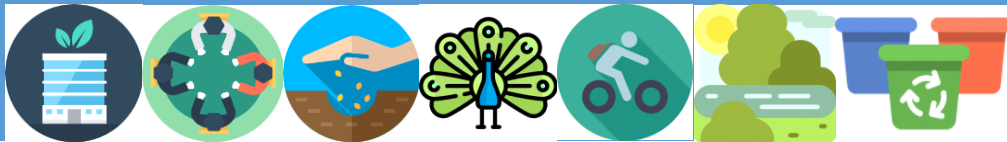


2018

SUSTAINABILITY ACTION PLAN



ANNUAL REPORT

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**Keep Winter Park Beautiful
& Sustainable Advisory Board**

FOREWORD

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 appointed 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, each with their own 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 fourth 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 for approaching sustainability-related considerations as the City moves forward.

SPECIAL THANKS

Special thanks to our City staff and community partners who helped make this report possible.

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EXECUTIVE SUMMARY

The focus in 2018 was measurement and verification of existing and new sustainability programs within the City of Winter Park. Much emphasis was placed on waste and recycling efforts, as well as citywide and municipal greenhouse gas inventories, in preparation for upcoming 2020 SAP goals.

With a statewide goal of 75 percent waste diversion from landfills in 2020, our data shows further efforts are still needed. Sustainability staff took part in a program called Beyond 34 administered by the U.S. Chamber of Commerce through a grant received by the City of Orlando. Working with corporate participants, the goal of this program is to push beyond the current 34% national diversion rate by utilizing a more regional approach in solid waste management and recycling. Sustainability staff also launched a new web-based application on the city website for residents to educate themselves on all things solid waste. Residents can get reminders of collection dates, as well as identify in what bins items are to be placed. In 2019, further data will be collected to assess the composition of both our residential and commercial waste stream.

With only a couple years prior to our 2020 goals for citywide and municipal greenhouse gas reductions, the staff undertook a progress report from our 2012 baseline. The investigation proved that building energy use and transportation make up nearly 90% of attributed emissions. The results are tracking positive, however, that trend would dramatically shift should our electric utility energy mix move away from our current levels of renewable energy sourcing. Most of our renewable energy is currently provided by Covanta and will soon be augmented by a solar project with the Florida Municipal Power Agency (FMPA.)

Having completed this analysis, the Keep Winter Park Beautiful and Sustainable Board and City Sustainability staff have a better understanding as to the direction of future projects related to these major SAP goals. Such projects for the year ahead look to include the aforementioned residential and commercial waste audits, a sustainable business program, and an electric vehicle plan.

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 (BEW)

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



Electricity usage by residential and commercial sectors, used to heat, cool, and light buildings, as well as power appliances and other electrical equipment, contributes to nearly half of all greenhouse gas (GHG) emissions in the City. The Winter Park Energy Conservation Program (WPECP), funded by the Winter Park Electric Utility and administered by the Winter Park Sustainability Program, is focused on providing all Winter Park residents with opportunities to use energy more wisely. WPECP continues to provide residents with free in-home energy audits that help residents assess their home's overall energy conservation potential; energy conservation kits that provide residents with easy-to-install energy saving products; and insulation upgrades & duct repair rebates to help residents save energy and money. In 2018, the WPECP brought Tinker Education Programs, an end-to-end water and energy conservation education program provider, to Winter Park's 5th grade classrooms. Thanks to this new program, over 300 students and 12 teachers, increased their knowledge

on Electric Generation, Efficiency vs. Conservation, and the Water-Energy Nexus. Students are also encouraged to request a free in-home energy audit for their household.

	2012	2018	2020 target	2030 target
BEW-1	152 audits	73 audits	150 audits	150 audits
BEW-2	95 rebates	15 rebates	100 rebates	100 rebates

BEW-3: Commercial Buildings Benchmarked

Nearly 20 percent of the City's emissions of greenhouse gases (GHGs) result from energy used in commercial buildings. The Winter Park Sustainability Program continues to provide Winter Park commercial building owners with technical assistance and easy-to-upload spreadsheets for EPA's user-friendly benchmarking tool, ENERGY STAR Portfolio Manager® (ESPM). In January 2018, City of Winter Park faith-based organizations were invited to learn more about ESPM and energy conservation strategies for their worship facilities. St. John Evangelical Lutheran Church's Deacon of Global Mission and Creation Care, Steven Beumer, shared his congregation's various efforts to increase resource efficiency at their church. Some no-cost and low-cost tips for congregations include keeping exterior doors closed while running heating and air conditioning, installing programmable thermostats that are synced with church operating hours, and adding educational signage to lighting and water fixtures that demonstrate the church's commitment to conservation.



	2012	2018	2020 target	2030 target
BEW-3	0 buildings	31 buildings	100 buildings	500 buildings

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



As a municipally-owned utility, Winter Park Electric Utility has been able to dramatically increase the percentage of its energy portfolio that comes from renewable and clean alternative sources, going from 3.86% in 2012 to 23.9% in 2018. In 2012 energy providers included Energy Progress FL (today known as Duke Energy) and Seminole Electric Cooperative. In 2018, energy providers included FPL, Covanta, GRU, OUC, and Clean Footprint. In 2018, the City became part of the Florida Municipal Solar Project, one of the largest

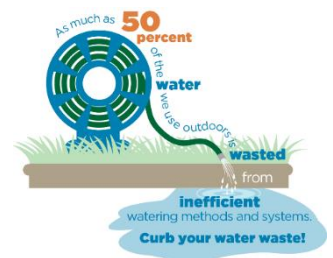
municipal-backed solar projects in the US. Essentially a bulk power purchase, Winter Park will purchase 10 megawatts of competitively-priced solar power starting in 2020, increasing the City's percentage of solar in its portfolio. The number of residential and commercial customers in the City installing solar on their buildings has also increased over time, starting in the single digits in 2012 to nearly 70 systems in 2018. Having received SolSmart Silver Designation in January 2018, the City continues to look for ways to make it faster, easier, and more affordable for residents and businesses to go solar, including establishing a flat rate building permit fee in Fall 2018.

	2012	2018	2020 target	2030 target
BEW-4*	3.86%	23.9%	40%	60%

*2012 SAP Baseline has been recalculated using 2012 actual energy purchased and 2012 fuel mixes (Schedule 6.2); 2018 calculated using actual energy purchased in 2018 and 2017 fuel mixes

BEW-5: Residential Potable H₂O Annual Average, BEW-6: Community Wastewater, BEW-7: Reclaimed H₂O Availability

The global demand for water continues to increase, placing higher demands on a finite resource. In Winter Park, water is pumped from the lower Floridan aquifer and treated at three interconnected state of the art drinking water treatment facilities. Approximately 10 million gallons of water each day is produced by the Winter Park Water Utility. It is estimated that more than 50% of residential water use occurs outdoors, largely for irrigation. That equates to millions of gallons of treated drinking water being sprayed on yards and landscaping annually.



The Winter Park Water Utility Conservation Program 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. The Utility recently added a weather-based irrigation controller rebate. Smart irrigation controllers allow irrigation when necessary, and prevent irrigation during or after heavy rain events when irrigation is not needed.

The Winter Park Wastewater Treatment Division operates the city-owned Winter Park Estates wastewater treatment facility, treating approximately 10% of the city's sewer capacity needs. All treated water generated at this facility is used as irrigation water at four spray sites, two golf courses, a park, and a cemetery. The remaining 90% of the city's sewer capacity is treated under wholesale agreements with the City of Orlando, City of Altamonte Springs, and Orange County. To avoid preventable sewer backups within the city's collection system and residents' homes, the Division offers residents a free shatter-proof container to collect their used cooking oil for drop-off at a designated collection bin at City Operations. In 2018, this program diverted 175 gallons of used cooking oil.

	2012	2018	2020 target	2030 target
BEW-5	178.018 MG	172.764 MG	5% less (169.117 MG)	15% less
BEW-6	0.968 MG	0.689 MG,	5% less (0.920 MG)	15% less
BEW-7	In Development	In Development	5% more	15% more

BEW-8: Green Building Standards in Winter Park



Since 2011, the City has made a commitment to strive for the highest levels of Florida Building Code (FGBC) Certification or Leadership in Energy and Environmental Design (LEED) certification for all new or significantly renovated, occupied, City-owned buildings whenever project resources and conditions permit. Green building recommendations for residential and commercial have yet to be codified. In 2017, the Sustainability Program proposed language for the Tree Preservation and Protection code update that would promote the adoption of green building standards by requiring a green building certification as a prerequisite for a tree removal permit. The language was not included in the final draft. Codifying green building standards help ensure that future projects are environmentally responsible and resource-efficient throughout a building's life-cycle: from siting to design, construction, operation, maintenance, renovation, and demolition.

