25% less	50% less

LGO-4: City Fleet Usage

Cities across the country are increasingly recognizing the environmental and economic benefits of replacing fossil fuel powered city vehicles with plug-in hybrid and full electric vehicles (EV). Full electric vehicles, for example, produce zero tailpipe emissions and do not require oil changes, exhausts, air filters, spark plugs, belts, or transmission fuel. In Fall 2017, the Building & Permitting Services Department added its first full electric vehicle to its fleet. Using the ChargePoint EV charging network dashboard, the City will be able to monitor the Ford Focus EV's long term energy usage, as well as calculate its fuel and GHG savings.



Targeted Outreach: Municipal Facilities

SAP INDICATOR PROGRESS

	FY 2012	FY 2017	2020 target	2030 target
LGO-4	Unleaded: 151,971 gal Diesel: 82,196 gal	Unleaded: 160,492 gal Diesel: 81,354 gal	25% less	50% less



LGO-6: City Employees using transit, carpooling, cycling or walking to work

During the City's monthly New Employee Orientation, the Sustainability Program encourages new employees to receive a free Commute Options Summary from the Florida Department of Transportation's Rethink Your Commute (reThink) program and consider electing to contribute to a Transportation Spending Account, allowing them to put aside money on a pre-tax basis to pay for transit. The City's Human Resources Department, Sustainability Program and reThink continue to explore options that can help increase commuter

benefits, helping the City get closer to becoming eligible for the national Best Workplaces for Commuters designation.

Targeted Outreach: Municipal Facilities

SAP INDICATOR PROGRESS

	2012	2017	2020 target	2030 target
LGO-6	In Development	In Development	Increase	Increase

Local Government Operations 2015-2017 SAP Actions Status Report

Action	Status	Comments
Continue monitoring city buildings' energy and water usage through ENERGY STAR Portfolio Manager Lead Department: Sustainability	Completed	Energy and water usage data updated and site visits conducted for 16 city facilities registered in CFBOTB 2018 Priorities: Create ESPM profiles for remaining city buildings
Explore establishing a Revolving Energy Efficiency Loan Fund for city owned buildings and infrastructure Lead Department: Finance, Public Works	In Progress	2018 Priorities: Work with Finance and Public Works to evaluate potential of establishing fund
Conduct energy audits for all city owned facilities Lead Department: Public Works-Facilities	In Progress	21 buildings completed 2018 Priorities: Perform energy audits on remaining city facilities

Local Government Operations 2018 SAP Actions

Action
Shift from potable to non-potable water resources for parks irrigation while increasing efficiency; Lead Department: Parks & Recreation, Water Utility
Implement ISO 14001 Environmental Management System ; Lead Department: Sustainability
Develop Green City Fleet maintenance program by referring to FGBC itemized checklist and begin replacing older vehicles with more efficient vehicles potentially including hybrids, electric, and natural gas; Lead Department: Public Works-Fleet
Update the city's idling policy to allow for a maximum of one minute (currently five) for city fleet; Lead Department: Public Works-Fleet; City Administration



MOBILITY & URBAN FORM

The city is committed to promoting healthier, more active forms of transportation such as walking, bicycling and using mass transit.



MUF-1: Vehicle Miles Traveled

Vehicle miles traveled (VMT) per capita is calculated as the total annual miles of vehicle travel divided by the total population in a state or in an urbanized area. VMT per capita is lower in communities that are more walkable and compact and in communities that have strong public transportation systems. Research increasingly suggests that decreasing annual VMT per capita can

directly improve air quality and the overall health of a population. There are limited options for estimating VMT in non-urban communities (less than 50,000 in population). The City of Winter Park could consider one method suggested by the Partnership for Sustainable Communities of using traffic counts on selected roadways that are determined to be indicative of locally-generated travel. Multiple days of counts would likely be necessary to average out daily fluctuations.

