



JOINT CLIMATE ACTION PLAN

TWO CITIES. ONE SUSTAINABLE FUTURE.

5-YEAR UPDATE

Oakland Park & Wilton Manors's Joint Climate Action Plan





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TWO CITIES. ONE SUSTAINABLE FUTURE.

About the Climate Action Plan & Update

Developed in 2019, the Joint Climate Action Plan (JCAP) between the Cities of Oakland Park and Wilton Manors represents a collaborative effort to address the pressing challenges of climate change at the local level. Recognizing the interconnected nature of their communities and the shared environmental impacts, these neighboring cities have joined forces to create a comprehensive strategy aimed at reducing greenhouse gas emissions, enhancing resilience to climate resilience, and promoting sustainable development. The JCAP outlines a series of goals, initiatives, and actions designed to mitigate climate risks, improve energy efficiency, and foster a greener, more sustainable future for all residents.

Through this plan, Oakland Park and Wilton Manors commit to a shared vision of environmental stewardship and community well-being. Key components of the JCAP include efforts to transition to renewable energy sources, enhance public transportation and pedestrian infrastructure, promote water and energy conservation, and protect natural habitats. By working together, these cities aim to not only address their own climate challenges but also serve as a model for regional cooperation and innovation in climate action.



5-Year Update

This update document highlights the progress made since the plan's inception five years ago, showcases successful initiatives, and sets the stage for future endeavors to address the root causes and impacts of climate change.

The proposed actions are items that can be started or accomplished in the next few years. A more comprehensive future update will identify specific metrics that can be attached to each of the actions and provide a broader and long-term list of actions.



How to Read this Update

WHO COMPLETED THE ACTION.

Complete and In-Progress Actions

Completed by Both

- Oakland Park and Wilton Manors performed **Flood Vulnerability Assessments** to understand the impacts related to flooding and sea level rise. Both assessments are compliant with the Resilient Florida Program (s. 380.093, F.S.) opening up access to over \$200 million a year in funding for projects. Both communities received grants to complete the vulnerability assessments.¹ [ST-1, RR-1]

WHAT WAS COMPLETED.

HOW THIS ACTION RELATES TO THE JOINT CLIMATE ACTION PLAN.

This is not a comprehensive list of all actions that Oakland Park and Wilton Manors have taken over the past five years, but highlights to share with the community.



Sustainable Communities and Transportation

GOAL: Adapt to the impacts of climate change and reduce greenhouse gas emissions by reshaping where and how to build and move from place to place.

Complete and In-Progress Actions

Completed by Both

- Oakland Park and Wilton Manors performed **Flood Vulnerability Assessments** to understand the impacts related to flooding and sea level rise. Both assessments are compliant with the Resilient Florida Program (s. 380.093, F.S.) opening up access to over \$200 million a year in funding for projects. Both communities received grants to complete the vulnerability assessments.¹ [ST-1, RR-1]
- Oakland Park and Wilton Manors updated their **seawall ordinances** to be in line with new Broward County standards. This sets the new heights for **seawalls** to be five (5) feet NAVD88 in most cases. Check with the City's building department for more information. (Ordinance 2022-015, Oakland Park and Ordinance 2020-002, Wilton Manors).² [ST-9]
- Oakland Park and Wilton Manors have adopted updated FEMA flood maps reflecting increased flood risk of the community. [ST-2]
- Wilton Manors created a Historical Preservation Board (Ordinance 2021-012) while Oakland Park already had one in place. [ST-5]
- Wilton Manors has **seven charging stations** for electric vehicles and Oakland Park has a total of 25 charging stations through the community. Individuals can also install electric vehicle charging stations through programs like Florida Power & Light's **EVolution Home Program**.³ [ST-8, EF-7]



Florida Power & Light's EVolution Home Program.

The FPL EVolution Home program provides unlimited off-peak EV charging on nights, weekends, and holidays with no upfront costs. FPL handles permitting, installation, and maintenance of a Level 2 charger and 240-volt circuit, offering a fast and convenient charging experience.

What is Sea Level Rise?