	2012	2018	2020 target	2030 target
BEW-8	1%	1%	25% of new construction	50% of new construction and major renovations

2015-2018 Buildings, Energy, & Water SAP Actions Status Report

Action	Status
Increase promotion of existing Energy & Water Conservation opportunities such as audits and rebates. Lead Department: Building, Communications	Implemented/ Ongoing
Publicize funding opportunities to help property owners finance green building projects, energy efficiency upgrades and renewable energy. Lead Department: Building, Finance, Electric Utility	Implemented/ Ongoing
Establish energy benchmarking and disclosure policy. Lead Department: Building, Planning	In Development
Provide Green Building education to appropriate city staff, realtors, and private builders. Lead Department: Building	Implemented/ Ongoing
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	Not started
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 Development
Develop measures to discourage building destruction and encourage building design for long-term use. Lead Department: Building	Not started
Increase promotion of Green Building Case Studies to residents, potential residents, home builders, and contractors. Lead Department: Building, Communications	Not started
Develop a plan for converting streetlights and public space lighting to LEDs. Lead Department: Building, Electric Utility	Implemented/ Ongoing
Review water utility rates to ensure inverted rate structure is adequately discouraging overuse of water. Lead Department: Water & Wastewater Utility	Not started
Recognize net zero energy/carbon neutral new buildings and homes Lead Department: Building	Not started
Create rebate and/or code for utilization of electric vehicle charging for renovated and new buildings. Lead Department: Electric Utility, Building	In Development
Develop policy and rebate addressing and incentivizing residential and commercial gray water & rain water reuse Lead Department: Building, Water & Wastewater Utility	Not started

2020/2030 Buildings, Energy, & Water SAP Actions

Action
Optimize use of existing Water Reuse Plant and identify additional opportunities for maximizing percentage of water from reclaimed Lead Department: Water & Wastewater Utility
Increase the Electric Utility's percentage of energy derived from renewable and clean alternative sources Lead Department: Electric Utility
Encourage private developers to use District Energy systems for large scale developments with at least two buildings Lead Departments: Electric Utility, Water & Wastewater Utility, & Planning

COMMUNITY ENGAGEMENT & GREEN ECONOMY (CEGE)

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



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



In 2018, the Sustainability Program completed the city's first community-wide greenhouse gas emissions (GHG) inventory. The assessment was completed in-house, using data from the 2017 calendar year. To allow for comparison, the GHG inventory for 2012 (baseline) was recalculated, using the same methodologies used to determine the 2017 inventory. Methodologies applied include the US Community Protocol for Accounting and Reporting of GHG Emissions, Global Protocol for Community-Scale GHG Emission Inventory-An Accounting and Reporting Standard for Cities, and Local Government Operations Protocol for the Quantification and Reporting of GHG Emissions Inventories. In 2017, 47% of community-scale GHG emissions came from electricity consumption, 45% from the transportation sector, and 4% from solid waste, see Appendix A. Compared to the 2012 baseline inventory, GHG emissions from electricity consumption were 37% lower, from the transportation sector were 12% higher, and from the solid waste sector were 3% higher. Between 2012 and 2017, total GHG emissions decreased by 16%.

	2012	2017	2020 target	2030 target
CEGE-1*	417.28 ktCO ₂ e	351.21 ktCO ₂ e	25%less (312.96 ktCO ₂ e)	50% less

**SAP Baseline has been recalculated using the methodology described above*

CEGE-2: Recognized Green Businesses

Fair Trade Certification ensures that the products consumers purchase were grown, harvested, crafted and traded in ways that improve lives and protect the environment. Recognized fair trade certification organizations include Fair Trade Certified™, Fairtrade America, Fair Trade Federation, and Fair for Life. In 2018, the Winter Park Fair Trade Campaign counted 17 businesses throughout Winter Park that promoted and supported fair trade products. In 2019, the WVP Sustainability Program hopes to launch a Green Business Recognition Program that will recognize local businesses who have made substantial efforts towards environmental sustainability by adopting best practices in WVP Sustainability Action Plan areas like joining the WVP Fair Trade Campaign, benchmarking their energy and water usage on ESPM, and instituting recycling programs.



	2012	2018	2020 target	2030 target
CEGE-2	0 businesses	17 businesses	25 % of businesses	50% of businesses

CEGE-3: Residents taking the Sustainability Pledge



The City of Winter Park is committed to reducing the impact it and others have on the environment through its operational and community-wide initiatives. To become a truly sustainable community, Winter Park residents, businesses, students, and community partners are invited to make a personal commitment to sustainable living by taking the Sustainability Pledge. The pledge, found at cityofwinterpark.org/sustain-pledge, covers the areas of energy, food, water, transportation, and waste.

	2012	2018	2020 target	2030 target
CEGE-3	0 residents	99 residents	50%	100%

CEGE-4: Green School Grant Participants

The Keep Winter Park Beautiful & Sustainable Green School Grant (GSG) supports schools serving Winter Park in their efforts to achieve sustainability goals and beautify their campuses. In 2018, GSGs helped fund a market garden and art program, pollinator and vegetable gardens, and school recycling programs. Award recipients also received access to USGBC's Green Classroom Professional certification program. The course consists of 12 self-guided, interactive modules that provide foundational knowledge of green building and the LEED green building rating system in the context of a school system.



	2012	2018	2020 target	2030 target
CEGE-4	10	8	50%	100%

CEGE-5: KWPB Volunteer Events



For over 25 years, the City of Winter Park has been a Keep America Beautiful affiliate, working to end littering, improve recycling, and beautify communities in our City. In 2018, Keep Winter Park Beautiful (KWPB) volunteers collected over 1,600 pounds of litter, committing nearly 1,200 hours to our watersheds and to the beautification of our public spaces. Watershed cleanups, organized in partnership with the Winter Park Lakes Division, covered nearly 4,000 acres, focusing on the watersheds of Lake Maitland, Lake Virginia, Lake Osceola, and Lake Killarney. In 2018, volunteers began tracking litter items using the Ocean Conservancy's Clean Swell mobile app. Some of the most likely items founds were plastic pieces, cigarette butts, food wrappers, and takeout/away containers. Beautification events, organized in partnership with the Parks and Recreation Department, helped spruce up Trismen Minipark, Lasbury/Maiden Minipark, Alberta Courtland Minipark and Kraft Azalea Garden. Thank you to all of our volunteers!

	2012	2018	2020 target	2030 target
CEGE-5	12	12	12	12

2015-2018 Community Engagement & Green Economy SAP Actions Status Report

Action	Status
Develop Marketing Plan for Sustainability <i>Lead Department: Communications</i>	Implemented/ Ongoing
Continue Green School Grant program. <i>Lead Department: Sustainability</i>	Implemented/ Ongoing
Explore funding options for maintenance and upkeep of existing Pocket Parks and Community Gardens <i>Lead Department: Sustainability, Parks & Recreation</i>	Implemented/ Ongoing
Facilitate sustainability education workshops <i>Lead Department: Sustainability, Parks & Recreation</i>	Implemented/ Ongoing
Continue participation in America In Bloom/Winter Park Blooms <i>Lead Department: Sustainability</i>	Implemented/ Ongoing
Continue volunteer opportunities including lake cleanups, gardening, and invasive species removal <i>Lead Department: Sustainability, Parks & Recreation, Lakes</i>	Implemented/ Ongoing
Develop interactive sustainability webpage that links individuals to Sustainability Pledge & carbon footprint calculator and allows organizations to post environmental volunteer opportunities & share success stories <i>Lead Department: Communications</i>	Implemented/ Ongoing
Create and install Environmental Education opportunities at parks and green buildings <i>Lead Department: Sustainability, Parks & Recreation</i>	Not started

2020 Community Engagement & Green Economy SAP Actions

Action
Develop Green Neighborhood program focusing on supporting eco-friendly behavior in existing, established residential neighborhoods. <i>Lead Department: Sustainability</i>
Partner with other local municipalities to develop Green Business Challenge. <i>Lead Department: Sustainability, Planning, Economic Development</i>

LOCAL FOOD & AGRICULTURE (LFA)

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 2018, the Sustainability Program and Planning & Community Development Department inventoried and mapped community gardens, urban farms, Farmers Markets, Grocery Stores, and restaurants offering locally grown food to Winter Park residents. Approaching the 2020 target, 43% of Winter Park households were found to live within 1/2 mile of local/healthful food assets. See Appendix B for locations.

