



City of Delray Beach Office of Sustainability



Sustainability and Resilience Initiatives

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September 11th, 2018
City Commission Workshop

Agenda Overview

1. 2017/18 Progress by the numbers
2. Priorities of Green Implementation Advisory Board (GIAB)
3. Rising Waters Task Force Update (RWTF)
4. Advancing the Textile Recycling Program
5. Advancing the Plastic Straw Ordinance
6. Direction on Green Building Ordinance
7. Questions and Response

2017/18 Office of Sustainability & GIAB ROI

- 1,009 trees with a lifetime ecosystem value of \$1 million were planted by Community Greening with support of Sustainability & Parks & Recreation Department
- 51 Property Assessed Clean Energy (PACE) projects funded in Delray Beach totaling \$944,500
- 5 New Electric Vehicle Charges (3 replaced and 2 new at City Hall)
- Tree Canopy Analysis – Started July 2018
- Greenhouse Gas Inventory (GHG Inventory) – Started August 2018
- 13 GIAB meetings with a quorum; reviewed 15 development projects
- 7 Public Outreach events reaching nearly 700 residents
 - King Tide, Earth Day, Daylight Hour, Eco-Double Feature (Beach Property Owners Association BPOA), Skip the Straw Campaign, Kiwanis Club, Sharon Club
 - Carver Middle School Sustainability Collaboration (new 2018)



Green Implementation Advancement Board (GIAB) Directives & City Commission Direction Needed

Greener City

1. Eliminate Styrofoam and single use plastic from City operations
2. Create an internal 'Green Team'
3. Increase zero-emission fleet
4. Develop a social media channel to publicize sustainability initiatives & information
5. Install solar array on City property
6. Schedule annual report to the Commission in early 2019

Greener Community

1. Promote solar installation on private development
2. Create a coral reef safe sunscreen campaign
3. Address the post-recycling era
4. Advocate for green businesses (designation and recruitment)
5. Support additional sustainability education for youth & community
6. Expand 'alternative' transportation options

Rising Waters Task Force Update

Goal 1. Proactive & Process Driven

- Sustainability Officer moved to City Manager's Office (1A)
- Community Vulnerability Assessment is included in 2018-19 CIP Budget Request (1B)
- South Florida Water Management District met with staff about saltwater intrusion risk (1B)
- Seawall Analysis Underway (1C)

Goal 2. Plan Comprehensively

- New Coastal Element and Conservation, Sustainability and Resilience Element (2A)
- Florida Building Code added 12+” to BFE (2D)
- Storm Water Master Plan examines storage issue (2D)
- Greenhouse Gas Inventory is underway

Goal 3. Allocate Resources

- Submitted Community Rating System audit waiting results. Approximately \$2,600 in saving for the city to reinvest (3A)
- Veteran's Park Seawall (3B)

Rising Waters Task Force Update

Goal 4. Leverage Insurance

- Eco-double Feature event (4A)
- King Tide 2018 speaker (4B)
- Business Continuity Planning Workshops (4B)

Goal 5. Educate the Public

- King Tide Event 2017 & 2018 and Climate Art Weekend in 2019 (5A)
- Resilient Delray Website featuring infrastructure projects (5A)
- GIAB meets with developers and have reviewed 15 projects this year (5E)

