

A hand is shown holding a globe of the Earth. A large green leaf is superimposed over the globe. A circular diagram of icons is arranged around the globe, connected by a white line. The icons include a lightbulb, a plant growing from a gear, a recycling symbol, a wind turbine, a solar panel, and a factory with a plant growing from it. The background is dark and blurred.

# SUSTAINABILITY UPDATE

Broward Climate Change Task Force  
November 2, 2023

#SustainableBroward

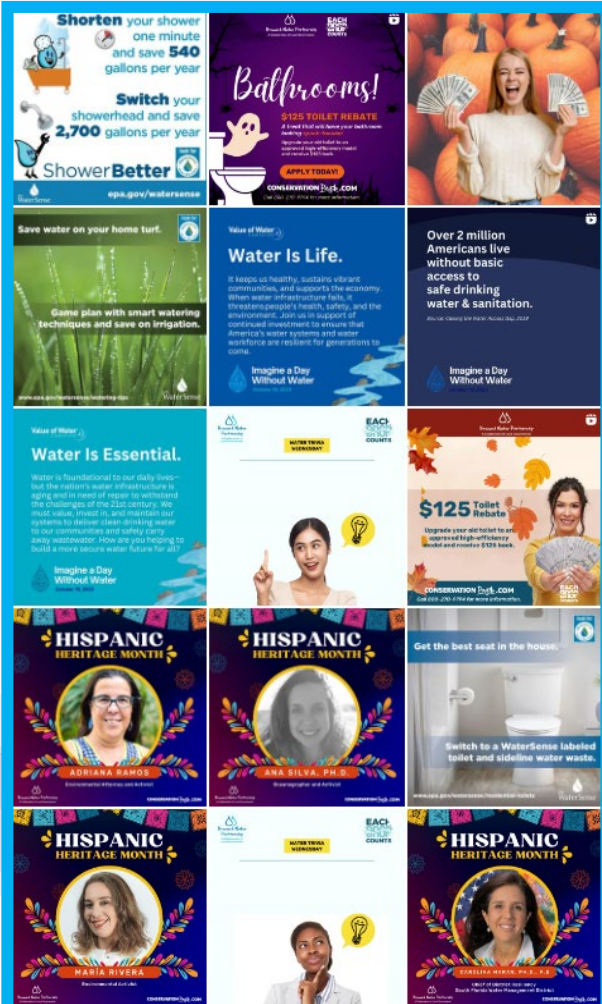
# Agenda

Update – Programs  
& Projects

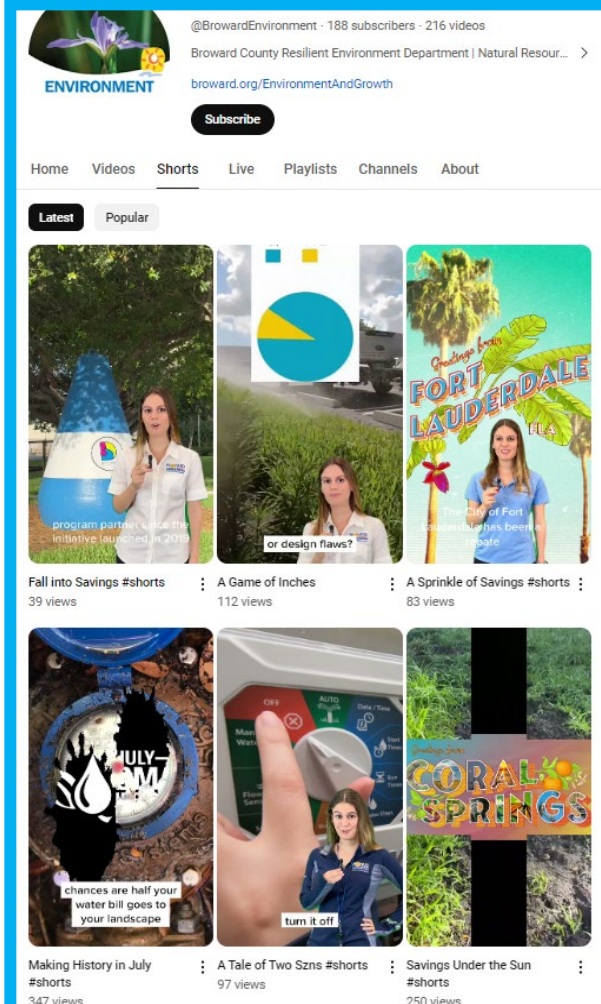
Formulating 2025  
Climate Action Plan

# CCAP ACTION 107. Continue local water conservation.

Continue the coordination and delivery of local water conservation programs and activities.



As of July 1, 2023, **Broward Water Partnership**' ConservationPay\$ Toilet Rebate increased to \$125/toilet for replacement of toilets using 1.6 gpf or more



**NatureScape Irrigation Services** Team has been creating monthly YouTube Shorts on outdoor water conservation and Residential Irrigation Rebate Program (RIRP)



**NatureScape Broward** held its Quarterly Workshop at Fern Forest to close to 80 attendees on the topics of Invasive and Native Ferns, and Native Palms



The **BCPS/Broward County Environmental Partnership Agreement**, Contract Yr 1 served nearly 10,000 BCPS students, staff, and faculty