	2012	2018	2020 target	2030 target
LFA-1	In Development	43%	50%	100%

LFA-2: Local Food Consumption (% of locally sourced food purchased for at-home consumption)

In February 2018, the Good Food Central Florida Food Policy Council, made up of stakeholders representing various segments of the local food system, organized a Central Florida Food Systems Tour in partnership with UF/IFAS Extension. The tour invited elected officials and local government staff from the region to learn more about food production, processing, distribution, consumption, and waste. City of Winter Park staff assisted in event planning, as well as attended the event. The tour included stops at Long & Scott Farms, Edible Education Experience, East End Market, Fleet Farming and Audubon Park Covenant Church. The event was considered a huge success. In Fall 2018, the WVP Sustainability Program surveyed residents that had received a free backyard composter in the last year on their at-home food consumption. Nearly sixty percent of respondents reported preparing more than 2 meals at home per day.



	2012	2018	2020 target	2030 target
LFA-2	21.8%	In Development	40%	60%

2015-2018 Local Food & Agriculture SAP Actions Status Report

Action	Status
Participate in regional Food Policy Council. <i>Lead Department: Sustainability</i>	Implemented/ Ongoing
Create a map identifying additional city-owned locations for edible landscaping. <i>Lead Department: Planning, Parks & Recreation, Sustainability</i>	Not started
Continue community garden projects via KWPB grant program. <i>Lead Department: Sustainability</i>	Implemented/ Ongoing

2020 Local Food & Agriculture SAP Actions

Action
Include Local Food Preference in city's Environmentally Preferable Purchasing policy. <i>Lead Department: City Administration-Procurement</i>
Explore Residential, Commercial and Public Space Urban Agricultural Design. <i>Lead Department: Planning, Parks & Recreation, Sustainability</i>
Pilot an urban farm. <i>Lead Department: Parks & Recreation</i>

LOCAL GOVERNMENT OPERATIONS (LGO)

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



LGO-1: Local Government GHG Emissions



In 2018, the Sustainability Program completed the city's first local government operations (LGO) greenhouse gas emissions (GHG) inventory. The estimation was completed in-house, using data from the 2017 calendar year (emissions scope 1 & 2). Similar to the community-wide assessment, to allow for comparison, the GHG inventory for 2012 (baseline) was recalculated, using the same methodologies used to determine the 2017 inventory. Between 2012 and 2017, total GHG emissions decreased by 24%, primarily due to increased renewable energy portfolio. In 2017, the primary contributors to LGO GHG emissions were electricity consumption (73%) and fleet fuel consumption (25%), see Appendix C. Compared to the 2012 baseline inventory, 2017 GHG emissions from electricity consumption were 31% less and from fleet fuel consumption was 3% more than in the baseline year. Due to missing data, the GHG emissions from solid waste in 2012 were not able to be calculated.

	2012	2017	2020 target	2030 target
LGO-1*	11,248 tCO ₂ e	8,548 tCO ₂ e	20% less (6,838 tCO ₂ e)	50% less

*SAP Baseline has been recalculated using the methodology described above

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 can run efficiently, conserving resources, and saving tax dollars. Starting in the 2018 Annual Report, the LGO-2 baseline and annual metric will include weather-normalized energy, where appropriate, rather than just actual usage to allow for evaluation from one year to another. Weather-normalized energy is the energy a property would have used if it had experienced 30-year average temperatures. Since 2012, overall energy usage has decreased by only 1%. While building and facilities energy usage was 5% less in 2018 than in 2012, energy consumption of wastewater and water treatment plants was 3% higher in 2018 than in 2012. Starting in the 2018 Annual Report, the LGO-3 metric will be presented as the percentage of solar energy generated with the city boundaries (Clean Footprint and Winter Park Solar PV customers) of the total energy purchased by the city. Due to insufficient data, the 2012 baseline presented in the 2015 SAP cannot be verified and will be omitted from future reports. 2018 water consumption was approximately 35% below the 2012 baseline, exceeding the 25% reduction goal set for 2020.



	2012	2018	2020 target	2030 target
LGO-2*	16,325 MWh	16,154 MWh	10% less (14,693 MWh)	25% less
LGO-3**	Unknown	0.12%	6.6%	11.6%
LGO-5	49.543 MG	32.367 MG	25% less (37.157 MG)	50% less

*SAP Baseline has been recalculated using the methodology described above; **2018 calculated using actual energy purchased in 2018 and 2017 fuel mixes

LGO-4: City Fleet Usage



More and more cities are recognizing the benefits of diversifying their fleets with alternative fuel capable or hybrid vehicles. A fleet analysis can help identify the best vehicles for replacement (e.g. older fuel efficient vehicles, high lifetime mileage vehicles). Competitively priced electric vehicles have lower life-cycle costs than gasoline vehicles, support the City's Sustainability Action Plan goal of lowering local government operations GHG emissions, and reducing carbon pollution from transportation. The City's Sustainability Program continues to explore the feasibility of fleet electrification and reducing dependence on fossil fuels. Compared to the 2012 baseline year, fleet unleaded fuel consumption was 6% more and diesel fuel consumption was 9% less that the baseline year.

	2012	2018	2020 target	2030 target
LGO-4	Unleaded: 143,268 gal Diesel: 83,142 gal	Unleaded: 152,502 gal Diesel: 75,579 gal	25% less (Unleaded: 107,451 gal Diesel: 62,357 gal)	50% less

*SAP Baseline and Annual Metric provided are now presented by calendar year for consistency

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

Employees biking and walking to work benefit from physical activity and help support the City's Sustainability Action Plan goal of reducing greenhouse gas emissions. Employees are encouraged to complete an FDOT reThink Your Commute (reThink) My Commute Options Summary request form during the new employee sign-on process and monthly new employee orientation. reThink provides employees with a summary of their commute options, helping employees find potential carpool partners, nearest bus or train routes, and safest biking and walking routes. City of Winter Park employees are granted the option to contribute to a Transportation Spending Account (TSA), allowing them to put aside money on a pre-tax basis to pay for transit. In 2017, there was only one employee using TSA, in 2018 this number increased to three. Identifying ways that the City can encourage employees to use alternative modes of transportation like TSA are needed to grow this metric. Also needed is a way to identify who is using transit and other active travel methods to reach work. In June 2018, the Sustainability Program and reThink launched a survey of city employees on their commuting preferences with a 28% response rate. Nearly 20% of respondents reported commuting less than 5 miles to work one-way, however, 86% of total respondents reported driving a motor vehicle alone as their primary mode of transportation.



	2012	2018	2020 target	2030 target
LGO-6	In Development	3+	Increase	Increase

2015-2018 Local Government Operations SAP Actions Status Report

Action	Status
Continue monitoring city buildings' energy and water usage through ENERGY STAR Portfolio Manager <i>Lead Department: Sustainability</i>	Implemented/ Ongoing
Explore establishing a Revolving Energy Efficiency Loan Fund for city owned buildings and infrastructure <i>Lead Department: Finance, Public Works</i>	Not started
Conduct energy audits for all city-owned facilities <i>Lead Department: Public Works-Facilities</i>	Not started
Shift from potable to non-potable water resources for parks irrigation while increasing efficiency <i>Lead Department: Parks & Recreation, Water Utility</i>	Ongoing
Implement ISO 14001 Environmental Management System <i>Lead Department: Sustainability</i>	Not started
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 <i>Lead Department: Public Works-Fleet</i>	In development
Update the city's idling policy to allow for a maximum of one minute (currently five) for city fleet <i>Lead Department: Public Works-Fleet; City Administration</i>	In development

2020 Local Government Operations SAP Actions

Action
Begin monitoring occupied city buildings' energy and water usage in real time while engaging occupants with dashboards and competitions <i>Lead Department: Public Works</i>
Update Green Building Resolution to reflect minimum energy efficiency standards and percentage of energy derived from on-site renewables for city-owned buildings <i>Lead Department: Sustainability</i>

MOBILITY & URBAN FORM (MUF)

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. Reducing VMT can directly improve air quality and the overall health of a population. However, there are limited options for estimating VMT in non-urban communities (less than 50,000 in population). One method suggested by Partnership for Sustainable Communities is to conduct (multiple days of) traffic counts on selected roadways that are determined to be indicative of locally-generated travel. The Sustainability Program Office will work with the GIS Division to determine the best methodology for calculating VMT in the future.

