

Board of County Commissioners

**Sustainability & Resilience
Update**

May 23, 2023



Sustainability & Resilience Update

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- **Sustainability Advisory Board Annual Report**
- **Annual Sustainability Update (2022-2023)**
 - **Community-wide accomplishments**
 - **Grants**
 - **Sustainable Operations & Resilience Action Plan (SORAP) Update**
 - **Next Steps**
- **Summary**



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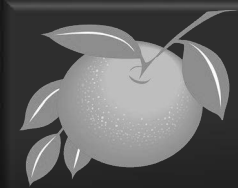


Sustainability Advisory Board

- Madeline Almodovar (PC)** Education – At Large
- Susy Torriente (C)** Smart Infrastructure, Tech, & Resiliency
- Mukesh Joshi (VC)** Energy & High-Performance Buildings
- Laura Betts** Housing and Community Development
- Shana Carson** Arts and Cultural Affairs – At Large
- Michael Gilbrook** Urban Planning & Transportation
- Ed Johnson** Economic Development
- Shauna Junco** Social Services & Community Health
- Christianah Oyenuga** Natural Resources Management



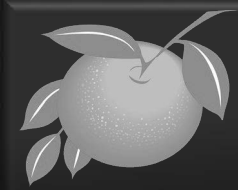
MISSION: Provide oversight and direction to ensure implementation and continuous improvement of sustainability and resilience goals and targets.



SAB 2022 Priorities

- **Tree Protection Ordinance**
- **Supported Community Efforts**
 - EPA Grant - Heat & Climate Displacement
- **Vision 2050 Comprehensive Plan**
 - **Increased resilience** to reduce risks for public health and the built environment, especially in communities at risk
 - **Balanced equitable growth** and protecting natural assets while prioritizing **future climate conditions**
 - Address climate change by **reducing GHG emissions** and **prioritizing sustainable development**





SAB 2023 Plans

- **Topics coming before the Board of County Commissioners**
 - Wetlands Ordinance
 - Groundwater Study
 - Stormwater Plans
- **Sustainable Operations & Resilience Action Plan**
 - Action updates and metrics tracking
- **Community Resilience & Engagement**

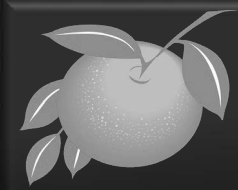


SUSTAINABILITY ADVISORY BOARD



2023 STRATEGIC PLAN

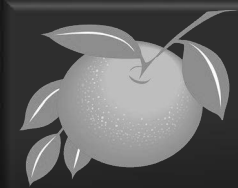
This document defines the purpose, strategic priorities, and roles of the resident-led Advisory Board to continuously enhance Orange County Sustainability and Resilience initiatives.



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Orange County Gets LEED Gold for Communities





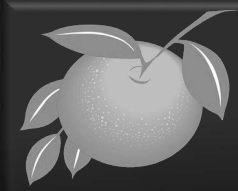
Election Campaign Sign Recycling





Help Now Mobile Resource Center





NACO Award 2022:

The Power of Partnerships in the Energy Sector



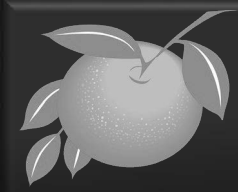
ALLEVIATING
ENERGY BURDENS



SUPPORTING
RENEWABLES



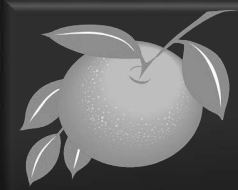
RESIDENTIAL
PROGRAMS



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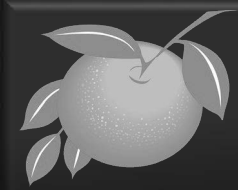
Grant Activity

Awarded

- **Energy Efficiency & Conservation Block Grant**– Pre-award application submitted
 - \$807,430 – Funds can be used on energy audits, energy transition plans, EV plans and more.
- **Climate Pollution Reduction Grant (CPRG)**– ECFRPC is taking the lead – NOIP submitted
 - \$1M formula funding to the Orlando-Kissimmee-Sanford MSA for climate action plan development.
- **Resilient Florida (State) – Planning Grant**
 - \$420,000 – Vulnerability Assessment + Education/Outreach

