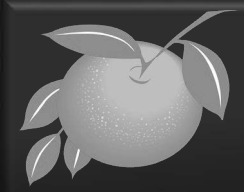


Board of County Commissioners



Sustainability & Resilience Update

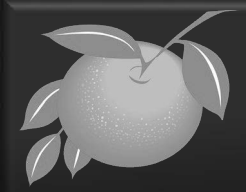
May 23, 2023



Sustainability & Resilience Update

2

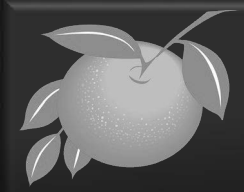
- **Sustainability Advisory Board Annual Report**
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 - **Grants**
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- **Summary**



Sustainability & Resilience Update

3

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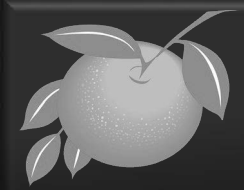
Sustainability Advisory Board

4

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.

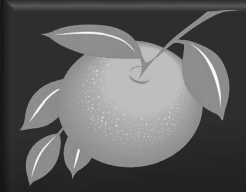


SAB 2022 Priorities

5

- **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**



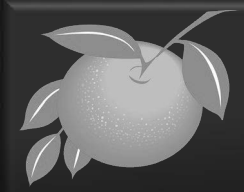


SAB 2023 Plans

6

- **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**





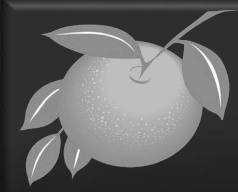
Sustainability & Resilience Update

7

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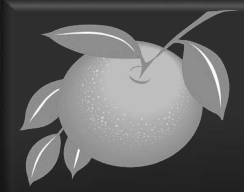




Help Now Mobile Resource Center

10





NACO Award 2022:

The Power of Partnerships in the Energy Sector

11



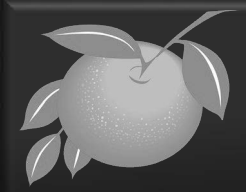
ALLEVIATING
ENERGY BURDENS



SUPPORTING
RENEWABLES



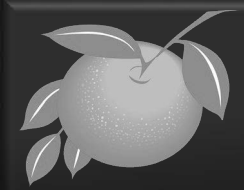
RESIDENTIAL
PROGRAMS



Sustainability & Resilience Update

12

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Grant Activity

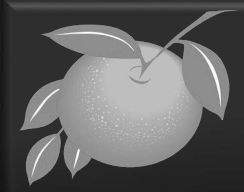
13

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

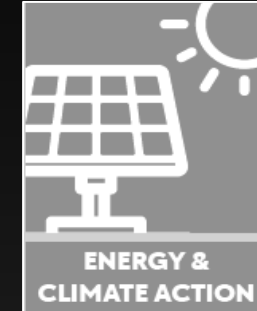
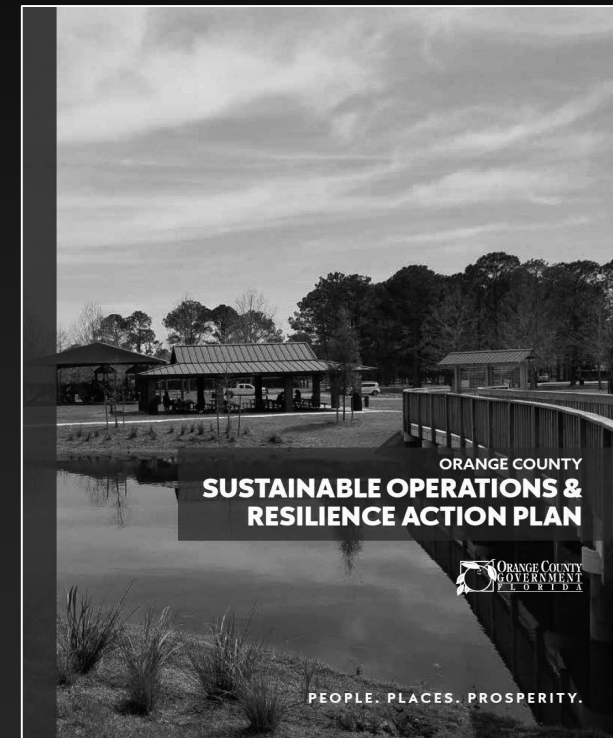
14

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Sustainable Operations & Resilience Action Plan (SORAP)

15

- 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



BUILDINGS &
INFRASTRUCTURE



WATER USE
& QUALITY



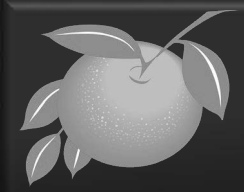
MOBILITY &
FLEET



SUPPLY CHAIN &
MATERIALS MGT.



