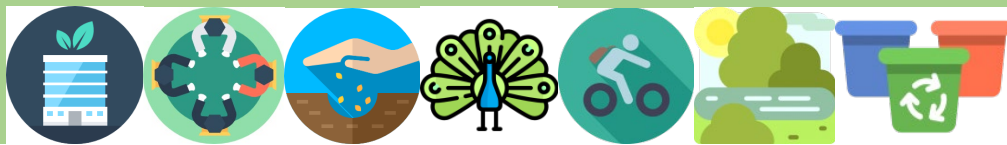


2019

SUSTAINABILITY ACTION PLAN



ANNUAL REPORT

Prepared by:
Vanessa A. Balta Cook
Sustainability & Permitting Planner

Kris Stenger
Assistant Director of Building
Permitting & Sustainability

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

FOREWORD

The City of Winter Park Sustainability Program 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 accepted 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 fifth 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.

Agnieszka Tarnawska
Kyle Dudgeon
Wes Hamil
Luke Bryan
Katherine Jones
Megan Johansson
Allison McGillis
Nathan Milch
Brett Waddell
Josh Nye
Cheri Cameron
Gary Heller

Building, Permitting & Sustainability
Economic Development, CRA
Financial Services
Fleet Services
Human Resources
Lakes Division
Planning & Community Development
Planning & Community Development
Procurement-Warehouse
Urban Forestry
Utility Services
Water & Wastewater Utility

Tangela Moore
Phil Clark
LaNina Dobson
Ann Francis
Donna Hardy

Ferran Services
Phil Clark Consulting
reThink Your Commute
Rollins College
WastePro

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EXECUTIVE SUMMARY

With many of our indicators tracking towards our 2020 SAP targets in 2019 we looked at developing programs, policies, and partnerships that would begin to lay the groundwork for our 2030 targets. The relaunch of our Green Business Recognition Program and developing an Electric Vehicle Readiness Ordinance are such examples of the advancements made in 2019.

In the Spring in partnership with the City of Winter Park Chamber of Commerce we relaunched the Green Business Recognition Program. This program pulled together the existing suite of programs and incentives the City currently offers to businesses along with a framework to recognize the sustainability initiatives and innovative plans that the City's businesses have in place. This dialogue with our business community is critical as we try to meet our goals in the coming decade.

The City continues to track towards our 2020 Green House Gas Reduction Goal. We see that the drivers over the next decade to reach our more ambitious goal in 2030 will be reliant upon the City of Winter Park Electric Utilities energy mix and the transportation sector. In 2019 the Electric Utility made two major decisions regarding what this mix will look like. First, starting in 2020 FMPA will replace FPL as one of our larger providers. While providing a reduced cost the current forecast shows a slight increase in GHG production due to a larger use of coal from one of its major providers. The second decision to take part in a second municipal scale solar program will put us in alignment to reach our renewable energy and greenhouse gas reduction goals. In order to maintain this alignment whether the city is able to maintain or replace Covanta as a provider will be critical decision in the coming years.

In the transportation sector the city continues to build upon the development of its electric vehicle charging infrastructure and the greening of its fleet by replacing older vehicles with hybrid and electric vehicles. In hopes of having a greater effect community wide an electric vehicle readiness ordinance was presented to many city boards, shared with the City of Orlando and Orange County, and workshopped with the City Commission.

We also recognize some of our challenges and none more so than solid waste landfill diversion efforts and recycling. While we continue to be falling well short of our 2020 goal we did see a marked improvement in our recycling rate in 2019.

The efforts made in 2019 highlight what community outreach and education, and partnerships with community organizations and other local governments can accomplish.

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



About half of the energy used in U.S. homes is for cooling and heating. Gains from efficiencies in air conditioning systems over the last few decades is challenged by the increasing trend of larger homes requiring more space conditioning than in the past. The Winter Park Energy Conservation Program (WPECP), funded by the Winter Park Electric Utility and administered by the Winter Park Sustainability Program, continues to focus its efforts on assessments and rebate programs that help residents improve the efficiency of the building envelope of their home. In 2019, over 50 households received free in-home

energy audits and energy conservation kits. Twenty-five rebates covering duct repair and insulations were provided. The WPECP continues to bring the Tinker Education Programs, an end-to-end water and energy conservation education program provider, to Winter Park's 5th grade classrooms. In 2019, over 400 students participated in the program, demonstrating a 32% increase in knowledge in Electric Generation, Efficiency vs. Conservation, and the Water-Energy Nexus through the program.

	2012	2019	2020 target	2030 target
BEW-1	152 audits	54 audits	150 audits	150 audits
BEW-2	95 rebates	25 rebates	100 rebates	100 rebates

BEW-3: Commercial Buildings Benchmarked

Commercial building benchmarking through EPA's ENERGY STAR Portfolio Manager ® (ESPM) measures energy performance of a single building over time, relative to other similar buildings. In 2019, the Winter Park Sustainability Program launched an ESPM Training Program with University of Central Florida's (UCF) Interdisciplinary Studies Department. Students in the UCF Capstone Experience in Environment Studies course, in Spring and Fall semesters, self-selected into the training program. Thanks to their work, an additional 14 commercial buildings were benchmarked over the course of the year. The Sustainability Program Office will continue to provide these businesses with technical assistance and easy-to-upload spreadsheets to help them keep their ESPM profiles current.



	2012	2019	2020 target	2030 target
BEW-3	0 buildings	58 buildings	100 buildings	500 buildings

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



The Winter Park Electric Utility (WPEU) began serving retail electric customers as a municipally-owned electric utility in 2005, committed to improving the reliability of electric services for its customers. Since that time, WPEU has provided low-cost, reliable electric while expanding the percentage of solar energy in its energy portfolio. In 2019, energy providers included FPL, Covanta, FMPA, OUC, and Clean Footprint, resulting in 21% of the portfolio being made up renewable sources. There were approximately 75 residential and commercial customers generating solar on-site in 2019. In January 2020, the City achieved SolSmart Gold Designation, for its efforts to make it faster, easier, and more affordable for residents and businesses to go solar.