	2012	2018	2020 target	2030 target
MUF-1	In development	In development	10% less	20% less

MUF-2: Certified Green Neighborhood Development

Green Neighborhood Development creates sustainable communities that implement 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, connections to the community, certified green building, minimum building energy performance, water conservation infrastructure, and construction activity pollution prevention. LEED for Neighborhood Development (LEED ND) certification is available to neighborhood-scaled projects in any phase of planning and design with up to 75% constructed and built projects near completion or completed within the last three years. Certified projects in South Florida include Brickell City Centre in Miami and Downtown Doral. No projects have been certified LEED ND in Central Florida to-date.



	2012	2018	2020 target	2030 target
MUF-2	0 certified	0 certified	2 certified	All redevelopments achieve green certification

MUF-3: Electric Vehicle Charging Stations



Green Tech Media reports that EV sales in the US in 2018 were up eighty-one percent over 2017 sales. More car manufacturers are adding EV and plug-in electric models to their lines. The City of Winter Park has purchased and installed several charging stations throughout the city and has plans to install several more in its city parks to meet Sustainability Action Plan goals related to increasing electric vehicle charging infrastructure and reducing GHG emissions. The Sustainability Program recognizes that key to keeping life-cycle emissions (e.g., emissions related to fuel and vehicle production, processing, distribution, use, and recycling/disposal) down for electric vehicles (EVs) is sourcing electricity from clean and renewable sources.

	2012	2018	2020 target	2030 target
MUF-3	6	8	Increase	Increase

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

Walk Score® scores the “walkability” of an address by analyzing hundreds of walking routes to nearby amenities, providing maximum points to amenities within a 5-minute walk, with less points given to more distant amenities, and no points given for amenities farther than a 30-minute walk. The score also includes a measure of pedestrian friendliness based on population density and road metrics (e.g., block length, intersection density). Winter Park is committed to being a pedestrian and bicycle friendly community. The Winter Park Transportation Advisory Board (TAB) seeks and advises on programs, projects, and safety concerns through recommendations and solutions designed to support and sustain all facets of transportation throughout the City. TAB continues to work with the City’s Public Works and Planning Departments to implement a mobility plan that promotes a safe and balanced multimodal system.



	2012	2018	2020 target	2030 target
MUF-4	55	43-Car Dependent	70	80
MUF-5	In Development	28-Some Transit	-	-
MUF-6	In Development	54-Bikeable	-	-

2015-2018 Mobility & Urban Form SAP Actions Status Report

Action	Status
Increase bike storage downtown while reducing dependence on vehicle parking <i>Lead Department: Public Works/Parks</i>	Implemented/ Ongoing
Evaluate Comprehensive Plan to identify policies related to green building and green neighborhood development. Recommend revisions as deemed desirable <i>Lead Department: Planning</i>	Completed
Evaluate expanding bus service and consider Flex Bus for increasing service to Sunrail station <i>Lead Department: Public Works, Planning</i>	Ongoing
Calculate Vehicle Miles Traveled and GHG emissions as a result of VMT at select intersections <i>Lead Department: Public Works</i>	Not started
Evaluate Transportation Plan with regards to SunRail, safe routes to schools, Complete Streets and regional projects such as trails <i>Lead Department: Public Works</i>	Ongoing
Encourage private developments to increase safety and ease of walking and cycling through site plan review process with recommendation from project design checklist <i>Lead Department: Public Works, Planning</i>	Ongoing
Evaluate Bike Share through a third party vendor as part of a regional wide program in conjunction with SunRail <i>Lead Department: Public Works</i>	In Development
Evaluate Car Share through a third party vendor as part of a regional wide program in conjunction with SunRail <i>Lead Department: Public Works</i>	Not started

2020 Mobility & Urban Form SAP Actions

Action
Encourage businesses to offer employee commuter incentive benefits. <i>Lead Department: Public Works, Planning</i>
Incentivize LEED for Neighborhood Development standards for areas with potential for neighborhood scale redevelopment that ensure human scale, mixed use development and complete neighborhoods. <i>Lead Department: Planning</i>
Survey and publicize workforce housing located within a quarter mile from major employers. <i>Lead Department: Planning</i>
Increase the number of electric vehicle charging stations. <i>Lead Department: Electric Utility</i>
Enhance Pedestrian & Bicycle Wayfinding. <i>Lead Department: Public Works</i>

NATURAL SYSTEMS & RESOURCES (NSR)

The city is committed to preserving and enhancing the 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 (impervious surface)



The Urban Forestry Division was formed to protect, preserve, enhance, and nurture Winter park's urban forest by utilizing best management practices and the most up-to-date scientific research. Staff maintains existing vigorous trees, removes dead/diseased/dying trees, and replants with a diverse species selection in an effort to promote our most important renewable resource as well as sustain our forest for today and future generations. In fiscal year 2018, Urban Forestry removed 543 hazard trees. They also planted over 600 trees in right of ways, parks, and parkland. Building continues to increase and footprints are increasing to setback limits. This reduces available canopy coverage and increases greyspace.

	2012	2018	2020 target	2030 target
NSR-1	55%	51%	55%	60%
NSR-2	57%	53%	57%	60%
NRS-3	43%	47%	43%	40%

NSR -4: Lakes Water Quality-Visibility Depth

The City's Lakes Division is responsible for managing the city's surface waters and surrounding catchment basins. Habitat conservation initiatives include shoreline restoration, exotic aquatic plant control, and maintaining water quality that is healthy for our fish and wildlife. These programs are supplemented by the stormwater retrofit maintenance operations and street sweeping that serve to 'clean' the runoff before it enters our lakes and ponds. The removal of litter, grass clippings, sediment, and streetside debris helps keep these materials out of our lakes and waterways, thus making our waterways more hospitable for wildlife and recreational boaters/skiers alike. Community engagement is accomplished by hosting watershed cleanups and exotic species removal events.



	2012	2018	2020 target	2030 target
NSR-4	2 meters	2.39 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. The Parks and Recreation Department maintains 11.94 acres of designated parkland per 1000 residents, this is above the national average of 9.9 acres/1000 residents. 98% of residential households live within half a mile of public greenspaces such as mini parks, community parks, neighborhood parks, open space/conservation areas, and special purpose parks, see Appendix D. The City continues to meet and exceed the 2020 target of 95% of residents living within a half mile of public greenspace.

	2012	2018	2020 target	2030 target
NSR-5	95%	98%	95%	95%

2015-2018 Natural Systems & Resources SAP Actions Report

Action	Status
Continue aquatic plant management. Lead Department: Public Works, Stormwater, Lakes	Implemented/ Ongoing
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 Departments: Public Works, Stormwater, Lakes, Parks & Recreation	Not started
Increase frequency of existing stormwater infrastructure maintenance including street sweeping Lead Department: Public Works, Stormwater, Lakes	Ongoing
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	In development
Explore leveraging Electric Utility's Green Roof incentive with grant from Stormwater Fund Lead Department: Public Works, Stormwater, Lakes, Electric Utility	Not started

Natural Systems & Resources 2018 SAP Actions

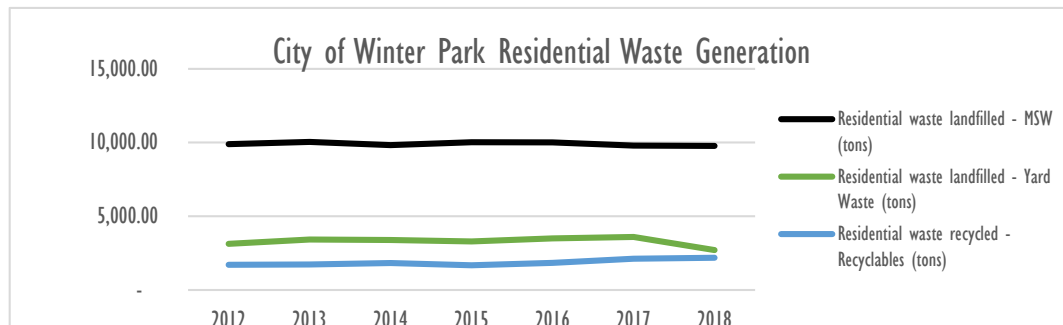
Action
Continue to develop long term reforestation plan to increase tree canopy coverage. Lead Departments: Forestry Division, Parks & Recreation

WASTE DIVERSION & RECYCLING (WDR)

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



Compared to 2012, total residential waste generated (includes MSW, Yard Waste, and Recyclables) in 2018 was only slightly lower than it was in the baseline year. The share landfilled in 2018 was only 3% lower than it was in 2012. The share of waste recycled in 2018 was just 3% higher than it was in 2012.