**CCAP ACTION 20. Educate the community on climate change.**

Develop and deploy curricula and programs for public schools.

**CCAP ACTION 37. Increase community connection to nature.**

Provide nature-based educational experiences and promote physical and emotional well-being.

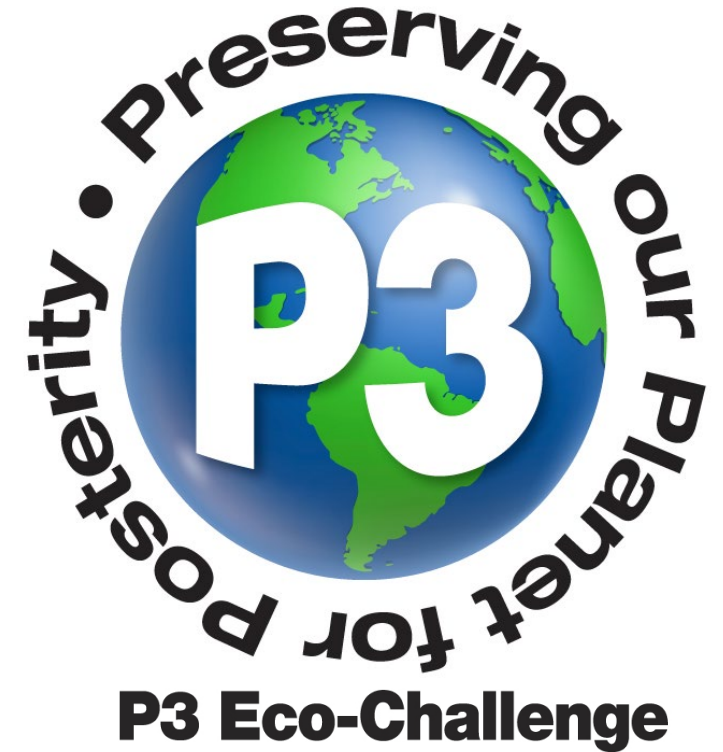


6<sup>th</sup> Annual Broward Youth Climate Summit  
February 9, 2024, Pompano Beach High School  
[browardschoos.com/youthclimatesummit](http://browardschoos.com/youthclimatesummit)



**SAVE THE DATE!**  
SATURDAY MARCH 9, 2024 • 9AM - 3PM  
TREE TOPS PARK, 3900 SW 100TH AVE, DAVIE

22<sup>nd</sup> Annual Water Matters Day  
March 9, 2024, Tree Tops Park  
[watermatters.broward.org](http://watermatters.broward.org)



12<sup>th</sup> Annual P3-Eco-Challenge  
Now Open thru April 8, 2024  
[browardschools.com/p3](http://browardschools.com/p3)

## CCAP ACTION 93. Expand renewable energy.

Promote solar adoption in the community, including the development of additional financing mechanisms; continue support for the Solar Co-op program to reduce the energy burden for residents.