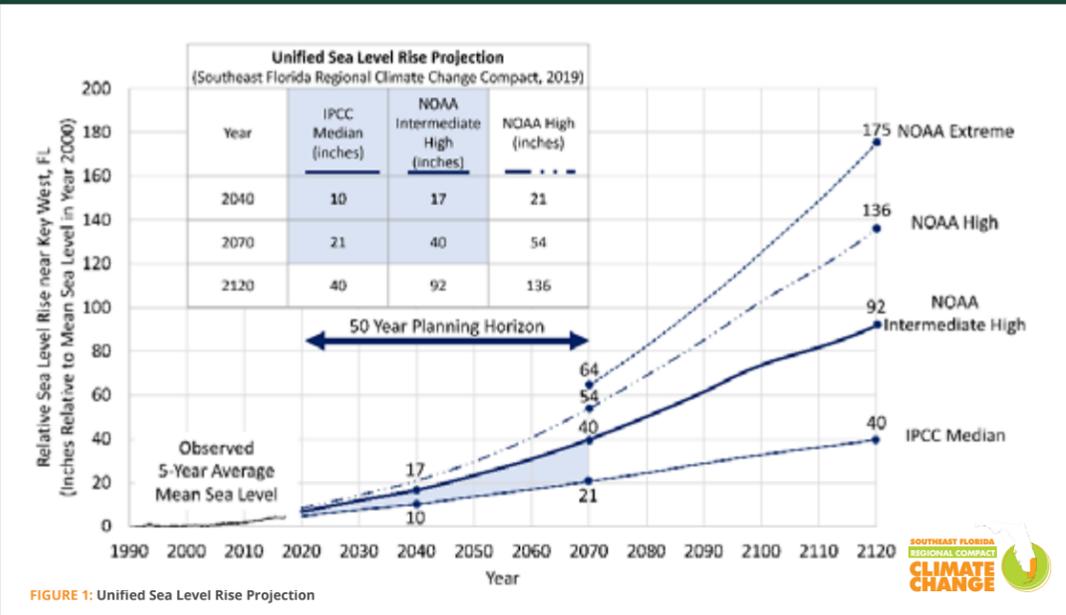


FIGURE 1: Unified Sea Level Rise Projection

Sea level rise refers to the long-term increase in the average height of the world's oceans, primarily caused by warming of our planet. As temperatures rise, glaciers and ice sheets melt, adding water to the oceans, while heating the ocean also causes seawater to occupy more volume (like an old-fashioned thermometer). In Southeast Florida, sea level rise exacerbates flooding, storm surge, and saltwater intrusion, threatening infrastructure, ecosystems, and our communities. The Unified Sea Level Rise Projection of the Southeast Florida Climate Change Compact provides localized, science-based estimates of future sea levels, helping our policymakers and planners address these risks with proactive strategies.

Completed by Oakland Park

- Oakland Park completed the **Prospect Road Complete Streets Project**, which received the 2023 People's Choice Award for the Best Complete Streets Project in the tri-county area. [ST-6, ST-8]
- Oakland Park is increasing the safety and walkability of the area around the elementary school, with funding from the **Safe Routes to School Program**.⁴
- Oakland Park added a Sustainability and Resilience Element to their 2023 Comprehensive Plan guiding the City's future goals. [ST-7, ST-8]
- Oakland Park has a rating of 6 in the Community Rating System (CRS) getting our residents and businesses up to a 20% discount on flood insurance.

Oakland Park is currently a **Class 6** providing a **20% discount** for those required to purchase flood insurance.

Completed by Wilton Manors

- Wilton Manors developed a **Transportation Master Plan** which examines multimodal facilities that create a cohesive community and address the diverse needs of residents, visitors, and business owners.⁵ [ST-6]
- Wilton Manors has implemented a **Circuit Shuttle**, which is 100% electric and provides on demand travel around the city for \$2. They also provide discounts on **Ride Sharing** on the weekends and for big events to encourage the use of alternative modes of transportation.⁶ [ST-8, EF-7]
- Wilton Manors incorporated green building requirements into development regulations encouraging electric vehicle charging stations, solar panels, low impact development, and other innovative designs. (Ordinance 2020-005) [ST-4]
- Wilton Manors has **improved pedestrian crossing** along Wilton Drive, creating a more walkable City. [ST-12]
- Wilton Manors has implemented transit-oriented corridors on all commercial corridors and provide height bonuses for mixed use redevelopments. (Article 30) [ST-6]