Beyond 34: Recycling and Recovery for A New Economy, is a first-of-its-kind multi-stakeholder initiative aimed at increasing the current 34% recycling rate in the United States (beyond34.org). The City of Winter Park is an active participant in this U.S. Chamber of Commerce Foundation project that is bringing public and private organizations together towards the common goal of improving local recycling systems and growing a circular economy that eradicates waste. The project is made possible through support from The Dow Chemical Company, Republic Services, Target, Walgreens Boots Alliance, The Coca-Cola Company, and the Walmart Foundation.



In an effort to help residents decrease organic waste going to landfills and thanks to a grant from the Florida Department of Transportation, Keep Winter Park Beautiful provided over one hundred free backyard composters to Winter Park Residents in 2018. Backyard composting turns kitchen and yard waste into usable, nutrient rich soil through natural decomposition, and diverts waste that might otherwise be landfilled. In 2019, KWPB will partner with UF-IFAS Extension Orange County to provide introduction to composting classes at Winter Park Public Library and UF-IFAS Extension Orange County Education Center.

Don't Pitch It - Fix It!, (DPI-FI) initiated by the City of Winter Park and the Winter Park Public Library in May 2017, is a community repair workshop in partnership with Orange County and City of Orlando. In 2018, Winter Park DPI-FI's in April and September resulted in over 100 repairs or a diversion of approximately 450lbs of items that might have been landfilled if not fixed. This unique workshop is designed to reduce the daily consumption of goods in homes, encourage recycling, help save money through trade, and promote exchange of valuable skills and resources from volunteers within the community.



THINK TWICE

→ DON'T WASTE IT WP

cityofwinterpark.org/think-twice

To help encourage Winter Park residents to reduce waste and divert waste streams away from the landfill to recycling and reusing, the City of Winter Park's Sustainability Program launched a customized version of ReCollect Systems, Inc.'s waste management collection platform near the end of 2018. Branded as "Think Twice, Don't Waste It WP," the web tool allows residents to view their collection schedule, sign up to receive collection reminders, and provides a convenient materials look-up tool to determine "What Goes Where?"

	2012	2018	2020 target	2030 target
WDR-1*	12%	15%	75% (state goal)	90%
WDR-2*	14,714 tons	14,664 tons	10% less (13,243 tons)	25 % less
WDR-3*	5,335 tCO ₂ e	5,167 tCO ₂ e	40% less (3,201 tCO ₂ e)	75% less

*2012 SAP Baseline for each metric has been recalculated. WDR-1 is defined as the percentage of total waste generated in the household (MSW, Yard Waste, Recyclables) that are recycled. WDR-2 is defined as the total waste generated by households within the City Limits. WDR-3 is defined as the GHG emissions from waste generated and landfilled from households (MSW and Yard Waste). Methodology applied to calculate GHG emissions: U.S. Community Protocol for Accounting and Reporting of GHG Emissions; Appendix E: Solid Waste Emission Activities and Sources.

2015-2018 Waste Diversion & Recycling SAP Actions Status

Action	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. <i>Lead Department: Sustainability</i>	Implemented/ Ongoing
Evaluate residential and commercial recycling incentive rewards programs. <i>Lead Department: Sustainability</i>	Not started
Evaluate requirement for commercial and multifamily recycling service. <i>Lead Department: Sustainability</i>	Ongoing
Promote Commercial, Multi-Family and Construction & Debris recycling case studies. <i>Lead Department: Communications</i>	Not started
Promote composting case studies. <i>Lead Department: Communications</i>	Not started
Provide free special events recycling. <i>Lead Department: Parks & Recreation</i>	Implemented/ Ongoing
Provide quarterly Hazardous Waste and Electronic Waste events (2018-Annual HHW, Semi-Annual E-Waste) <i>Lead Department: Public Works, Sustainability</i>	Implemented/ Ongoing
Increase recycling to all city owned facilities and parks <i>Lead Department: Parks & Recreation</i>	In Progress

2020 Waste Diversion & Recycling SAP Actions Status

Action
Evaluate Commercial Pay As You Throw Pilot program <i>Lead Department: Sustainability</i>
Pilot test residential curbside composting by adding food waste to yard waste. <i>Lead Department: Sustainability</i>
Work with Orange County and other local governments to explore increasing capacity for waste to energy at landfills. <i>Lead Department: Electric Utility, Sustainability</i>

RECOMMENDATIONS AND CONCLUSIONS

The work done in 2018 show that most of our programs outside of waste diversion rates are tracking towards their intended goals for 2020. While we celebrate these successes we need to keep an eye towards our next set of goals.

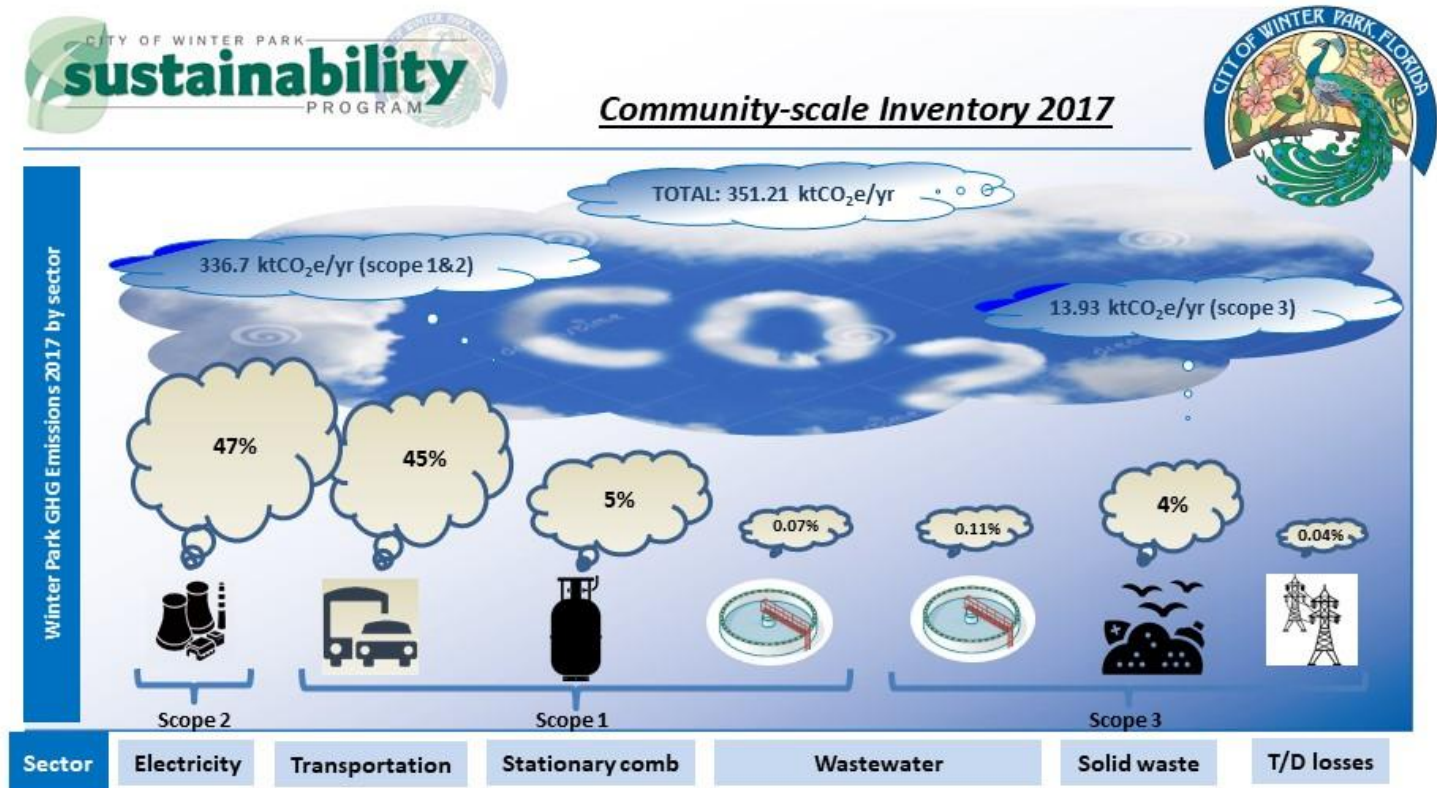
As previously mentioned meeting our waste diversion goals continues to be a challenge. The nationwide waste industry is feeling the impacts of the global market and we too feel it here in Central Florida. Through our involvement with our regional and industry partners we hope to find better solutions in the upcoming year for our recycling needs. In the meantime, we will continue to find better and consistent ways to communicate with our businesses and citizens about solid waste and recycling.