Applied

- **Environmental Justice Government-To-Government (EJG2G)**- Application submitted
 - EPD is the Lead – partnering with Coalition of 100 Black Women on Air Quality Monitoring initiative -\$1M
- **US House Appropriations**
 - \$2M for Green PLACE Land Acquisition
 - \$370,000 for Senior Climate Efficiency Program
 - \$271,000 for Transportation Mobility Hubs



Sustainability & Resilience Update

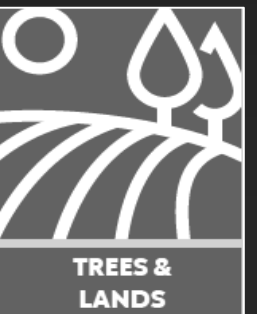
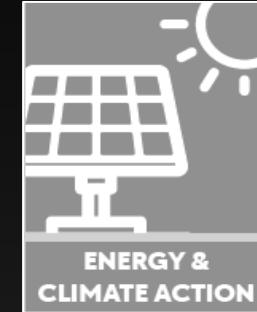
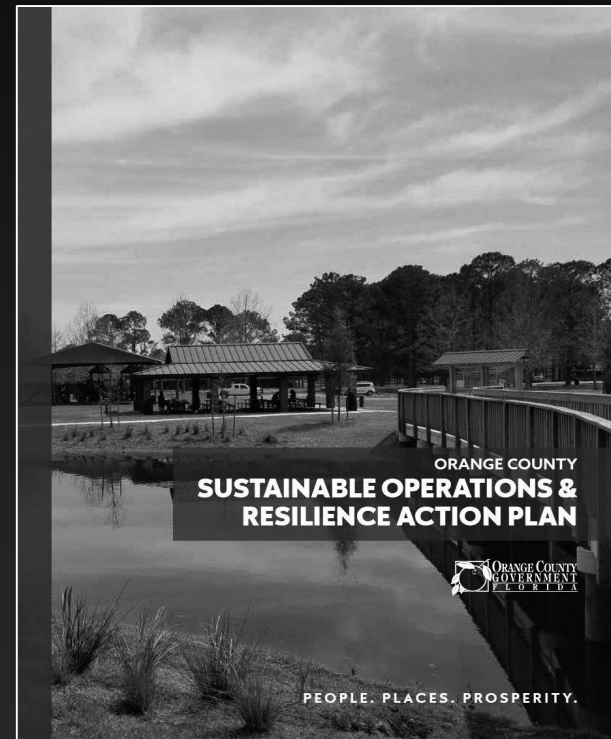
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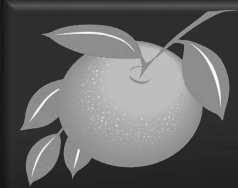
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Sustainable Operations & Resilience Action Plan (SORAP)

- **Adopted by BCC in January 2021**
- **17 Goals**
- **Cross-departmental**
- **Approximately 111 Short-term Actions**
- **Time-Frame: 60% short-term actions originally planned for completion by end of FY23**





Energy & Climate Action

GOAL 1:

REDUCE COUNTY OPERATIONS GREENHOUSE GAS EMISSIONS FROM THE 2015 BASELINE 30% BY 2030

GOAL 2:

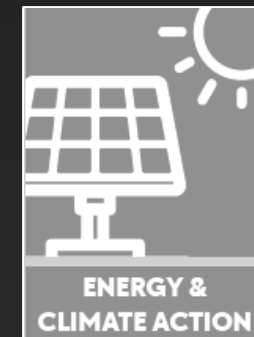
ACHIEVE 100% OF COUNTY OPERATIONS ELECTRICITY LOAD FROM CLEAN, RENEWABLE SOURCES BY 2035

GOAL 3:

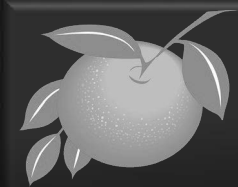
IMPLEMENT COMMUNITY-WIDE ENERGY SAVING PROGRAMS FOR ALL



Southern Regional Water Supply Facility 1 MW floating Solar



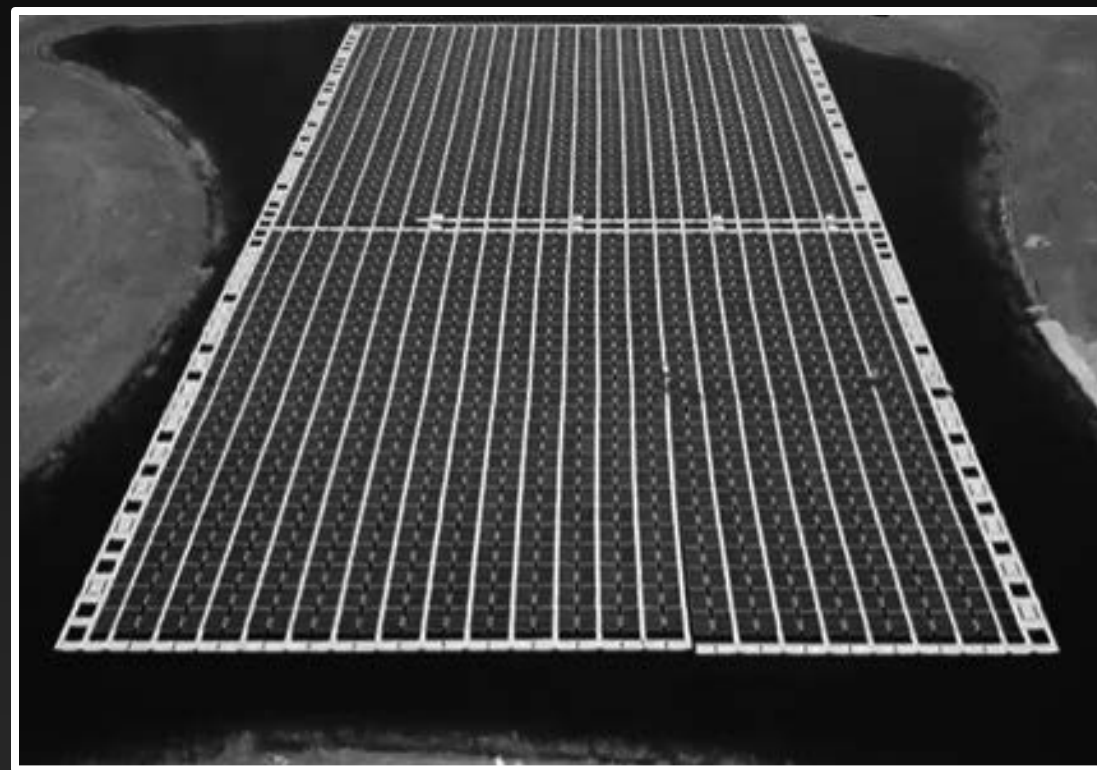
ENERGY & CLIMATE ACTION



Energy & Climate Action

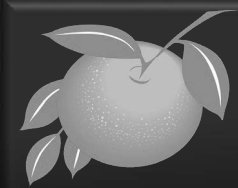
17

- ✓ Finalizing 1 MW floating solar array installation
- ✓ 4.2 MW of solar up from 1.1 MW in 2019
- ✓ 7th Annual Solar Co-Op- 57 homes, 259 educated, 683 kW being installed
- ✓ Partnering with SELF and SCEP for home energy efficiency upgrades



Southern Regional Water Supply Facility Floating Solar

Completed or in Progress: 21 out of 25



Buildings & Infrastructure

GOAL 4:

BEGINNING IN FY21, COUNTY-FUNDED BUILDINGS AND INFRASTRUCTURE WILL MEET NEW HIGH-PERFORMANCE AND GREEN BUILDING STANDARDS

GOAL 5:

ALIGN ENERGY MANAGEMENT STRATEGIES ACROSS COUNTY DEPARTMENTS TO REDUCE 30% OF BUILDING AND INFRASTRUCTURE ENERGY USE BY 2025

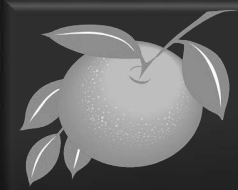
GOAL 6:

REDUCE RISKS FOR COUNTY SERVICES AND INFRASTRUCTURE BASED ON REGIONAL RESILIENCE INDICATORS AND UPDATED MITIGATION PLANS



Signing the Department of Energy's Better Buildings Challenge





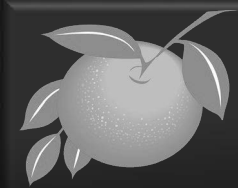
Buildings & Infrastructure

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- ✓ **New County construction projects meet minimum Sustainable Design Standards**
- ✓ **Energy data management continued improvement**
- ✓ **County-wide Vulnerability Assessment Planning Grant through Resilient Florida Program**