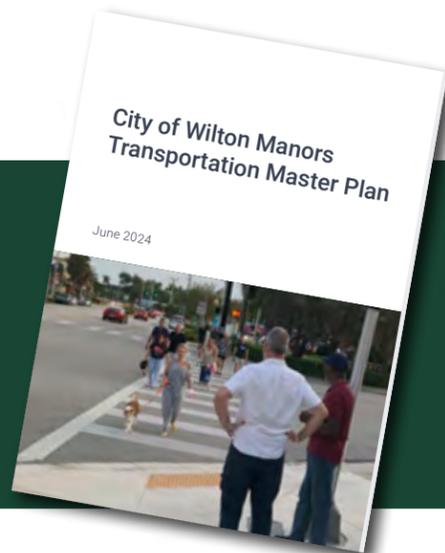
Wilton Manors's Circuit Shuttle



Oakland Park's Safe Routes to School Program

Proposed Actions

- Continue to implement new ride-share discount programs and introduce electric shuttles to promote sustainable transportation options and reduce vehicle emissions.
- Collaborate on the management and maintenance of seawalls to protect coastal areas and mitigate erosion.
- Set clear goals and timelines for implementing resilience measures, such as elevating critical infrastructure and enhancing stormwater management systems.
- Incorporate further green building standards into local building codes, requiring energy efficiency, water conservation, and the use of sustainable materials in all new construction projects.
- Explore opportunities for joint initiatives or regional programs that promote green building across both cities, potentially extending incentives or recognition to projects that span city boundaries.
- Explore ways to better balance historic preservation and the need for adaptation to mitigate flooding and sea level rise.



The City of Wilton Manors Transportation Master Plan focuses on expanding the network for walking and biking around the community creating more safe and convenient options for transit.



Water, Sewer, and Stormwater

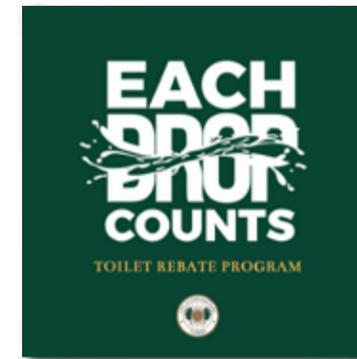
GOAL: Advance the water management strategies and infrastructure improvements needed, in parallel with existing water conservation efforts, to mitigate the potential adverse impacts of climate change and sea level rise on water supplies, water and wastewater infrastructure, and water management systems, inclusive of regional canal networks, pumps, control structures, and operations.

Complete and In-Progress Actions

Completed by Both

- Oakland Park and Wilton Manors offer a **Toilet Replacement Rebate** program designed to encourage water conservation by providing rebates for replacement of existing toilets with more water efficient ones. [WS-11, PO-2]
- Oakland Park and Wilton Manors are continuously relining the wastewater pipes to reduce inflow and infiltration. [WS-4]

With aging infrastructure, heavier rainfall, and sea level rise, a major challenge for both communities are so-called Inflow and Infiltration. This occurs when rainwater or groundwater enters the sewer system or groundwater, or sea water enters the stormwater system. For sewers systems, excess water can overwhelm the system, leading to backups, overflows, and increased treatment costs. For stormwater system, excess water can reduce the efficiency of the system, worsen flooding, and the time for water to recede after a storm.



Completed by Oakland Park

- Oakland Park has completed a comprehensive **Stormwater Master Plan Update**, including the impact of sea level rise in 2022. [WS-8]
- Oakland Park implemented electronic water meters to improve accuracy in water usage measurement, providing residents with a tool to enhance water conservation. [WS-9]

Completed by Wilton Manors

- Wilton Manors conducted a **Water, Wastewater, and Stormwater Integrated Master Plan** in 2020 and has made substantial inroads in completing several projects outlined in the plan.⁷ [WS-8]
- Wilton Manors developed the **Building a Sustainable Future** campaign that aims to evaluate the City's water, wastewater, and stormwater systems to develop a capital improvement plan.⁸ [WS-1, PO-2]
- Wilton Manors is replacing sewer lift stations to continuously improve utility services to reduce potential impacts during extreme events.
- Wilton Manors participates in Broward County's Residential Irrigation Rebate Program. [WS-1]
- Wilton Manors has implemented the Green Building Program. (Ordinance 2020-005) [WS-7]

Proposed Actions

- Initiate active swale restoration projects by removing asphalt and re-establishing natural vegetation to improve stormwater absorption, reduce runoff, and enhance local ecosystems.
- Apply for grants and loans where possible, to continue to support the capital improvement programs of the cities.
- Explore underutilized areas of the community that could be used for stormwater retention during large rain events.
- Educate residents on the benefits and encourage the implementation of separate meters for irrigation.