	2012	2019	2020 target	2030 target
BEW-4	3.86%	21%	40%	60%

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

Nearly half of residential potable water use occurs outdoors, largely for irrigation. The Winter Park Water Utility (WPWU) Conservation Program continues to stress the importance of water conservation, providing residents with rebates for high-efficiency washing machine, toilet upgrades and smart and weather-based irrigation controllers. In 2019, the Keep Winter Park Beautiful and Sustainable Advisory Board prioritized BEW-5, promoting the WPWU water conservation programs in paid advertisements and dedicating board time to discussions on updates to the City's landscape and tree ordinance that would promote water conservation.



Sewers collect sewage and wastewater from homes and deliver it to wastewater treatment facilities before it is discharged to water bodies or land, or reused. The majority 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 Winter Park Wastewater Treatment Division (WPWTD) continues to offer residents with free shatter-proof containers to collect their used cooking oil for drop-off at a designated collection bin at City Operations. In 2019, this program diverted 150 gallons of used cooking oil.

The WPWTD 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 WPWU continues to explore opportunities for expansion of the City's reclaimed water system. Short-term costs in expansion a water reuse system remain a significant challenge, generally being more expensive than drawing from groundwater sources.



	2012	2019	2020 target	2030 target
BEW-5	178.018 MG	172.495 MG	5% less (169.117 MG)	15% less
BEW-6	0.968 GG	0.697 GG	5% less (0.920 GG)	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. 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	2019	2020 target	2030 target
BEW-8	1%	1%	25% of new construction	50% of new construction and major renovations

2015-2019 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)



Greenhouse gases (GHG) trap heat and make the planet warmer. Human induced GHG emissions stem primarily from the burning of fossil fuels (e.g., coal, oil, and natural gas) for electricity and transportation. In preparation for the 2020 SAP reporting year on this metric, the Winter Park Sustainability Program began gathering data, establishing methodology and calculating for the City's community-wide greenhouse gas emissions inventory in 2018. In 2019, 49% 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	2019	2020 target	2030 target
CEGE-1	417.28 ktCO ₂ e	345.84 ktCO ₂ e	25% less (312.96 ktCO ₂ e)	50% less

CEGE-2: Recognized Green Businesses

In April 2019, The Winter Park Sustainability Program launched the Winter Park Green Business Recognition Program. The program recognizes businesses who have made substantial efforts in implementing environmental sustainable practices in SAP areas. Business can apply for Bronze, Silver, or Gold recognition. The scoresheet consists of over 50 initiatives businesses can earn points from that encourage energy and water conservation, community engagement, local food consumption, active travel, beautification, and waste reduction. In 2019, 6 businesses received recognition, 4 at the Silver level (i.e., 310 Park South, Blu on the Avenue, REI Co-op and Starbucks Park Avenue) and 2 at the Bronze level (i.e., Lane Technology Solutions), representing restaurant, retail and office types.



	2012	2019	2020 target	2030 target
CEGE-2	0 businesses	6 GBRP 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. Since its launch in 2018, over 150 Winter Park residents, employees and visitors have signed the online pledge.

	2012	2019	2020 target	2030 target
CEGE-3	0 residents	156 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 2019, GSGs helped fund a sensory garden, recycled paper program, edible playground garden, bike share program expansion, gARTen raised garden bed expansion and nature center expansion. A complete list of 2019 GSG Winner can be found at cityofwinterpark.org/greenschools.



	2012	2019	2020 target	2030 target
CEGE-4	10	7	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 2019, Keep Winter Park Beautiful (KWPB) volunteers collected over 3,500 pounds of litter, committing just over 2,300 hours to our watersheds and to the beautification of our public spaces. Watershed cleanups, organized in partnership with the Winter Park Lakes Division, covered over 4,000 acres, focusing on the watersheds of Lakes Berry, Spier, Mizell, Sylvan, Osceola, Bell, Wilderness, Sue, Chelton, Forest, Grace, and Baldwin. In 2019, volunteers continued to track their litter collection using the Ocean Conservancy's Clean Swell mobile app. Some of the most likely items found were cigarette butts, food wrappers, and plastic bottle caps. Beautification events, organized in partnership with the Parks and Recreation Department, helped spruce up Trismen Minipark and Kraft Azalea

Garden. Thank you to all of our volunteers!

	2012	2019	2020 target	2030 target
CEGE-5	12	12	12	12

2015-2019 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



Access to foods that support healthy eating contribute to individual health. Healthy eating can reduce the risk of developing chronic preventable conditions like cancer, cardiovascular disease, diabetes, and obesity. The Winter Park Sustainability Program continues to encourage its residents, visitors, workplaces and schools to commit to going meatless on day a week through its Meatless Monday Program. In 2019, 46% of Winter Park households were found to live within 1/2 mile of local/healthful food assets. See Appendix B for locations.

	2012	2019	2020 target	2030 target
LFA-1	In Development	46%	50%	100%

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

The Winter Park Farmers Market (WPFM) located at 200 W. New England Avenue continues to be the number one produce and plant market in Central Florida. Since 2017, the WPFM has welcomed Supplemental Nutrition Assistance Program (SNAP)/EBT cardholders and promoted the Fresh Access Bucks (FAB) program that encourages SNAP recipients to redeem benefits at farmers' markets by matching SNAP funds to spend on Florida-grown fruits and vegetables. Since its inception, the Winter Park Farmers Market SNAP/EBT/FAB program has allowed for nearly \$50,000 in eligible sales, with at least \$24,000 being spent on Florida-grown produce.