In 2019 we will unveil a new Green Business Program. Taking lessons from previous programs we have created a more streamlined process for participating businesses. City staff will be sharing what tools, existing programs, and incentives we can offer to assist each business. The goal is to create a venue for businesses to share about their successes and challenges in becoming a more sustainable and ultimately a more profitable business.

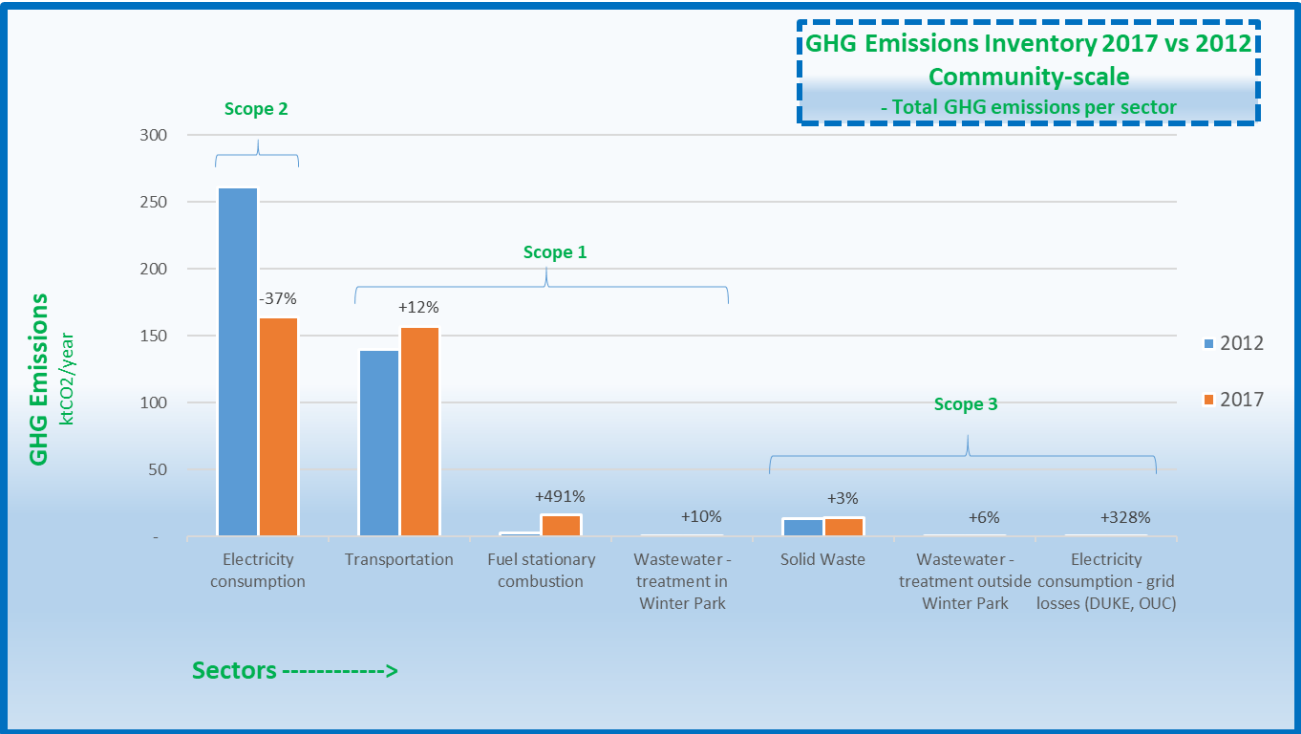
City staff and boards will also be looking at the impact to the City made by the oncoming rush of electric vehicles. We will look at how this technology impacts infrastructure in the City and how further preparations can be made.

We are starting to see the measureable improvements in all seven focus areas since the adoption of the Sustainability Action Plan. We recognized then that in order to meet these future goals we needed to lay the ground work early on and take small steps forward every year. The goals that lie ahead are a steeper climb. To meet these goals will require support and dedication of City Staff, the Commission, and the Citizens of Winter Park.

APPENDIX A: 2017 COMMUNITY GREENHOUSE GAS (GHG) INVENTORY

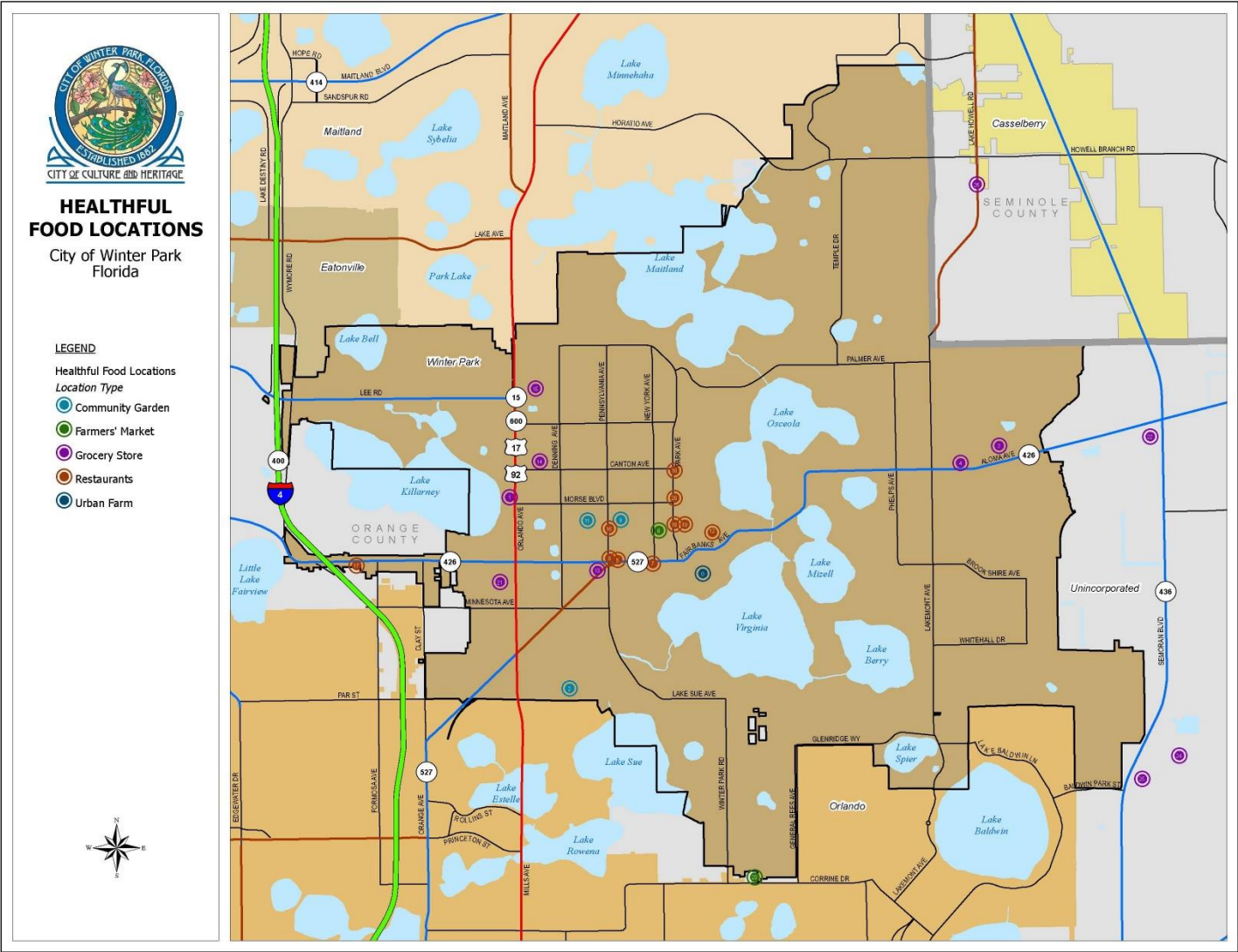


Greenhouse Gas Emissions by Sector. Reprinted from ‘GHG Emissions Inventory 2017 – Community-scale’ by A. Tarnawska, 2018.



Greenhouse Gas Emissions by Sector: 2012 v. 2017 Comparison. Reprinted from ‘GHG Emissions Inventory 2017 – Community-scale’ by A. Tarnawska, 2018.