TREES &
LANDS



Energy & Climate Action

16

GOAL 1:

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

GOAL 2:

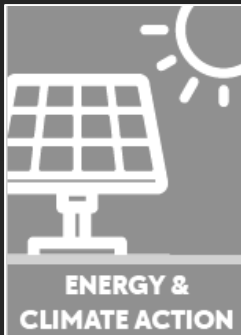
ACHIEVE 100% OF COUNTY
OPERATIONS ELECTRICITY
LOAD FROM CLEAN,
RENEWABLE SOURCES BY
2035

GOAL 3:

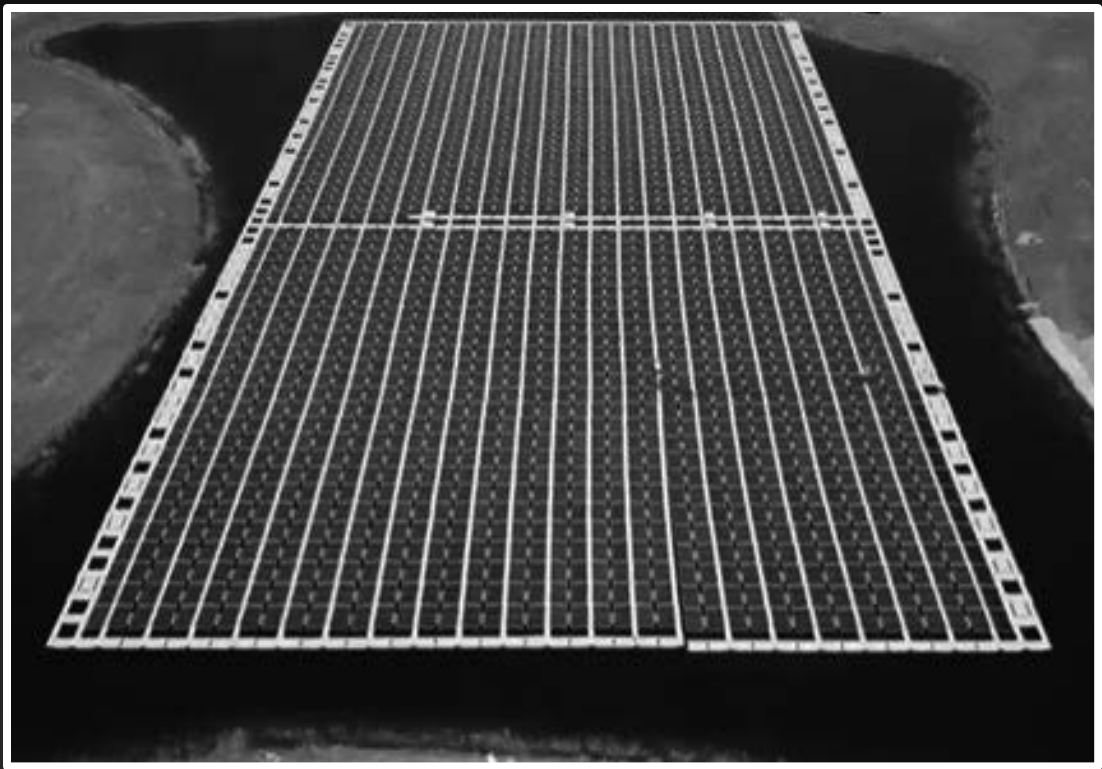
IMPLEMENT COMMUNITY-
WIDE ENERGY SAVING
PROGRAMS FOR ALL



Southern Regional Water Supply Facility 1 MW floating Solar

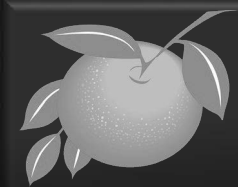


- ✓ Finalizing 1 MW floating solar array installation
- ✓ 4.2 MW of solar up from 1.1 MW in 2019
- ✓ 7th Annual Solar Co-Op- 57 homes, 259 educated, 683 kW being installed
- ✓ Partnering with SELF and SCEP for home energy efficiency upgrades



Southern Regional Water Supply Facility Floating Solar

Completed or in Progress: 21 out of 25



Buildings & Infrastructure

18

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

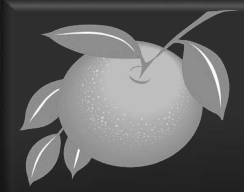
GOAL 6:

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





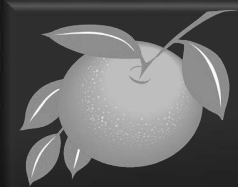
Buildings & Infrastructure

19

- ✓ **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

20

GOAL 7:

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

GOAL 8:

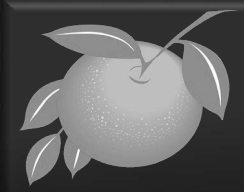
REDUCE WATER USE 25%
ACROSS COUNTY FACILITIES
BY 2030 THROUGH WATER
REUSE AND EQUIPMENT
EFFICIENCIES

GOAL 9:

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



**WATER USE
& QUALITY**

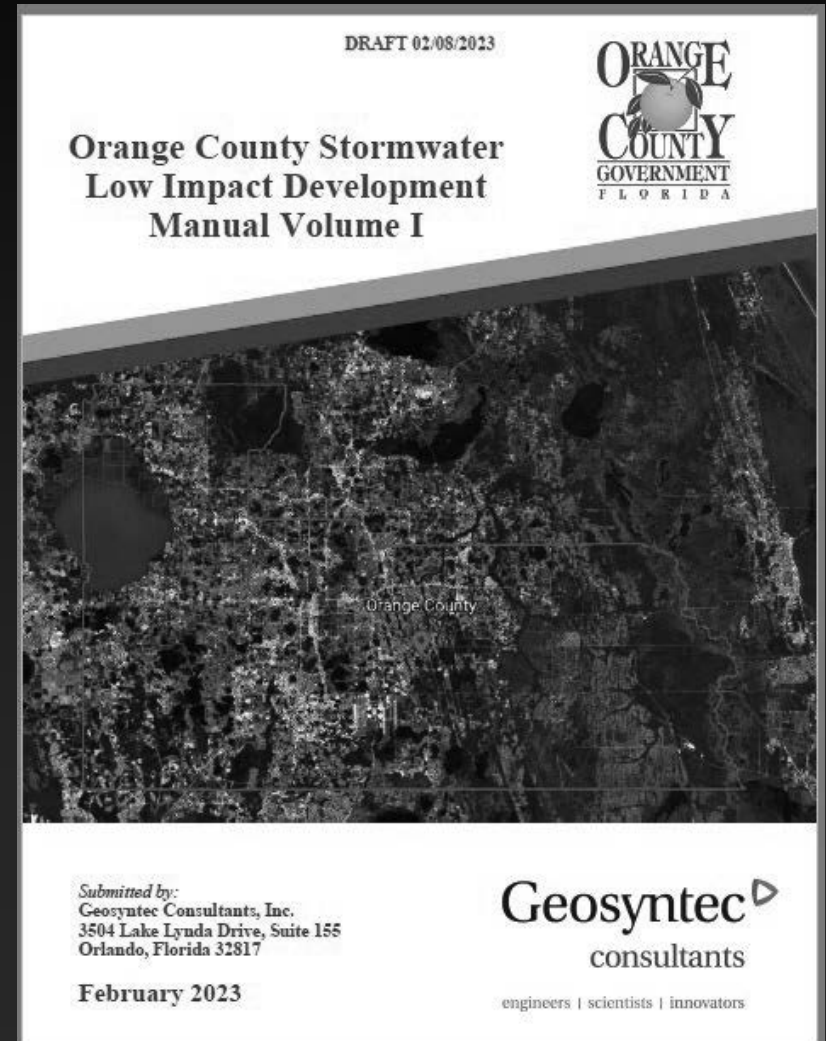


Water Use & Quality

21

- ✓ 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

22

GOAL 10:

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

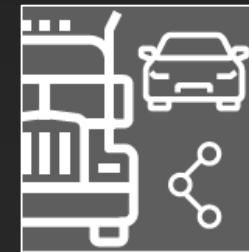
GOAL 11:

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

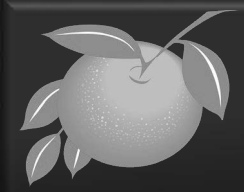
SUB GOAL: DEPLOY ELECTRIC VEHICLE CHARGING INFRASTRUCTURE AT 25 COUNTY FACILITIES BY 2025

GOAL 12:

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



MOBILITY &
FLEET



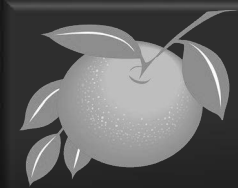
Mobility & Fleet Progress

23

- ✓ 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

24

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

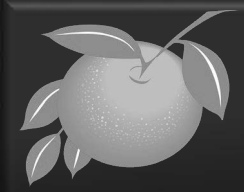
27,638 followers

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.



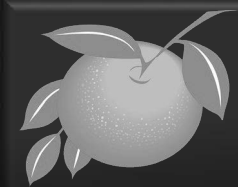
Supply Chain & Materials Management

25

- ✓ 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

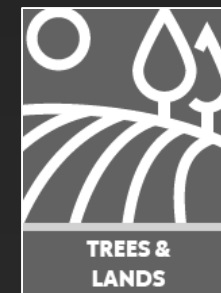
26

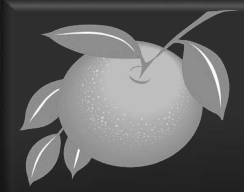
GOAL 16:

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

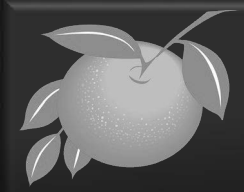
27

- ✓ 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

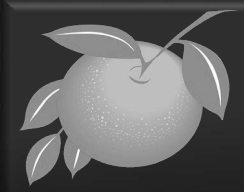
Completed or in Progress: 10 out of 14



Sustainability & Resilience Update

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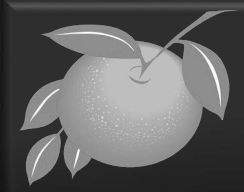


SORAP Next Steps

29

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

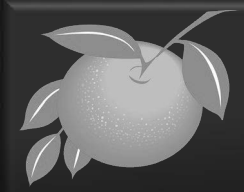




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Summary

31

- 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.



Board of County Commissioners



Sustainability & Resilience Update

May 23, 2023