	2012	2019	2020 target	2030 target
LFA-2	21.8%	In Development	40%	60%

2015-2019 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 KWVPB grant program. <i>Lead Department: Sustainability</i>	Implemented/ Ongoing

2020 Local Food & Agriculture SAP Actions

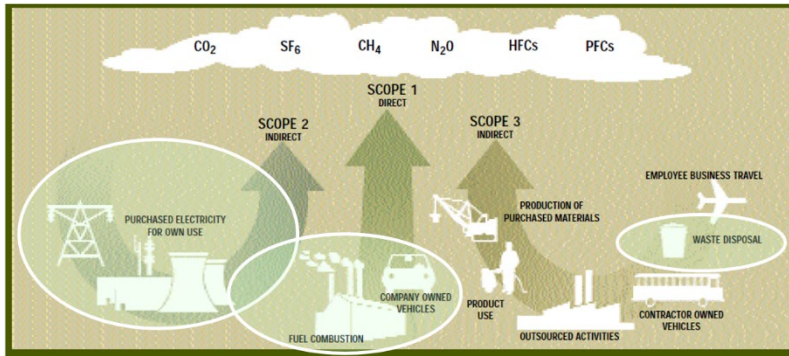
Action
Include Local Food Preference in city's Environmentally Preferable Purchasing policy. <i>Lead Department: City Administration-Procurement</i>
Explore Residential, Commercial and Public Space Urban Agricultural Design. <i>Lead Department: Planning, Parks & Recreation, Sustainability</i>
Pilot an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



Local government operations greenhouse gas (GHG) inventories measure and track GHG emissions emitted from a local government's buildings, vehicles and operations. In preparation for the 2020 SAP reporting year on this metric, the Winter Park Sustainability Program began gathering data, establishing methodology and calculating for the local government operations (LGO) greenhouse gas emissions inventory in 2018. In 2019, the primary contributors to LGO GHG emissions were electricity consumption (74%) and fleet fuel consumption (25%), see Appendix C. Emissions

are presented in tons of carbon dioxide equivalent.

	2012	2019	2020 target	2030 target
LGO-1	11,248 tCO ₂ e	8,591 tCO ₂ e	20% less (6,838 tCO ₂ e)	50% less

LGO-2: Energy usage; LGO-3: Renewable Energy Production; LGO-5: Potable Water Usage

The Winter Park Sustainability Program tracks and benchmarks over 30 city facilities using Energy Star Portfolio Manager. Increasing energy efficiency in local government operations can save energy, helping reduce operations costs, air pollution and greenhouse gas emissions. The City can lead by example and achieve multiple benefits by improving the energy efficiency of new, existing and renovated facilities and in day-to-day operations. In 2019, energy consumption for local government operations was 16,116 MWh, representing nearly 49% of community-wide electric consumption. By then end 2019, the City had begun expanding its renewable energy production on city facilities, adding a solar photovoltaic system to the rooftop of its water treatment plant that will become operational in 2020.



	2012	2019	2020 target	2030 target
LGO-2	16,471 MWh	16,245.44 MWh	10% less (14,824MWh)	25% less
LGO-3	0.00%	0.61%	6.6%	11.6%
LGO-5	49.543 MG	30.138 MG	25% less (37.157 MG)	50% less

LGO-4: City Fleet Usage



Increasing the efficiency of the City's fleet can lower fuel and operating costs, and result in environmental and health benefits from reduced emissions. It can also reduce the City's reliance on foreign fuels, improving energy security and, in the case of electric vehicles, increase reliance on the City's more stable and reliable electrical infrastructure. In 2019, city fleet fuel usage was 146,501 gallons of unleaded fuel and 75,865 gallons of diesel. In August 2019, the City Commission prioritized that at least 2 of the proposed new fleet vehicles to be purchased in 2020 be electric vehicles. In January 2020, the procurement process began for the purchase of 5 fully electric vehicles for the Building and Permitting Services Department.

	2012	2019	2020 target	2030 target
LGO-4	Unleaded: 143,268 gal Diesel: 83,142 gal	Unleaded: 146,501 gal Diesel: 75,865 gal	25% less (Unleaded: 107,451 gal Diesel: 62,357 gal)	50% less

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

The Winter Park Sustainability Program and Human Resources Division continue to encourage employees to consider alternative modes of transportation for their commute, including using transit, biking and walking. Active travel methods are healthier for employees and result in reduced emissions per capita. Employees receive FDOT's reThink Your Commute (reThink) My Commute Options Summary request form during the new employee sign-on process. City of Winter Park employees have 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 2019, 3 employees had a TSA.



	2012	2019	2020 target	2030 target
LGO-6	In Development	3+	Increase	Increase

2015-2019 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

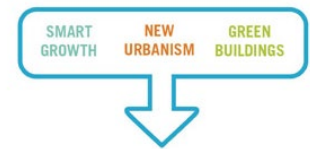


Traditionally, vehicle delay at intersection has been used to determine a new development's transportation impact on the environment. This metric is commonly known as level of service (LOS). However, increasingly jurisdictions nationwide are reconsidering using this metric because of its shortcoming in assessing connectivity and economic development opportunities. Instead, using vehicle miles traveled (VMT) as the metric for transportation impact is increasing. Research suggests reducing VMT can directly improve air quality and the overall health of a population. Methodology for calculating this metric in Winter Park remains in development.

	2012	2019	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, 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. No projects have been certified LEED ND in Central Florida to-date.



IMPROVED QUALITY OF LIFE

	2012	2019	2020 target	2030 target
MUF-2	0 certified	0 certified	2 certified	All redevelopments achieve green certification

MUF-3: Electric Vehicle Charging Stations



While the majority of electric vehicle (EV) owners charge at home, public and workplace EV charging stations provide opportunities to extend daily range. EVs have several advantages over conventional vehicles, including energy efficiency (77% energy efficiency to power vehicles in EVs vs. less than 30% fuel efficiency to power wheels with gasoline) and no tailpipe 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. In 2019, the City of Winter Park maintained 10 public charging stations (13 ports). These stations are available free of charge and are located near the following city facilities: City Hall, SunRail Station, Central Park-Garfield Avenue, Hannibal Square, Public Safety Building, Howell Branch Preserve, Tennis Center, Ward Park and Lake Baldwin Park.

	2012	2019	2020 target	2030 target
MUF-3	6	10	Increase	Increase

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

Walk Score® was founded in 2007 of promoting walkable neighborhoods. The Walk Score® is a walkability index based primarily on distance to nearby amenities. A Transit Score and Bike Score are also available, assessing accessibility to public transit and bike infrastructure, respectively. In 2014, the company was purchased by residential real estate company Redfin. The accuracy of Walk Score® has been challenged by urban planning professionals due to the methodology's lack of consideration of whether there are sidewalks, weather and crossing distances. Winter Park is a Silver Level Bicycle Friendly Community and has a dedicated Transportation Advisory Board (TAB) who seek and advise on programs, projects, and safety concerns through recommendations and solutions designed to support and sustain all facets of transportation throughout the City.