Goal 6. Harness Economic Development

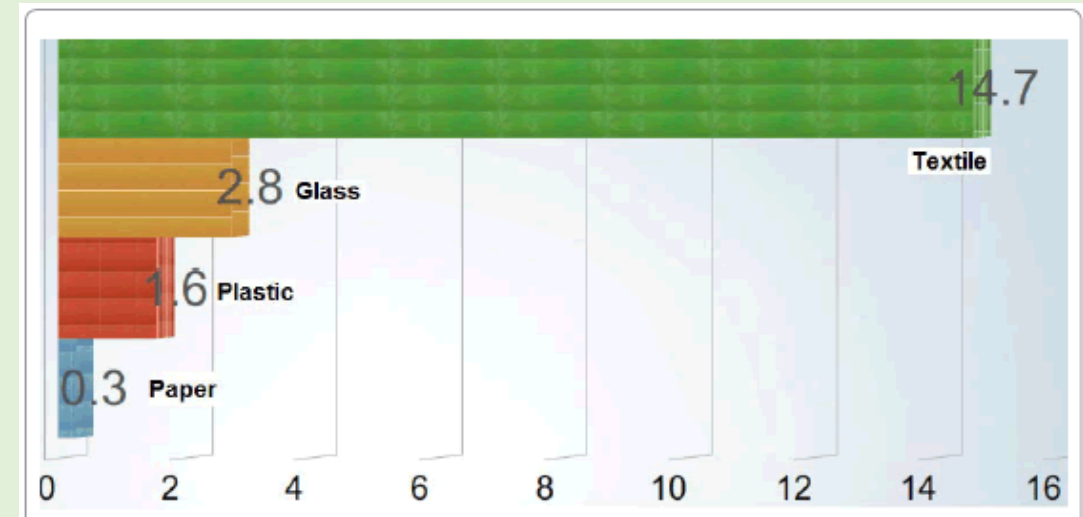
- Professional Outreach –Shore and Beach Conference; Urban Sustainability Directors Network – in Denver; SF Regional Climate Compact; The Seawall Coalition(6A)
- Press - Coastal Star and Palm Beach Post featured the King Tide Event and the Straw Campaign (6B)

Textile Recycling Program

PROBLEM STATEMENT

- The average American discards 70 lb of clothing annually, less that 15% of that is recycled
- Thrift store donation is less convenient
 - Destination trip
 - Limited hours
- Thrift stores don't accept all textiles types

Tons of GHG Prevented by Reuse or Recycling



Source: Jo. Of Textile Science and Engineering
<https://www.omicsonline.org/open-access/environmental-sustainability-through-textile-recycling-2165-8064.S2-007.php?aid=26508>

Textile Recycling Program History

8



2015

Textile Proposed
and Tabled



2016

City Hosts
Stakeholder
Collaboration
Meeting



2017

Program
development and
RFP Scope created



GIAB Discusses Program



**January – June
2018**

RFP Issued and Reponses
received

8

Textile Recycling Program

Recommended Program

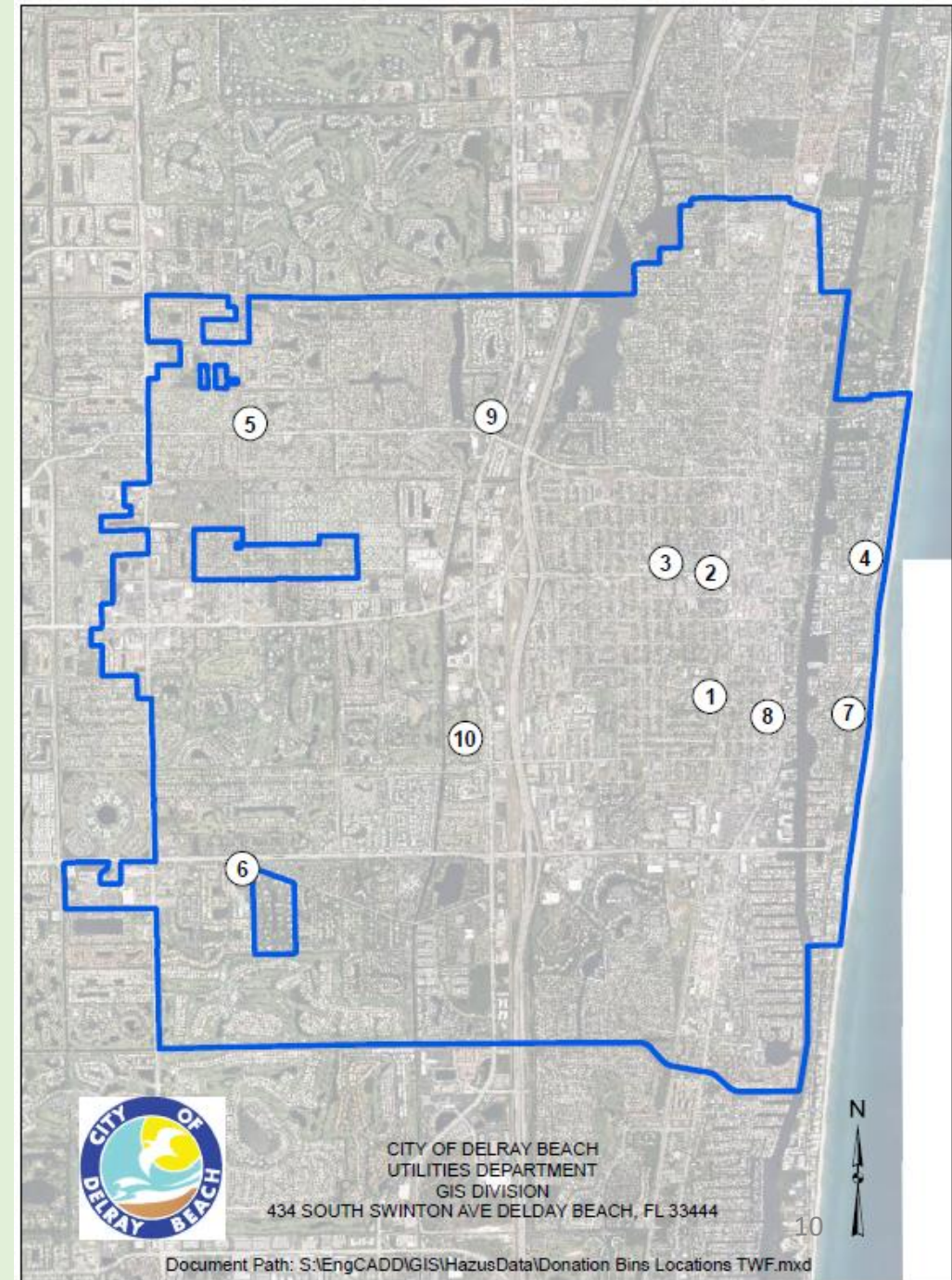
- 10 custom-wrapped bins only at specific city facilities - Bins will not proliferate throughout city.
- Municipal property locations allow staff to monitor cleanliness.
- City will be paid a minimum of \$10,000 annually, a total of \$50,000 over 5 years.
- Revenue could be slighter higher as the vendor may pay \$0.10 per pound for collection at events.