### SUSTAINABLE ENERGY AND WATER USE

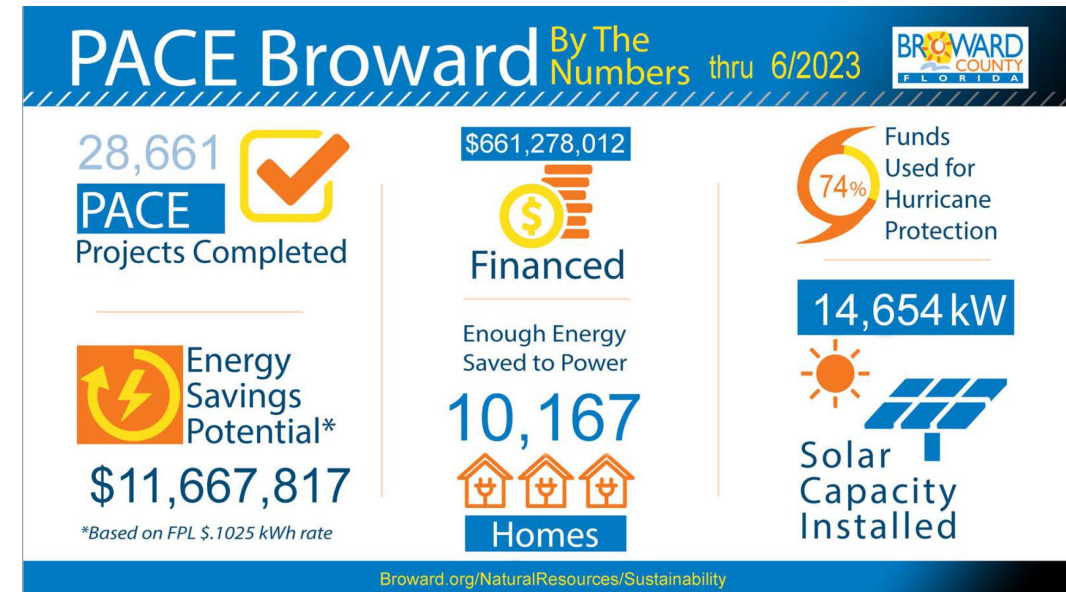
Nearly half of Broward County's Communitywide Greenhouse Gas Emissions come from electricity use by residential, commercial, and industrial users. This electricity primarily comes from the burning of fossil fuels like natural gas and coal. Producing electricity from cleaner sources like solar and using electricity more efficiently reduces both the amount of fuel needed to generate electricity and the amount of greenhouse gases and other air pollution emitted as a result. Reducing electricity use also helps reduce water use as fossil-fuel electricity generation and water systems are inextricably linked, each other being dependent on the other to operate. Using less energy and water also helps you lower your utility bills.

### Incentives and Financing Available for Energy and Water Efficiency Upgrades

FPL offers [residents](#) and [businesses](#) no-cost energy usage evaluations and recommendations to help get you started on making your building more energy efficient. They also offer [residential](#) and [commercial](#) customers rebates for energy saving upgrades. Property Assessed Clean Energy (PACE) program is a financing option for energy efficiency and conservation projects available to both homeowners and business owners in Broward County. Qualifying improvements include rooftop solar panels, solar water heater, energy efficient air conditioning unit, cool roof, impact windows, insulation, and more. Learn more about [PACE financing](#).

The non-profit [Solar and Energy Loan Fund \(SELF\)](#) is an independent, non-profit, community-based lending organization focused on financing home renovations that promote energy efficiency, clean energy alternatives, storm protection, water conservation, and disability products. Learn more about [SELF financing](#).