	2012	2019	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	-	-

2015-2019 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 is tasked with the protection, preservation and growth of Winter Park’s tree canopy. Staff oversees routine maintenance and hazard pruning around electric power facilities and city rights-of-way, removal of hazardous and declining trees, and implementation of a vigorous replanting program. In fiscal year 2019, Urban Forestry removed 490 trees and planted 581 trees on city property.

Efforts to maintain canopy coverage on city property will prove largely successful over the long term. This constitutes roughly one quarter of canopy coverage in the city, with residential property making up the lion’s share of available planting space. The continued expansion of greyspace on

residential lots has a deleterious impact on efforts to maintain, let alone expand, present canopy coverage. This coupled with a state law passed in 2019 which strips municipalities of the ability to effectively implement their tree preservation ordinances creates a dynamic that encourages accelerated defoliation of the urban canopy.

In 2019, the Urban Forestry Division underwent a change in structure and management. As a result, precise data on tree canopy, greenspace and greyspace coverage was not generated for fiscal year 2019. Management is currently exploring implementation of a reliable, replicable year-on-year data generation and reporting service to be available beginning fiscal year 2020.

	2012	2019	2020 target	2030 target
NSR-1	55%	In Development	55%	60%
NSR-2	57%	In Development	57%	60%
NRS-3	43%	In Development	43%	40%

NSR -4: Lakes Water Quality-Visibility Depth

The Winter Park Lakes Division (WPLD) continues to monitor water quality of the surface waters within the city and utilize aluminum sulfate (alum) injections on Lakes Mizell, Virginia, and Osceola. Alum is used to bind with the phosphorus contained in the lake’s sediments and prevent it from recycling into the water column where it can fuel algae blooms. In 2019, multiple lakes were stocked with sterile grass carp for the biological control of the invasive non-native aquatic plant, *hydrilla verticillata*. Through an interlocal agreement with Orange County, WPLD now manages the Lake Killarney drainage wells which serve as mechanism for elevation control of the lake. Routine inspections and cleanings of stormwater conveyance systems took place in order to maintain proper function and debris collection. In 2019, 1,525 inspections were performed with 889 maintenance events that removed a total of 654 cubic yards of sediment, litter, grass clippings, sticks/branches, etc. from the stormwater systems and prevented their dispersal into the lakes.



The small fences enclosing the outfall pipes (referred to as “traps”) in the lakes are designed to catch litter and debris that wash in from the surrounding neighborhood streets via these underground stormpipes. A total of 258 inspections were performed on these outfall traps with 258 cleanings resulting in the removal of 75 cubic yards of debris.

	2012	2019	2020 target	2030 target
NSR-4	2.24 meters	2.16 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	2019	2020 target	2030 target
NSR-5	95%	98%	95%	95%

2015-2019 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 (percentage of residential solid waste recycled, excludes yard waste); WDR-2: Total tons of solid waste generated (includes residential solid waste & recyclables); WDR-3: GHG emissions from solid waste (includes residential solid waste only)



The Florida Legislature established a statewide weight-based recycling goal of 75% by 2020. Florida's recycle rate has declined since 2016 and without significant changes the 75% goal will not be reached. It is important to note that there is developing consensus that suggests using a weight based goal may not result in efficient or effective recycling. In 2019, nearly twenty (20) percent, by weight, of residential waste leaving the home (not including yard waste) was collected through the City's Residential Curbside Recycling Program. These items are hauled by WastePro to the Orange

County Transfer Station where it is graded and acceptable loads are transferred to the Waste Management Sorting Facility in Cocoa.

The Winter Park Sustainability Program is exploring different ways to assess the City's progress in increasing waste diversion apart from the weight-based method described above. For example, using population estimates from the Bureau of Economic and Business Research to determine changes on a per capita basis on waste diversion. In 2019, per capita residential solid waste landfilled was 600lbs., 17% less than it was in 2012 (720lbs). In 2020, a new service verification system should allow for more analysis in regard to cart set out rates and recycling participation.



Food wastes are the second-largest component of municipal solid waste. The Winter Park Sustainability Program, as a Keep America Beautiful Florida Affiliate, continues to encourage residents, thanks to a grant from the Florida Department of Transportation, to compost their kitchen scraps in backyard composters. In 2019, Keep Winter Park Beautiful partnered with UF-IFAS Extension Orange County to offer four (4) introduction to composting classes, reaching over 80 participants and distributing over 50 composters to the Winter Park community.

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 2019, Winter Park DPI-FI's in February and September resulted in nearly 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

Recognizing that solutions to increase diversion rely greatly on available regional infrastructure (e.g., commercial composting facilities, materials recovery facility) and regional recycling markets, the Winter Park Sustainability Program continues to look for opportunities to partner with local government agencies and push for collective actions that will better diversion conditions for all stakeholders. In 2020, the City will partner with Orange County and other local governments to launch a regional communication campaign to increase

recycling and reduce contamination. The City's Think Twice web tool continues to be an excellent resource for residents to view their collection schedule, sign up to receive collection reminders, and determine "What Goes Where?",

	2012	2019	2020 target	2030 target
WDR-1	15%	20%	75% (state goal)	90%
WDR-2	11,589 tons	11,192 tons	10% less (13,243 tons)	25 % less
WDR-3	5,335 tCO ₂ e	4,855 tCO ₂ e	40% less (3,201 tCO ₂ e)	75% less