Targeted Outreach: Residents

SAP INDICATOR PROGRESS

	2012	2017	2020 target	2030 target
MUF-1	In development	In development	10% less	20% less

MUF-2: Certified Green Neighborhood Development

A recent survey conducted by the National Association of Realtors® suggests that a majority of millennials and members of the silent or greatest generation (born before 1944) prefer smaller homes in neighborhoods with easy walks to shops and restaurants. Green Neighborhood Development encourages sustainable communities. For example, LEED's Neighborhood Development (ND) certification encourages smart location (development within and near existing communities and public transit), conservation of imperiled species and ecological communities, conservation of wetlands and water bodies, open space and habitat conservation, walkable streets, compact development, high connectivity, well connected to the community, certified green building, minimum building energy performance, water conservation infrastructure, and construction activity pollution prevention.

Targeted Outreach: Residents



SAP INDICATOR PROGRESS

	2012	2017	2020 target	2030 target
MUF-2	0 certified	0 certified	2 certified	All redevelopments achieve green certification



MUF-3: Electric Vehicle Charging Stations

Compared to conventional vehicles, plug-in hybrid and full electric vehicles produce lower tailpipe emissions, reducing vehicle emissions that contribute to climate change and smog. Lifecycle emissions (e.g., emissions related to fuel and vehicle production, processing, distribution, use, and recycling/disposal) of electric vehicles (EVs) greatly depend on how the electricity used to power these vehicles is produced. The City can minimize lifecycle emissions of EVs by continuing to provide residents and businesses with options to purchase renewables-based electricity, implementing supportive

mechanisms for the installation of renewable energy systems in residential and commercial areas, and increasing renewable-based electricity powering existing and new EV charging stations.

Targeted Outreach: Residents, Businesses

SAP INDICATOR PROGRESS

	2012	2017	2020 target	2030 target
MUF-3	6	12	Increase	Increase

MUF-4: Walk Score, MUF-5: Transit Score, MUF-6: Bike Score

Striving to improve quality of life, health, and community connections for its residents, businesses, and visitors, the City continues to find ways to improve active travel (e.g., pedestrian, bicyclist) environments. In Fall 2017, the League of American Bicyclists recognized the City of Winter Park as a Silver Level Bicycle Friendly CommunitySM (BFC). The four-year designation, received after careful review of the city's application materials and consultation with local cyclists, is presented only to communities with strong commitments to bicycling. Navigating the application process and achieving this designation was made possible by way of long-term, public-private community partnerships between Bike Walk Central Florida, Healthy Central Florida, Winter Park Health Foundation, and the city's Transportation Advisory Board. A priority for the City's Mobility Plan, currently under development, is to continue to promote a safe and balanced multimodal system,

Targeted Outreach: Residents, Businesses, Visitors

SAP INDICATOR PROGRESS

	2012	2017	2020 target	2030 target
MUF-4	55	47	70	80
MUF-5	In Development	In Development	-	-
MUF-6	In Development	In Development	-	-

Mobility & Urban Form 2015-2017 SAP Actions Status Report

Action	Status
Increase bike storage downtown while reducing dependence on vehicle parking Lead Department: Public Works/Parks	Completed
Evaluate Comprehensive Plan to identify for policies related to green building and green neighborhood development. Recommend revisions as deemed desirable. Lead Department: Planning	Completed
Evaluate expanding bus service and consider Flex Bus for increasing service to Sunrail station Lead Department: Public Works, Planning	Completed
Calculate Vehicle Miles Traveled and GHG emissions as a result of VMT at select intersections Lead Department: Public Works	Completed
Evaluate Transportation Plan with regards to SunRail, safe routes to schools, Complete Streets and regional projects such as trails Lead Department: Public Works	In Progress
Encourage private developments to increase safety and ease of walking and cycling through site plan review process with recommendation from project design checklist Lead Department: Public Works, Planning	In Progress

Mobility & Urban Form 2018 SAP Actions

Action
Evaluate Bike Share through a third party vendor as part of a regional wide program in conjunction with SunRail; Lead Department: Public Works
Evaluate Car Share through a third party vendor as part of a regional wide program in conjunction with SunRail; Lead Department: Public Works



NATURAL SYSTEMS & RESOURCES

The city is committed to preserving and enhancing our natural systems that help make Winter Park such a great place to live.