Natural Systems

GOAL: Implement monitoring, management, and conservation programs designed to protect natural systems and the services they provide to society while improving their capacity for climate adaptation.

Proposed Actions

- Implement a program for the removal of invasive species in parks to restore native ecosystems and enhance biodiversity.
- Create an evergreen educational campaign that covers topics such as sea level rise and the impact of climate change on local wildlife, or the importance of Florida-friendly plans. These webinars can be promoted through the City's website and social media outlets.
- Leverage the County's NatureScope program materials to educate residents.
- Conduct a tree canopy inventory and determine areas where additional trees could provide significant shade and reduce heat island effects.
- Continue and enhance tree giveaway programs.

Complete and In-Progress Actions

Completed by Both

- Oakland Park and Wilton Manors have an annual **Tree Giveaway**, which provides residents with native trees.⁹ [NS-4, ST-8]

Completed by Oakland Park

- Oakland Park is rolling out a program called **Welcome Our Wildlife (WOW)**. The purpose of this program is to actively promote biodiversity and habitat preservation.¹⁰ [NS-1, NS-2, PO-2]



- Oakland Park has implemented Florida-friendly landscaping practices that emphasize native plants and trees.¹¹ [NS-1, NS-2]
- Oakland Park applied to become a Keep America Beautiful Affiliate, Keep Oakland Park Beautiful.

Completed by Wilton Manors

- Wilton Manors has improved the City's code related to landscape maintenance encouraging healthy more landscaping, free of debris. (Ordinance 2022-008) [NS-1]
- Wilton Manors conducted a tree canopy survey in 2008 and is in the process of updating the survey. [NS-4]

LARGE, MEDIUM and SMALL TREES



CAPPARIS CYNOPHALLOPHORA (N)
Jamaican Caper
a) 3 or 7 Gal - 6' to 15' tall x 4' to 12' wide
b) Small flowering Tree



QUERCUS VIRGINIANA (N)
Live Oak Tree
a) 3 or 7 Gal - 60' to 80' tall x 60' to 100' wide
b) Large tree



CALLIANDRA HAEMATOCEPHALA (N)
Red Powder Puff
a) 7 Gal - 10' to 15' tall x 8' to 10' wide
b) Small flowering tree



MYRCIATHES FRAGANS (N)
Simpson's Stopper
a) 3 or 7 Gal - 15' to 20' tall x 6' to 8' wide
b) Small maturing tree



JATROPHA INTEGERRIMA (FF)
Jatropha Tree Compacta
a) 7 Gal - 8' to 10' tall x 8' to 10' wide
b) Small flowering tree



MAGNIFERA SPP (FF) FRUIT TREES
Nam Doc Mai & Honey Kiss Mango
a) 7 Gal - 15' tall x 10' wide
b) Small variety



PERSEA AMERICANA MILLER (FF)
FRUIT TREE Avocado
a) 7 Gal - 30' tall x 15' wide
b) Medium tree (this variety)



PINUS ELLIOTTII var. DENSA (N)
South Florida Slash Pine
a) 3 or 7 Gal - 75' tall x 30' wide
b) Large tree

TREE GIVE AWAY SELECTION - April 20th, 2024

Oakland Park's
Tree Giveaway
selection.



Energy and Fuel

GOAL: Reduce consumption of electricity and fuel and increase renewable energy capacity to increase regional resilience, reduce greenhouse gas emissions, and improve emergency management and disaster recovery.