Completed or in Progress: 12 out of 21



Water Use & Quality

GOAL 7:

PROTECT WATER QUALITY THROUGH INNOVATIVE TECHNOLOGY AND INTEGRATED WATER MANAGEMENT AUDITS AT COUNTY FACILITIES

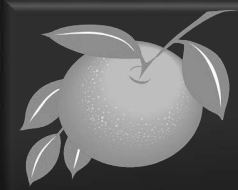
GOAL 8:

REDUCE WATER USE 25% ACROSS COUNTY FACILITIES BY 2030 THROUGH WATER REUSE AND EQUIPMENT EFFICIENCIES

GOAL 9:

DEVELOP CLEAN AND SAFE ACCESS TO ALTERNATE WATER SUPPLY TO MEET FUTURE DEMAND

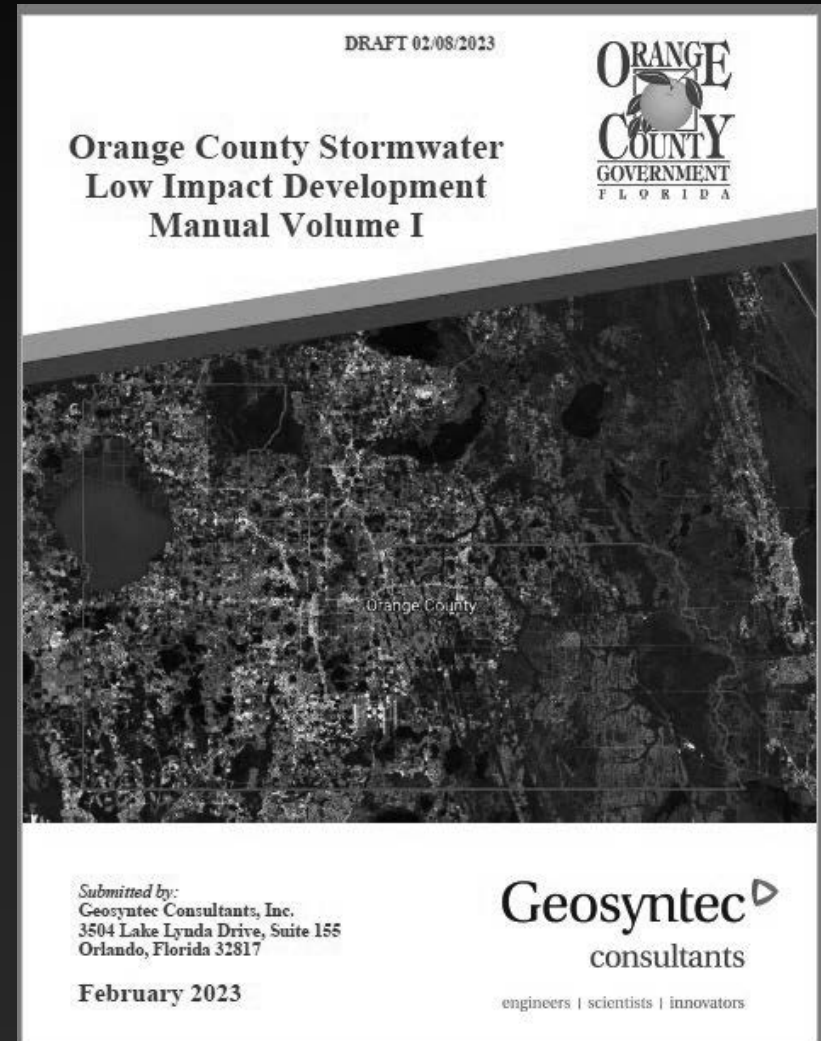


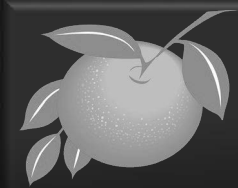


Water Use & Quality

- ✓ Low Impact Development Design Manual nearing completion
- ✓ Continue to successfully meet growing water demand with growing population
- ✓ Partnership with UCF to evaluate stormwater ponds
- ✓ Groundwater vulnerability study completed early

Completed or in Progress: 9 out of 15





Mobility & Fleet

GOAL 10:

OPTIMIZE VEHICLE FLEET PERFORMANCE THROUGH ONBOARD TECHNOLOGY AND A 50% REDUCTION OF PETROLEUM-BASED FUEL BY 2030

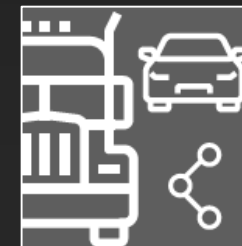
GOAL 11:

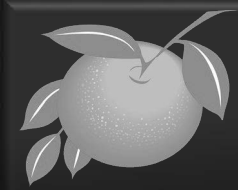
DEPLOY EV-READY INFRASTRUCTURE AND CONVERT 100% OF LIGHT-DUTY COUNTY FLEET TO ELECTRIC OR ALTERNATIVE BY 2030

SUB GOAL: DEPLOY ELECTRIC VEHICLE CHARGING INFRASTRUCTURE AT 25 COUNTY FACILITIES BY 2025

GOAL 12:

IMPROVE VEHICLE, BICYCLE, AND PEDESTRIAN ROADWAY SAFETY, RESILIENCE, AND INTEROPERABILITY THROUGH TRAFFIC TECHNOLOGY RETROFITS AT 300 INTERSECTIONS BY 2025



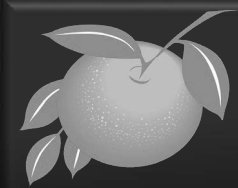


Mobility & Fleet Progress

- ✓ Goal 12- Accomplished!
- ✓ DC Fast chargers being installed at OCCC with OUC
- ✓ Two DC Fast Chargers to be installed with Duke Energy
- ✓ Remote/Hybrid Work Policy created for Orange County Government



Completed or in Progress: 12 out of 15



Supply Chain & Materials Management

GOAL 13:

IMPLEMENT A SUSTAINABLE PROCUREMENT PROGRAM WITH SUPPLIER METRICS BY 2023

GOAL 14:

INCREASE WASTE DIVERSION RATES TO 70% BY 2030 AT COUNTY FACILITIES

SUB GOAL: INCREASE WASTE DIVERSION RATES TO 30% BY 2025 AT COUNTY FACILITIES

GOAL 15:

DECREASE THE PER CUSTOMER LANDFILL DISPOSAL TONNAGE 15% BY 2025

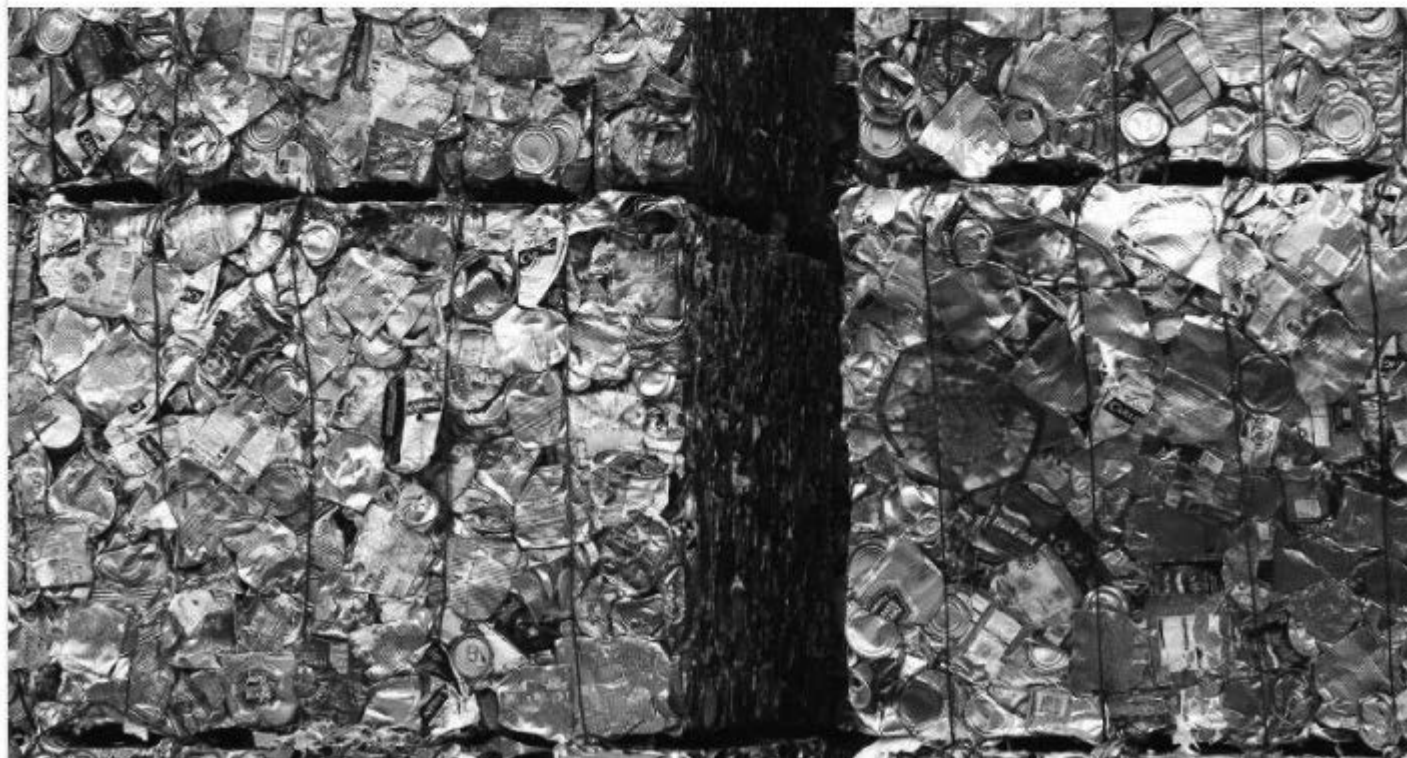


Orange County Government

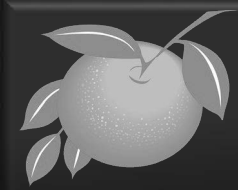
27,638 followers

2mo •

Attention Recycling Industry Leaders! Orange County is seeking industry review and comment on the recently released draft solicitation package for the development of a new Materials Recovery Facility (MRF). The package ...see more



SUPPLY CHAIN & MATERIALS MGT.



Supply Chain & Materials Management

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- ✓ Preparing RFP for Materials Recovery Facility (MRF)
- ✓ ECFRPC Regional Resilience Collaborative Waste Critical Assets Taskforce
- ✓ Sustainable Materials Management Plan kicking-off
- ✓ Procurement goes paperless
- ✓ Great Oaks Village food waste composting-successful first year



Completed or in Progress: 10 out of 21



Trees & Lands

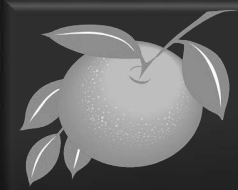
GOAL 16:

PRESERVE AN ADDITIONAL
23,000 ACRES OF
ENVIRONMENTALLY
SENSITIVE LANDS AND
INCREASE COUNTY NATURAL
LAND ASSETS BY 2030

GOAL 17:

PROTECT AND ENHANCE
TREE CANOPY AND WILDLIFE
HABITATS ON COUNTY
PROPERTIES





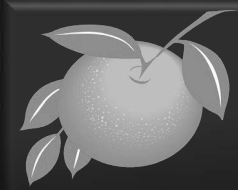
Trees & Lands

- ✓ Tree Ordinance update in progress
- ✓ Green PLACE property purchases increasing
- ✓ National Arbor Day Tree City USA recognition for 16th year
- ✓ FY 24 Planning to conduct tree inventory
- ✓ Tree Team meeting to review short-term actions to ensure steps meet tree canopy goal



Tree Team Meeting

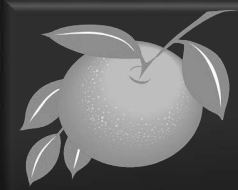
Completed or in Progress: 10 out of 14



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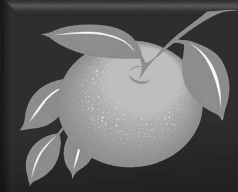
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SORAP Next Steps

- **Moonshot Goals**
- **Work with Goal Teams to review and update timelines**
- **Review KPIs**
- **Develop implementation strategy for short-term actions**





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Summary

- **Over the past year, the County has realized major community-wide accomplishments with the work and partnership of County departments and divisions, as well as with the assistance of our Advisory Board.**
- **Actively pursuing federal and state grants.**
- **SORAP progressing and adding implementation strategy.**



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