Textile Recycling Bin Proposed Locations

Locations were determined as part of stakeholder outreach process in 2016/2017. Locations were intentionally limited for monitoring purposes.

- 1) Swinton Operational Complex
- 2) City Hall Parking
- 3) Fire Stations #111
- 4) Fire Station #112
- 5) Fire Station #114
- 6) Fire Station #115
- 7) Ocean Rescue Parking lot
- 8) 505 Teen Center
- 9) Family Recreational Playground
- 10) Lakeview Golf Club



'Skip the Straw Delray'

Problem Statement

- Plastic straws are non-recyclable plastics and a threat to marine life and birds.
- Approximately 500,000,000 straws are used daily in the US, most for less than 20 minutes.

Precedent & Drive

- Straw elimination campaigns have gained national momentum.
- Nine cities, including Ft. Meyers Beach, Miami Beach and Marco Island in FL, have adopted ordinances limiting or prohibiting plastic straws.
 - Hallendale could be next; second reading in December 2018
- Major Corporations have joined this campaign: American Airlines, Disney, Starbucks, McDonald's.



'Skip the Straw Delray'

In May 2018, GIAB passed a resolution requesting the City Commission adopt a two-phase straw ban ordinance.

1. Ordinance would initially limit distribution of plastic straws to patrons that specifically request them. '*On Request Only*'.
2. After 18 months, plastic straws would be prohibited. Only reusable or compostable straws would be permitted.



‘Skip the Straw **Delray** ’ Recommendation

Staff supports active education and outreach programming with partner organizations

Staff supports GIAB’s two-phased Ordinance

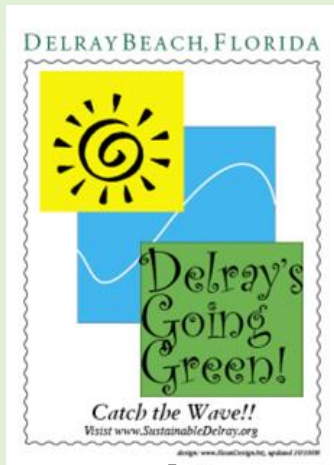
- Allows for consumer preferences to change
- Allows establishments to gradually change to more sustainable alternatives
- Allows the market to create better products in response to growing demand
- Allows for market to increase stock of available alternatives and prices to fall
- Resolution will not force behavioral change