Complete and In-Progress Actions

Completed by Both

- Hybrid vehicles were added to the fleet at both Oakland Park and Wilton Manors. [EF-1]

Completed by Oakland Park

- Oakland Park Updated its GHG Inventory in 2022 to be participating in the ICLEI Florida Cohorts program.
- Oakland Park has converted all City FPL owned streetlights to energy-efficient LED fixtures.¹² [EF-2]

Completed by Wilton Manors

- Wilton Manors has rolled out the **Energy Incentive Grant Program**, which is intended to assist City residents and businesses to reduce their carbon footprint and adopt energy conservation practices.¹³ [EF-3, EF-5]



- Wilton Manors updated a community-wide **Greenhouse Gas Inventory** in 2022.¹⁴ [EF-1]

RESULTS

EMISSIONS AT A GLANCE

- 1 Transportation**
62%
- 2 Residential Energy**
19%
- 3 Commercial Energy**
15%

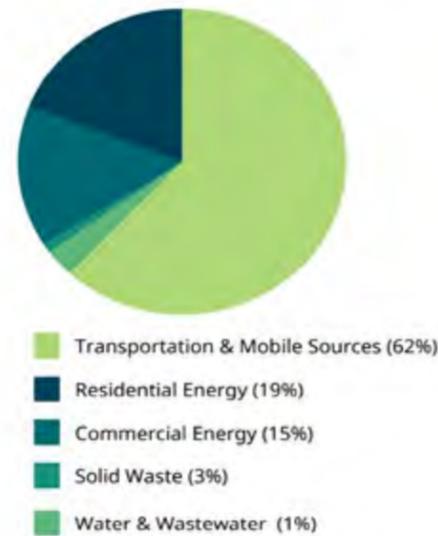


Figure 1: Community-Wide Emissions by Sector



The City of Wilton Manors conducted a Community-wide Greenhouse Gas Inventory in 2019.

Proposed Actions

- Explore funding opportunities to increase the energy efficiency of the City's vehicle fleet by 20% within three years.
- Determine the easiest actions of most impact to reduce greenhouse gas emissions.
- Explore opportunities to include solar panels in upgraded and new city facilities.
- Explore reduced permit fees for sustainability updates to homes and buildings.
- Utilize the recently commenced Broward County Net Zero plan aimed at achieving a 50% reduction in greenhouse gas emissions by 2030 and carbon neutrality by 2050.

Risk Reduction and Emergency Management

GOAL: Prepare for the inevitable shocks and stresses experienced in Southeast Florida through coordinated and interdisciplinary risk reduction and emergency management planning and investment.



Green initiative flyers distributed by Wilton Manors detailing Resilience and Sustainability Efforts and Resources.

Completed by Wilton Manors

- Wilton Manors has implemented a Business Incentive Grant Program, which provides funding for eligible businesses for facade improvements, Green Building development, Hurricane proofing, and visual development.¹⁵ [RR-9]

Complete and In-Progress Actions

Completed by Oakland Park

- Large drainage projects in Oakland Park in-progress. [RR-1]
 - NE 6th Ave. Stormwater Pump Station – Partially funded through a State of Florida Grant.
 - North Andrews Gardens Neighborhood (NAG) stormwater pump station. 100% funded through Broward County Transportation Surtax.
 - Lake Emerald Drainage Basin Flood Mitigation Project. This project will connect several lakes in western Oakland Park with each other and allow for overflow into the SFWMD C-13 Canal. Partially funded through a State of Florida Grant.
- Oakland Park's rain event protocols include opening/closing the gates at the City's Sleepy River Stormwater Pump Station and Gate Structure based on tides and rain quantities to prevent major flooding. [RR-2]
- Oakland Park will activate a new Emergency Operations Center (EOC) in early 2025.



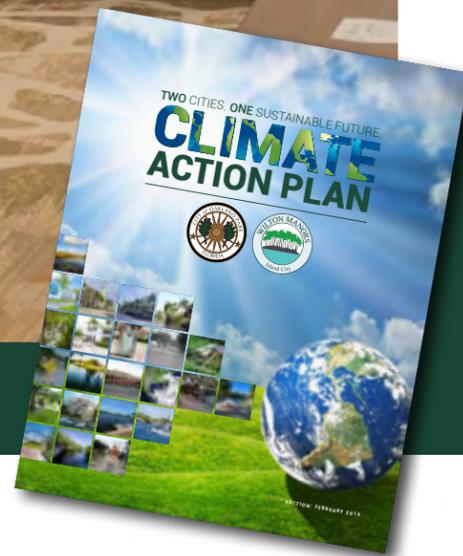
Proposed Actions

- Provide resources and training for businesses to develop continuity plans, access emergency funding, and establish robust communication networks for rapid response during crises.
- Notify and educate residents on effective methods to protect their homes from natural disasters and other threats, offering guidance on preparedness measures and safety improvements.
- Increase the Community Rating System score to enhance their resilience and provide further flood insurance discounts to their residents.
- Develop evergreen social media content to consistently engage and inform the community about ongoing initiatives, best practices, and important updates related to municipal programs and services.