2015-2019 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

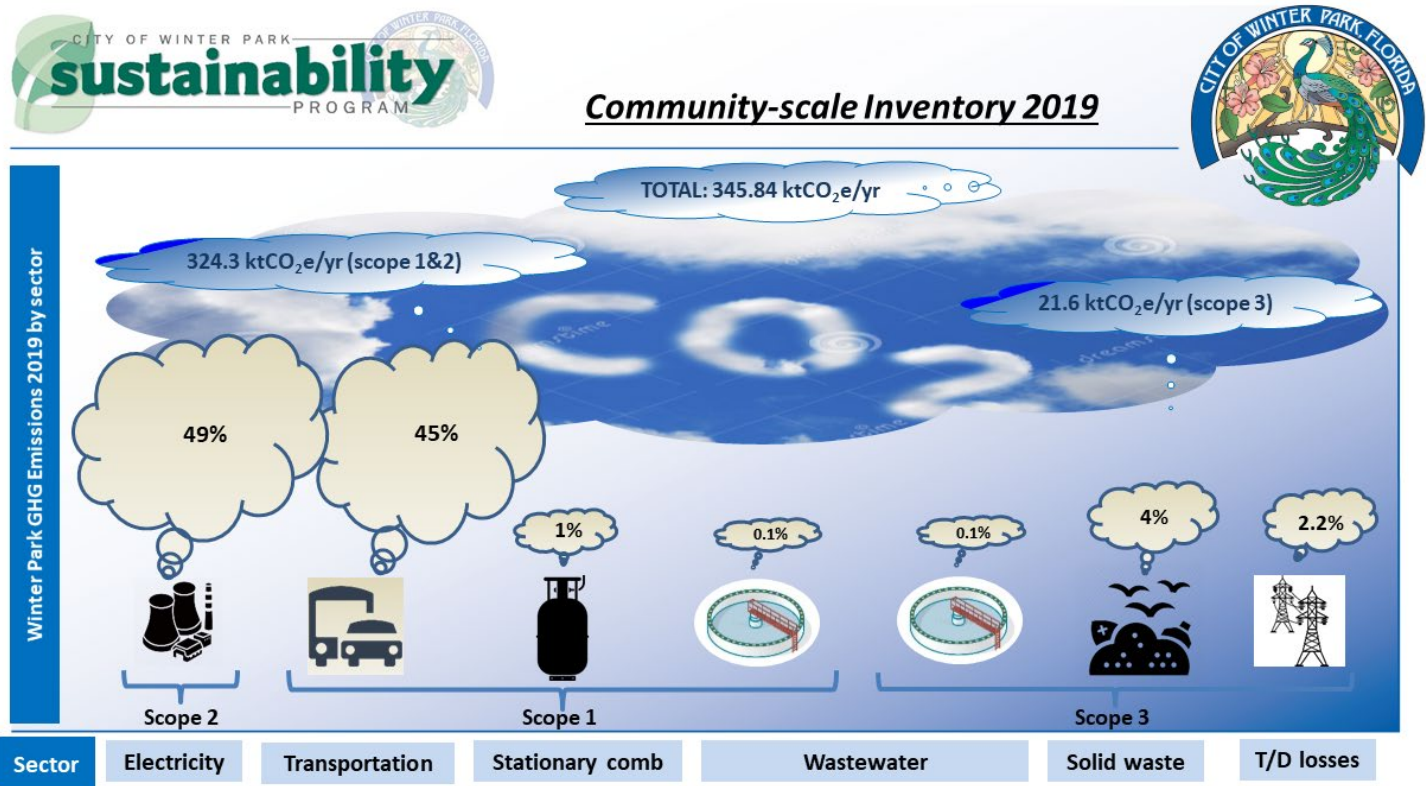
As we craft this document the world is undergoing a change brought about by the COVID-19 pandemic. So many questions are unanswered at this point, but what we do know is that sustainability and resilience will play a part in how our community emerges from it. The partnerships that our program has made with the Winter Park Chamber of Commerce, Rollins College, local churches and other community organizations can be of benefit in this recovery.

It seems budgets will become tighter in the upcoming fiscal year so in 2020 we will look at how we can educate citizens, businesses, and our own municipal functions on resource efficiency and sustainable procurement.

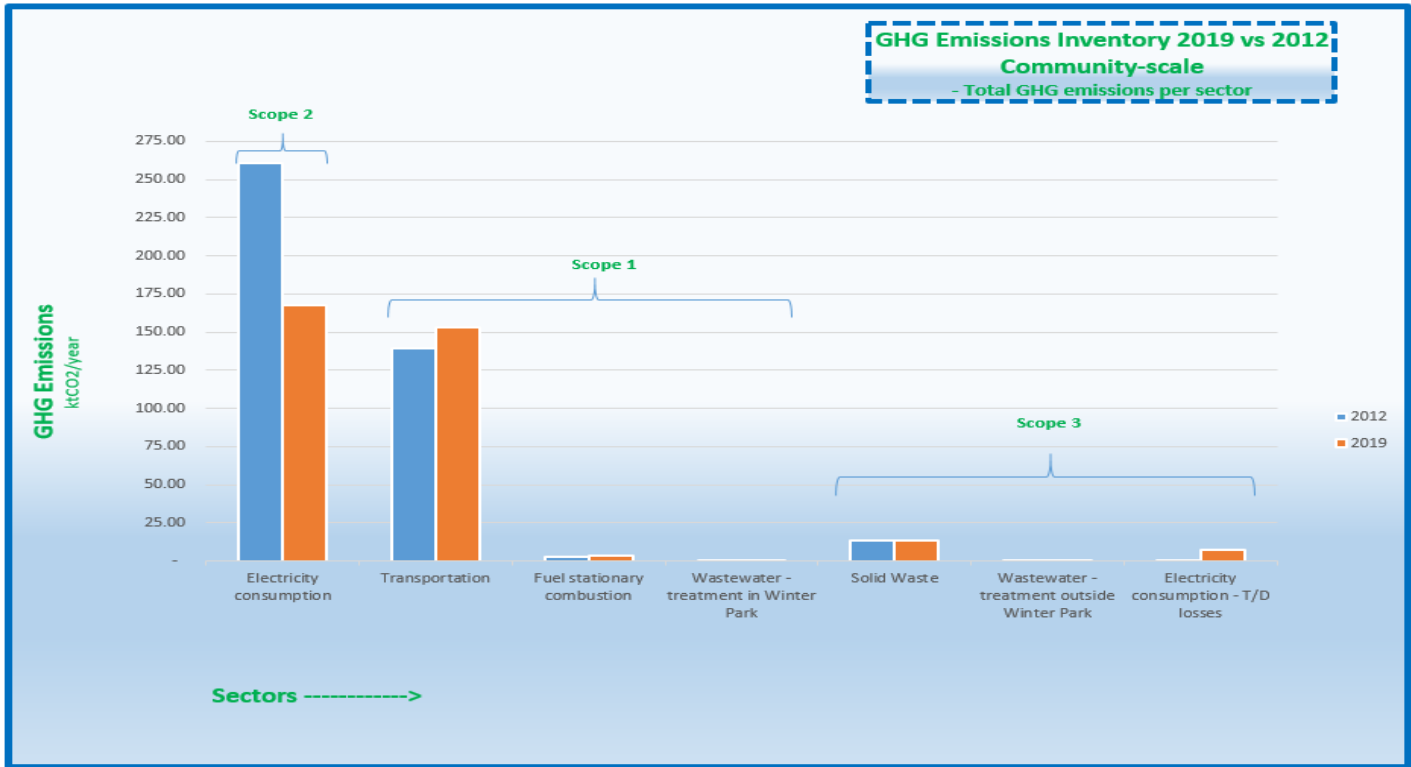
This will also be a year in which we need to listen to what it is that our community and businesses need from our sustainability and city operations. What business practices have and will we need to implement to serve them better in the coming years following these events.