NSR-1: Tree Canopy Coverage, NSR -2: Greenspace Coverage, NSR -3: Greyspace

Targeted Outreach: Citywide

Hurricane Irma and the July 4th storm decreased our tree canopy coverage. We currently have 23,000 trees in city right of way. Urban Forestry gave away over 1800 trees last year. They also planted over 600 trees in right of ways, parks, and parkland in 2017, however they lost over 300 trees due to storm activity. The trees that were lost were mostly mature laurel oaks that had a canopy covering 50-70', and our small trees cover approximately 10-12'. Urban forestry continues to promote "Right Tree Right Place" concepts and community outreach and education.

SAP INDICATOR PROGRESS

	2012	2017	2020 target	2030 target
NSR-1	55%	52%	55%	60%
NSR-2	57%	54%	57%	60%
NRS-3	43%	46%	43%	40%

NSR -4: Lakes Water Quality-Visibility Depth

A continued effort is being made to improve water quality within the city's lakes and waterways. Encouraging the growth of native aquatic plants via habitat restoration provides for fish and wildlife, in addition to protecting shorelines from erosion and taking up nutrients that would otherwise contribute to algal blooms. Regular stormwater retrofit maintenance and cleanings as well as street sweeping every two weeks help to remove pollutants like grass clippings, litter, sediment, etc. from streets and roadways, thus preventing their transport into our lakes and waterways. The City recently partnered with Rollins College to construct educational signage along a lakeside walking/biking trail highlighting all of the lake management activities that occur in the watershed.



Targeted Outreach: Citywide

SAP INDICATOR PROGRESS

	2012	2017	2020 target	2030 target
NSR-4	2 meters	2 meters	2.5 meters	3 meters



NSR -5: Residents living within a half mile of public greenspace

Public health research continues to suggest that closer proximity to public greenspaces can play a role in better mental and physical health. There are a total of 346.1 acres of designated parkland in the City, this includes community parks, neighborhood parks, special purpose parks, neighborhood parks, and mini parks. The City continues to meet and exceed the 95% of residents living within a half mile of public greenspace 2020 target.

Targeted Outreach: Residents

SAP INDICATOR PROGRESS

	2012	2017	2020 target	2030 target
NSR-5	95%	97%	95%	95%

Natural Systems & Resources 2015-2017 SAP Actions Report

Action	Status
Continue aquatic plant management. Lead Department: Public Works, Stormwater, Lakes	Completed

Natural Systems & Resources 2018 SAP Actions

Action
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; Lead Department: Public Works, Stormwater, Lakes, Parks & Recreation
Increase frequency of existing stormwater infrastructure maintenance including street sweeping; Lead Department: Public Works, Stormwater, Lakes
Explore installing a rain garden in a visible public space to serve as a demo for light impact development; Lead Department: Public Works, Stormwater, Lakes, Parks & Recreation
Explore leveraging Electric Utility's Green Roof incentive with grant from Stormwater Fund; Lead Department: Public Works, Stormwater, Lakes, Electric Utility



WASTE DIVERSION & RECYCLING

The city is committed to diverting waste from landfills, recycling, and reducing carbon emissions from waste.



WDR-1: Waste diverted from landfill (residential only)

WDR-2: Total tons of solid waste generated (residential only)

WDR-3: GHG emissions from solid waste

The Environmental Protection Agency (EPA) developed the waste management hierarchy (pictured left) in recognition that no single waste management approach is suitable for managing all materials and waste streams in all circumstances. The hierarchy ranks the various management strategies from most to least environmentally preferred. In 2014, the EPA estimated that in the United States about 258 million tons of MSW were generated. Over 89 million tons of MSW were recycled and composted, providing an annual reduction of over 181 million metric tons of carbon dioxide

equivalent emissions, comparable to the annual emissions from over 38 million passenger cars.

The City of Winter Park continues to encourage waste diversion from landfills, providing single-family residential homes with single-stream recycling, offering backyard composters to interested residents through a Florida Department of Transportation Keep America Beautiful Affiliates Grant Program, and providing recycling and composting education on the Sustainability Program's Waste Diversion & Recycling page and at community events. In 2018, the Keep Winter Park Beautiful & Sustainable Advisory Board, partnering with WastePro, hopes to leverage data gathered from RFID-tagged waste containers to pilot a targeted recycling education program.