Public Policy Advocacy

GOAL: Guide and influence all levels of government to address climate change in relevant policies, programs, and legislation.



Completed by Oakland Park

- Oakland Park has hired an **Environmental Sustainability Coordinator**. The position has been active for a few years. [PP-4]

Completed by Wilton Manors

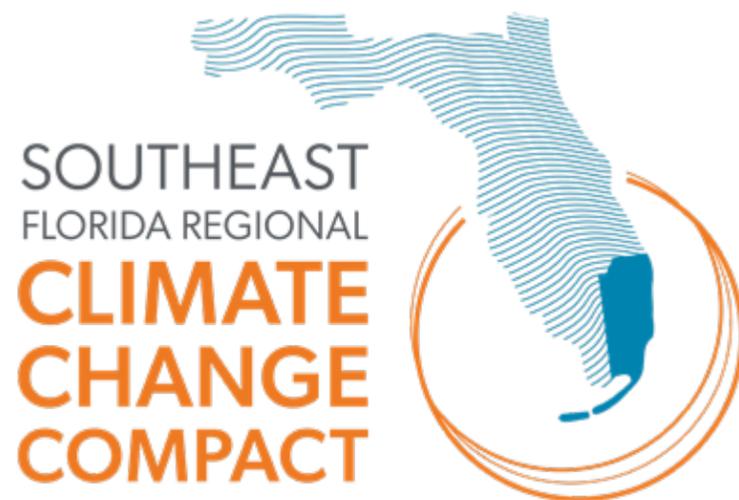
- Wilton Manors has implemented a policy to prohibit polystyrene in city facilities and properties. (Ordinance 2024-002) [PP-1]
- Wilton Manors implemented an engagement campaign around their plastic straw ban. [PP-1]
- Wilton Manors conducted employee trainings collaborating with the CLEO Institute to increase the knowledge of the employees of the City about climate change concerns for our community. [PP-1]



Complete and In-Progress Actions

Completed by Both

- Oakland Park and Wilton Manors has a **Joint Climate Action Plan (JCAP)** in place since 2019.¹⁶ [PP-2]
- Oakland Park and Wilton Manors have joined the **Southeast Florida Regional Climate Change Compact**. [PP-2]
- Oakland Park and Wilton Manors has implemented policies that prohibit the distribution, sale, or use of single-use plastic straws and plastic stirrers within the city. (Oakland Park, Ordinance 2019-205 and Wilton Manors, Ordinance 2022-017)¹⁷ [PP-1]



Proposed Actions

- Create a leadership group composed of elected officials, city managers, and department heads from both cities to coordinate climate and resilience issues.
- Develop and promote community action and individual behavior change for residents to address climate change strategy.





Public Outreach and Engagement

GOAL: Build public awareness of the climate-related risks facing Southeast Florida and the opportunities for early, coordinated action to address these risks.

Complete and In-Progress Actions

Completed by Both

- Oakland Park and Wilton Manors continues to promote the **Recycle Right** campaign and the benefits of recycling on the City's website. [PO-2]