Finally, this pandemic is also bringing to light the importance of health and equity in everything that we do. As we look at updating our Sustainability Action Plan for the next decade health and equity will need to shine through it all. For as they say it you don't have your health you have nothing.

APPENDIX A: 2019 COMMUNITY GREENHOUSE GAS (GHG) INVENTORY

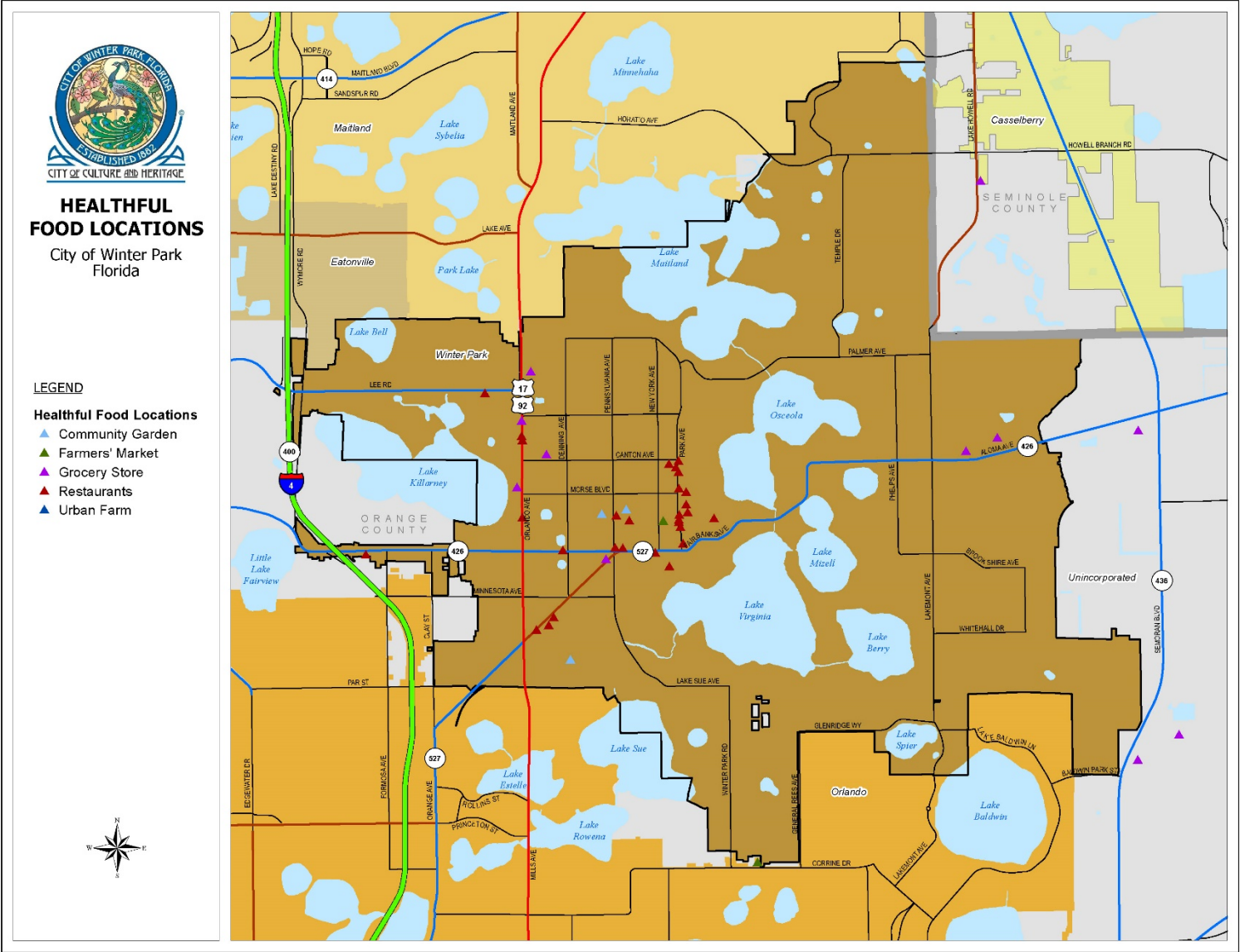


Greenhouse Gas Emissions by Sector. Reprinted from ‘GHG Emissions Inventory 2019 – Community-scale’ by A. Tarnawska, 2020.



Greenhouse Gas Emissions by Sector: 2012 v. 2019 Comparison. Reprinted from ‘GHG Emissions Inventory 2019 – Community-scale’ by A. Tarnawska, 2020.

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



Map of Local Healthful Assets in Winter Park. Created in ArcGIS by N. Milch and A. McGillis, 2020.