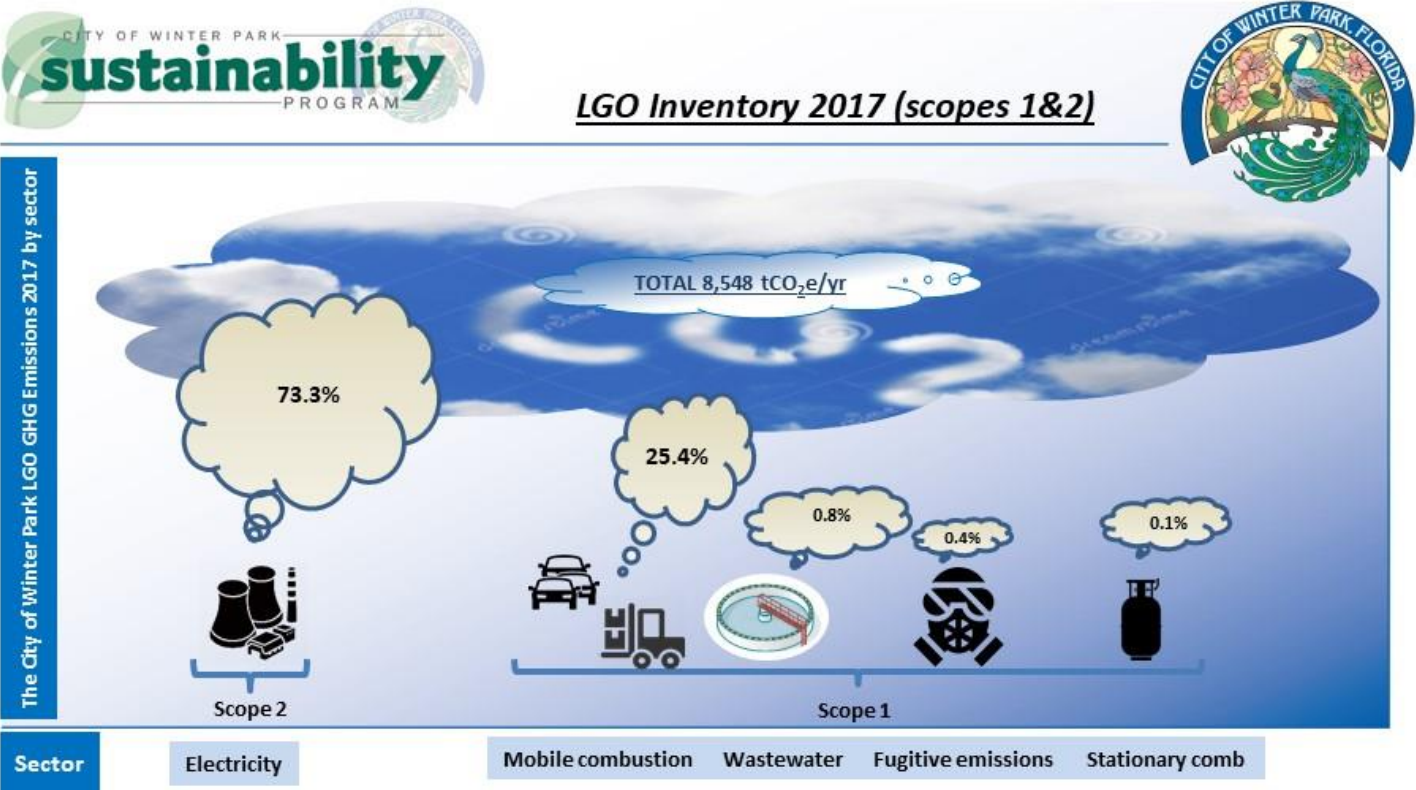
APPENDIX B: LFA-I: LOCAL HEALTHFUL FOOD ASSETS IN WINTER PARK



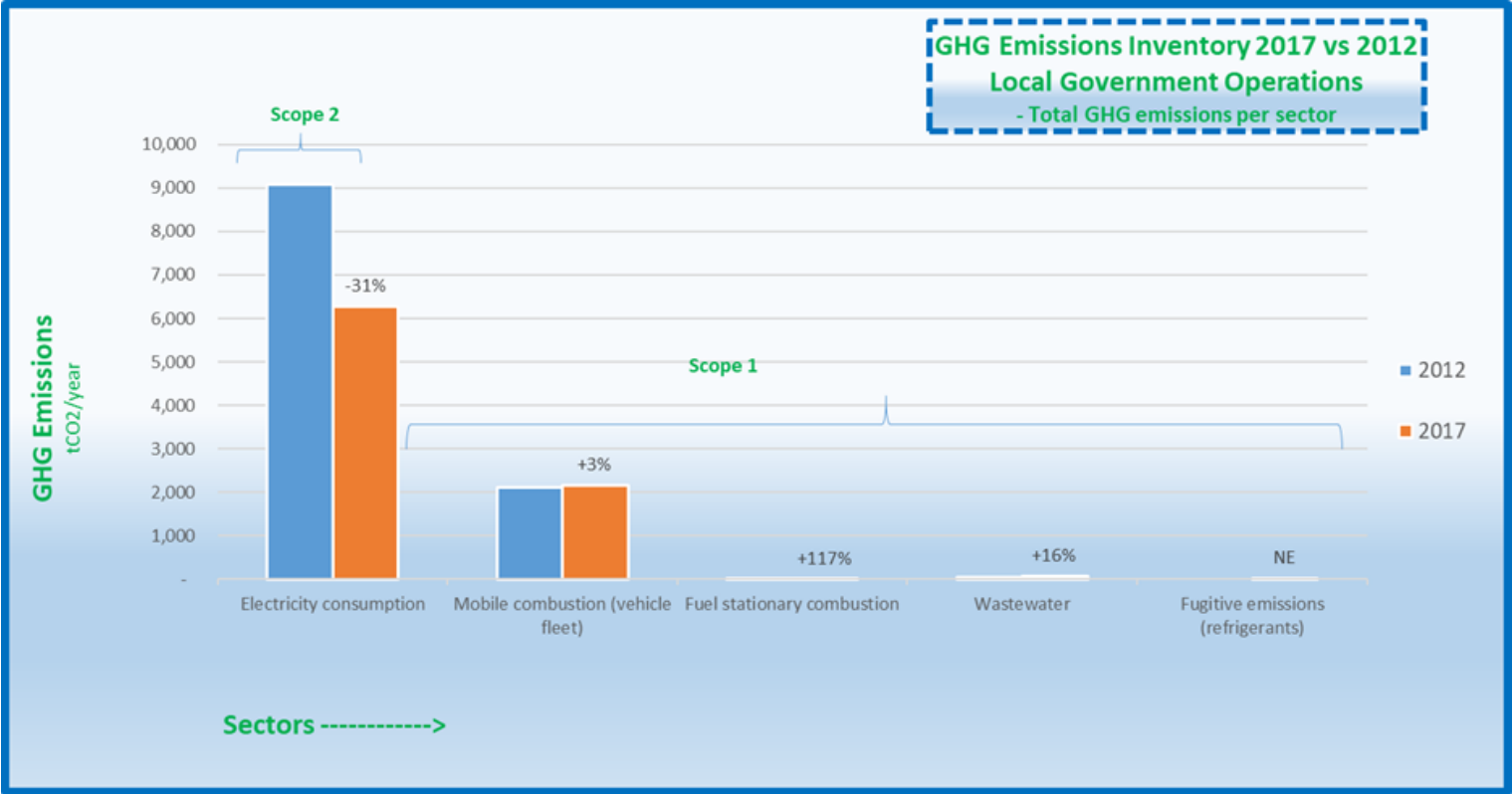
Map of Local Healthful Assets in Winter Park. Created in ArcGIS by A. McGillis, 2019.