The Broward Water Partnership's [Conservation Pays](#) Program offers toilet rebates for qualifying residents, businesses and nonprofits. BWP also offers eligible residents water-efficient showerheads and low-flow faucet aerators. Commercial kitchens can get pre-rinse spray valves. Learn more about [Broward's Water Conservation Programs](#).



### Low-Interest Rate Home Improvement Loans

AIR CONDITIONERS / ROOFS / SOLAR ENERGY / WINDOWS & DOORS  
HURRICANE SHUTTERS / WATER & SEWER / AND MUCH MORE!

NO MINIMUM CREDIT SCORE • NO INCOME LIMITS • INTEREST RATES STARTING AT 5%

LOAN PROGRAMS AVAILABLE IN FLORIDA, GEORGIA, ALABAMA & SOUTH CAROLINA

**Apply Now!**

**SELF**  
SolarEnergyLoanFund.org  
or call 813.213.3856

## CCAP ACTION 93. Expand renewable energy.

Promote solar adoption in the community, including the development of additional financing mechanisms.



# Let's go solar together!

Join the Broward Solar Co-op 2023

### Why join a Solar Co-op?



**Expert help**  
Get unbiased support



**Save money**  
Get a group rate on your solar



**Community**  
Go solar with 50-100 people



**Nonprofit**  
We're not a sales company



**Free to join**  
No commitment to go solar

### Join us to learn more!

November 8  
at 6:00pm  
In Person

Registration at  
[SolarUnitedNeighbors.org/Broward/Events](https://SolarUnitedNeighbors.org/Broward/Events)



[solarunitedneighbors.org/Broward](https://solarunitedneighbors.org/Broward)

- ☀️ We partnered with Solar United Neighbors for the 2023 Broward Solar Co-op by sharing information on the Sustainability Stewards of Broward newsletter, on the Broward.org/sustainability website, reserving rooms at libraries for in-person Solar 101's, and on social media platforms.
- ☀️ Out of 11 firms, Go Solar Power was selected as the co-op solar installer.
- ☀️ To date, there are 89-members in the 2023 Broward Solar Co-op.
- ☀️ The co-op is open to new members until January 31, 2024.

## CCAP ACTION 4. Maintain climate, energy & sustainability programming.

Coordinate resilience and sustainability initiatives across County agencies and operations

## CCAP ACTION 91. Continue to reduce the energy consumption of County Operations.

Pursue energy efficiency opportunities.

## CCAP ACTION 96. Reduce the amount of waste going to landfills. CCAP ACTION 35. Implement on-site organics (food waste and yard waste) collection...

Engage community volunteers to educate public/students on proper waste disposal.



A poster for a virtual workshop. The background is dark green with a large, light green circular graphic on the right side. The word "Sustainability" is written in large, white, sans-serif font across the top. Below it, "Stewards of Broward" is written in a smaller, white, sans-serif font. Underneath, "Virtual Workshop" and "Food Waste Prevention" are listed in a smaller, white, sans-serif font. At the bottom, "Speakers:" is followed by three names: "Emily Grant, Senior Program Manager, MEANS Database", "Xavier De Roos, Renuable", and "Dustin DuBois, Filthy Organics". A small graphic of a blue and green leaf is visible in the bottom right corner of the poster.

- Government Operations Workgroup
  - Climate Action Plan 2020 – Aug 2023
  - Brainstorm CPRG Implementation Grants – October 2023
  - LEED for Cities Certification
    - Gathering data for the final application (November 15<sup>th</sup> deadline)

# CCAP ACTION 38. Collaborate on air quality monitoring, education and health risk outreach.

Expand and improve air quality monitoring and public information programs. Adopt standardized air health risk communications strategies. Improve coordination among governmental agencies at all levels and non-governmental health care organizations. Educate the community on regulations and engage them in citizen science projects. Expand access to air quality data and reporting to the public. Increase air quality monitoring of industrial, utility and landfill applications.