Green Building Ordinance

Current Ordinance (Feb. 2015):

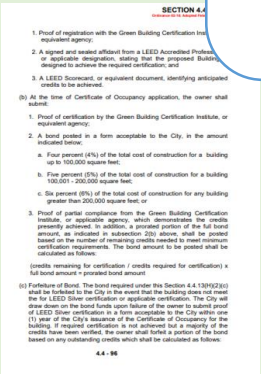
Ordinance 02-15, Section 4.4.13 (F)

- ❖ Central Business District (CBD)
- ❖ $\geq 50,000$ sq.ft.
- ❖ LEED Silver or *equivalent*



2009

Green Task Force
Report



Feb. 2015

Original Green
Building Ordinance



2016

Green Building
Survey



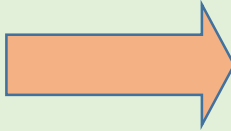
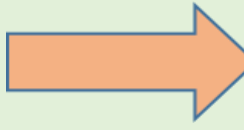
Miami Beach + Coral Gables
New Green Building Ordinances



Jan. 2018

Propose Update to Green
Building Ordinance

GIAB's Proposed Change to Green Building Requirement

- From only Central Business District  Citywide
- From buildings 50,000, sf  Lower threshold (5,000 sf?)
- A strong, consistent green certification – LEED* Silver (or other Certifications?)



* LEED stands for
Leadership in Energy
and Environmental
Design



Green Globes



Challenges with Updating Green Requirement

Developers Concerns



- Extra weeks or months depending on program
- Communication during process
- Recertification



- Construction cost can be 3%-5% more
- Certification costs \$2,500 to \$15,000
- Florida Building Code is already 'green' no need to pay for certification

Green Building Requirement - Rationale



Environmental Benefits

- 40% of Green House Gases are building related
- Use 25% less energy
- Consume 11% less water
- Have 34% lower CO2 emissions



Health Benefits

- ↑ Employee Health
- ↑ Productivity
- “Feel Better Environment”



Cost Premium

- ↓ Operating Costs
- ↓ Maintenance Costs
- ↑ Property Values
- ↑ Revenue (*indirectly*)

Considerations for Updating Requirement

- Lead by example and require new City buildings to certify.
- Clarify the certifications that are acceptable. They are not equivalent



- Determine applicable geography or building type
- Determine the square footage for applicability
- Decide if incentives and exclusions are needed

Green Building Requirement Staff Recommendation

City	Geography	Square footage size	Green Building Standard	Incentives
Miami	T5, T6, CI & CS zones	>50,000	LEED Silver or Equivalent	only outside the zone
West Palm Beach	CMUD zone-downtown	all in area	LEED or Equivalent	extra sf, based on LEED level
Doral	City wide	>25,000 Commercial, all residential	Nationally recognized/ FGBS or Energy Star	none
Coral Gables	City wide	>20,000 + smaller requiring considerations	LEED Silver or Equivalent	none
Hollywood	Citywide	> 20,000, smaller buildings have mandatory practices	LEED or other program agreed upon with CM	none
North Miami	City wide	all private must meet North Miami green requirements	LEED Certified, Public & CRA buildings must be LEED Silver	fast tracking, reduced permit fee, city recognition
Miami Beach	Citywide	> 7,000	LEED Gold or Living Bld, Challenge	none
Staff Recommended Direction (Refinement needed)	City Wide	>5,000 private sector >25,000 private sector All City Facilities	National recognized green standard (or Delray specific standard.) LEED Silver or <i>Better</i> >25,000	LEED Gold or better (sf bonus, roof uses, setback, parking etc)

City Commission Direction

- Textile Program - Can we award the envisioned program of 10-bins at City facilities?
- *Skip the Straw*- Do you direct staff to write the plastic straw ordinance that applies citywide, has an 18 month period of “upon request”, then bans plastic, non-compostable straws?
- Revision Green Building Ordinance – Are you supportive of making the Green Building requirement more stringent and apply citywide? Do you direct staff to refine the specification for threshold size and program details?



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