Targeted Outreach: Residents



SAP INDICATOR PROGRESS

	2012	2017	2020 target	2030 target
WDR-1	15%	18%	75% (state goal)	90%
WDR-2	11,594	9,793.69	10% less	25 % less
WDR-3*	39,999	33,788	40% less	75% less

*calculated as 3.45 tons of CO₂ per ton of waste generated

Waste Diversion & Recycling 2015-2017 SAP Actions Status

Action	Status	Comments
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. Lead Department: Sustainability	Completed	Will begin to monitor collection through RFID in new containers
Evaluate residential and commercial recycling incentive rewards programs. Lead Department: Sustainability	In Progress	
Evaluate requirement for commercial and multifamily recycling service. Lead Department: Sustainability	Completed	Continue to register all haulers and begin data collection.
Promote Commercial, Multi-Family and Construction & Debris recycling case studies. Lead Department: Communications	In Progress	
Promote composting case studies. Lead Department: Communications	In Progress	2018 Priorities: Continue to offer composters to residents through grant funding
Provide free special events recycling. Lead Department: Parks & Recreation	In Progress	2018 Priorities: Will host first "cup free" road race
Provide quarterly Hazardous Waste and Electronic Waste events Lead Department: Public Works, Sustainability	In Progress	Household Hazardous Waste Collections: 1; Electronic Waste Collection Events: 2 2018 Priorities: Continue to providing Collection Events

Waste Diversion & Recycling 2018 SAP Actions Status

Action
Increase recycling to all city owned facilities and parks; Lead Department: Parks & Recreation

RECOMMENDATIONS AND CONCLUSIONS

As with the past year in 2018 KWPB sponsorship and project funding will be a priority goal as the majority of our success is dependent upon financial support. These resources are critical in the ongoing need for marketing and community outreach to assist in reaching many of the goals put forth in the action plan.

This year in particular Orange County will no longer be providing a community wide greenhouse gas inventory. To this point we have been reliant upon this study as a measuring stick for our own inventory as we have not had the resources to conduct this measurement ourselves. Moving forward we will be looking at possible partnerships with the City of Orlando and will be seeking additional funding to conduct this intensive inventory which is a critical measuring tool to the success of the action plan.

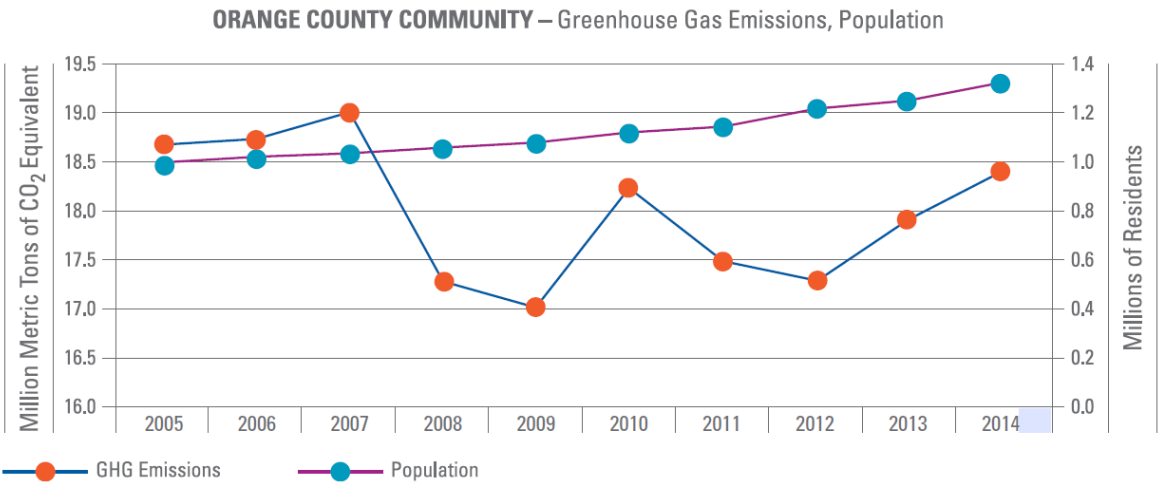
On the heels of the City of Orlando's adoption of a benchmarking and disclosure policy we will continue to provide resources to businesses that look to voluntarily participate in regional energy saving programs. Beyond providing utility data, we will be working with collective business groups to educate and train them on benchmarking tools, building upgrade solutions, and possible financing options.