## AQI FLAG PROGRAM

[broward.org/environment](http://broward.org/environment)



### Air Quality Colors

	<b>green</b>	It's a <b>great</b> day to be active outside!	<b>Go for 60!</b> Centers for Disease Control and Prevention recommends 60 minutes or more physical activity each day.
	<b>yellow</b>	It's a <b>good</b> day to be active outside.	<b>Watch for symptoms!</b> Coughing or shortness of breath are signs to take it easier. Air pollution can make asthma symptoms worse and trigger attacks.
	<b>orange</b>	It's <b>OK</b> to go outside and be active for recess or PE class. For longer activities, take it a little easier.	<b>Take it easier.</b> Take some breaks. Do less intense activities like walking instead of running when it's an orange day.

**Plan ahead for ozone.**  
There is less ozone in the morning, so do intense activities in the morning on ozone air pollution days.

### Around Your School...

- Ask bus and carpool drivers to turn off their engines if parked for more than 30 seconds.
- Play or exercise as far as possible from busy roads.
- Check the local Air Quality Index daily at [airnow.gov](http://airnow.gov) or by downloading the **EPA AIRNow** mobile app in the app store.

**Air Quality Program**  
115 S. Andrews Avenue,  
Room 329H  
Fort Lauderdale, FL 33301  
954-519-1270  
[Broward.org/air](http://Broward.org/air)

**School Flag**  
U.S. Environmental Protection Agency

Note: There are three additional colors – red, purple, and maroon – used in EPA's Air Quality Index. They indicate unhealthy (red), very unhealthy (purple), and hazardous (maroon) air quality. They are not included in the Broward County AQI flag program because these conditions are extremely rare in South Florida. In the event we do experience unhealthy or worse air quality, health advisories will be issued from the Air Quality Program in the local media.



Monika Moorman  
@MrsMoorman1

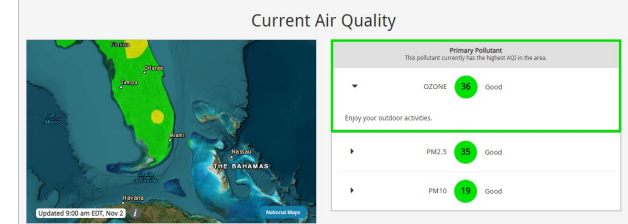
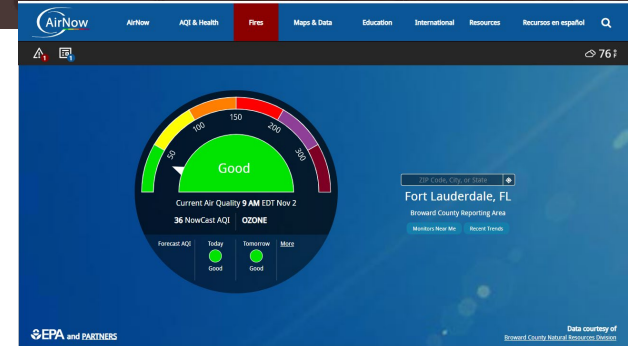
Getting ready for our next #CitizenScience project involving air quality tracking w/PurpleAir sensors courtesy of @BrowardEnv as means to learn to represent and analyze data in real world context. #CitizenScienceAmbientAirMonitoringPilotProgram @gardenerdoodles

6:50 PM · Sep 29, 2021 · Twitter Web App

2 Retweets 1 Quote Tweet 26 Likes

Tweet your reply

Kristyn Palazzolo (st) · Sep 29  
Replying to @MrsMoorman1 @BrowardEnv and @gardenerdoodles  
This looks so cool!



**Broward Environment**  
Just now

There is a mass of Black Carbon over #florida which is indicative of smoke. This is affecting Broward County's air quality and the air quality forecast is currently Unhealthy.

