

Energy & Sustainability

▶ Program Updates

Climate Change Task Force

February 15, 2018

Environmental Planning and Community
Resilience Division

Action #11 Dark Skies

▶ Code Amendment

- ✓ 2 public meetings (Central County)

- ✓ CAO reviewing final draft

- ▶ Public comment period

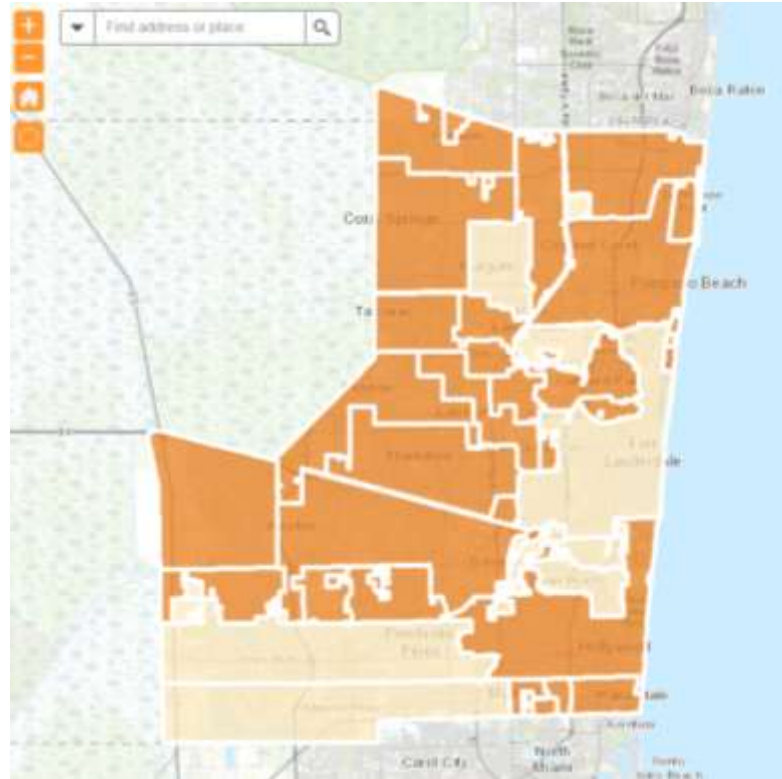
- ▶ Readings at Commission

- ▶ Broward.org/GoGreen



PACE

- ▶ 13,477 Applications Submitted To Date
- ▶ 5 providers



1,583 kW



Solar Capacity Installed

Energy Savings Potential
\$648,274*

* Based on U.S. National Average Cost per kWh

3,858
PACE
Projects Completed

70%
Funds Used for Hurricane Protection

\$63,435,492

Financed

Enough Energy Saved to Power

603



Homes



Climate Ambassadors

- ▶ Class of 15
- ▶ Signed Pledges
- ▶ Next training 4/7 (bi-lingual)

- ▶ Email resilience@broward.org to register



Broward Climate Ambassador Pledge

The Broward Climate Ambassador Pledge demonstrates my commitment to local climate action and joins me to others in my community who are interested in solutions. Broward County Board of County Commissioners have pledged to introduce renewable resources, and to reduce responsibly use the County's tools and resources to help spread understanding and awareness of climate action in Broward.

With my signature, I agree to take the following actions:

- I pledge to do my best to reduce the greenhouse gas emissions caused by me and to work on cutting my personal climate footprint and make low-carbon choices whenever possible.
- I pledge to share my experiences in making sustainable choices with my family, friends and colleagues, and encourage others to become Broward Climate Ambassadors.
- To achieve the level of a Broward Climate Ambassador, I pledge to complete and report three community climate awareness actions over the next year. I will commit to my plan for action to complete the following within the next:

3 Months Presence at Merrick Bay Elementary school

6 Months Work w/ City of Weston to spread awareness

11 Months Assist with developing 'Water Supply' action 34

Sign & Date 11/4/17

Pledge

Climate Change Element Update



Climate Change Element

The Broward County Climate Change Element provides a framework for integrating the economic, environmental, and social factors of climate change. A county-wide strategy, based on local vulnerability and consistent with regional efforts, the Element aims to mitigate the causes, and address the local implications, of global climate change. In doing so, we move one step closer to building a sustainable, climate resilient community.

GOALS, OBJECTIVES & POLICIES

GOAL CCE

Achieve a sustainable, climate resilient community by: promoting energy efficiency and greenhouse gas (GHG) reduction strategies; protecting and adapting public infrastructure, services, natural systems and resources from climate change impacts; and continuing to coordinate locally and regionally to monitor and address the changing needs and conditions of the community.