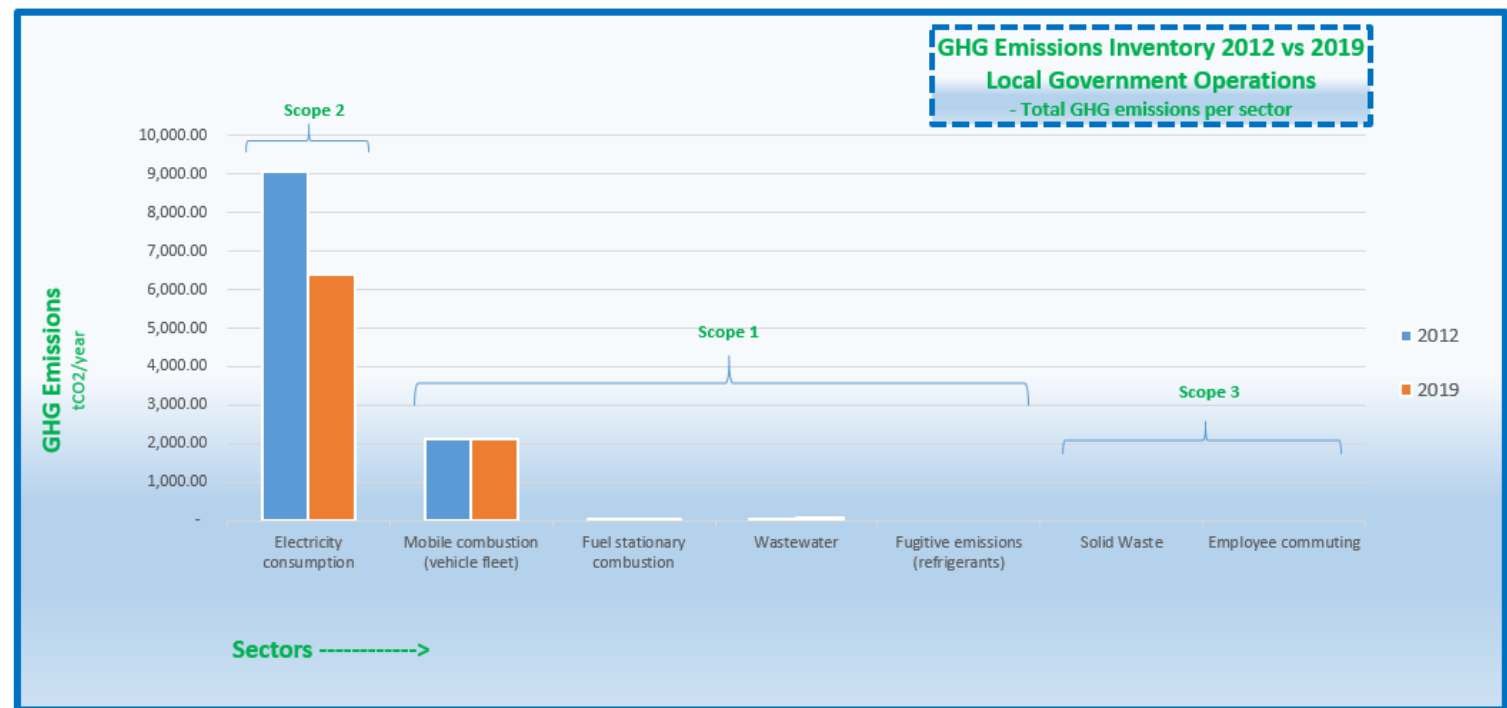
TYPE	NAME	ADDRESS
Community Garden	Theodore L. Mead Community Garden	1300 S DENNING DRIVE
Community Garden	Our Whole Community Garden	450 W WELBOURNE AVENUE
Community Garden	Winter Park Community Center Community Garden	721 W NEW ENGLAND AVENUE
Farmers' Market	East End Market	3201 CORRINE DRIVE
Farmers' Market	WP Farmers Market	200 W NEW ENGLAND AVENUE
Grocery Store	Alexandria Market	6148 HANGING MOSS ROAD
Grocery Store	Dollar General Market	5465 LAKE HOWELL ROAD
Grocery Store	La Hacienda	3090 ALOMA AVENUE
Grocery Store	Local Butcher & Market	669 ORANGE AVENUE
Grocery Store	Publix Super Market	2295 ALOMA AVENUE
Grocery Store	Publix Super Market	440 N ORLANDO AVENUE
Grocery Store	Publix Super Market	741 N ORLANDO AVENUE

Grocery Store	Sprouts	1989 ALOMA AVENUE
Grocery Store	Trader Joe's	131 N ORLANDO AVENUE
Grocery Store	Walmart Neighborhood Market	2271 N SEMORAN BOULEVARD
Grocery Store	Whole Foods Market	1030 N ORLANDO AVENUE
Restaurants	310 Park South	310 S PARK AVENUE
Restaurants	Another Broken Egg Cafe	430 N ORLANDO AVE #100
Restaurants	Austin's Coffee	929 W FAIRBANKS AVENUE
Restaurants	Blu On The Avenue	326 S PARK AVENUE
Restaurants	Boca	358 N PARK AVENUE
Restaurants	Briarpatch Restaurant	252 N PARK AVENUE
Restaurants	Cafe De France	526 S PARK AVENUE
Restaurants	Café Frutos Selectos	430 W NEW ENGLAND AVENUE
Restaurants	Cocina 214	151 E WELBOURNE AVENUE
Restaurants	Create Your Nature	1284 ORANGE AVENUE
Restaurants	Eden's Fresh	1330 ORANGE AVENUE
Restaurants	El Potro Mexican Restaurant	501 N ORLANDO AVENUE #217
Restaurants	Ethos	601 S NEW YORK AVENUE
Restaurants	Frutta Bowls	501 N ORLANDO AVENUE #225
Restaurants	Glass Knife	276 S ORLANDO AVENUE
Restaurants	Hamilton's Kitchen	300 E NEW ENGLAND AVENUE
Restaurants	Loving Vegan Market	2240 W FAIRBANKS AVENUE
Restaurants	Luma on Park	290 S PARK AVENUE
Restaurants	Marketplace - Rollins	1000 HOLT AVENUE
Restaurants	Mynt Indian Cuisine	535 W NEW ENGLAND AVENUE #100
Restaurants	New General	155 E NEW ENGLAND AVENUE
Restaurants	Orchid Thai Cuisine	305 N PARK AVENUE
Restaurants	Panera Bread	329 N PARK AVENUE #107
Restaurants	Park Avenue Smoothies Inc	111 E LYMAN AVENUE
Restaurants	Power House Café Inc	111 E LYMAN AVENUE
Restaurants	Prato	124 N PARK AVENUE
Restaurants	Proper and Wild	155 E MORSE BOULEVARD
Restaurants	Reel Fish Coastal Kitchen & Bar	1234 ORANGE AVENUE
Restaurants	Swine & Sons	595 W FAIRBANKS AVENUE
Restaurants	Tamarind Indian Cuisine	501 N ORLANDO AVENUE #149
Restaurants	The Ravenous Pig	565 W FAIRBANKS AVENUE
Restaurants	Zoes Kitchen	501 N ORLANDO AVENUE #323
Urban Farm	Rollins College Urban Farm	1000 HOLT AVENUE