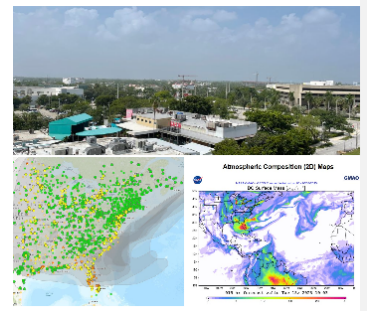
- Check the air quality forecast at [airnow.gov](http://airnow.gov).
- The NASA model shows the heaviest mass currently onshore and passing by this evening.
- Please limit your time outside until this air mass has passed through the area, especially if you suffer from respiratory or other health related issues.

If you're interested in checking out the model view it here  
<https://fluid.nccs.nasa.gov/wxmaps/chem2d/> and select Aerosols BC Sfc Mass.

SP: La calidad del aire en el condado de Broward está siendo afectado por humo. El pronóstico de la calidad del aire No es Saludable.

- Encuentre el pronóstico de la calidad de aire: @AIRNow
- El modelo de la NASA demuestra la mayor concentración de humo actualmente en tierra que estaría pasando esta tarde.
- Reduzcan su tiempo afuera y sus actividades al aire libre mientras el humo pase.

Si te interesa ver el modelo de la NASA, véalo aquí  
<https://fluid.nccs.nasa.gov/wxmaps/chem2d/> y seleccione Aerosols BC Sfc Mass. #airquality #CleanAirBrowardrd



1:31

AQI Legend: Green, Yellow, Orange, Red, Purple, Maroon

Refreshed At: Oct-03-2023 1:31 PM

Home Places Map Smoke



**CCAP ACTION 17.**– Set a plastic waste reduction goal.

**CCAP ACTION 98, 99, and 106** – Increase natural area ecosystem resilience, support ongoing coral reef restoration and resilience activities, and public outreach and education on the status of coral reefs, and the effects of climate change and sea-level rise.



Nearly 2,000 volunteers across 13 locations within Broward County teamed up to remove an astonishing 4,300 pounds of debris from our beaches. The data gathered from this event will be compiled and utilized to educate and inform policy and legislation at local, state, country, and international levels



**CCAP Actions 9 & 13** - Address mitigation and adaptation policies in the Land Use Plan and implement and promote Dark Skies outdoor lighting model ordinance and Element: Natural Systems, **CCAP Action 99 & 103** – Support ongoing coral reef restoration and resilience activities; Assess non-point-source pollution transport and fate across the County to the ocean.

**CCAP Action 106** – Public outreach and education on the status of coral reefs, and the effects of climate change and sea-level rise.

**Broward Environment**  
Just now

Today is the last #turtletuesday of the 2023 sea turtle nesting season, but don't be sad! This year, sea turtles in Broward County broke local records! 🐢 Here are the unofficial numbers for this season 🐢

Not only was 2023 a record-breaking year for the total number of nests laid, but this season was also the first time in our program's history that record-breaking numbers were recorded for all three species that nest in Broward County! 🐢

City of Deerfield Beach, Florida - Government  
City of Pompano Beach  
Town of Lauderdale By The Sea  
City of Fort Lauderdale  
Dania Beach  
City of Hollywood, Florida Government  
City of Hallandale Beach Government  
CBS Miami  
WLRN Public Radio and Television  
FOX Weather  
NBC 6



85 3480 804

Leatherback Loggerhead Green Turtle

Like Comment Share

**Broward Environment**  
Just now

🐢 This Marine Monday, we're highlighting Broward County's divers in their efforts to protect our precious coral reefs and ensure safe boating practices. 🐢 These dedicated divers are going below and beyond by conducting thorough mooring buoy inspections. 🐢


Mooring buoys play a crucial role in sustainable boating practices, reducing the need for anchors that can unintentionally harm delicate corals. By going the extra fathom with their close attention to detail, these divers diligently check the mooring systems for any signs of wear or corrosion, ensuring they're in top-notch condition. 🐢

Check out our website for more info on these mooring buoys and their locations throughout the county! <https://ow.ly/S6Jm500V6gw>