Promote Use of Renewable Energy and Access to Alternative Fuels

OBJECTIVE CCE 1: Mitigate the causes of climate change while providing for cleaner energy solutions and a more energy efficient way of life for visitors and residents.

POLICY CCE 1.1 Broward County shall minimize its contribution to global climate change by reducing county-wide GHG emissions by 80% below 2007 levels by 2050. The County will continue to regularly monitor and track progress of programs and initiatives that contribute to the ultimate reach of these goals.

POLICY CCE Broward County shall encourage research for increasing the proportion of solar-generated electricity transmitted to, distributed across and consumed within the County.

Moving Forward

Policy Broward County shall continue to support initiatives which seek to diversify fuel options for public transit and fleet vehicles, expand infrastructure for charging electric and hybrid electric vehicles, and incentivize parking for alternative fuel vehicles.



- ▶ 2018, then every 2 years
- ▶ Link CCAP, RCAP, GHG Inventory and progress reports
- ▶ Focus Areas:
 - ▶ Promote Use of Renewable Energy and Access to Alternative Fuels
 - ▶ Encourage the Design of Efficient Buildings and Resilient Infrastructure
 - ▶ Protect and Enhance Natural Systems and Water Resources
 - ▶ Utilize Green Infrastructure Solutions for Maximum Co-benefits
 - ▶ Dialogue with the Community on Socio-economic and Public Health Impacts of Climate Change

Climate Equity Training

▶ Urban Sustainability Directors Network

▶ 5 facilitated sessions

- ▶ The Opportunity
- ▶ Communications
- ▶ Shared Understanding
- ▶ Equity Toolkit
- ▶ Building a Team

▶ Videos on youtube

▶ Worksheets

▶ Coaching for an equity project



- 1 • Do you have a clear community outcome equity?
- 2 • What does your analysis of community
- 3 • How have communities been engaged opportunities to expand engagement?
- 4 • Who will benefit from or be burdened by the proposal? What strategies will advance
- 5 • What is your plan for equity-focused implementation?
- 6 • How will you ensure accountability and communicate about equity results?



Youth Engagement

- ▶ Center for Civic Engagement, Broward College
- ▶ IVY Ideas Night
- ▶ ESOL Youth Summit
- ▶ ArtMiami Deep Sea, MIT
- ▶ Junior Sustainability Stewards
- ▶ University of Toronto
- ▶ Florida Climate Institute Student Videos

STAR

Must Recertify by Feb 11, 2019

6 months to collect data
1 month internal review
3 month for STAR verification

Launch date April 11, 2018

- ▶ New application tool
 - ▶ Aligns previous results with Version 2.0 and estimates the level of effort needed
- ▶ Broward:
 - ▶ 114 measures require "Level 1" updates (received credit previously, just need QA/QC)
 - ▶ 166 measures require "Level 2" updates (received credit previously, but modified in V2.0)
 - ▶ 289 measures require "Level 3" updates (did not submit previously or are new in V2.0)

SSB: Solar Workshop

Speakers from:

- ▶ Southern Alliance for Clean Energy (SACE)
- ▶ National Renewable Energy Laboratory (NREL)
- ▶ SolSmart
- ▶ Broward PACE
- ▶ Solar United Neighbors of Florida (FL SUN)
- ▶ Miami Climate Alliance
- ▶ Sierra Club's Ready for 100% Campaign
- ▶ Solar Energy Loan Fund (SELF)
- ▶ City of Orlando
- ▶ City of Sarasota and Sarasota County

WELCOME

SOLAR

Feb. 7th 2018
NOON - 4 PM

Storage Collaboration Analysis Pilot Micro-grid Integration Financial support Bulk Purchasing Self-sufficiency Technological breakthroughs R.O.I Scale up

JOINT WORKSHOP
BROWARD COUNTY SUSTAINABILITY STEWARDS
CORPORATE SUSTAINABILITY NETWORK
JR. SSB
URBAN LEAGUE OF BROWARD COUNTY

AGENDA

Introduction

Panel 1: Community Initiatives

Panel 2: Public Sector Investments

Solutions Break

Panel 3: Market Forces & Technical Innovations

Activity – Mapping Potential Resiliency Hubs

Next Steps Discussion

Adjourn at 4 pm

Upcoming Events



- ▶ 2nd USACE Resilience Study Workshop
 - ▶ April
- ▶ STAR Webinar
 - ▶ March 21
- ▶ Jr. SSB: Youth Engagement
 - ▶ June 6 - capstone presentations
- ▶ Earth Day
 - ▶ April 22