Completed by Oakland Park

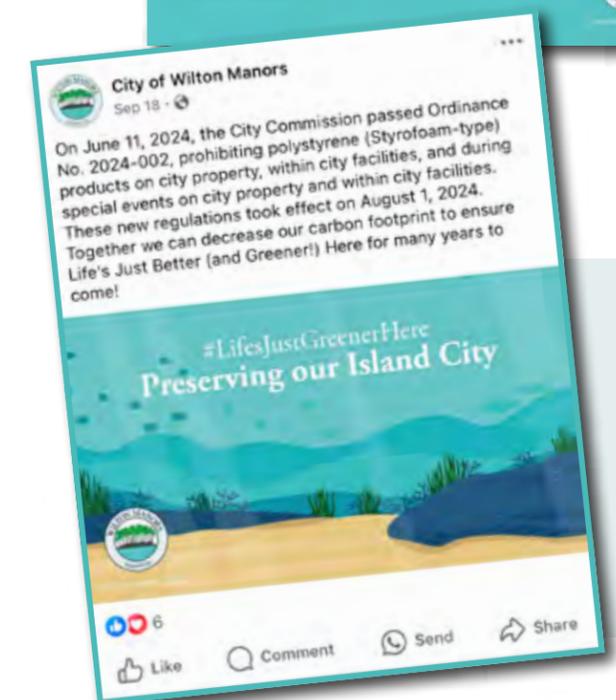
- Oakland Park developed the **Roll with Reusables** pledge that encourages residents to reduce waste from single-use items, such as containers, straws, and utensils with a goal of 1,000 pledges.¹⁸ [PO-2, PP-1, PP-4]

Completed by Wilton Manors

- Wilton Manors updates the **Life is Just Greener Here** campaign to inform the residents of the progress made. [PO-2, PP-4]
- Wilton Manors has developed and released public information videos on YouTube to educate and engage the community on key topics and initiatives. [PO-2]

Proposed Actions

- Develop social media, print, and other materials and items that encourage residents and businesses to reduce waste from single-use items.
- Develop and implement a plan to continuously educate residents on what can and cannot be recycled.
- Create an online resource (a tab on the City website, where all the information can be found in one place), such as on the City website, where residents can access the latest information.



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Sustainable Communities and Transportation

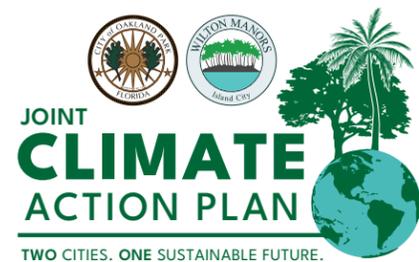
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References

- 1 City of Oakland Park. City of Oakland Park Vulnerability to Sea Level Rise Assessment Report. 2011, www.broward.org/Climate/Toolbox/Documents/ResilientCoastalComm/oakIndp_slr.pdf.
<https://www.wiltonmanors.gov/DocumentCenter/View/8595/Wilton-Manors-SLR-VA-Final-Report-Revised-4-10-24>
- 2 <https://wiltonmanors.gov/927/Seawalls>
- 3 <https://www.wiltonmanors.gov/934/Sustainable-Transportation>
- 4 <https://oaklandparkfl.gov/CivicAlerts.aspx?AID=593>
- 5 <https://www.browardmpo.org/plans/city-of-wilton-manors#:~:text=The%20Vision%20of%20the%20City,%2C%20visitors%2C%20and%20business%20owners.>
- 6 <https://www.wiltonmanors.gov/934/Sustainable-Transportation>
- 7 <https://www.wiltonmanors.gov/179/Utilities>
- 8 <https://www.wiltonmanors.gov/874/Building-a-Sustainable-Future>
- 9 <https://www.wiltonmanors.gov/DocumentCenter/View/8590/Final-Resilience-Brochure>
- 10 <https://www.oaklandparkfl.gov/779/Welcome-Our-Wildlife>
- 11 <https://oaklandparkfl.gov/CivicAlerts.asp?AID=270&ARC=1017>
- 12 <https://oaklandparkfl.gov/CivicAlerts.aspx?AID=270&ARC=1017>
- 13 <https://www.wiltonmanors.gov/866/Lifes-Just-Greener-Here>
- 14 <https://wiltonmanors.gov/DocumentCenter/View/8279/2019-GHGI-presentation-to-commission-FINAL-UPDATED-August-2022>
- 15 <https://wiltonmanors.gov/942/Resiliency-at-a-Glance>
- 16 <https://www.oaklandparkfl.gov/585/Climate-Action-Plan>
- 17 https://library.municode.com/fl/wilton_manors/codes/code_of_ordinances?nodeId=PTIICOOR_CH10LIPEBURE_ARTXVPRPLSTST
- 18 <https://www.oaklandparkfl.gov/778/Roll-With-Reusable>
- 19 <https://oaklandparkfl.gov/CivicAlerts.aspx?AID=593>
- 20 <https://www.wiltonmanors.gov/DocumentCenter/View/8590/Final-Resilience-Brochure>





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