Let's join their efforts by spreading awareness about responsible boating practices and the importance of protecting our coral reefs. Together, we can protect our stunning coral reefs and ensure future generations can experience their awe-inspiring beauty. ❤️🐢🌊

Video Courtesy: Mark Hartman

Marine Environmental Education Center at the Carpenter House City of Deerfield Beach, Florida - Government City of Pompano Beach Discover Lauderdale By The Sea City of Fort Lauderdale City of Hollywood, Florida Government City of Hallandale Beach Government Florida State Parks



**Broward Environment**  
Just now

Marine Monday Update 🐢: Good news from Broward County's coral reefs! Unlike the Florida Keys, which has been experiencing significant thermal stress and bleaching, our reefs have, so far, been faring better. Our marine team noted only a few species and colonies have shown signs of bleaching so far. 🐢

If you didn't know, coral bleaching occurs when corals expel the symbiotic algae living in their tissues due to stressful conditions, such as increased ocean temperatures. Without these colorful algae, corals turn white and become more vulnerable to disease and death. It's a concerning phenomenon impacting coral ecosystems worldwide. Let's continue to monitor and protect our precious reefs! ❤️

Photo Courtesy: Kirk Kilfoyle

Marine Environmental Education Center at the Carpenter House City of Deerfield Beach, Florida - Government City of Pompano Beach Discover Lauderdale By The Sea City of Fort Lauderdale Florida State Parks City of Hollywood, Florida Government City of Hallandale Beach Government MyFWC Florida Fish and Wildlife Nova Southeastern University



**Broward County ...** @Browar... Just now

In case you missed it, our sea turtle program was featured on @WPLGLocal10 last week! Our turtle team joined @LouisWPLG on the beach to talk turtles. 🐢 Read or watch the story online: <https://ow.ly/HurR50PBqPT> #turtletuesday



🗨️ 🔄 ❤️ ✉️

### Water Quality

- The EML continues to support the Florida Department of Environmental Protection and Southeast Florida Coral Reef Initiative by conducting monthly analyses of nutrients and other analytes from 115 sites in 4 counties (Broward, Dade, Monroe and Palm Beach) to identify the impact of land-based sources of pollution to coral reefs and marine ecosystem.

### Mooring Buoys

- Developed a series of educational videos with the Office of Public Communications on the importance of the Mooring Buoy Program and the proper use of mooring buoys within the boating community.
- Inspected and maintained, monthly, all 122 offshore mooring buoys located on Florida's coral reef.

### Sea Turtle Nesting Season

- Performed lighting site visits for technical assistance with local businesses, residential, or municipal entities.
- Presented at Outreach events in support of the County's sea turtle conservation program
- Facilitated meetings with municipalities regarding sea turtle nesting and/or lighting issues

**CCAP Action 79** – maintain beaches, **CCAP Actions 20 & 29** – Educate the community on climate change and engage and educate private sector stakeholders and community members about resilience strategies for the built, natural and social environment, and **CCAP Actions 98, 100, 102, and 106** – Increase natural area ecosystem resilience, prioritize areas for living shorelines, increase the availability of native regional plants, and public outreach and education on the status of coral reefs, and the effects of climate change and sea-level rise.



Dune Grant Program

- Received nine (9) applications for the County’s dune grant program.
- Finalized and issued eight (8) grants to local municipalities and private property owners.
- Four (4) native dune plantings or invasive removal projects started and completed.
- Provided information and/or presentation interested potential applicants.



**Broward Environment**  
Just now

On this Marine Monday we've got exciting news! The deployment of the SEAHIVE™ modules at Wahoo Bay (beside the Hillsboro Inlet) is now complete! 🏗️🌿 These innovative concrete structures, designed with the University of Miami (UM), are an attempt to make living shorelines more practical in higher energy environments, while supporting higher biodiversity and more organisms than natural shorelines. 🐠🐡 Let's celebrate this remarkable step towards protecting our oceans and preserving their beauty for generations to come! 🌊🌍

Image: Wahoo Bay

City of Pompano Beach MyFWC Florida Fish and Wildlife

Like Comment Share

Living Shorelines

- Continue partnership and collaboration with state agencies, local municipalities, academia, schools, and NGOs in the design and construction of the Wahoo Bay Seahive living shoreline project and the New River Middle School living shoreline project.