Bringing Green Building Certification to projects within the city is also a focus of this upcoming year. Several models exist within the state that can offer guidance as to how to influence developers and builders to make a commitment to green building practices. These minimal upfront costs will have a tremendous return on the lifecycle costs of the buildings that will make up the city for generations to come.

Finally, we look to 2018 as a year in which we see a shift in sustainability practices at large events within the city. From festivals, to parades, to road races our team will be looking at ways in which we can assist event organizers in improving the environmental footprint they leave behind.

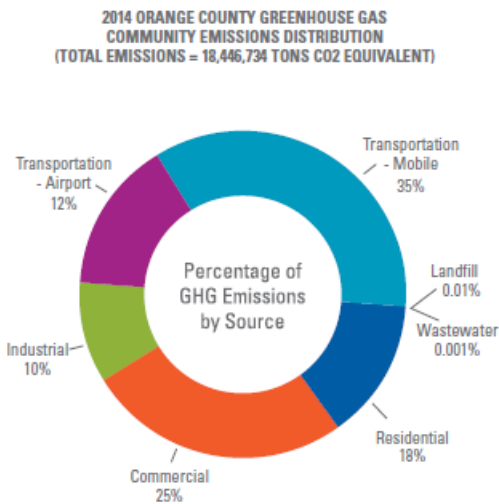
In conclusion, 2017 brought about many challenges in moving the sustainability action plan forward. Yet this year has also shown the resilience of the community that will be needed as the challenges and questions get tougher as we look to take the next steps forward.

APPENDIX A: 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

APPENDIX B: FY 2018 Sustainability Program Budget

Revenue

Category	Title	Details	Funding Sources	Funding Amount
BEW	Energy Conservation Program	Energy Audits, Rebates, Education & Outreach	Electric Utility	\$50,000.00
BEW	SAP	revolving energy efficiency loan fund		\$0.00
CEGE	Earth Day in the Park	Community Event	City General Fund	\$25,000.00
CEGE	KWPB Sponsorships	Fundraising	Sponsors	\$10,000.00
LFA	Food Access	Meatless Mondays	Healthy Central FL	\$2,500.00
NRS	KWPB Programming	FDOT/KAB grant	FDOT	\$16,000.00
NRS	Lakes/KWPB Events	Volunteer Events/Litter Prevention (GAC)/Watershed Cleanups and Exotic Snail Removal	Public Works	\$10,000.00
WDR	Recycling	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
				\$138,500.00

Expenses

Category	Title	Details	Column1	Budget
BEW	Energy Conservation Program	Energy Audits, Rebates, Education & Outreach		\$50,000.00
BEW	SAP	revolving energy efficiency loan fund		
BEW	GUEP	community solar		
BEW	GUEP	LED street lighting		
BEW	SAP	green building education		\$2,000.00
BEW	SAP	energy benchmarking and disclosure policy		
BEW	EV charging	additional units		\$0.00
CEGE	workplace challenge			\$0.00
CEGE	Marketing Plan for Sustainability	marketing, fundraising, etc		\$5,000.00
CEGE	Earth Day	Community Event		\$21,500.00
LFA	Food Access	Meatless Mondays		\$2,500.00
LFA	Community Gardens	Mead, Community Center, Senior Center		\$0.00
LGO	SAP	monitor city buildings in energystar		\$0.00
LGO	KWPB	operational costs		\$4,000.00
LGO	SAP	sustainability videos- internal		
MUF	SAP	increase downtown bike storage		\$0.00
NRS	SAP	Partners for Places Grant		\$0.00
NRS	KWPB	America in Bloom		
NRS	KWPB	volunteer events/Litter Prevention (GAC)		\$10,000.00
NRS	KWPB	FDOT/KAB grant		\$16,000.00
NRS	KWPB	green schools grant		\$2,500.00
WDR		HHW Day		\$0.00
WDR	Recycling	Organics collection pilot		\$0.00
WDR	Recycling	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
WDR	SAP	waste contract		\$0.00
				\$138,500.00