TYPE	NAME	ADDRESS
0 Urban Farm	Rollins College Urban Farm	1000 HOLT AVENUE
1 Grocery Store	Trader Joe's	131 N ORLANDO AVENUE
2 Community Garden	Theodore L. Mead Community Garden	1300 S DENNING DRIVE
3 Grocery Store	Publix Super Market	2295 ALOMA AVENUE
4 Grocery Store	Sprouts	1989 ALOMA AVENUE
5 Restaurants	The Ravenous Pig	565 W FAIRBANKS AVENUE
6 Farmers' Market	VP Farmers Market	200 W NEW ENGLAND AVENUE
7 Restaurants	Ethos	601 S NEW YORK AVENUE
8 Restaurants	Swine & Sons	595 W FAIRBANKS AVENUE
9 Community Garden	Our Whole Community Garden	450 W WELBOURNE AVENUE
10 Restaurants	Boca	358 N PARK AVENUE
11 Community Garden	Winter Park Community Center Community Garden	721 W NEW ENGLAND AVENUE
12 Restaurants	Hamilton's Kitchen	300 E NEW ENGLAND AVENUE
13 Grocery Store	Local Butcher & Market	669 ORANGE AVENUE
14 Grocery Store	Publix Super Market	440 ORLANDO AVENUE
15 Grocery Store	Whole Foods Market	1030 ORLANDO AVENUE
16 Restaurants	Dexters	585 W NEW ENGLAND
17 Restaurants	Loving Vegan Market	2240 W FAIRBANKS AVENUE
18 Restaurants	Luma on Park	290 S PARK AVENUE
19 Restaurants	New General	155 E NEW ENGLAND AVENUE
20 Restaurants	Prato	124 N PARK AVENUE
21 Grocery Store	Publix Super Market	741 S ORLANDO AVENUE
22 Grocery Store	La Hacienda	3090 ALOMA AVENUE
23 Farmers' Market	East End Market	3201 CORRIE DRIVE
24 Grocery Store	Alexandria Market	6148 HANGING MOSS ROAD
26 Grocery Store	Walmart Neighborhood Market	2271 N SEMORAN BOULEVARD
27 Grocery Store	Dollar General Market	5465 LAKE HOWELL ROAD

APPENDIX C: 2017 LOCAL GOVERNMENT OPERATIONS SCALE INVENTORY

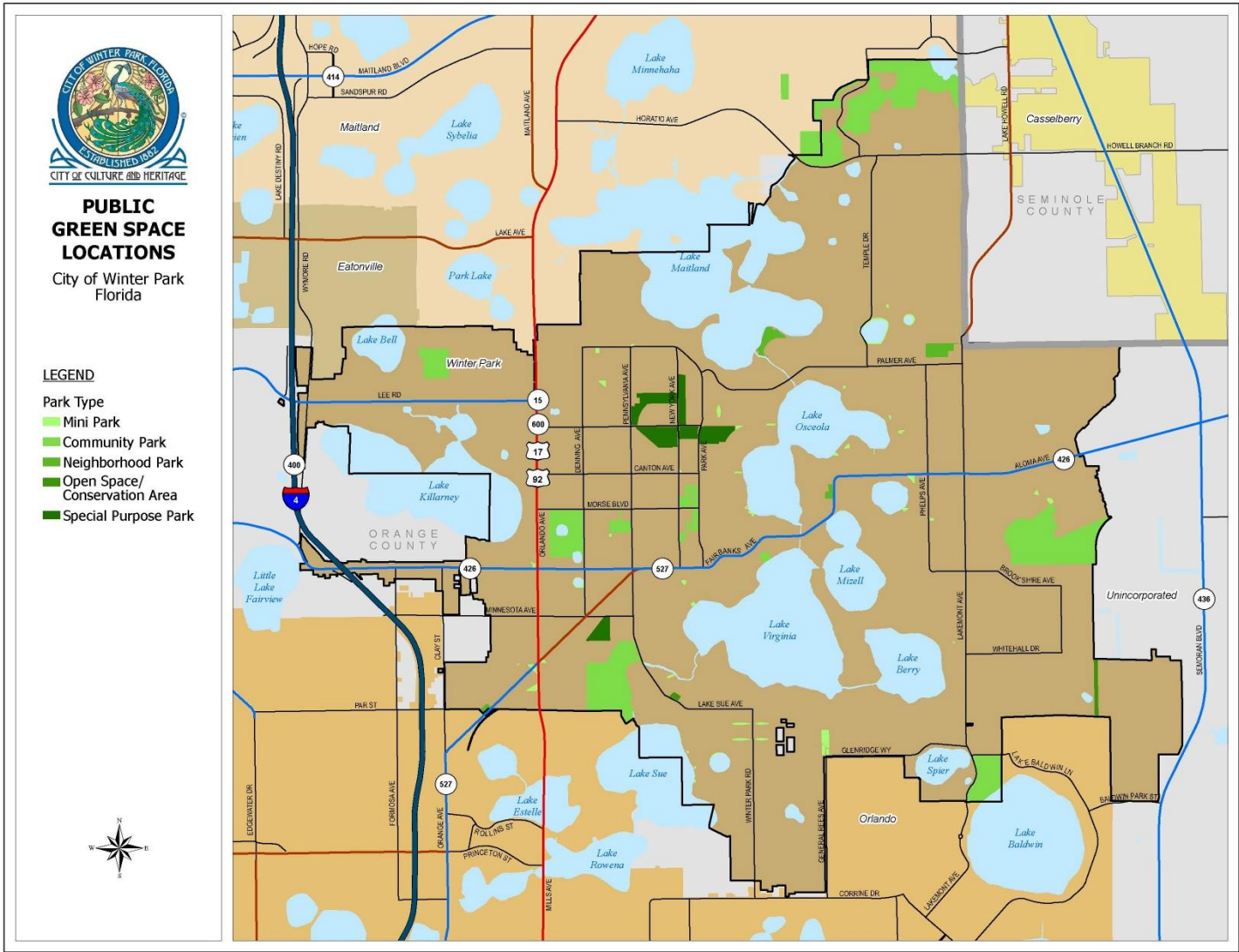


Greenhouse Gas Emissions by Sector. Reprinted from ‘GHG Emissions Inventory 2017 – LGO’ by A. Tarnawska, 2018.



Greenhouse Gas Emissions by Sector. Reprinted from ‘GHG Emissions Inventory 2017 – LGO’ by A. Tarnawska, 2018.

APPENDIX D: NSR -5: RESIDENTS LIVING WITHIN A HALF MILE OF PUBLIC GREENSPACE



APPENDIX D: FY 2019 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
CEGE	Earth Day in the Park	Community Event	City General Fund	\$25,000.00
CEGE	KWPB Sponsorships	KWPB Sponsors, Ballroom Dance Lessons, KWPB Memorial Brick Program, KWPB Bus Ad Program	Sponsors	\$11,500.00
NRS	FDOT/KABA Litter Prevention Grant	GAC/DIH-KOPLF promotion and advertisings, Backyard Composters, Cup-Free Racings, Reusable Straws for Retirement Community	FDOT	\$16,000.00
NRS	KWPB/Lakes Volunteer Events	Watershed Cleanups, Exotic Snail Removals, Volunteer Appreciation Event	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	WastePro	\$25,000.00
				\$137,500.00

Expenses

Category	Title	Details	Column1	Budget
BEW	Energy Conservation Program	Energy Audits, Rebates, Education & Outreach		\$50,000.00
CEGE	Memberships	America in Bloom, ICLEI, Keep America Beautiful Affiliate Fee, Keep America Beautiful Affiliates of Florida Membership Fee, SSDN Annual Membership, USDN Annual Membership, USGBC Annual Membership, Volunteer Match Annual Subscription		\$4,000.00
CEGE	Travel	Keep Florida Beautiful Annual Meeting, USDN Annual Meeting, SSDN Annual Meeting (Registration, Hotel, Airfare, Per Diem)		\$3,500.00
CEGE	America In Bloom	America In Bloom Judge Hosting (Hotel, Meals for 2 judges)		\$1,200.00
CEGE	Earth Day	Community Event		\$19,000.00
CEGE	Green Business Recognition Program	Green Business Recognition Program- Marketing and Events		\$2,500.00
CEGE	Green School Grants	Green School Grants and USGBC Green Classroom Professional Certification		\$3,300.00
CEGE	Keep Winter Park Beautiful & Sustainable Advisory Board Meetings & Sponsor Engagement	Keep Winter Park Beautiful & Sustainable Advisory Board Monthly Meetings-Lunch; KWPB Sponsor Plaques & Mailing		\$1,000.00
CEGE	KWPB&S Advertising in Observer	KWPB&S Initiatives Monthly Advertising in Winter Park Observer		\$2,000.00
NRS	KWPB/Lakes Volunteer Events	Watershed Cleanups, Exotic Snail Removals, Volunteer Appreciation Event		\$10,000.00
NRS	FDOT/KABA Litter Prevention Programs	GAC/DIH-KOPLF promotion and advertisings, Backyard Composters, Cup-Free Racings, Reusable Straws for Retirement Community		\$16,000.00
WDR	Recycling Education and Outreach	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), ReCollect, e-waste recycling events, Don't Pitch It Fix It-meals		\$25,000.00
				\$137,500.00