**I SPY A MANATEE**  
Mobile App

Report Sightings - Review Speed Zones - Submit Photos

Manatee Season  
November 15<sup>th</sup> – March 31<sup>st</sup>

Formulating  
the 2025  
Climate  
Action Plan



Policy



Healthy Community



Transportation



Built Environment



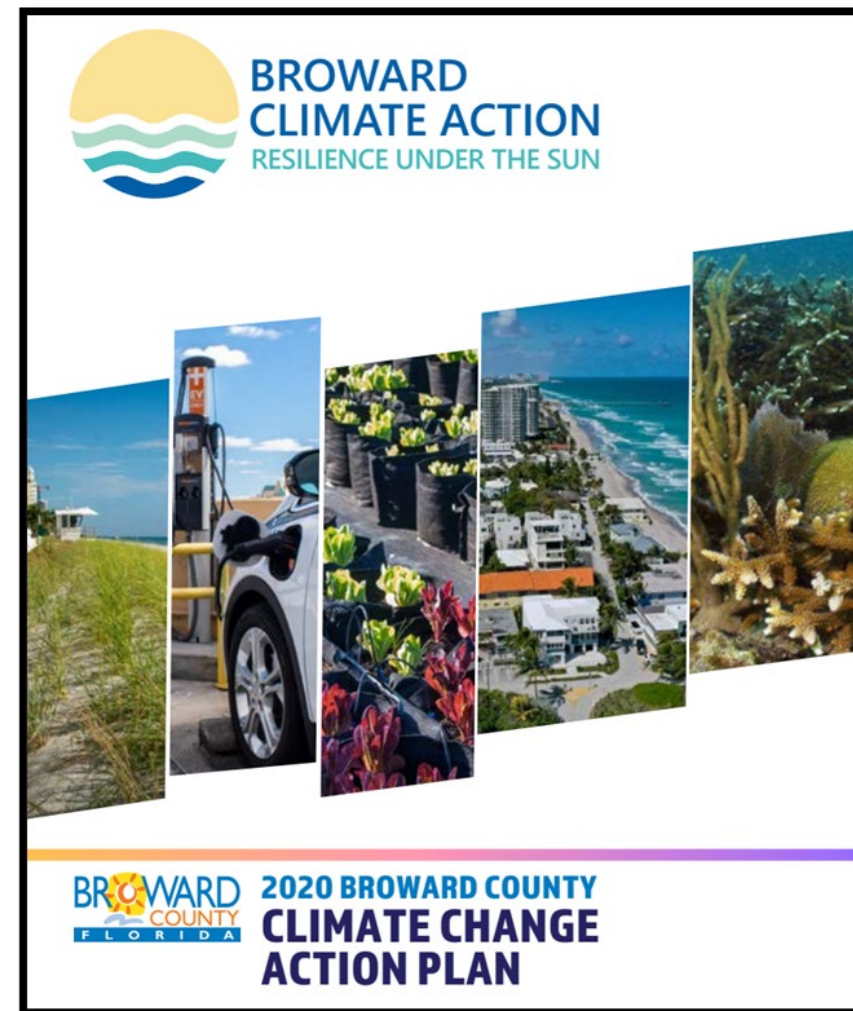
Energy Resources



Natural Systems



Water Resources



# Formulating the 2025 Climate Action Plan

- Timeline
  - Development stage –  
December 2023 – April 2024
  - Presentation /Draft of 2024  
CCAP to the CCTF – May 2024
  - Final to CCTF – August 2024
  - Board Action – November  
/December 2024



Thank you

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Natural Resources Division  
954-519-1476

[mpognon@broward.org](mailto:mpognon@broward.org)

[www.Broward.org/naturalresources](http://www.Broward.org/naturalresources)