APPENDIX C: 2019 LOCAL GOVERNMENT OPERATIONS SCALE INVENTORY

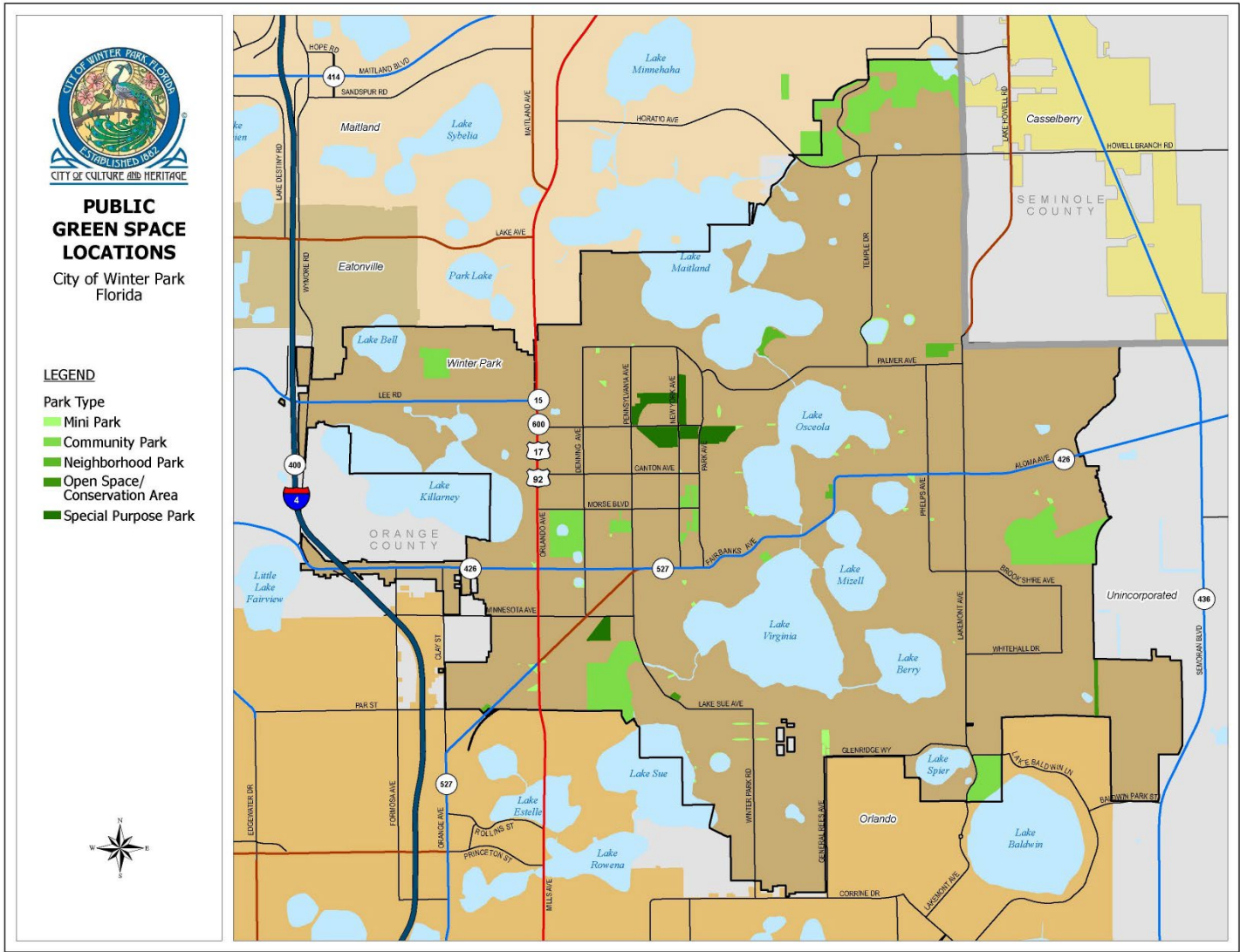


Greenhouse Gas Emissions by Sector. Reprinted from 'GHG Emissions Inventory 2019 – LGO' by A. Tarnawska, 2020.



Greenhouse Gas Emissions by Sector. Reprinted from 'GHG Emissions Inventory 2019 – LGO' by A. Tarnawska, 2020.

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



Map of Local Healthful Assets in Winter Park. Created in ArcGIS by A. McGillis, 2020.

APPENDIX D: FY 2020 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	City General Fund	Earth Day Event and Community Outreach	City General Fund	\$25,000.00
CEGE	KWPB Sponsorships	KWPB Sponsors, Ballroom Dance Lessons, KWPB Memorial Brick Program, KWPB Bus Ad Program	Sponsors	\$12,500.00
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,commerical recycling - promote and assist, com., multi fam, C&D recycling case studies, composting pilot and case studies	WastePro	\$25,000.00
				\$138,500.00

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, 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)		\$2,250.00
CEGE	America In Bloom	America In Bloom Judge Hosting (Hotel, Meals for 2 judges)		\$1,200.00
CEGE	Earth Day	Community Event		\$18,000.00
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		\$3,175.00
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		\$1,400.00
CEGE	KWPB&S Advertising in Observer	KWPB&S Initiatives Monthly Advertising in Winter Park Observer		\$5,640.00
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 Racing, Reusable Straws for Students		\$16,000.00
WDR	Recycling Education and Outreach	provide recycling education-research residential and com recycling incentives,commerical 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
				\$139,165.00